



RIBBON CUTTING AT HOLIDAY BAZAAR — Early shoppers got a head start on the holiday season last Friday and Saturday during the annual Holiday Bazaar sponsored by the Women's Auxiliary of the Commissioned Officers' Mess (WACOM). Opening the bazaar with a ribbon cutting ceremony are Capt. K. A. Dickerson, NWC Commander, Helen Estell, president of WACOM, and a well-known merry gentlemen (Rae Leonard disguised as Santa Claus). According to Lorraine McClung, publicity chairman, gross receipts for the two-day event exceeded \$13,800. The proceeds will be shared by various charities and used to cover operating expenses of the 16 organizations that took part in the bazaar. Success of this year's event is due to efforts of the many volunteers who participated and also to the outstanding support given to WACOM by Walt Schimke, manager of the Enlisted Mess, and his staff. — Photo by PHAN Rebecca Gill

### 'Madame Butterfly' to be presented here Nov. 30

The Western Opera Theater's new production of Puccini's opera "Madame Butterfly" will be presented to Indian Wells Valley concert-goers next Wednesday, Nov. 30, at 7:30 p.m. in the Center Theater.

"Madame Butterfly" is one of the world's most popular and famous operas. The aria "One Fine Day" is known and loved even by millions of people who have never attended an opera.

Next Wednesday night's performance, a fully staged and costumed production with a two-piano accompaniment, will be sung in English.

"Madame Butterfly" is the second program in a series of six concerts being presented this season by the IWV Concert Association. This engagement is supported, in part, with funds provided by the California Arts Council, a state agency.

Single-event tickets for the opera are now on sale at the Music Man and Medical Arts Pharmacy in Ridgecrest and at the Maturango Museum in China Lake. If not sold out, tickets will also be available at the theater box office, which will open at 4:45 p.m. on the day of the concert.

Single-event tickets for "Madame Butterfly" are priced at \$7 for general admission, with a reduced price of \$5 for

### Classes offered in making holiday gift, display items

A class for those interested in making handcrafted items for Christmas gifts or for display around the house during the holiday season will be held on Tuesdays from 6 to 8 p.m. at the Hobby Shop.

The class will begin on Nov. 29 and also is scheduled at the same time and place on Dec. 6 and 13.

Tess Brown, who has taught similar classes at a YWCA in the San Francisco Bay area, will be the instructor.

The fee, which doesn't cover supplies or materials, is \$10 for active duty military personnel or their dependents; \$12 for Department of Defense civilians and dependents, and \$16 per person for those who have no affiliation with the Naval Weapons Center.

The variety of instruction that will be provided will include the making of soft sculptured teddy bears and decoupage candles, as well as needlepoint work.

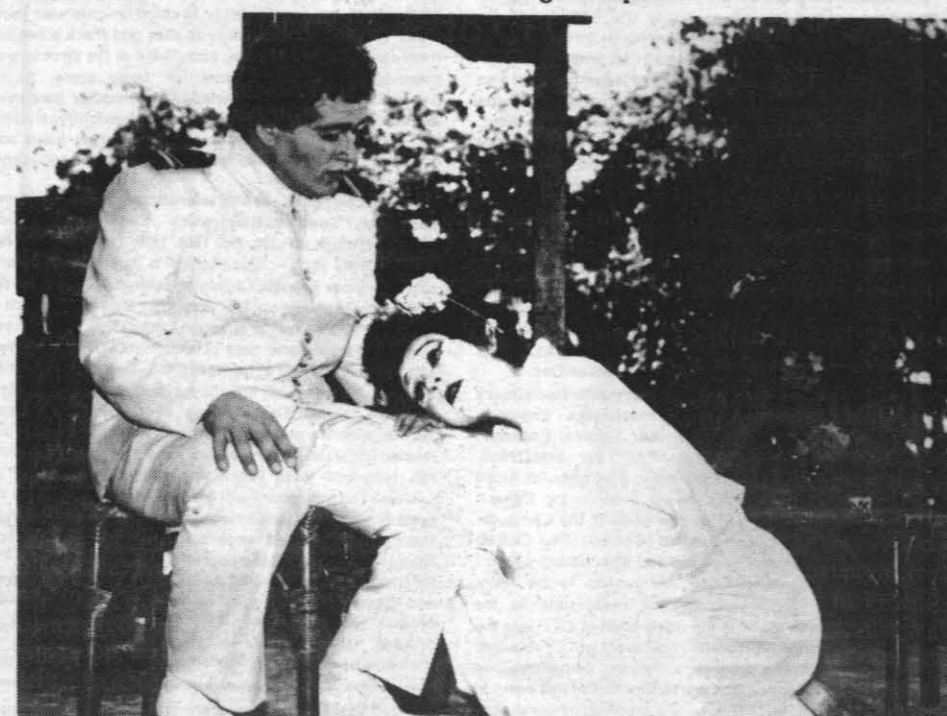
Additional information can be obtained by calling the Hobby Shop at NWC ext. 3252.

persons under 21 or over 65 years of age, and active duty enlisted military personnel.

Some season memberships are still available. Rates at this time are \$17 or \$14 each, depending upon seat location, with reduced rates of \$10 and \$8 for those under 21 or over 65 years of age, and active duty enlisted military personnel. Season subscriptions can be ordered by calling the Concert Association, phone 375-5600.

"Madame Butterfly" is the tragic story of the love of a young Japanese woman for an American naval officer, set in early 20th-century Nagasaki. Cio-Cio-San, whom her friends call "Butterfly," falls in love with the young American and adopts his faith, renouncing her family and culture. However, Pinkerton, the naval officer, does not take their relationship so seriously, and Butterfly is destroyed by her realization of his betrayal.

Western Opera Theater, the touring and educational branch of the San Francisco Opera Center, is in its 18th season of presenting English-language productions of opera. The present 13-state tour features both vivid theater and exacting musical standards.



POPULAR OPERA TO BE STAGED HERE — In this scene from the Western Opera Theater's production of Puccini's opera "Madame Butterfly," soprano Joan Gibbons, as Cio-Cio-San, tells Lt. Pinkerton, a naval officer portrayed by tenor Wayne Alan Behr, of her complete devotion to him. This, the second program of the current series offered by the IWV Concert Association, will be presented next Wednesday evening, Nov. 30, at the Center theater.

### Retirement party for Capt. Burns scheduled Dec. 14

A retirement party honoring Capt. Doug Burns, Deputy Laboratory Director, will be held in the Mojave Room of the Commissioned Officers' Mess on Wednesday, Dec. 14. A social hour at 6 p.m. will precede presentations at 7.

Reservations are requested for those who plan to attend, and may be made by telephoning Eloise Burklund at NWC ext. 2634 before Dec. 9. Anyone wishing to make a donation for the Center's gift to Capt. Burns may send it to Eloise Burklund, Code 0031, or take it to the receptionist's desk in the lobby of Michelson Laboratory.

To defray the cost of hors d'oeuvres, a donation of \$3.50 per person will be collected at the party.

Dress for the evening will be desert casual.

### Delay announced in staging musical show

The organizers of the musical production of "Alice's Adventures in Wonderland," sponsored by the Community Light Opera and Theatre Association and scheduled for a February production run, have announced plans to postpone the show until early spring 1984.

Scheduling conflicts were given as the main reason for the postponement, according to Greg Hogan, publicity director for the show.

**MOVIES**

(G) ALL AGES ADMITTED  
General Audiences  
(PG) ALL AGES ADMITTED  
Parental Guidance Suggested  
(R) RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian

Regular starting time 7:00 p.m.

FRIDAY, SATURDAY NOVEMBER 25, 26  
"NATIONAL LAMPION'S VACATION"  
Starring  
Chevy Chase and Beverly D'Angelo  
(Comedy, rated R, 98 min.)

SUNDAY NOVEMBER 27  
"MISSING"  
Starring  
Sissy Spacek and Jack Lemmon  
(Drama, rated PG, 123 min.)

MONDAY NOVEMBER 28  
"PORKY'S II"  
Starring  
Dan Monahan and Wyatt Knight  
(Comedy, rated R, 106 min.)

FRIDAY DECEMBER 2  
"STROKER'S ACE"  
Starring  
Burt Reynolds and Loni Anderson  
(Action Comedy, rated PG, 95 min.)

### Operations at COM to be resumed; open house slated Nov. 30

An open house for members only is planned next Wednesday, Nov. 30, to celebrate the re-opening of the Commissioned Officers' Mess after an extensive period of remodeling work.

The open house from 4 to 8 p.m. on Nov. 30 will be a prelude to re-opening of the COM for luncheons and dinner beginning on Dec. 1. Hors d'oeuvres and cocktails will be available during the open house.

Rolf Glaser, manager of the COM, has planned new luncheon and dinner menus for the COM, which will be open for lunch Monday through Friday, from 11:30 a.m. to 1 p.m., and for dinner Tuesday through Friday, from 4 to 9 p.m., beginning on Dec. 1.

Hours of operation in the main bar will be 11:30 a.m. to 1 p.m. Monday through Friday, and 4 to 11 p.m. Tuesday through Friday. In addition, the Barefoot Bar will be open on Wednesday and Friday from 4 to 8 p.m., offering "happy hour" prices from 5 to 7 o'clock.

### Cynthia Garvin Fund to aid program of preschool education

A scholarship fund has been established in memory of Cynthia Garvin, who served as assistant director of the Recreation Services Department's Children's Center prior to her recent death.

As well as the 10 years that she spent employed in a variety of capacities at the Children's Center, she also was an active member of the Desert Area Preschool Association and was president of that group in 1976-77.

Since Mrs. Garvin's enthusiasm for life and love for children were qualities that earned her love and respect from all those who knew her, the scholarship will be awarded through the local high schools to a student who is entering a field related to services to children.

Those wishing to make a contribution can do so by sending a check to the Cynthia Garvin Scholarship Fund, 1125 North Sierra View, Ridgecrest, CA 93555. A list of contributors will be forwarded to Mrs. Garvin's family.

U.S. Government Printing Office: 1983—No. 54

From: \_\_\_\_\_

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To: \_\_\_\_\_

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NAVAL WEAPONS CENTER  
CHINA LAKE  
CALIFORNIA

### 30th birthday observed

## Three decades of vital test work at SNORT celebrated

Last Friday (Nov. 18) marked the 30th birthday of NWC's Supersonic Naval Ordnance Research Track (SNORT).

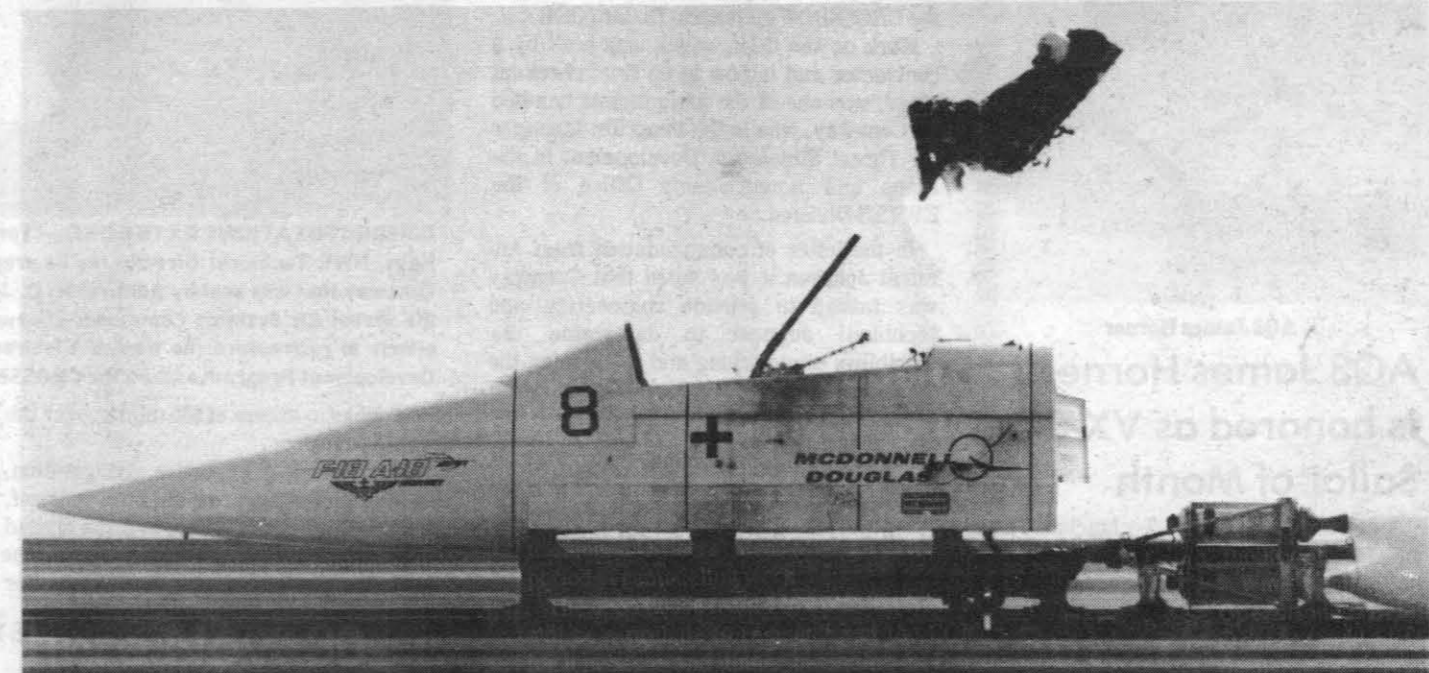
Joining personnel of the Track Operations Branch in the Range Operations Division of the Range Department were old-timers who had worked at SNORT during the past three decades, dignitaries and friends.

In his welcoming words, Dick Boyd, head of the Range Department, stressed the importance of SNORT as a tri-service asset, a nearly unique asset, because the only other supersonic test track in the nation is located at Holloman Air Force Base in New Mexico.

The need for SNORT capabilities continues and grows, he said, and currently a joint service study is underway to determine future national needs for the SNORT facility.

Win Johnson, head of the Track Operations Branch, discussed the organizational history of SNORT. Since its formation as a branch in the Test Department in 1953, the facility has been organizationally located in three different departments — Test Department, Engineering Department, and, since 1973, the Range Department.

Two films about SNORT were then shown: the first was made during SNORT construction more than 30 years ago, and the second is the most recent film describing the capabilities of the track and the type of tests that can be performed.



SNORT, the Supersonic Naval Ordnance Research Track, where seat ejection tests like this one for the F/A-18 Hornet, the Navy's speeds up to 6,000 ft. per second can be obtained, is used for aircraft newest attack aircraft.

The emphasis of the current film is that SNORT is a railway to new horizons to provide the Fleet with weapons that work.

SNORT is the longest, heaviest-duty, and most heavily instrumented of the Center's three test tracks. It is located near the southwest corner of the China Lake complex.

The need for a facility to fill the gap between static testing of wind tunnel models and free flight testing was recognized in the late 1940s. In April 1949, the Bureau of Ordnance authorized money for a feasibility study of such a track, and in June 1950, Congress authorized \$5,500,000 for Project SNORT.

The first rocket sled, TIM Go-Devil, zipped down SNORT's 21,550-foot-long, two rail, precisely-aligned track on Nov. 18, 1953. In the three decades since, its standard railroad gage (56.5-inch) tracks have carried innumerable other sleds used for a wide range of tests.

These tests have included captive-flight, aeroballistics, fuze, guidance systems, aircraft damage, terminal ballistics, crosswind firing, projectile recovery, aircraft and capsule escape systems, and rain erosion.

Air-launched missiles, for instance, that are not yet certified for air release can be released at supersonic speed (actually air speeds) from the sleds.

Especially valuable is the capability of SNORT personnel to achieve exact acceleration and velocities needed for any test.

Located just west of SNORT is the Transonic Test Track (B-4), which is a 14,560-foot-long, two-rail, standard gage track used for captive-flight and aerodynamic tests of parachute deployment, missile component and aircraft damage, and target-recognition fuze tests. B-4 became operational in 1946.

Shortest of the Center's tracks is the Terminal and Exterior Ballistics Test Track (G-4), a 3,000-foot-long, two-rail, heavy duty track located about 12 miles north of the SNORT complex. The remoteness of this track makes it ideal for warhead and terminal ballistics tests in which the test vehicle strikes a stationary target at the end of the track.

Exterior ballistics tests can also be conducted at G-4 in which a weapon is launched from a sled at the end of the track. It has been in operation since 1954. Either mono or dual rail tests can be carried out on G-4's 33 7/8-inch gage tracks.

SNORT is specially suited for tests requiring very high speeds (up to 6,000 feet per second), heavy carriages (up to 136,000 pounds), long-duration runs, and controlled deceleration.

The deceleration is due to a probe that extends beneath sleds; during the last 2

(Continued on Page 4)

### Pledges, donations to CFC hit \$39,472; drive ends Nov. 30

So far just \$39,472 has been turned in for this year's Combined Federal Campaign, and only three working days remain in the current fund-raising drive. By Office of Personnel Management regulations, the campaign cannot be extended beyond the Nov. 30 deadline.

The coordinators for this year's drive, LCDr. Jim Tankersley, who heads the Aircraft Department's Aircraft Support Division, and Loretta King, Assistant Public Affairs Officer, ask that all key personnel use these remaining three days to contact everyone in their respective organizations who has not yet turned in a pledge card.

Donors have their choice of 127 agencies as well as groups of agencies (such as the United Way of Indian Wells Valley, the National Health Agencies, National Service Agencies and International Service Agencies) to which they can designate their contribution to ensure that the particular causes they prefer will benefit.

Pledges may be made through either payroll deduction or in cash or checks. Payroll deductions will begin in January 1984.

(Continued on Page 4)

### In Randsburg Wash area

## Earthquake fault may contribute to cracks in road

Things are not always what they seem — as Center geologists discovered when they took an in-depth look at the cracks crossing the Randsburg Wash Road.

Cracks had been initially spotted by personnel in a Navy helicopter in 1970, but had seemed no cause for any alarm, since much desert land shows desiccation cracking and these cracks looked like the same sort of cracks that are found in many southwestern desert areas.

Following the ferocious thunderstorm of last Aug. 18, not only did the cracking turn into deep gullies and pits, but also a crack appeared across the Randsburg Wash Road in two places, at the initial crack zone and

further east as well. A steel plate was laid across the road at both locations so that drivers could safely traverse the only road that leads from the main of the Center to its southern ranges.

The storm damage was so severe elsewhere on the Center that road repairs were not attempted until October; at that time, geologists joined Public Works personnel in examining closely what had occurred. (Center geologists had already taken a cursory look on the morning after the storm, but had not made an in-depth analysis of the cracks.)

The zone of cracking that had been noticed 13 years ago is nearly a half mile

long, and the cracks vary from more than 60 feet wide down to a hairline. The second zone of cracking is about 200 yards shorter and consists of "en echelon" cracks that vary from about four inches wide down to a hairline. In both instances, the action of runoff water on the cracking has caused major tunneling under the road and the road shoulders, pits and gullies.

After examining the zones of cracks while excavation work for road repair was going on, geologists Drs. John Zellmer, Glenn Roquemore and Bruce Blackerby began to question whether these cracks were the

# Tom Conaway receives recognition from NAVAIR

A letter of commendation from Admiral R. D. Johnson, Deputy Commander for Programs in the Naval Air Systems Command, was received recently by Tom Conaway, an electronics engineer in the Plans and Requirements Office of the Electronic Warfare Department's Electronic Warfare Threat Environment Simulation (EWTES) Division.

The letter from Admiral Johnson was presented by B. W. Hays, NWC Technical Director, to Conaway in recognition of his outstanding performance in assisting NAVAIR's effort to restructure the Navy Electronic Warfare Test and Evaluation Simulator Development Program around the CROSSBOW-S Generic Radar (CGR).

Work on the CGR, which was built by a contractor and is now in its final checkout stage, was one of the assignments handled by Conaway, who is the Program Manager for Threat Simulation Development in the Plans and Requirements Office of the EWTES Division.

In the letter of commendation from Admiral Johnson it was noted that Conaway was tasked to provide engineering and technical support to determine the feasibility of modifying and integrating the CGR into the Semi-Active Test System being developed for NWC's Echo Range.

Conaway was commended for "having aggressively attacked the problem and for consistently excelling in researching, analyzing and providing data to NAVAIR on the CGR, its integration and utilization."

Admiral Johnson also noted in the letter of commendation addressed to the NWC employee that Conaway had found that the CGR can simulate up to six different tracking radars simultaneously.

This assistance in the development of a revised Long Range Simulator Development Plan, those familiar with this project believe, will provide the Navy with the most effective test and evaluation capability at a

## Shelley Precivale joins staff of NWC

Finding a prospective employee who meets the qualifications of having a degree in the field of science or engineering and also has a law degree is rare, but it's even more unusual to find a woman who can meet these requirements, which are a must for those who handle patent attorney work at NWC for the Office of Naval Research.

During his 20 years as a patent attorney, Thom Skeer, the current Patent Counsel at NWC, can recall knowing only four women patent attorneys — including one who was the patent counsel here 15 or 20 years ago.

Now another name can be added to that list, following the recent hiring of Shelley Precivale as a patent advisor trainee.

A native of San Francisco, she majored in chemistry for two years at San Francisco State University and then transferred to San Jose State University, where she received a bachelor of science degree in chemical engineering in 1980.

Ms. Precivale entered college with the idea of becoming a physical therapist. She was swayed from that choice by her enjoyment of a chemistry class that was one of the requirements for becoming a physical therapist.



CONGRATULATIONS EXTENDED — Tom Conaway (at left) is congratulated by B. W. Hays, NWC Technical Director, as he prepares to present a letter of commendation to Conaway that was sent by Admiral R. D. Johnson, Deputy Commander for Programs in the Naval Air Systems Command. Conaway was commended for assisting NAVAIR's efforts to restructure the Navy's Electronic Warfare Test and Evaluation Simulator Development Program around the CROSSBOW-S Generic Radar (CGR).

cost savings in excess of \$36 million over the next ten years.

"Your technical expertise, imagination, zeal, and dedication are a credit to yourself, the Naval Weapons Center, and the United States Navy," Admiral Johnson wrote as he closed by complimenting Conaway "for

your thoroughly professional involvement and a job well done."

The letter from the NAVAIR official was accompanied by an endorsement from Capt. K. A. Dickerson, NWC Commander, who congratulated the Code 35 employee "on a job excellently done."

## PO sets new weight, size limits for parcels

New uniform weight and size limits are in effect for parcels mailed via U.S. Postal Service.

Parcels mailed under parcel post, express mail, priority mail, special fourth-class mail and library postal rates cannot exceed 70 pounds in weight and 108 inches in size.

Size is computed by adding the length of

one side of the parcel to the measurement of the girth. The girth is the "waist" measurement of the parcel.

Military personnel who are planning to mail, say, stereo speakers, boxes of china or other goodies purchased on deployment or professional books to their next duty station should keep these limits in mind.

## Patent Counsel

with chemists whose research efforts lead to developments that have the potential for being patented.

Summaries of information on patentable ideas are prepared locally, and then sent to the Office of Naval Research in Washington, D.C. If approved at that level, the patent attorney (or patent advisor trainee in the case of Ms. Precivale) pursues the matter more extensively, and prepares the patent application in its proper legal form.

The newest employee in the Patent Counsel Office at NWC will be a patent advisor trainee from six to nine months, Skeer, her boss, said.

She made the move from the San Francisco Bay area to China Lake without knowing anything about the desert area — its climate or terrain — but has taken the dramatic change in stride. The clear vistas of the Indian Wells Valley have tempted her to learn more about photography, and she's been interested for years in such craft-oriented pastimes as quilting, embroidery, and sewing.

As a high school student, she was involved in Red Cross work, and also active in drama and choral music groups.

Her expressed preference for remaining in the western part of the U.S. was met by assigning her to the Patent Counsel Office here at the Naval Weapons Center.

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Shelley Precivale

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DIVINE SERVICES	
PROTESTANT	
Sunday Worship Service	1000
Sunday School (Annexes 1, 2 & 4)	0830
Bible Study (East Wing, Wednesdays)	1130-1230
ROMAN CATHOLIC	
Sunday Mass	0830
Daily Mass (except Sundays)	1135
Confessions	1630-1700 Friday
	0745-0815 Sunday
Religious Education Classes (Annexes 1, 2 & 4)	1000 Sunday
JEWISH	
Friday (East Wing)	1930
UNITARIAN	
Sunday (Annex 95, as announced)	1930



AQ3 James Horner

## AQ3 James Horner is honored as VX-5 Sailor of Month

Aviation Fire Control Technician Third Class James E. Horner has been selected as Sailor of the Month for October by Air Test and Evaluation Squadron Five (VX-5).

During the 16 months that Petty Officer Horner has been at VX-5, he has been working as an Integrated Weapons Team Technician primarily troubleshooting A-7s and the F/A-18 Hornets.

In addition, Petty Officer Horner is slowly developing a knowledge of A-6Es.

In a letter of commendation to AQ3 Horner from Capt. Roger P. Flower, Commanding Officer of VX-5, the Skipper notes, "In the course of performing your duties as an Integrated Weapons Team Technician, you have exhibited enthusiasm, 'can do' spirit and a refreshing sense of humor."

The letter continues, "Your performance has been outstanding, as you demonstrated superb competence and often tackled unfamiliar tasks using excellent trouble shooting maintenance procedures. Your strong personal drive, unselfish devotion and technical expertise have significantly contributed to aircraft availability and the overall mission of AIRTEVRON FIVE."

The Vampire's Sailor of the Month feels that having a variety of aircraft to work on at VX-5 is a real pleasure. AQ3 Horner's long-term goals in the Navy are to become a collateral duty inspector and to get an education in electronics, a field in which he hopes to obtain a degree.

The native of Salisbury, Md., lists racquetball and surfing as his favorite pastimes.

For being selected as VX-5's Sailor of the Month, Petty Officer Horner received a plaque with his name inscribed, a 72-hour pass and one month free of duty, and a reserved parking space at Hangar One, in addition to the letter of commendation.

## The Rocketeer

Official Weekly Publication  
Naval Weapons Center  
China Lake

Captain K.A. Dickerson  
NWC Commander

B. W. Hays  
Technical Director

Dennis Kline  
Public Affairs Officer

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Mickey Strang  
Associate Editor

PHAN Rebecca Gill  
PHAN Greg Hogan  
Staff Photographers



News Stories deadline Tuesday, 4:30 p.m.  
Photographs Tuesday, 11:30 a.m.

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# Thrifty Wash keglers close gap on leaders in Premier League

Only a 3-point spread separates the first and second place teams in the Premier (scratch) League following Monday night's action at Hall Memorial Lanes.

The Raytheon Sidewinders, who had been coasting along in first place with a comfortable lead, have fallen on hard times in the past two weeks and now have only a 3-point edge over the Thrifty Wash Laundry squad.

The laundrymen outscored the Buggy Bath keglers 16 1/2 to 8 1/2 last Monday night, while the Sidewinders came out on the short end of the 17-8 tally in their matchup with the Elks Lodge bowlers.

High team game for the night was the 1030 rolled by Thrifty Wash Laundry, while the Modern Trophy keglers won high team series honors with a score of 2957.

Eight Premier League bowlers topped the 600 series mark, led by Terry Ward, whose 673 series included a 279 game.

In addition to Ward, those with three game totals of more than 600 were Allen Smith (652), Mike Dowd (644), Chuck Cutsinger (641), Glen Collins (609), Gary Barnes (607), Tracy Brandt (605), and Ken Dalpaiz (601).

Besides Ward, those with single game scores over the 220 mark were Smith (265), Dowd (246), Dick Schweitzer (246), Cutsinger (243), Dalpaiz (235), Collins (226), and Larry Nolan (224).

Current standings in the Premier League are:

Team	Won	Lost
Raytheon Sidewinders	164.5	110.5
Thrifty Wash Laundry	161.5	112.5
Elks Lodge	157	118
Buggy Bath	144	131
Hideaway	134.5	140.5
Joseph's Italian Gardens	133.5	141.5
Modern Trophy	125.5	149.5
Olympic	124	150.5
Sport Shack	119	156
The Place	111	164

## Youth soccer . . .

(Continued from Page 6)

and another in the final minutes of the game to subdue the Furies 2-0. Michael Eberhart scored once and was credited with an assist on a goal scored for the Apollos by Brian Hire.

A scoreless deadlock between the Cobras and Owls was ended in the last 3 min. of play when Isaac Curran tallied a goal, assisted by Scott Foremaster. Star of the game for the Cobras was Jenny Bass, goalie, who stopped five shots at the goal by the Owls.

The Rowdies ended their season with a 1-0 win over the Eagles. The only score of the game was a goal by David Renner, assisted by Sean Cassidy and Dan Kamben, but the contest might well have ended in a tie had it not been for a save by Kenny Carr, goalie for the Rowdies.

## Reassignment Opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunity columns in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applicants must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applicants should be filled with the person whose name is listed in the announcement. The Naval Weapons Center is an Equal Opportunity Employer.

**Interdisciplinary Computer Scientist/Computer Specialist/Computer Programmer/Electronics Engineer/Physicist/Mathematician/Operations Research Analyst DP-DS-3** This position is located in the Computer Systems Division of the Standard Automated Financial System (STAFS) Project Office in San Diego, CA, and will be a period of one year. Incumbent will be responsible for the coordination and management of the development of computer program software for the STAFS VAX 11/780 systems, reviewing and analyzing the testing and integration of STAFS computer programs; reviewing and analyzing VAX software selected to implement applications required for the STAFS. The incumbent will also provide technical analysis of computer program problems associated with issues raised during the development, implementation and operations of STAFS and propose alternative actions that can be pursued and manage the accepted solution; and provide technical support to project personnel for VAX programming and systems issues. Job Relevant Criteria: Knowledge and experience in VAX (11/780), VMS systems, COBOL, and DEC software products; ability to work under stress and pressure with minimum supervision; ability to effectively communicate orally and in writing with all levels of government and industry; and ability to conduct software trade-off studies. Updated 171's should be submitted to Code 81A2, Room 20102, Michelson Lab by the close of business on Dec. 2.

**Announcement No. 36-88, Supervisory Interdisciplinary Computer Scientist, Physicist, Electronics Engineer, Mathematician, DP-334, 855, 1310, 1520, 1550-3/4, PAC No. 8338592, Code 3872** — This position is located in the Computer Services Branch, Computer Sciences Division of the Research Department. The Computer Services Branch is responsible for the acquisition, operation, and maintenance of automatic data processing (ADP) equipment and system software for the NWC Central Computing Facility (CCF). The incumbent will head the Performance Measurement, Planning, and Specification Section. The personnel of this section monitor systems usage and measure the workload. Recommendations will be made for changes to hardware or operational procedures in order to improve systems utilization. The section will make recommendations to the branch and division to be used for enhancements to the Corporate Computing Utility (CCU). 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### Jr. High all-star soccer game won by Monroe School team

An all-star game between the best soccer players from Monroe and Murray Junior High Schools resulted in a 6-0 shutout for the Monroe all-stars last Saturday night at the Burroughs High School athletic field.

Goal scoring for the Monroe all-stars was shared by Eric Wee, Craig Rindt and Paul Lelis, who tallied two goals each. Goalkeeping chores were divided between Jeremy Myers and Jason Okamoto, who recorded the shutout for the Ridgecrest squad.

The all-star team from Monroe Junior High took the lead 1-0 when Wee blasted a low shot into the right side of the goal from 25 yds. away.

A short time later, Rindt got his first goal of the game with a boot from just inside the penalty area that sent the ball flying into the far left side of the net.

The Murray School all-stars, who now trailed 2-0, did not threaten to score in the first half, although Matt Mechtenberg showed a lot of hustle and played well at the center-forward position, and Chris Johnson got off a shot midway through the first half that saw the ball hit the left upright of the goal and bounce away.

The game remained close (2-0 in favor of Monroe) until the 20-minute mark of the second half. At that point, Rindt got off a shot that sent the ball skidding under Kenny Sandberg, the Murray team goalie, and was across the line when Lelis finished belting it into the netting.

Sandberg was replaced at goalie and took over a defensive position at fullback for the Murray School all-stars. The change didn't help the chances of the Murray all-stars, however, for Eric Wee then drilled a 25 yd. free kick that bounced between the goalie's legs to increase the lead of the Monroe all-stars to 4-0.

In the closing minutes of the second half, Lelis scored the first of his two goals and, soon after, hit a shot from the endline to the right which was caught and dropped into the goal for the final tally in the Monroe all-stars' lopsided win over their counterparts from Murray Junior High.

### Bird hunters find it tough going in Lake Isabella area

Bird hunters didn't do very well last weekend, but should find that the weekend storm brought an increased number of ducks to the Lake Isabella area. Some of the birds that were blown off the lake ended up sitting in potholes full of water around the far side, where they were easy prey for hunters who jump-shoot.

The rains scattered the quail and chukar to such an extent that most hunters feel the season, while still legally on, is, in actuality, over because finding the birds would be more trouble than being able to shoot one or two would justify.

Trapping season has begun once more. Hunters and hikers who find traps are asked to telephone either of the game wardens in the Kern Valley area to report where the traps are.

If the traps are legally set, the wardens would like to know their location — and if the traps are not legally set, the wardens would be especially eager to know their location.

The local warden is Ray Benson, who can be contacted by calling 377-4081. At Weldon, the warden is Mike Stone, whose telephone number is 378-2315.

## BHS cagers prepare for start of 1983-84 season

Burroughs High School's boys' and girls' varsity basketball teams, defending Golden League champions for the fifth and fourth years in a row, respectively, topped off conditioning drills and two weeks of practice by testing their readiness for non-league play by engaging in a pair of scrimmages earlier this week.

While both the boys' and girls' varsity basketball teams will find other teams pointing for them, due to their defending league champion status, this is particularly true of the BHS girls, who are listed as one of the top ten teams in the 3A Division of the CIF Southern Section.

Jack Clark, coach of the girls' varsity basketball team at Burroughs, is in the fortunate position of preparing for the 1983-84 season with a squad that includes two all-

CIF players and two other all-league players.

Kristen Kinkennon, 6 ft. 3 in. tall who plays the low post position, and Charlene Kessler, a forward, are the returning all-CIF players, while Cecilia Scanlan, who plays the high post position, and Andrea Veatch, a forward, were all-Golden League selections in 1983.

Other returnees from the '83 squad, which advanced to the third round of the CIF playoffs before losing, are forwards Leslie Hays and Connie King; Stephanie Hire, a guard; and Gina Garcia, a reserve center.

Rounding out the BHS girls' varsity team are Andrea Paulsen, a transfer to Burroughs who is a senior; and Lynn Elder, Julie McCaughan, Stephanie Hauser, and Kjrsten Haaland, who have moved up from

the last season's jayvee squad.

The BHS girls scrimmaged last Tuesday against their counterparts from Victor Valley High School, and will travel to Lancaster to compete in the Antelope Valley Tournament on Dec. 1, 2, and 3.

The pre-league schedule also includes a game against Louisville High (in the San Fernando Valley) — a team that is picked along with Burroughs and Palmdale in the top ten of the CIF Division 3A ratings.

The BHS varsity girls will be on the road for all of their pre-league encounters, which include the Brea Olinda Tournament at Brea (Dec. 6-9) and the Edison Tournament at Huntington Beach (Dec. 26-28.)

First home game will be the Golden League opener at home against a tough Palmdale squad on Jan. 6.

The varsity boys' basketball team at Burroughs, coached by Larry Bird, will be led during the 1983-84 season by Daniel Means, a point guard who was chosen on the all-CIF team in 1983.

Returning lettermen who will make up the nucleus of the Burroughs' boys' team are forwards John Reynolds and Dan Grattan, Mike Bailey, 6 ft. 5 in., post man, and Monty Zarlingo, guard.

Steve Barkley, a junior transfer from Redlands, has joined the varsity as a guard, and the balance of the team is made up of players from last season's jayvee team. They are:

Rob Berghorn, Jeff Markarian, and Tim Lewis, guards; Allan Celestine and Joe Day, forwards; and Tom Legg, who plays the center or post position.

The BHS boys' varsity team, which scrimmaged against Barstow on Wednesday evening, will face its first all-out test in the San Luis Obispo tournament on Dec. 1, 2 and 3.

The pre-league schedule for the Burroughs High varsity boys' basketball team also includes games against Bakersfield and Victor Valley High Schools, as well as in the La Canada Tournament (Dec. 13, 14, and 15), and the Kiwanis Tournament in San Bernardino (Dec. 26-29).

Golden League play for the boys' varsity begins on Jan. 6 at Palmdale.



**QUARTERBACK ON RUN** — Dan Whittenburg, quarterback for the Naval Weapons Center's entry in the MDISL flag football tournament held recently at Barstow, tucks in the ball and goes for a short gain in the tourney title tilt between the China Lakers and their opponents from Nellis Air Force Base. The airmen from Las Vegas shut out NWC 18-0 in the championship game. In view behind Whittenburg, who was picked for the all-tournament team, is Fred Stark, a guard for the NWC squad. The China Lakers edged George AFB 13-12 and defeated the March AFB team 19-0 to earn the right to play in the flag football tournament championship game.

## 8 week season ends for Youth Soccer League

A 3-3 tie between the Roughnecks and Kicks highlighted the final games of the 8-week season played last Saturday between teams competing in Division 5-6 of the Youth Soccer League.

In a contest that tested the mettle of both teams, the Roughnecks were led by Kevin Collie, who scored two goals, and Lance Kilpatrick, who added to his team's total with one goal. Scoring for the Kicks was shared by Steve Mills, Mark Frisbee and Tim Matson, who tallied one goal apiece.

Results of other games played in Div. 5-6 last Saturday (all shutouts) were Rogues and Sounders 4-0 winners over the Whitecaps and Surf, respectively; and Diplomats 8, Tornados 0.

The Rogues got a fine defensive effort from Freddie Moore and Paul LaJeunesse as they held the Whitecaps scoreless while posting a 4-0 win. A shot at the goal by Brent Wells, of the Whitecaps, nearly went in, but the ball hit the crossbar and bounced over the top. Amy Shumway, goalie for the Whitecaps, prevented as many goals as the Rogues were able to score.

The Sounders finished their season by defeating the Surf 4-0 on two goals by Daniel Hobson and one each by Peter Martinez and Sean Bennett.

The scoring parade for the Diplomats in their lopsided win over the Tornados was led by Jacob Jones, with three goals, and Tim Castleberry, who tallied twice. In addition, Seth LaBorde, Shawn Hamilton and Ralph Jorgenson hit one goal each.

The even matchup between teams battling it out in Division 3-4 of the Youth Soccer League was demonstrated on the final weekend of the season by four games — all of which ended in the identical score of 1-0. The winners were the Drillers, Sockers, Earthquakes, and Lancers, who defeated the Blizzard, Strikers, Cosmos, and Aztecs,

respectively. In a hard-played game, Jason Miller, of the Drillers, broke through for the only score in the second half during the Drillers' 1-0 win over the Blizzard. Jeremy Pierce played well as goalie for the Drillers, being instrumental in his team's narrow win.

A goal scored late in the fourth quarter by Danny Moldenhauer, assisted by Chris Marshall, provided the Sockers with the winning edge in their game with the Strikers. The Strikers' defense, under constant pressure by the Sockers, was led by the fine performances of Jonathan Rae and David Charlton, who was playing hurt.

Both teams had their hearts set on winning the final game of the season, but the nod went to the Earthquakes over the Cosmos on a goal scored by Mike Strathdee. One of the better plays of the game was a save by Loren Letsche, goalie for the Cosmos, of what appeared to be a sure goal by the Earthquakes.

A strong defense by the Aztecs held the potent Lancers' offense scoreless for three periods of play before Pat Rindt, assisted by Chris Cox, broke through to tally the only goal of the game. On defense, the victorious Lancers were led by Dennis Robertson. Aztecs' players singled out for special mention were James Ball and Jennifer Norton.

The Express buried the Chiefs 6-0 on the final day of play between Youth Soccer League teams in Division 1-2. With that one exception, all of the other games were close. The results were: Cobras and Rowdies 1-0 winners over the Owls and Eagles, respectively, while the Apollos defeated the Furies 2-0.

Mike Ogren scored three goals in the first half of the 6-0 victory posted by the Express

over the Chiefs. Ogren was joined in a first-half scoring surge by teammates Ben Friedman and Seth Rivers, and the Express added one more goal on a second half tally by Chad Killinger. Ogren was moved to defense (at fullback) for the second half of the game.

Endurance paid off for the Apollos, who scored one goal at the end of the first half (Continued on Page 7)



**MDISL FOOTBALL** — Jim Hamilton, captain of the military team that represented the Naval Weapons Center in the recent Mojave Desert Inter-service League flag football tournament, presents one of the second place medals received by the China Lakers for their efforts in this event to Capt. K. A. Dickerson, NWC Commander. The tourney was won by Nellis Air Force Base, whose players have garnered the MDISL flag football title four times in the past six years.

## 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

**Military Dependent** — I spend a lot of time going back and forth to San Diego Balboa Hospital. They have a shuttle available to Long Beach, but they do not to San Diego. There are a lot of people who are being seen there. What can be done about transportation getting there?

We are military and don't have a lot of money to go back and forth each month. My case requires being seen by specialists. Thank you.

### ANSWER

I have asked my staff to look into the feasibility of providing a monthly run to San Diego. We presently have problems doing this because the Branch Medical Clinic does not now conduct official business on a regular basis in the San Diego area, nor are they staffed or funded to provide routine transportation to San Diego.

If a patient requires emergency treatment, however, transportation will be provided.

As an alternative to making a monthly trip to the Naval Hospital, San Diego, the practicality of utilizing CHAMPUS and being treated in the Ridgecrest area should be investigated; it may be less expensive, especially if the round trip to San Diego takes longer than one day and the patient's time is taken into consideration.

### QUESTION

**Civilian Employee** — I was wondering if there are any rules and regulations regarding priorities at the tennis courts — civilian versus military. I had an incident today where a military person who did not have a partner to play with said he could hold the court when two civilians were ready to use the court. Thank you.

### ANSWER

Use of the King Street tennis courts is on a first-come, first-served basis. Based on the situation addressed, I would assume that the military individual was waiting for his/her partner to arrive. If that was the case, then common sense logic should apply.

If the military person's partner failed to show in five to ten minutes, then he/she should have yielded the court. There is no priority established between military or civilians that would preempt one or the other use once they had a court. However, a civilian who does not have an Athletic Association card is not authorized use of NWC recreation facilities unless involved in a sanctioned league or tournament.

## Anna McDuff receives 40 yr. Federal service pin

Anna K. McDuff, a rehired annuitant who is employed as a management analyst in the Office of Finance and Management, was the recent recipient of a 40-year length of service award that was presented to her by Capt. K. A. Dickerson, NWC Commander.

Also among those present for the ceremony that marked this milestone in Mrs. McDuff's Civil Service career was B. W. Hays, NWC Technical Director.

Mrs. McDuff began her four decades of service as a Civil Service employee when she went to work in April 1943 as a fiscal accounting clerk at the Naval Air Station in Alameda, Calif., a location not far from her home town of Mountain View.

In July 1944, she transferred to the U.S. Naval Ordnance Test Station, Inyokern (forerunner of the Naval Weapons Center) to handle the same kind of fiscal accounting work that she had been doing at NAS, Alameda.

Having previously attended the University of California at Berkeley, where she majored in business administration for three years, Mrs. McDuff decided to return to UC Berkeley in October 1945.

She remained away from China Lake only until the following February, when she decided to return to the desert, resume working here, and has continued to do so ever since.

For an extended period of time, Mrs. McDuff handled a variety of work assignments as a fiscal accounting clerk in the old Supply and Accounting Department. Taking on more responsibilities as the years passed, she was promoted to the position of administrative assistant in Central Staff in 1956.



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In the mid-1970s, Central Staff became what is now the Office of Finance and Management. Prior to that time, Mrs. McDuff had been assigned to what is now the Management Division of Code 08, and has remained with this same group until the present time — being involved in a multitude of studies carried out in the manpower management area.

In January 1981, both Mrs. McDuff and her husband, E. A., who had been employed in the former Safety Department, retired from Civil Service. At that time, he had completed 35 years in government service, including three years in the military.

Mrs. McDuff returned to work as a rehired annuitant, which continues to be her status at the present time.

The McDuffs have four children — all born at China Lake. Their oldest son, David,

## NWC, Sunshine House cooperate to employ handicapped clients

As a part of a long-range beautification program at the Naval Weapons Center, 146 pine, sycamore and mesquite trees were recently planted along Knox Road between Nimitz and Blandly Avenues.

The \$69,000 competitively-bid contract for removal of diseased trees, landscaping and tree replacement was won by High Desert Productions of Ridgecrest and employed the full-time services of four handicapped clients of Sunshine House and the part-time involvement of six others over the past two months.

This recently completed work is just one of several programs in which NWC has been involved in its on-going effort to strongly support affirmative action goals for employing the handicapped.

Other work performed by clients of the Sunshine House, activity center for the handicapped, includes landscaping and shrub plantings in the "hill" housing area, on-going grounds maintenance and janitorial service at various locations throughout the Center, and the cleaning and waxing of Navy vehicles.

A particularly successful program is the assignment of handicapped persons to provide computer "menus" for the Computer Engineering Program Office's interactive graphics work stations.

Since these menus are too large for local presses and the cost of printing 12 colors prohibitive, utilizing handicapped persons to hand-color the sheets provided a happy solution to the problem.

At the inception of this work 1½ years ago, two Sunshine House clients color coded the sheets, which are laid over computer terminal keyboards. Since a total of 429 keys is available to the operator, and some keys command extensive subroutines, using the

computer menu as a color guide to groups of keys controlling similar functions simplifies the task of the computer operator and speeds the work process.

Today, eight clients provide over 115 menus per month, and a new contract calls for 300 menus per month.

Other joint NWC-Sunshine House projects are planned to begin soon, according to Keith Phillips, production manager for Sunshine House, who commended the Navy for its efforts to employ the handicapped.

Ron Covert, of the Computer-Aided Engineering Program Office, commented that "this has been an 'everybody wins' situation in that Sunshine House is pleased with challenging work for its clients and the added income it provides, and the Navy, in turn, has solved a knotty problem at low cost while making a worthwhile contribution to the community."

## Jim Brown begins new assignment as NWC Chief of Police

As of last Monday, James W. (Jim) Brown has been China Lake's Chief of Police.

The new head of the Police Division, Safety and Security Department, moved here from Stanton, Calif., a town of about 21,000, located in Orange County. In his 21 years on the Stanton police force, he attained the rank of captain while serving in all aspects of police work.

Police Chief Brown's involvement in the protection of lives and property began during his service in the Navy from 1951 through 1955; he spent two years at sea on the USS Des Moines as a damage con-



**J. W. (Jim) Brown** troolman, and two years ashore at the Naval Air Station Oceana in Virginia Beach, Va.

On mustering out, he returned to his home at Canton, Ohio, and worked in a steel mill until he had the opportunity to join the Canton Police Department. After five years on the Canton Police force, he decided to move to California, where he found employment with the police force at Stanton.

"My decision to move," he says, "came when I was riding a motorcycle on duty when the temperature was 27 degrees below zero. California looked very inviting!"

While on the Stanton police force, Chief Brown earned a bachelor's degree in management from Redlands University. He also has taught "Ethics and Professionalism" in the police science program at Fullerton College in Fullerton.

He says that he is a fitness buff, and is currently into power walking — walking very briskly while wearing weights on both ankles and hands.

He will be joined here shortly by his wife Lorraine, as soon as she has been able to sell their home in Orange County. She works in computer operations, and is hoping to continue to do so after her arrival at China Lake.

**40-YEAR PIN PRESENTED** — As B. W. Hays (at left), NWC Technical Director, looks on, Capt. K. A. Dickerson, NWC Commander, fastens a 40-year federal service pin onto the blouse collar of Anna K. McDuff, a management analyst in the Office of Finance and Management. — Photo by PHAN Rebecca Gill

## Navy takes steps to improve spare parts procurement effort

Admiral Steven A. White, Chief of Naval Material, has announced a spare parts pricing initiative called Project "BOSS" (Buy Our Spare Parts Smart).

The BOSS initiative, which began in August, encompasses Secretary of Defense Caspar Weinberger's ten-point plan for improving spare parts procurement.

It further stresses personal letters to the chief executive officers of the Navy's top contractors emphasizing spare parts pricing, establishment of procedures for reporting suspected overpricing cases, strengthening incentive programs to reduce costs and disciplinary procedures for improper performance.

It also calls for allocating funds to support a project to break out spare parts from prime contractors to ensure competition, lower prices, and alternate sources of parts from firms with lower overhead cost.

The BOSS Project calls additionally for providing data from Navy industrial activities on sources of stock material that has been bought on local markets at cheaper prices, and, on a trial basis, listing military specifications and military standards in the "Commerce Business Daily" procurement announcements.

After a suitable period of time, this project will be evaluated for its impact on making it easier for commercial suppliers to bid on Navy contracts.

## Lower home energy expenses with solar heater-dried firewood

With the dramatic increase in utility costs, lots of local residents are joining in a national trend to use wood as a heat source, either in wood stoves or in fireplaces.

Since wood burns much more evenly when properly dried, a problem arises as how to best dry the wood without having to leave it in storage for the year that such drying often takes. The answer is to use a firewood dryer.

The most economical sort of a firewood dryer is a solar-heated dryer. As to service to local residents, the Center's Energy Program Office has available copies of a Department of Energy brochure entitled "Drying Wood With the Sun."

Anyone wishing a copy of this brochure can telephone the Energy Program Office at 3411, ext. 225, and request the brochure.

### Navy Hotline

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288-6743 (Autovon)  
(202) 433-6743 (commercial)



**PROMOTED TO MAJOR** — The gold leaf insignia of a major in the Marine Corps is pinned onto the shirt collar tabs of former Capt. Robert A. Carnot, who is the Aviation Ordnance Officer in the Marine Corps Liaison Office at NWC. This pleasant assignment is being handled by Col. John T. Tyler, head of the Marine Corps Liaison Office, and by Maj. Carnot's wife, Katherine. The newly-promoted officer, a veteran of nearly 30 years' service in the Marine Corps, reported here in July 1981 from an assignment as Officer-in-Charge of Marine Wing Weapons Unit One based at Iwakuni, Japan.



**DRAMATIC EFFECT** — A probe beneath the rocket sled dragging through water slows the rocket sled down as it nears the end of the Supersonic Naval Ordnance Research Track.

## SNORT birthday . . .

(Continued from Page 1)

miles of track, the probe drags through water in a trough between the rails and acts as a water brake.

(This is not the only use for water at SNORT; a sprinkler system along a 2,500-foot section of the track can simulate rainfall with a controlled rate of drop size for testing the erosion effects of raindrops on radomes and other test items moving at supersonic speeds.)

Almost as valuable as the track itself are its support facilities. The headquarters building at the breech end of the track houses timing, telemetry receiving and recording, programming, photographic storage and preparation, calibration and video-tape recording and playback equipment. The headquarters building serves as the test-control center.

Other support facilities include an assembly building, storage buildings, support shops and office and shop space for customers using the track.

These customers have included all three of this nation's military services, domestic and foreign companies, the National Aeronautics and Space Administration, and other U.S. government agencies, such as the Department of Transportation.

## Cracks in Randsburg Wash Road studied . . .

(Continued from Page 1)

result of clay drying out or of ground water pumping or any of the other causes associated with the desiccation cracking that is widespread in Arizona, Nevada, Utah, and California (and is best exemplified in this area around the community of Cantil).

The clay does not seem to be of the right

kind, the "en echelon" patterns are not a feature of desiccation cracking, the closest removal of ground water is more than 20 miles away, there is no vertical offset to the cracks, and the cracking and fissuring is not associated with a playa.

That the cracks are caused by something other than water action is also obvious because the crack zones run across passages where water flows, and some of the newer ones have sharp edges, an impossibility if caused by the action of water.

Instead, the geologists believe that tectonic strain across the Garlock fault may have initiated the cracking and fissuring.

The Garlock fault runs more than 155 miles across southern California and is located a mere 3 miles south of the crack zones. CalTech seismologists have recently determined that an elastic strain rate of about 7 millimeters per year is building across the eastern segment of the fault.

A similar type of fissuring was found to exist in the Borrego Mountains prior to and subsequent to an earthquake in that region. The fissuring and cracking, the geologists theorize, could have occurred at various times between the time that the initial cracks were observed in 1970 and now, and new, sharp-edged cracks are still occurring.

The CalTech scientists note that a major earthquake occurs on the Garlock fault at intervals of about 1,000 years, give or take 500, and that at least 500 years have passed since the strain was relieved by such a quake. In the intervening time, a total strain has accumulated that could account for the

## Police reports . . .

Someone on Center is running the risk of having a misdemeanor violation filed against them for circulating a chain letter, according to a report filed Monday morning by China Lake police.

Such a letter was received via Guard Mail by an employee, who promptly notified the police. The letter warned that misfortune would befall anyone who "broke the chain" by not forwarding copies of it to others.

### CASE OF PAINT STOLEN

The theft of a case of paint from a pallet stored temporarily outside a chemical warehouse on the Naval Weapons Center was reported last week to China Lake police.

Two suspects were questioned, and police will be seeking a complaint.

### POLICE BREAK UP FIGHT

A report will be sent to the Commanding Officers of four military personnel who were involved in a verbal and physical altercation shortly before 10 p.m. last Monday at the Enlisted Mess.

China Lake police were called to keep the peace and break up the disturbance.



**FOUR ZUNI ROCKETS** are launched from a sled on NWC's Supersonic Naval Ordnance Research Track (SNORT).

## Cracks in Randsburg Wash Road studied . . .

cracking and fissuring because the strain is not being relieved by either creep or scattered seismic activity. The studies made by the China Lake geologists are in accord with this theory.

Further studies of the strain building on the Garlock fault and near it could well clarify the issue.

And the length of time that these cracks have been known indicate that they do not mean that a quake is imminent along the Garlock fault. All that seismologists can state is that quakes have occurred on that fault in the past, and that they will happen in the future; just when such quakes will occur is not yet predictable.

## Donations accepted on behalf of Beirut Marine Relief Fund

Contributions are being collected locally for a voluntary fund that was set up by the Camp LeJeune (North Carolina) community for the purpose of providing financial assistance to the next of kin of Marines and sailors who were killed or wounded in the recent terrorist attack in Beirut, Lebanon.

Anyone wishing to contribute to this cause can make out a check or money order, made payable to the Beirut Marine Relief Fund, and send it to the Marine Corps Liaison Office, Code 03A3, Naval Weapons Center, China Lake.

Personnel at the Marine Corps Liaison Office will forward all donations from local area residents to Camp LeJeune, N.C.

## 35th anniversary of opening of Groves School celebrated

The 35th anniversary of the opening of Groves Elementary School was celebrated last Friday during a program commemorating the school's namesake, General Leslie Richard Groves, and the events surrounding the founding of the school in the fall of 1948.

In his opening remarks to over 300 students, parents, and guests, John Condos, principal of Groves School, noted that from 1942 to 1947, General Groves was the head of the Manhattan Project, the secret program to develop the atomic bomb during the Second World War, and that the General was instrumental in the appropriation of Atomic Energy Commission funding for several building projects at the Naval Ordnance Test Station (NOTS), including an elementary school.

At that time, NOTS scientists were engaged in an all-out, top-secret effort to fabricate a non-nuclear explosive detonator for the atomic bomb at the Salt Wells facility.

General Groves was responsible for AEC assistance in the construction of housing at NOTS and the extension of the airfield runways, among other projects in support of this crucial program.

A site on Groves Street, previously named in honor of the General, was selected for construction of a 12-room elementary school, and work was completed in the summer of 1947.

As the second-oldest school still standing on the Center, Groves School is predated only by Murray Junior High, which was the original campus for Burroughs High School.

Linda Brown, president of the Groves School PTA, spoke of the school's history, and Dr. Tony Magliari, superintendent of the Sierra Sands Unified School District, performed the honors at the cake cutting ceremony, and commended the students for a newly-planted flower garden that is part of a school beautification project.

Among those cited for their volunteer efforts and contributions to community spirit and involvement in preparing for this milestone event at Groves School were DeLynn Ellis, Lillie Coulthard, Ernie Pias, John Condos, Debbie Kelly, and Linda Brown.



**ANNIVERSARY CELEBRATED** — A cake-cutting ceremony highlighted the 35th anniversary celebration of the opening of Groves Elementary School. Officiating at the occasion last Friday were (l.-r.) John Condos, Groves School principal; Tony Magliari, superintendent, Sierra Sands Unified School District; Linda Brown, president, Groves School PTA; and Lillie Coulthard, anniversary program coordinator.

## Emergency Council is briefed by SAR helo pilot

Even though the Center's Search and Rescue helicopters have been heavily involved with SAR operations for many years, NWC is not a designated SAR site, according to LCdr. Buz Massengale, the senior SAR pilot on board.

LCdr. Massengale was the principal speaker at a meeting of the Indian Wells Valley Emergency Services Volunteer Council held last Saturday and chaired by Lloyd Brubaker, head of the communications committee for that organization.

About 95 percent of all overland searches in this country are carried out by the Civil Air Patrol; in areas where military assets are available, these also can be used, he said. In the extended area of the upper Mojave, military assets are available at Edwards Air Force Base, Ft. Irwin, and Fallon Naval Air Station, as well as at China

Lake.

Before any SAR flight can be made, it must be cleared through Scott Air Force Base in Illinois, and a mission number assigned. This mission number ensures that SAR needs are appropriately met — that a need exists because a responsible person (such as a county sheriff) makes the request — that the closest SAR unit responds, and also serves to ensure that the required funding is furnished by the Air Force, since that service has primary cognizance over ground searches in this country. (The Coast Guard is in charge of maritime searches.)

When a call comes in to the NWC quarterdeck or duty officer requesting service from the SAR helicopter and crew, a mission number is requested from Scott AFB, and the helicopter crew is alerted.

During normal working hours, the crew can be airborne within 30 minutes; on weekends or evenings, that time might be extended to an hour before being in the air.

Usually a helicopter crew will consist of four members, one of which is a SAR hospital corpsman. (All SAR helo crew members have cardiopulmonary resuscitation and first aid training, however.) Since gross weight is critical in flying a helicopter, the number of persons that can be carried is limited, LCdr. Massengale said.

Air density, affected by altitude and temperature, is also a factor and so are wind, weather, and the terrain over which the helicopter must fly and might have to land. A major limitation to flights is the amount of fuel that can be carried since many of the small airports do not have the proper jet fuel.

The selection of a landing zone for a helicopter is vital. The incline of the ground should be no more than 5 degrees, approach and departure areas must be considered, and wind can cause real problems. Anyone on the ground signaling the helicopter should indicate the direction of the wind — preferably by using a Mk 79 smoke generator or by tying a scarf on a stick.

LCdr. Massengale also pointed out that often it's hard to spot someone on the ground unless that individual uses either a smoke device or a signaling mirror.

Those on the ground must also be very aware that helicopters can create hazards such as blowing sand and dust, LCdr. Massengale warned. Safety is a prime factor in all helicopter operations, he noted, and this means that anyone approaching a helicopter must always do so from the front, must duck well under the rotor blades when they are spinning flat, must move rapidly in

## Woman physicist serves as model to handicapped persons

Another singular honor has come to June Rooks, a physicist employed in the Data Analysis and Presentations Branch of the Aircraft Weapons Integration Department's Avionics Division: her biography will be included in a book that is to be published by the Foundation of Science for the Handicapped.

Miss Rooks was recommended to the group by the American Association for the Advancement of Science, since she is considered to provide an excellent role model for young handicapped persons.

She did not start school in her native Vicksburg, Miss., until the fourth grade because she had contracted poliomyelitis and was handicapped as a result. Even though she started school late, she more than made up the subject matter and was able to take a big step from sixth to eighth grade before going on to finish high school at Vicksburg.

From there, she attended Jackson State College in Jackson, Miss., where she earned a bachelor's degree in physics. Miss Rooks then transferred to Southern Illinois University at Carbondale, Ill., where she received her master's degree in physics.

She has been a Center employee since January 1979.

## Emergency Council is briefed by SAR helo pilot

and out of the helo, and must strap in firmly as soon as they've entered.

Eye and ear protection is essential for not only those in the helicopter but also for those on the ground nearby. (Long sleeved shirts are also a good idea, he noted, to protect arms from blowing dust and sand.) For those riding in the helicopter, a full cranial helmet is recommended.

Within the near future, LCdr. Massengale said, the Center is expecting to be able to field two single-engine and two twin-engine helicopters that can perform SAR missions, and expects to have four pilots qualified to do so.

The next IWW Emergency Services Volunteer Council meeting will be held on Jan. 21, 1984.



**RE-UPS FOR 4 YEARS** — AK1 Renato F. Catolos, head of the Programs Management Branch in the Supply Department's Aviation Supply Division, recently re-enlisted in the Navy for four more years. A veteran of 16½ years of active duty in the Navy, AK1 Catolos is an expediter involved in responding to requests for aviation supplies and materials that are received at the Aviation Supply Division warehouse at Armitage Airfield, Ltjg. P. F. Carroll officiated at the re-enlistment ceremony for AK1 Catolos, who received a \$10 gift certificate from the Navy Exchange, a certificate good for a free vehicle lube change and oil job at the NEX service station, and a number of money-saving coupons good for purchases at the NEX.