



AUDIENCE PARTICIPATION — During a portion of the floorshow presented at the Chief Petty Officers' Mess annual luau, several guests from the audience were given the chance to learn the art of Polynesian dancing, much to the merriment of those who participated and those who watched. — Photos by Jim Baldwin

### Rodeos highlight Labor Day fete at Bishop's Tri-County fairgrounds

Rodeos highlight the 52nd annual Bishop Homecoming and Labor Day Celebration this weekend, with other activities including a parade, a dance, a breakfast, a horseshoe pitching tourney and the traditional Whiskereno contest. The fun begins tonight with a dance at the Charles Brown Auditorium at the Tri-County Fairgrounds. During the dance the Homecoming Queen will be crowned, and the finals of the Whiskereno Contest will be held.

### China Lake Players' version of 'God's Favorite' opens Sept. 7

Curtain-time is fast approaching for the next China Lake Players' production — "God's Favorite," written by Neil Simon, who is one of America's foremost comedy playwrights. The China Lake Players' first performance of "God's Favorite" is scheduled next Friday, Sept. 7, at 8:15 p.m. There also will be performances on Sept. 8, 14, and 15, all at 8:15 p.m. at The Playhouse (located at the corner of Lauritsen Road and Blandy Avenue).

### Rec. facilities open on holiday.

Table listing recreational facilities and their hours of operation for Monday, Sept. 3. Facilities include Bowling Alley, Center Theater, Gymnasium, Indoor Pool, Golf Course, COM Pool, CPOM Pool, EM Pool, and Navy Exchange Mini-Mart.

### Help in reducing test anxieties can be found at Center library

The opening of school each year begins anxiety for many children and adults who are concerned about how to pass tests. Effective study habits of children, young adults and adults are crucial toward obtaining good grades. The Center Library staff believes studying is a skill that can and must be developed just like any other skill. Library users will find books that



COMEDY ACT — One of the Senoa and The Polynesian Extravaganza dancers acts out a ribald story of old Polynesia during the floorshow portion of the Chief Petty Officers' Mess annual Hawaiian luau.

### Local group offers square dance class starting on Sept. 5

The Cactus Squares Dance Club will be holding square-dance classes beginning next Wednesday, Sept. 5, at Pierce School at 7:30 p.m. The first three classes are free so that interested persons may become acquainted with square dancing, which is fun, a good way to socialize, and good exercise.

### Weekend Roundup

Special entree tonight on the menu at the Commissioned Officers' Mess will be surf 'n turf, which will be served from 6 to 9 o'clock for the dining pleasure of COM patrons.

provide them with simple, effective tools to help them become more effective students. George Weigand, in "How to Succeed in High School," tells the student how to plan his time, how to combine study and recreation, how to increase his memory and attention span, how to take good notes that will be useful for tests or classroom participation, and how to read more effectively.

The author also includes helpful and timesaving skills for specific subject areas. An entire chapter is devoted to test-taking skills, developing confidence, reviewing material, and making the best use of your time. Test anxiety responses form a kind of trap students fall into at an early age and from which they never escape unless thought patterns and habits are changed.

Eric Jensen's "You Can Succeed" first discusses reasons for failure in school and then tells the reader how to achieve self-motivation for better grades. "Study Skills for Those Adults Returning to School," by Jerold W. Apps is designed for returning students who want to sharpen their study skills and who want to learn better.

MOVIES advertisement listing film titles and showtimes for Friday through Sunday.

U.S. Government Printing Office advertisement with a form for ordering books.



NAVAL WEAPONS CENTER CHINA LAKE CALIFORNIA

### NWC hosts 2nd session of Dept. of Defense Strategy Conference



SERIOUS MOMENT — The subject appears to have taken a serious tone as this photo was snapped of attendees at the DoD Investment Strategy Conference. Shown with Capt. K. A. Dickerson, NWC Commander, is Gary Morton, Director of Navy Laboratories.

The second of two sessions of a Department of Defense Strategy Conference was held recently at the Naval Weapons Center. It followed a similar session held a week earlier at the Naval Research Laboratory (NRL) in Washington, D.C. The prime purpose of the conference was to provide an overview, along with some in-depth information in some areas, of the Navy science and technology program to Dr. Edith Martin, Deputy Under Secretary of Defense (Research and Advanced Technology) and her staff.

### Giant military exercise set in desert area

Increased activity at Armatage Airfield is coming up next week in support of Gallant Eagle '84, a Joint Chiefs of Staff military readiness exercise that is scheduled to begin on Wednesday Sept. 5, and continue through Sept. 11. Day and night operations are a part of this huge military exercise in which some 50,000 military personnel from all branches of the military services will participate.



FRIENDLY GET-TOGETHER — B. W. Hays, NWC Technical Director, and Rear Admiral John B. Mooney, Jr., found time to relax after two days of meetings during a social hour that preceded dinner on the second day of the DoD Investment Strategy Conference. RAdm. Mooney is the Chief of Naval Research.

### Update given on flood recovery work at lab

The long hours and dedicated efforts of personnel from throughout the Naval Weapons Center are gradually restoring flood-devasted Michelson Laboratory to its former effective self. The ingenuity and skills of Public Works Department personnel are proving especially valuable in restoring essential utilities so that other work can proceed.



Dr. Edith Martin



AND THE BEAT GOES ON — Additional candidates for the "Michelson Lab Muckers" badge are this trio of Navy enlisted men who were busy Tuesday morning helping to clean mud and silt (two- to three-inches deep) from the basement of Wing 7 in Michelson Laboratory. The three sailors are (from left) ASEAN Greg Allen, AQAN John Ressue, and AMS3 Mike Johnson. — Photo by PHAN Greg Hogan





### Commander's Cup golf competition won by NWC Blue

Commander's Cup competition in golf, staged on Wednesday afternoon of last week at the China Lake golf course, was won by the NWC Blue (Code 61) team, whose six players finished this 18-hole event with a combined total score of 560.

Members of the winning NWC Blue team were Russ Malone, Joe Phaneuf, Chuck Waugh, James Fisher, Mark Wornkey, and Dave Reimers.

Second place was nabbed by the VX-5 Vampires for their score of 606, while the also rans were NWC Gold golfers, who finished with a team score of 637.

This was a strictly scratch (no handicap) event, and the 18-hole total of all entrants on each team were tallied to arrive at the team total.

Since VX-5 had just five, instead of the required six golfers, the Vampires had tacked onto their score the highest score of the day, which turned out to be an 18-hole round of 121 fired by an NWC Gold golfer.

The three golfers with the best 18-hole totals were Bob Keen of VX-5 (81), and Del Hays, also of VX-5, and Mark Wornkey, of NWC Blue, who tied for second with scores of 89.

With two events (horseshoes and golf) having been completed in the 1984-85 Commander's Cup competition, NWC Blue is in first place with 8 points, NWC Gold is second with 6, and VX-5 is trailing with 4 points.

Winning a Commander's Cup event earns a team 5 points, while 3 points are awarded for second, and there is 1 point for third.

### Outdoor swimming pools to close for season after Mon.

According to information received from the Recreation Services Department, the last day of outdoor pool operations for the summer will be Labor Day, Sept. 3.

The hours of operation will be 12 noon to 6 p.m. for the swimming pools located at the Enlisted Mess and Chief Petty Officers' Mess; and noon to 7 p.m. for the Commissioned Officers' Mess swimming pool. At the indoor pool, located at the Center gym, time is set aside for lap swimming from noon to 1 p.m. and there will be open swimming from 1 to 5 p.m.

On Monday, Sept. 17, the indoor pool will close for scheduled maintenance and will re-open approximately two weeks later.

Individuals will be required to show their Military ID's or Athletic Association membership cards to participate in the lap swim program.

For more information, contact the Sports Division office by calling NWC ext. 2334 or 2571.

### More bowlers sought for league season start

Another season of league bowling competition will begin on Tuesday night at Hall Memorial Lanes, and there are still openings for bowlers in many of the leagues.

There is league bowling nightly except Saturday at the China Lake bowling alley, and the variety of leagues almost assures a place for anyone interested in participating.

There are men's leagues, women's leagues, mixed leagues, and military leagues for teams composed of men and women bowlers. Anyone who wishes to join a league at Hall Memorial Lanes should either visit the bowling alley, or call NWC 3471 for information.

## Bears nip VX-5 to retain military softball league

The two top teams tangled last week in what turned out to be the best game of the season in the Military (slow pitch) Softball League, sponsored by the Recreation Services Department.

The outcome was a 11-0 win over the VX-5 Vampires by the Bad News Bears in an extra inning contest that was tied 10-10 after the regulation seven innings of play.

The victory by the Bears gives them a one-game lead over VX-5 in the league standings, as of Aug. 24.

Both teams battled on even terms through the first three innings of play. The Bears, who fell behind 4-2 in the first inning, outscored the Vampires 5-3 in the next two innings, and it was a 7-7 tie ball game until the league leaders pushed across three runs in the top of the fourth to build up a 10-7 advantage.

VX-5 battled back, however, getting two runs in the bottom of the fifth and one more in the last half of the seventh that once again tied the score and made another inning of play necessary to decide the winner.

The nod went to the Bad News Bears, who tallied the winning run in the top of the eighth.

Dwayne Powell, left fielder, was the big man at the plate for the Bears. He was credited with four runs batted in on a home run and single in the three times at bat.

Extra-base blows for the Bears also were chalked up by Walt Derricks, who had a triple and a double, and Tim Bryant, who had a double and two singles.

The leading hitter for VX-5 was Tom Viviano, who had two 3-base hits, while Karl Osbourne chipped in a double and two singles, and Barry Robinette batted 1.000 by getting three singles.

After being put to the test by VX-5, the Bad News Bears cruised to a lopsided 21-5 win over the Intruders in the second slow pitch softball game they played last week.

It was close for the first three innings, with the Bears leading by a score of just 1-0. In the next three innings of play, however, the league leaders clobbered the Intruders 20-5 to win going away. Big inning for the Bears was the fifth in which they tallied 11 runs.

Stu Caldwell, the Bears' winning pitcher, had three hits (all singles) in four times at bat, and Tim Bryant, also of the Bears, had a double and two singles to show for his efforts at the plate.

Scott Jones, who hit a double and a single, and Buck, with two doubles, were the leading hitters for the Intruders.

The VX-5 Vampires made up for their loss to the Bad News Bears by knocking off the NWC Os 28-12, and the Intruders defeated The Beef, 23-10 in the other Military (slow pitch) Softball League games played last week.

The VX-5 team got off to a 10-4 lead after two innings of play against the NWC O's, and then proceeded to pull steadily away enroute to winning the game by a 16-run margin.

(Continued on Page 7)

Both on offense and defense.

One of the team's bright spots, Coach Vejtsa reports, is the defensive secondary, but lack of size in the line may be an open invitation for opponents to grind it out on the ground.

The varsity gridders' first practice on offense as a team was held last Friday, and there have been two-a-day drills for the past week. The new school year begins Tuesday, and the Burros will then have just three more practice sessions to get ready for their non-league opponents from Barstow.

The BHS varsity has a tough pre-league schedule that includes playing North High, one of the top teams this season in the Bakersfield area, at Bakersfield on Sept. 14; and hosting the Bakersfield High Drillers on Sept. 12.

Then, after a week's rest, there will be a long trek to Santa Maria on Oct. 15 before the Burros begin the first of six Golden League games at Quartz Hill on Oct. 12.

Coach Vejtsa expects Quartz Hill and Antelope Valley to be two of the top league teams, and the Burros will be clashing with them on successive Friday nights (Oct. 12 and 19) on the opposing teams' home fields.

The BHS varsity will then wind up the 1984 season with a road trip to Saugus on Nov. 2 that will be sandwiched in between home games against Canyon High (labeled by Coach Vejtsa as the "team to beat in the Golden League") and Palmdale on Oct. 26 and Nov. 9, respectively.

Season tickets and reserved seat tickets for the team's home games can now be purchased at the school activities' office from 7:30 to 4:30 p.m. Mondays through Fridays.

General admission season tickets for the football team's four home games are priced at \$9, while reserved seat tickets cost \$5 per game or \$20 for the home season.

Anyone who held season reserved seats last year may renew them before Tuesday, Sept. 4. After Sept. 4, all unsold reserved seats will be available to the general public.



CLOSE PLAY AT FIRST — Steve Hensley (the base runner) is out at first on a close play during the Bad News Bears vs. Intruders game in the Military (slow pitch) Softball League. The Intruders' first baseman is Terry Maidment, who has the ball nestled in his glove. Watching the play from his vantage point as home plate umpire is Terry Ward. The Bears won easily by a score of 21-5.

had a pair of doubles. In addition, Derricks and Bryant each hit singles, and Dean Jones picked up a double and a single for the Bears.

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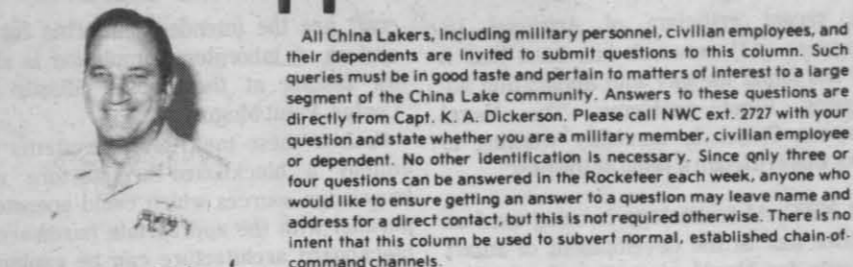
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## The Skipper sez



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. K. A. Dickerson. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave name and address for a direct contact, but this is not required otherwise. There is no intent that this column be used to subvert normal, established chain-of-command channels.

### QUESTION

**Enlisted Military** — I live in base housing. I called Public Works Trouble Desk on the morning that a faucet was leaking. It couldn't be shut off, and was going full blast. Because I won't give permission for Public Works plumbers to enter my residence without my presence, they won't make an emergency chit and it's been this way for over 12 hours.

Now gallons of water are running down the drain. I wonder if this is standard procedure?

### ANSWER

Calls of an emergency nature will be answered as soon as possible, normally the same day. Routine calls will be answered within three to seven working days.

I have been informed that your faucet was repaired the day following your trouble call. Giving permission to enter to perform maintenance work speeds up the process and is the most efficient way to do work, if at all possible. When entry must be coordinated between tenant and maintenance men, time is lost.

I hope you understand we intend to respond to your problems, bearing in mind conservation measures, the nature of the problem and whether or not entry has to be coordinated with the occupant.

On emergency calls we also request permission to enter. If this is not given, then we will wait until such time as the occupant can let us in. The only exception to this rule is when there is clearly a danger to the occupant or there is an obvious threat to government property. In these cases we will enter and secure an emergency situation.

## Head of TID expresses thanks for help in saving documents

Steve Sanders, head of the Technical Information Department, expressed his appreciation to all the volunteers who pitched in to help save the books and documents that were inundated by flooding of the Michelson Laboratory basement during the heavy rains on Aug. 15.

Among those especially mentioned ("and I'd like to mention all the marvelous people by name but there were so many that I'm afraid I'd forget someone," says Sanders) were the Marines, led by Maj. George Goodwin, from a detachment now assigned to VX-5 for Operational Evaluation of the AV-8B Harrier aircraft; personnel of Naval Reserve Support Unit 0176; sailors from Armitage Airfield; and a lot of employees from TID who put in long, volunteer hours of work.

"In fact," Sanders adds, "there's not a code from throughout the base that was not represented. Sailors, scientists, administrative personnel, department heads, all pitched in to help. The list just goes on and on."

Sanders also specifically mentioned the super support from the Ordnance Systems Department, which loaned the use of its freezers in addition to providing manpower in the form of truck drivers; the Supply Department, which provided fork lifts and refrigerator space; strong support from the Range Department; and equally welcome assistance by Pan American contractor personnel.

Comments made by those who lent their muscles to the damp and dirty task emphasized that "the NOTS spirit is still alive and well," in reference to times in the early history of what is now NWC, when everyone pitched in regardless of rank or occupation to get a job done.

Recognition of their ongoing efforts in support of the NWC Ground Electronics Branch came to China Lake's Naval Reserve Support Unit 0176 in the form of a letter of appreciation presented recently by Capt. K. A. Dickerson, NWC Commander. Specifically mentioned in the letter was Chief Electronics Technician Lyle Redfoot.

ETC Redfoot was the member of NSRU 0176 who recognized the need to completely overhaul the Center's disaster control communications equipment early in 1982. Although the Naval Weapons Center had



ANECDOTES EXCHANGED — Enjoying an informal chat during a social hour that preceded dinner at the Commissioned Officers' Mess for those who attended the DoD Investment Strategy Conference, Dr. E. Ann Berman (at left), Deputy Assistant Secretary of the Navy (Research and Technology) gets some pointers on "fishing in Mexico" from Bob Hillyer (at right) Technical Director of the Naval Ocean Systems Center (NOSC) in San Diego. Listening in is John Silva, Program Director for Technology at NOSC.

## Defense Strategy Conference...

(Continued from Page 1)

of Defense Caspar Weinberger recently signed a memorandum requesting a real growth per year in science and technology programs by each of the branches of the military service of 6 percent for research, and 7 percent for exploratory development.

Dr. Martin was appreciative, she said, of the opportunity that her visit to NWC gave her to better understand the role of the Navy Laboratories — particularly the high-spectrum nature of the Navy Laboratories.

She views as excellent the role that the Navy Laboratories play in facilitating the rapid transition of the results of technology programs into Fleet systems.

Both B. W. Hays, NWC Technical Director, and Dr. Ed Royce, head of the Research Department, who organized the program for the conference held here, expressed their thanks to all NWC personnel involved for their "extraordinary efforts."

This word of appreciation extended from those in the technical project areas, who put together the presentations and hardware displays, to the Program Coordinator's Office and the employees of the Safety and Security Department, who were involved in moving the conference from the Management Center of Michelson Laboratory to the Commissioned Officers' Mess when heavy rainfall on Aug. 15 flooded the laboratory and made it necessary for the lab to be evacuated.

CHAMPUS claims' deadline

The Civilian Health and Medical Program of the Uniformed Services (CHAMPUS) has a deadline for filing medical care claims. Claims must be received by the regional CHAMPUS claims processor not later than the end of the year after the year the medical care was received.

In the case of any medical care received under CHAMPUS in 1984, those covered by CHAMPUS have until Dec. 31, 1985, to turn in a claim.

Over the next 20 months, this unit worked on the Disaster Control Communications equipment during its two-week ACDUTRA and also during weekend drill periods. A total of eight radio systems with matching antennas were reworked, repaired and installed. Salvage materials were used where possible to reduce cost.

The letter went on to commend Redfoot and his men for repairing and modifying a mobile van for use as a back-up airfield control tower and for continuing to provide "other technical assistance in the maintenance and upgrading of vital equipment as funds have become available."

By JO2 Carolyn A. Spurgeon, USNR-R

## SAR helo from NWC aids flash flood victims at Keeler

On Tuesday afternoon of last week, the NWC Search and Rescue helicopter was again called into action to rescue two women and the two daughters of one of the women who had been stranded by flash flood waters at Keeler, located on the east side of Owen's Lake.

The SAR helo, piloted by LCDr. Buz Massengale, with Lt. Greg Friedrichsen as co-pilot, and AEAN Mark Keenan, AE3 Barry Beavers, and HM3 Jana Davis comprising the aircrew, left Armitage Airfield at 4:50 p.m. to locate and pick-up Rita Wicker, Jolene Hauff and Mrs. Hauff's two daughters, aged 2-and 4-years-old, who had become stranded when access roads became blocked by water that was a result of flooding in the town of Keeler.

The flood victims were transported to the U.S. Forest Visitors Center in Lone Pine, which had been turned into an emergency care center for Keeler townspeople.



CONGRATULATIONS EXTENDED — Capt. Joe T. Phaneuf, head of the Aircraft Department, presents one of Code 61's employees, David A. Rosenthal, a patent award for his development of an apparatus and technique that enables the altitude of re-entry vehicles to be determined. Rosenthal, an electronics engineer in the Systems Engineering Branch, developed this instrument to be used on such vehicles as the In-tercontinental Ballistic Missile.

No firm dates can yet be given about when the laboratory will be fully serviceable once more.

—Photo by PHAN Greg Hogan

## Skipper conveys thanks to all who have assisted in flood cleanup work

To All Hands:

As the massive clean-up continues in Michelson Laboratory and throughout the Naval Weapons Center, I want to take this opportunity to commend the entire military/civilian work force for their attitudes and efforts toward returning China Lake to a fully productive condition.

It will be a while before we are completely operational; however, the personal dedication, long hours, and volunteer labor you have invested is minimizing that time dramatically. It is only because of your individual efforts that we are in fact far ahead of our predicted recovery schedule.

We can all be thankful that our losses were restricted to facilities and equipments and that we did not lose any lives during the flood.

The China Lake "can do" attitude has — as it always does — made me enormously proud. Well done!

Captain K. A. Dickerson  
Commander, NWC

## Space shuttle mission specialist to speak at Hispanic Wk. lunch

Dr. Franklin Chang-Diaz, who has been selected by the National Aeronautics and Space Administration (NASA) as a mission specialist for a future space shuttle flight, will be the guest speaker for the luncheon planned as part of the Hispanic Heritage Week observance at NWC.

The luncheon will be held on Friday, Sept. 14, from 11 a.m. until 1 p.m. at the Enlisted Mess. The length of the luncheon has been expanded from the normal lunch hour to permit Dr. Chang-Diaz adequate time to present his views about becoming an astronaut and other matters.

A native of Costa Rica, he moved to the United States in time to complete high school in Hartford, Conn., and to attend the University of Connecticut. In addition to the bachelor's degree in mechanical engineering that he holds from that institution, Dr. Chang-Diaz also has a doctorate in applied plasma physics from the Massachusetts Institute of Technology. He is a member of Sigma Xi.

Since graduation, Dr. Chang-Diaz has served on the technical staff of the Charles Stark Draper Laboratory, and is also a visiting scientist with the MIT Plasma Fusion Center. In addition to his work in

science and engineering, he also worked for 2½ years as a house manager in an experimental community residence for deinstitutionalizing chronic mental patients, and served as an instructor/advisor with a rehabilitation program for Hispanic drug abusers.

Advance registration for the luncheon is required. The lunch menu is a tamale and enchilada dinner with rice, beans, and salad for \$5 per person. Reservations may be made by telephoning Jerry Lee deGeus at NWC ext. 2348. Only a limited number of tickets are available, so they should be reserved promptly.

Tickets are available from Ava Whitman, Code 093; Belle Hervey, Code 094; Estella Paine, Code 247; Hector Leon, Code 35062; Mena Leon, Code 62021; Larry Scholl, Code 83; and Madison Bryson, Code 2105.

Other events planned during the week include a Sister City Spanish-speaking luncheon to be held at El Charro Avitia on Monday, Sept. 11; a film festival on Tuesday, a workshop presented by Dr. Phillip Sanchez Perez of California State College, Bakersfield, on Wednesday; and a dance sponsored by Los Amigos Hispanos on Saturday.

## Giant military exercise set. . .

(Continued from Page 1)  
The NWC Test and Evaluation Directorate, is in charge of the NWC participation in Gallant Eagle '84, assisted by John Halligan, as project engineer. There will be approximately 100 aircraft per day "attacking" targets in the Coso range and at Echo Range, Halligan said.

These aircraft will come from as far away as Mountain Home, Utah, and Sacramento, Calif., and a portion of this military readiness exercise also will involve parachute drops by Special Forces from Ft. Bragg in North Carolina.

Personnel assigned to Armitage Airfield will be augmented by other military men and women who will provide any additional help needed for refueling and maintenance of many Army and Air Force helicopters, as well as Air Force F-15 aircraft.

Parts of the exercise are planned at the

National Training Center at Fort Irwin (near Barstow), and the Marine Corps Air Ground Combat Center near Twentynine Palms.

The purpose of the annual exercises is to determine how well the four military services perform together in simulated combat. The maneuvers are under the direction of the U.S. Central Command, formerly known as the Rapid Deployment Force.

## Police reports . . .

A man walking along Knox Road who appeared to be under the influence of an intoxicant was picked up on Wednesday morning of last week by China Lake police.

When investigation revealed that there were outstanding warrants for him in the amount of \$1,000 that had been issued by Kern County, the man was arrested and transported to the jail in Ridgecrest.

## Artificial Intelligence technology to be used to meet Fleet needs

A recent criticism of Artificial Intelligence (AI) research has been that it has not found its way into application addressing Fleet problems. The Naval Weapons Center is currently working to make this criticism a thing of the past.

At NWC, AI technology is being used as another tool in the development of smart systems for Naval aircraft and missiles. One tactical area of particular concern to the Navy is the classification of targets from airborne platforms for ocean surveillance and fighter/attack missions. The Target Recognition Systems Branch (Code 3158) of the Aircraft Weapons Integration Department's Targeting Division is currently addressing this problem and applying AI technology to develop solutions to this critical link in the targeting chain.

AI is rather hard to define, but can be said to be deal with the design of intelligent computer systems, that is, systems that exhibit the characteristics humans associate with intelligent behavior. AI addresses the architecture of machines, the software, and the heuristics (rules of thumb) and algorithms which the former will implement. Because much of the reasoning which AI has attempted to model is symbolic in nature, the nature of the hardware, software, and heuristics tends to reflect this.

LISP, a symbol-manipulation language, is one of the advanced computer languages used heavily for AI work. LISP's inherent flexibility makes it a natural choice for building high order systems which deal with concepts as well as numbers. An interdepartmental group of Center personnel is now learning LISP under the instruction of Jeri Hanly, an NWC employee and lecturer at the University of Wyoming.

One major thrust of Code 3158, according to branch head Bill Capps, is the integration of information from multiple sources aboard an aircraft into a decision concerning the classification of the target. Aircraft have multiple sensors, each of which gathers and interprets information. Combining all these sources of information to classify targets with better reliability and accuracy can make use of AI technology. Two projects are now underway dealing with such multi-source fusion: Mission Avionics Sensor Synergism (MASS), and Fighter/Attack Avionics Targeting Demonstration (FAATD).

In MASS, the objective is to integrate information from several sensors and other information such as intelligence and real-time inputs from human operators aboard the P-3 Orion aircraft. Under the coordination of the Naval Air Development Center at Johnsville, Penn., and in cooperation with personnel from the Naval Ocean Systems Center in San Diego, Code 3158 personnel are developing an AI approach to the problem. This P-3 system is scheduled to be put into a simulated aircraft at the Lockheed Corporation next year, and is scheduled to be included in flight testing in 1987.

In FAATD, the objective is to identify a raid of enemy aircraft and to determine the size of the raid. Navy fighter/attack air-

craft are the intended platforms for this system. A laboratory simulation is slated for testing at the Pacific Missile Test Center, Point Mugu, in 1986.

Both of these multi-source systems will employ a blackboard architecture with knowledge sources which could operate in parallel with the appropriate hardware. A blackboard architecture can be explained by thinking of a group of people (knowledge sources) standing around a chalkboard (blackboard), and trying to solve a problem. The problem and the data are written on the chalkboard. Each person, based on the chalkboard information and their own knowledge, decides if they can perform some function. If they can, they do so independently of the other people and write their results back on the chalkboard. There is no communication between the people except at the chalkboard.

Currently, Code 3158 personnel are using the VAX-11/ 780 computers in the Targeting Laboratory with NIL (New Implementation of LISP) LISP for their AI efforts. Computers specifically designed to run LISP can greatly enhance this type of work by speeding up the LISP code. Although no LISP machine are now in the Targeting Lab, Capps hopes that they will be available in the future.

By using new AI tools as they are developed, and backing these with the skills and knowledge of personnel in the Target Recognition Systems Branch, Capps feels that the Navy's needs in the targeting area will be well met.

## Drive with care; make Labor Day trip safe as well as fun

Next Monday is Labor Day — a national holiday and a holiday for most Civil Service and military personnel at the Naval Weapons Center. Many families will take advantage of this last three-day holiday before the kids have to return to school.

According to the NWC Safety and Security Department, the Labor Day holiday is one of the worst times of the year for traffic accidents. Despite this, there are a number of things that individuals can do to make sure their holiday trip is enjoyable and accident-free. Some of the most important are:

- (1) Pre-plan your route and allow plenty of time to reach your destination.
- (2) Before leaving on a trip, inspect the condition of tires, brakes, and the general mechanical condition of the vehicle to ensure that all systems are working and properly adjusted.
- (3) Avoid alcohol or the use of drugs that impair driving ability.
- (4) If you become fatigued or drowsy while driving, switch with someone who is rested or stop and take the time to overcome the fatigue before continuing.
- (5) It is estimated that at least 5,000 more people would survive traffic accidents each year if they used their seat belts. Be a survivor, and one who encourages others to use their seat belts by buckling yours.

## Center's ZIP code grows by 4 digits; becomes 93555-6001

Two months ago, "ZIP plus four" became the standard for all Department of Defense components.

The four digits assigned to the Naval Weapons Center are 6001, thus making the ZIP code for NWC 93555-6001.

Conversion to "ZIP plus four" is to be completed by Sept. 30. The additional four digits are to be added manually, or may be printed, stamped, or typed on letterhead stationery, envelopes, and other printed material until present stocks are exhausted.

Printed forms, letterheads, and envelopes will be printed with the "ZIP plus four" as they come up for reorder.



ONE MORE TIME — NWC's Command Master Chief, TMCM J. W. McAllester, goes through reenlistment motions one final time while Capt. K. A. Dickerson, NWC Commander, administers the oath. Master Chief McAllester, who has been at NWC for two years, was coerced into visiting the Chief Petty Officers' Mess to inspect the progress of remodeling construction with the Skipper when he was given a surprise reenlistment party with many chiefs and other friends attending. The Command Master Chief signed on for four more years in the Navy. — Photo by PHAN Greg Hogan

## Only two days left to register new students for fall semester

Only two more days remain for parents to register their children for the fall semester of Sierra Sands Unified School District classes, which begin on Tuesday, Sept. 4.

New pupils should be registered at neighborhood schools as soon as possible.

Also, parents are reminded that they are required to provide immunization and health information about their children, as well as verification of grade placement (i.e., report cards) at the time of registration.

For parents to register their children for kindergarten they must show proof that their child is five years of age on or before Dec. 1, 1984. Immunization records and proof of age must be submitted at the time of registration.

Parents should register their children for kindergarten at the same time as registering all other new students. Only those children who were not registered earlier this year need to register now.

The registration schedule for children entering the 1st through 6th grades and who have not attended local schools prior to the end of the previous school year is 8 a.m. to noon and 1 to 4 p.m. Monday through Friday for Fallor, Groves, Inyokern, Las Flores and Richmond Elementary Schools.

Pierce School will accept registrations from 8 to 11:30 a.m. and from 12:30 to 4 p.m. Monday through Friday.

Rand Elementary School, located in Randsburg, will accept registrations today only from 9 a.m. to noon.

The registration period for the Vieweg Basic School has been completed and a waiting list established. Parents interested in enrolling their children to attend Vieweg School should contact the principal by calling 446-2569.

Applications for enrollment of prospective kindergarten students at Vieweg School for the fall 1985 school semester should be filled out at the school's office on Tuesday, Sept. 4.

Parents of new junior high school students are asked to present the pupil's standardized test scores, if available; most recent report card; and immunization record at the time of registration.

Registration at James Monroe Junior High School is scheduled from 7 a.m. to noon and from 1 to 4 p.m. Monday through Friday. Murray Junior High School will sign up its new students from 8 to 11:30 a.m. and from 12:30 to 3:30 p.m. Monday through Friday.

High school students new to the local area will need to complete preliminary enrollment procedures at the Burroughs

High School counseling center no later than this afternoon.

This year a new computerized system will be used to register students. Although there will be few changes in the registration procedures, it is emphasized that the marked instructions for the registration process be carefully read and followed.

Specific registration information was sent by mail. If this material is not received, students should contact school officials at Burroughs High School.

Registration for students intending to attend Mesquite High School will take place at 8 a.m. on Tuesday, Sept. 4, which is also the first day of instruction.

Students 16 years of age or older and who are not presently enrolled at Mesquite High may submit a transfer request to Mrs. Joann Koperski, assistant principal of Burroughs High School, or Steve Merta, principal at Mesquite High School.

## At Twentynine Palms; Lima, Peru

## Seabees aid in construction, cleanup projects

The Seabee motto, "We Build, We Fight," was certainly in practice during a recent two-week Active Duty Training (ACDUTRA) period at the Marine Corps Air-Ground Combat Center at Twentynine Palms, Calif.

Approximately 40 local members of Reserve Mobile Construction (RMCB) 17 joined other Seabees from the First Naval Construction Regiment in construction projects and a three-day field training exercise.

The twelve construction projects completed by the Seabees included improvements to the tank repair shop and the galley, assembly of two pre-engineered buildings, and work on the plumbing system at Twentynine Palms. Also, cement for sidewalks was poured, and asphalt paving of parking lots took place.

According to Lt. Sidney Miyakawa, Delta Company Commander, the two projects that local Seabees completed were improvements to the galley. They replaced the floor in the pots and pans scrub room, and laid drain lines and then poured a concrete slab for the galley's grease pit.

During the three-day field training exercise, approximately 650 men received tactical training using equipment that included M-16 rifles, 81mm mortars, and M-60 machine guns in keeping with the motto of the Seabees.

Meanwhile, a randomly selected 14-man reserve detachment from RNCM Battalions 16 and 17 spent their ACDUTRA helping the Peruvian Navy dig out the storm-damaged naval base of Collao, in Lima, Peru.

## Long-term training applications for 1984-85 now being accepted

Applications for long-term graduate and undergraduate level training (training off-Center for a period of 120 consecutive days or longer) for 1984-85 are now being sought from interested Naval Weapons Center employees.

To be eligible for long-term training, an individual must have been employed at NWC three years at the time studies begin.

Long-term training may be considered to meet any of the following objectives:

- (1) To update an employee's knowledge where there has been an appreciable lapse of time since the initial academic preparation for employment and subsequent in-service training.
- (2) To provide a technically oriented employee with tools of management when job responsibilities have or will become predominantly managerial in nature.
- (3) To expand an employee's knowledge and background within his or her occupational specialty, whether he or she occupies a technical or nontechnical position, by providing an opportunity to learn about significant developments or breakthroughs as they pertain to the mission of the Center.
- (4) To acquire knowledge of some aspects of another occupation as they relate to an employee's present occupation where responsibilities tend to be interdisciplinary or multidisciplinary in nature.
- (5) To provide for educational opportunities stressing motivational and human relations factors that contribute to effective technical and managerial competence.

The Corporate Planning Board (CPB) will consider applications in any area of study that relates directly to NWC program requirements. However, special emphasis for this year is being placed on RF and microwave science and engineering, computer science and engineering, and software engineering. The primary criteria the CPB follows in determining when long-term training is used in lieu of after-hours, part-time, or short-term programs are as follows:

(1) The new knowledge and skills required of the employee, either in present or planned career assignments, necessitate a comprehensive, concentrated program of study.

(2) The time span for acquisition of new skills and knowledge is such that an accelerated study program of long-term, full-time duration is required.

(3) It is determined that the academic superiority of the institution selected is such that it is clearly in the best interest of the government that the employee attend the selected educational institution.

(4) There is no educational institution or academic program in the local or community area for part-time or after-hours training.

Navy Civilian Personnel Command funds are available to cover the trainee's travel allowances to and from the school, tuition and fees required for enrollment, and payment for moving his or her immediate family and household goods to the school and back to the Center. NWC will be responsible for the trainee's salary.

Further details of the long-term training program are provided in NAVWPNCEN INST 12410.5L of Sept. 31, 1982, and the Long-Term Training Handbook. Both sources are available from department offices or at the Training Center. Applicants are advised to contact Code 01A2 (phone NWC ext. 3793), Room 20102 in Michelson Laboratory for application forms.

It is necessary to have a complete set of transcripts, along with a notification of school acceptance accompanying the application. The application must have a letter of endorsement signed by the department head.

Approved fellowships are granted for one academic year (two semesters or three quarters). The deadline for submission of applications for programs commencing in the spring semester or spring quarter of 1984-85 is Oct. 26, 1984.

Counseling regarding the various programs and applications procedures is available from Steve Lee, Code 094, Training Bldg. Rm 210, phone NWC ext. 2468.

Chapel slates film series

The first film in a four-part movie series entitled, "Growing Up Whole in a Breaking Down World," will be shown in the East Wing of the All Faith Chapel on Sunday, Sept. 9, at 7 p.m.

The first film is entitled "Is There An Adolescent in the House?" The series is sponsored by the Protestant congregation of the All Faith Chapel.

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MIKE'S LAB by Bill Frwin



SHADY WATCH DUTY — During recent field duty exercises at Twentynine Palms, Storekeeper 3rd Class Pete Legan, of RMCB 17, stands radio watch at the Battalion Command Post. — Photo by CM1 Jerry Morrison USNR