



AT SPRING FESTIVAL — Professional entertainers, such as the harmonica band, will be appearing at the Knights of Columbus Spring Festival on Friday and Saturday from 7 to 9 p.m. The Original Harmonica Band has appeared with Bob Hope and played Las Vegas. The Spring Festival began this past Wednesday and will run through Sunday. Gates at the Desert Empire Fairgrounds in Ridgecrest open at 5 p.m. today, and 12 noon on Saturday and Sunday. There will be a variety of attractions including a carnival midway with rides for adults and children.

Nightly entertainment scheduled as added attraction at Spring Festival

The entertainment for the Knights of Columbus' 19th annual Spring Festival being held now through Sunday at the Desert Empire Fairgrounds in Ridgecrest promises something for everyone.

Gates to the fairgrounds will open this evening at 5 and at noon on both Saturday and Sunday. Closing time will be around midnight tonight and Saturday and at 11 p.m. on Sunday.

Professional entertainment scheduled tonight from 7 to 10 o'clock on the outdoor stage includes "The Original Harmonica Band" and "The Mercer Brothers," a musical comedy team. On Saturday night at the same time the featured entertainers will be Hal Southern and his western band.

Other entertainment planned at the Spring Festival includes a drill team presentation by the Desert Suns Color Guard of 30 girls in the arena on both Saturday and Sunday at 2 p.m. At 3 p.m. in the arena on both days, members of the Cavalier Drill Team from Rancho Bajada in Ridgecrest will be performing on their horses. Then on Sunday night from 7 to 10 at the outdoor stage, "The Speedway," a local rock group will perform.

The SJM Fiesta Shows are providing the carnival and midway attractions for the

Spring Festival. Major rides include the Yo-Yo, the Scramble and the Flying Bobs. There will also be a ferris wheel, the loop-airplane, a big slide, the hurricane ride, the zipper and kiddie rides.

Local groups will be manning refreshment booths where food such as hamburgers, chili and tacos, ice cream, fried chicken and soft drinks will be for sale.

A large number of displays and sale booths are set up in Joshua Hall, the permanent exhibit building at the fairgrounds. There are exhibits from business, commercial and government organizations. Among the things being offered for sale are leather goods, candy, photo portraits, jewelry and hand-carved woodwork.

One of the new attractions this year is a "Disco Dance," which is being held in the Arts and Crafts Building beginning at 6 p.m. Admission for this nightly event is \$1 per person or \$1.50 per couple. There will be a dance contest held each night with the top dancers competing on Sunday for first through third place prizes.

Admission to the Spring Festival is 50 cents for everyone 12 years of age and older. Senior citizens will be admitted free; however they must be prepared to show identification cards.

Officers' Wives Club presents \$1,000 scholarship

Announcement of the winner of the \$1,000 scholarship that is presented annually by the Officers' Wives Club to a dependent of an active duty or retired serviceman or woman was made Tuesday during a luncheon held at the Commissioned Officers' Mess.

Marlene Brunson, a senior at Burroughs High School, was chosen to receive the scholarship which she will use to help meet a portion of her expenses as a freshman at the University of the Pacific in Stockton, Calif.

Miss Brunson, the daughter of Mrs. Margaret Brunson, 104-B Bard St., China Lake, will be preparing for a career in physical therapy and plans to major in chemical biology, psychology and physical education.

At Burroughs High School, she has been a member of the girls' volleyball team, the varsity track team, the International Relations Club and Key Club, and also served as secretary-treasurer of the senior class.

In addition, she has worked after school hours at the China Lake Child Care Center.

Service pins, certificates of appreciation presented to Navy Relief Society volunteers

A luncheon at the Commissioned Officers' Mess was the occasion recently for the presentation of certificates of appreciation and service pins to Navy Relief Society (NRS) volunteers who have been involved locally in efforts to assist needy Navy and Marine Corps personnel and their dependents.

The presentations were made by Rear Admiral William L. Harris, NWC Commander.

Mrs. Jean Harris, wife of the NWC Commander, who will be leaving soon, received a 100-hr. service pin, as well as a certificate of appreciation.

Certificates of appreciation also were

presented to Mrs. Priscilla Kinley, wife of Capt. F. H. M. Kinley, NWC Commander, in mander, in recognition of her past service as chairman of the NRS volunteers at China Lake, and to Jean Davis for the time which she donated as an NRS interviewer.

The list of service pin recipients was topped by Deanna Allee, the new chairman of volunteers, who has logged 1,750 hours of volunteer aid to the NRS, while Sandra Bozony, who has contributed by knitting layettes, received a 1,000-hr. service pin.

In addition, Kristin Nash, the new NRS office chairman, received a 100-hr. service pin for her work as an interviewer. Also eligible for a 100-hr. service pin was Joyce Taylor, a receptionist at the NRS office, who was unable to be present for the award ceremony. Since she is leaving, a certificate of appreciation also was prepared for her.



NAVY RELIEF VOLUNTEER WORKERS THANKED — Rear Admiral William L. Harris, NWC Commander, recently presented service pins and certificates of appreciation to Navy Relief Society volunteers. The Center Commander is flanked by two of the recipients — his wife, Jean (at left) and Mrs. Priscilla Kinley, wife of Capt. F. H. M. Kinley, NWC Vice Commander. The others are (l. r.) Kristin Nash, Deanna Allee, Sandra Bozony and Jean Davis. — Photo by Ron Allen



Commissioned Officers' Mess

Whole baby salmon, a new item on the menu at the Commissioned Officers' Mess, will be served tonight from 6 to 9 o'clock.

Two special evenings of dining will be offered during the coming week. Next Tuesday, May 29, is Italian Night, featuring all the spaghetti and meat sauce you can eat, while Thursday, May 30, is International Night. Offered for the culinary delight of COM patrons will be grand mariner Cornish hen, Teriyaki steak, and New York pepper steak.

Next Friday, June 2, the COM invites all members and their guests to another gala Membership Night.

On stage for the listening and dancing pleasure of those who attend will be the Jim Morris Group, a combo from the Los Angeles area. The musicians will be performing from 8 p.m. to midnight, after a meal of baron of beef served in the dining room from 6:30 to 9 o'clock.

The price for this evening of dining and dancing will be \$3 for members and their spouses, and \$4 for guests.

MOVIES

REGULAR STARTING TIME — 7:30 P.M.
For synopsis information call
Code 0-Phone 939-2411

FRIDAY MAY 25
"EVERY WHICH WAY BUT LOOSE"
Starring
Clint Eastwood and Geoffrey Lewis
(Action, Comedy, rated PG, 98 min.)

SATURDAY MAY 26
"RACE FOR YOUR LIFE CHARLIE BROWN"
Animated Cartoon
(rated G, 105 min.)
1:30 Matinee — regular adm.
"THE KIPLING CODE"
Starring
Alain Noury
(Drama, rated R, 91 min.)

MONDAY MAY 28
"HAPPY HOLIDAY"
Starring
Lane Caudell and Deborah Raffin
(Drama, rated PG, 98 min.)

WEDNESDAY MAY 30
"HANGING ON A STAR"
Starring
Lane Caudell and Deborah Raffin
(Drama, rated PG, 98 min.)

FRIDAY JUNE 1
"AN UNMARRIED WOMAN"
Starring
Jill Clayburgh
(Drama, rated R, 124 min.)

SATURDAY JUNE 2
"BILLION DOLLAR HOBO"
Starring
Tim Conway and Will Geer
(Comedy, rated G, 109 min.)
1:30 Matinee — regular adm.
"THEY WENT THAT-A-WAY"
Starring
Tim Conway
(Comedy, rated PG, 102 min.)

★ U.S. Government Printing Office: 1979 - No. 28

From: _____

PLACE STAMP HERE

To: _____



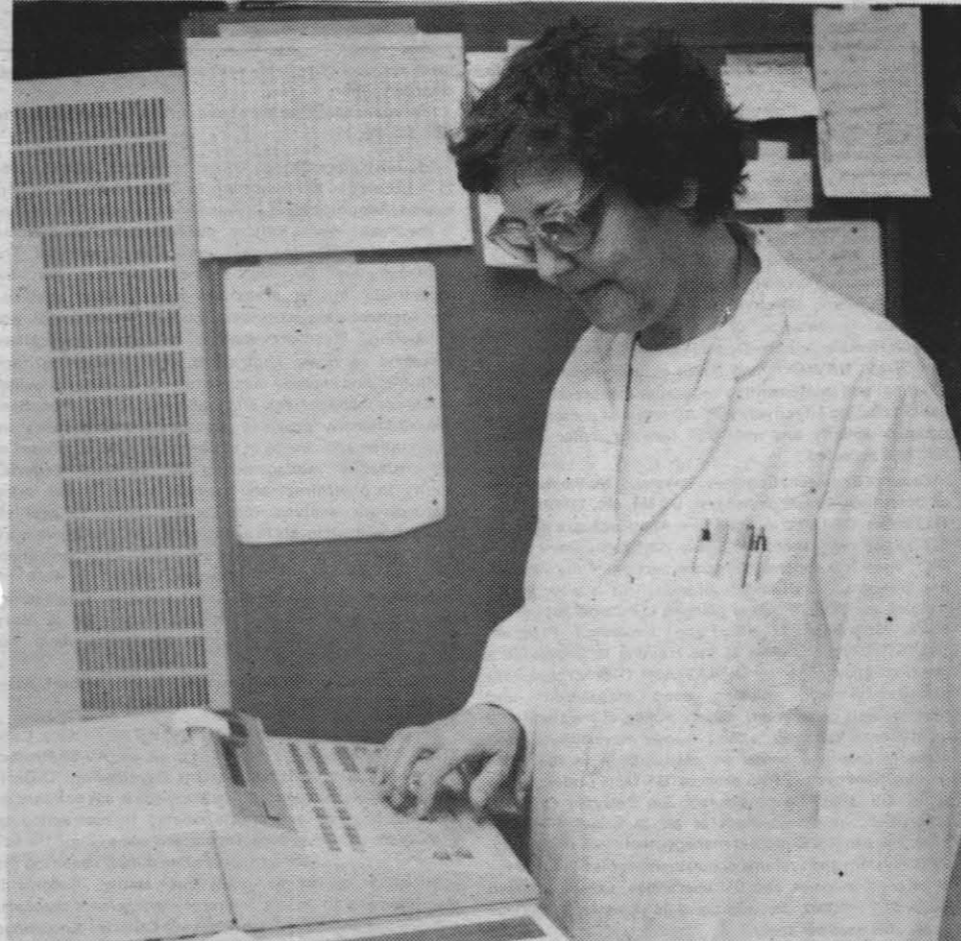
Naval Weapons Center
China Lake
California

May 25, 1979

Vol. XXXIV, No. 21

INSIDE . . .

Memorial Day Messages 2
Vietnam Veterans Week Proclaimed 3
Holiday Driving Safety Reminder 4
Swimming Pool Tags Available 5
Sports 6
Spring Festival in Progress 8



PROGRAMMING COMPUTER — Mary Pakulak, a chemist in the Physical Property Laboratory at Salt Wells, programs the facilities' computer for a tensile strength test on a propellant sample. The tensile strength tester is tied directly to the computer so that chemists can obtain almost instantaneous readouts of results on the various tests conducted there. — Photo by Ron Allen

Data acquisition system automatically monitors test runs at Salt Wells lab

By Ernest R. Sutton
A data acquisition system that monitors test runs automatically was recently installed in the Salt Wells Physical Properties Laboratory — a part of the Propellant Branch of the Ordnance Systems Department at the Naval Weapons Center.

The new data acquisition system saves the laboratories' chemists more than 50 manhours each week, allowing a large increase in the test load, with test results reported one to two weeks sooner than would be possible with hand assessment.

In addition, more sophisticated data reduction is possible with the computer than by hand calculations.

In those tests where data reduction time is significant compared to test time, more testing has been made possible. This has resulted in better understanding of the effect of test variables leading to better test methods, and more reliable results, it was reported.

The automatic data acquisition system with a programmable calculator is tied directly to the laboratories' tensile strength tester and other lab measuring equipment

to allow automatic machine data acquisition and reduction.

The system has been programmed for maximum flexibility. By using operator interactions the computational efficiency of the calculator is combined with the experience of the scientist operating it. The system is also tied directly into a high performance liquid chromatograph used for composition analysis of propellants, explosives and raw materials. In addition, it is tied into instrumentation which measures thermal expansion and thermal conductivity.

The tie-in to the tensile tester permits measurements of peel strength, stress relaxation and tensile properties.

The laboratories' chemists use the new acquisition system for tensile testing of solid propellants to measure mechanical properties.

Strength, elongation and modulus values had been calculated from the raw data, which is usually in the form of strip chart records of tensile load versus time as specimens of known dimensions were pulled apart at constant crosshead separation rates.

Accuracy Greatly Increased
Before the addition of the data acquisition system, all of the data had to be calculated by hand. Not only was this time consuming but the margin for error was greater. Now the data, based on an initial cross-sectional area of the specimen, is calculated by the computer with an accuracy approximately 10-fold greater than was possible with careful hand assessment of raw data.

For one tensile grid, 8 to 16 man hours were required for hand assessment and reduction depending on the size of the grid and reduction required. With the new system there is only approximately a half hour of additional test time required for data acquisition and approximately 1½ hours for data reduction, copying, and reporting.

(Continued on Page 3)

American Defense Preparedness Ass'n Crozier Award presented to Sewell

Robert G. S. Sewell, who has been employed at China Lake for the past 29 years, on Thursday of last week was the recipient of the Major General William Crozier Gold Medal during ceremonies held in Washington, D.C.

Sewell, who heads the Warhead Dynamics Branch in the NWC Research Department's Detonation Physics Division, was chosen by the American Defense Preparedness Association (ADPA) to receive this prestigious award in recognition of his outstanding service to the defense of the United States.

The award, which was presented by retired Army Colonel John Ulrich, chairman of ADPA's Bomb and Warhead Section, is named for General Crozier, the Army's Chief of Ordnance from 1903 to 1918, who was a pioneer in weapons development.

Award Includes \$1,000 Check

charged vaporifics against compartmented structures, (2) reactive follow-through warheads for use against ships and armored vehicles, (3) weapons effects for terrain clearance, (4) methods for near-field blast enhancement, (5) internal blast studies with the concept of critical venting, and (6) target dynamic effects on shaped charge penetration.

The results of studies conducted by Sewell have been incorporated into weapons

His studies have led to major performance improvements in these warheads.

"Through his strong personal efforts and motivation he has been instrumental in influencing these new concepts being incorporated into the designs of new weapons for all the military services and for those of many of our allies."

"Accepting the award in Washington was a very thrilling experience for me," Sewell said. "It was really a prestigious affair. I was particularly impressed by the many three and four star military officers at both

(Continued on Page 3)



Robert G. S. Sewell developed in the United States and abroad. Several of his innovative warhead concepts were field tested in Vietnam.

"Most recently," the citation went on to say, "Sewell's studies in the target dynamics effects on shaped charge penetration made the ordnance community aware of significant underdesign of warheads for anti-tank missiles used in rapidly moving air-armor engagements.

Memorial Day to be observed in traditional fashion at cemetery

Memorial Day, which will be celebrated on Monday and is a holiday for most Civil Service employees and military personnel of the Naval Weapons Center, will be observed locally by a patriotic program that will begin at 10 a.m. at the Desert Memorial Park Cemetery in Ridgecrest.

The principal speaker will be Vet Payne, head of the NWC Public Affairs Office, who will emphasize not only the historic precedent of observing Memorial Day, but also will call attention to the fact that this year the week of May 28 through June 3 has been proclaimed Vietnam Veterans Week — a time set aside to pay special tribute to all Americans who served in U. S. Armed Forces in Southeast Asia.

Following the presentation of the American flag by a color guard from VFW Ship 4084 in Ridgecrest, and by representatives of other local veterans' and fraternal organizations, the Memorial Day program will begin with the invocation delivered by Capt. F. E. Whitaker, NWC senior chaplain.

This year's Memorial Day observance is

being arranged by the Indian Wells Valley Veterans Coordinating Council, and the master of ceremonies will be B. E. "Dutch" Church, a long-time member of VFW Ship 4084 and a past commander of the 10th District of the VFW.

In addition to the principal address by Payne, a highlight of this annual patriotic program will be a wreath-placing ceremony joined in by representatives of the American Legion, Veterans of Foreign Wars, Disabled American Veterans, Fleet Reserve Association, High Desert Detachment of the Marine Corps League, the Knights of Columbus, and the Elks and Eagles Lodges.

The benediction by Capt. Whitaker, a volley of rifle fire by a firing squad composed of members of the NWC Sidewinder drill team, under the direction of AZI John McClain, and the playing of "Taps" will conclude the Memorial Day observance.

Following the program, a potluck luncheon, open to the public, will be held at the American Legion Hall, 641 Inyokern Rd., Ridgecrest.



NWC rocketeer SPORTS

Recreation Round-up Military tennis players sought for MDISL tourney

Plans were announced this week for the Naval Weapons Center to host the 1979 Mojave Desert Inter-Service League's tennis tournament.

This event, which is open to military personnel only, will be played here on Friday, Saturday, and Sunday, June 15-17. Military men or women interested in representing NWC in this event are asked to contact Paul Baczkiewicz, athletic director, by calling NWC Ext. 2334 or 2571 no later than 4 p.m. on Monday, June 4.

Swim Tests Being Held

Youths 8 to 12 years of age who wish to use the swimming pools at the Center without adult supervision this summer must first take and pass a swimming proficiency test.

This test is now being offered at the Center gym's indoor pool during normal hours of operation. Youngsters who pass the test will be issued a patch that is to be sewn onto their swim suit. Cost of the patch is \$1. All youths in the above-mentioned age bracket must be tested or re-tested prior to the start of the summer swimming season on June 9.

Swim Lessons for Beginners

Registration is now being taken at the Center gym for the first in a series of swimming lessons for beginners that will be offered this summer.

Those attending these classes, which will be taught by lifeguards hired by the Special Services Division, must be able to float unassisted either on their back or stomach. Four separate 30-min. class sessions will be conducted on Monday, Wednesday and Friday at 8, 8:30, 9 and 9:30 a.m., starting on Monday, June 11, and ending on Friday, June 29. There is a charge of \$8 per student for three 30-min. lessons per week over a three-week period.

Tiny Tots' Swim Classes

Swimming lessons for tiny tots will be offered on Tuesdays and Thursdays, from June 12 to July 26, at the Commissioned

(Continued on Page 7)

Signups now being taken for Golden Anchor golf tourney

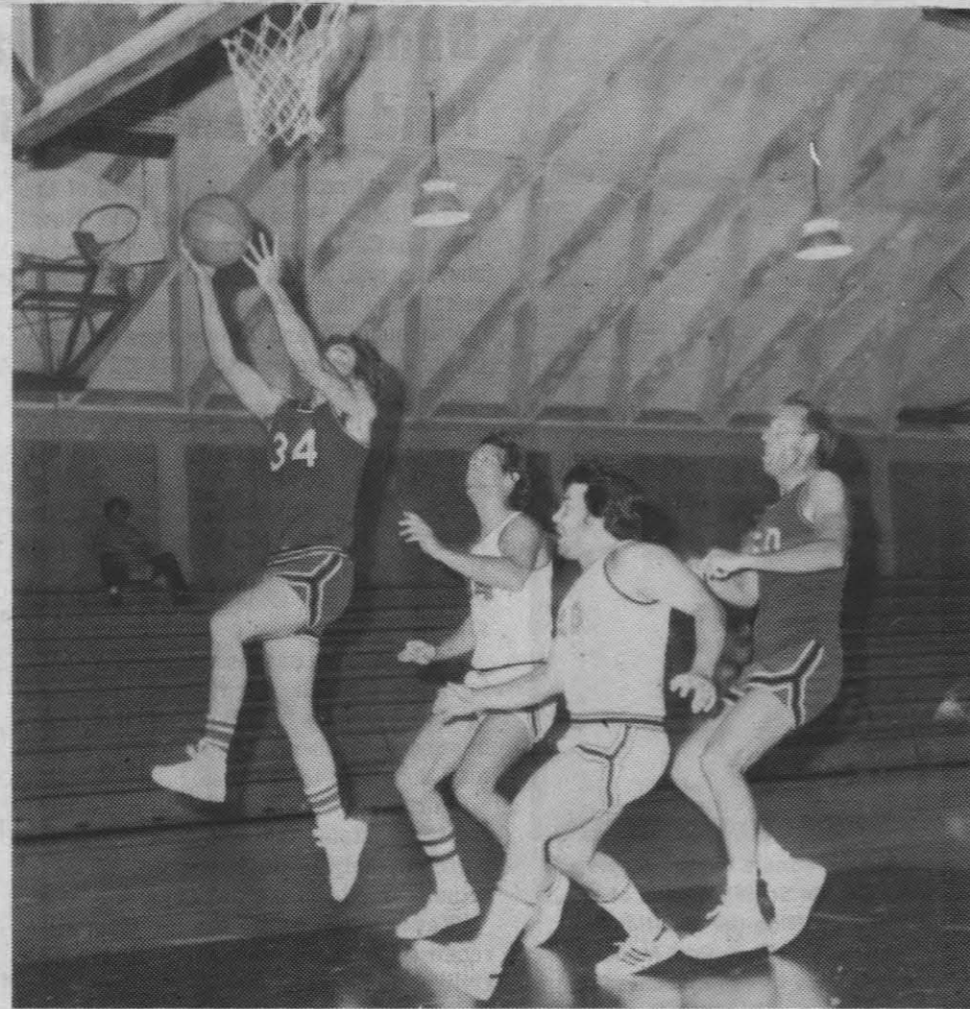
Applications are now being accepted for the Chief Petty Officers' Club's annual Golden Anchor Golf Tournament, and plans have been announced for the weekend of festivities which will be held in connection with the tourney.

Only 50 two-member teams will be entered in this 36-hole, best ball of partner's competition which means that golfers desiring to play should apply early, George Barnard, CPO Club manager, advised.

Tourney golfers will begin play at 9 a.m. on Saturday, June 2, following a shotgun tee-off. The winners will then be decided in a horse race between the 10 low net teams.

The \$60 team entry fee includes a dinner-dance on Saturday, June 2, starting at 6:30 p.m.; and an awards ceremony followed by a buffet on Sunday, June 3, starting at 3:30 p.m. Guests of the golfers and persons not playing in the tourney will be charged \$6 for the dinner.

Information on handicaps and other requirements, as well as application forms, may be obtained by contacting the CPO Club office, phone NWC Ext. 3663.



FAST BREAK — Tom Chapman drives in for a lay-up for the Green team which registered an 85-74 win last Friday night in the first of two alumni basketball games played at the Burroughs High School gym. Opposing players too late to hamper the shot are Tom Kleine and Bob Frances (on right). Trailing the play is Alan Sorenson, a 1957 graduate who was the oldest player on the court.

Burroughs High alumni basketball teams play two high scoring games

Two basketball games, played between teams composed of Burroughs High School grads, drew a sparse audience last Friday night at the local high school gym during activities that were part of a fund-raising weekend aimed at raising money needed for improvements at the BHS football stadium. The Bill Campbell-coached pre-1973 graduates, who received their diplomas in odd-numbered years, outscored their counterparts (graduates of even-numbered years) 85-74 in the curtain-raiser.

In the second game, players who have graduated since 1973 tangled in a lively game that was won, 96-76, by the players on the even-numbered year team coached by Al Sedillos.

Offense Key to Both Games

Offense was the key in both games. In the first contest, the odd year (Green) team trailed 21-22 at the end of the first quarter. The lead changed hands seven times in the first 8 min. of play.

The nip-and-tuck fracas continued in the second period during which the Green team built up as much as a 7-point lead (37-30), only to have it fade in the closing moments of the half when the White team clicked off three field goals in a row to cut the Green team's edge back to a single point, 45-44.

The Green team, which had a few more reserve players, began to gain the upper hand in the third period and drew away to a 66-59 lead going into the final 8-min. of the contest.

In the fourth quarter, the Greens (odd year graduates) were in command with a 16-point lead (85-69) late in the game and coasted to a 85-74 win.

High Point Man

Scott Shacklett, a 1967 graduate, was the high point man with 32. Other players for the Green team who made it into the double-figure scoring column were Steve Quinton, Tom Chapman, and Alan Sorenson who had 15, 14 and 12 points, respectively.

Top scorers for pre-1973 grads who played on the White (even-numbered year) team, and their totals, were Gordon Irvin (28), John Martin (16), Bob Frances (12) and Tom Kleine (10).

In game No. 2, a fourth quarter scoring rampage by the White team (post-1973 graduates in even-numbered years) turned what had been a fairly close game into an easy win of 96-76.

Both teams traded baskets at an even pace through the first quarter which ended with the Green team in the lead, 22-21. By halftime, however, the White squad held the upper hand by the slight margin of 42-39.

The Green team bounced back after the intermission and regained the lead momentarily (47-44) in the early part of the third quarter, but then Mason Bazemore of the White team began hitting on long shots. Bazemore tallied 12 of the White squad's 23 points in the third quarter and helped to boost his team's lead to 65-37.

After that it was a downhill pull for the White team whose players rattled the hoop for 31 points to 19 for their opponents in the final 8 min. of play to chalk up a 96-76 win.

Bazemore led the White team in scoring, with 20. Others not far behind in the scoring column were Jim Stillwell (18), Rick Lovren (16), and Bill Campbell (15).

The game's high point man was Robert Campbell, a 1977 graduate, who tallied 28 points for the Green team, followed by Kevin Silberberg with 20 and Mike Breeden, who scored 10.

2-point conversion play decides winner by 14-12 score in BHS alumni grid tilt

A touchdown and a two-point conversion in the final seconds of the game resulted in a 14-12 win for the White team (graduates of even-numbered years) in the third annual alumni football game played last Saturday at the Burroughs High School stadium.

The White team, quarterbacked by Rick Lovren, was trailing 12-6 with time running out in the fourth quarter when Lovren engineered a drive that moved his team into scoring position.

A short pass from Lovren to Dave Boss in the end zone produced the game-tying touchdown (12-12), and the White team's try for the PAT also was successful—this time with Mike Hicks on the receiving end of an aerial from Lovren.

A disappointing crowd, estimated at 300 persons, had barely settled down to watch the game's first quarter of play when the White team capitalized on a fumble recovery and scored on its first possession of the ball.

The initial tally was chalked up by Mark McDowell, a 1976 graduate of the local high school, who romped over from the 3-yd. line. McDowell, a former Bakersfield College

Raiders establish dominance in men's fast pitch softball

Early season dominance of the Raiders, the first place team in the men's fast pitch division of the China Lake Intramural Softball League, was more firmly established during last week's action as the division leaders overpowered Fuller Masonry 9-1 and shut out the Sports Etc. team 13-0.

In their game with Fuller Masonry, the Raiders scored five runs in the first inning on two errors and three hits—one of them a home-run by Bob Becroft.

Not content with a 5-0 lead, the Raiders tallied three more times in their next turn at bat. Mark Stoner's home run with a runner on base accounted for 2 of the Raiders' 3 tallies in the second inning.

The division leaders chalked up one more run in the fourth inning while holding Fuller Masonry to a single tally in the second. A hit by Don Branson, pitcher for Fuller Masonry, drove in Richard Phillips with the only run of the game for their team.

8-Run Lead Rule Imposed

The 8-run lead rule was imposed, and the game was called at the end of five innings of play. The Raiders outthrew their opponents 8-5 as they posted their fifth straight win of the season.

A home run by Dave Cane with a teammate on base got the Raiders off to a quick 2-0 lead in their lopsided win over the Sports Etc. team.

Mark Stoner pitched a no-hit shut out for the Raiders, and received ample help at the plate from other members of his team. Enroute to their 13-0 shut out of Sports Etc., the Raiders hammered out 10 hits and scored 7 runs in the second inning.

This game also was concluded at the end of five innings because the Raiders were leading by such a sizable margin.

In two other games played last week in the men's fast pitch division, Nelson Auto was edged 3-2 by Sports Etc. and clobbered 11-1 by Fuller Masonry.

Home Run Breaks Scoring Ice

A home run in the fourth inning by Mark Gritton of Sports Etc. with two men on base broke open a scoreless tie in the game between Sports Etc. and Nelson Auto. The three RBIs credited to Gritton turned out to be just enough to win the game for Sports Etc.

Nelson Auto's two runs came on two hits in the sixth inning of what was a pitcher's duel.

The Fuller Masonry team bounced back from an earlier defeat by the Raiders last week to knock off Nelson Auto with ease.

After a scoreless first inning, Fuller Masonry chalked up 6 runs in the second inning, added 3 more in the third and tacked

(Continued on Page 7)

Viet Vets Week: Nation's Tribute For Service In Difficult Times

In proclaiming Vietnam Veterans Week, May 28 through June 3, 1979, to coincide with the traditional Memorial Day, President Jimmy Carter said, "It is important . . . that we remember those who answered their nation's call in the Vietnam war with the full measure of their valor and loyalty, that we pay full tribute at last to all Americans who served in our Armed Forces in Southeast Asia. Their courage and sacrifices in that tragic conflict were made doubly difficult by the nation's lack of agreement as to what constituted the highest duty. Instead of glory, they were too often met with our embarrassment or ignored when they returned."

As the President points out, the Vietnam War was one of the most divisive in the history of our nation. Lost in the tumult was the deserved recognition for those who served courageously in the Republic of Vietnam to help prevent a communist take-over and bring peace to that country.

The Defense and Military Departments' participation in "The National Salute to Vietnam Veterans" includes special events, displays, speeches and Service publication features which provide recognition and express gratitude to military members, civilian



employees, and all of the nearly nine million Vietnam veterans who served in the U.S. Armed Forces during the Vietnam War Era (Aug. 5, 1964 — May 7, 1975).

There will long be debate as to whether we should have engaged in the Vietnam War, but as President Jimmy Carter said in proclaiming Vietnam Veterans Week, "It is important that we remember — honestly, realistically, with humility . . . The honor of those who died there is not tarnished by our uncertainty at the moment of their sacrifice. To them we offer our respect and gratitude."

Vietnam War not forgotten here

For numerous reasons, civilian and military personnel of the Naval Weapons Center have not forgotten the Vietnam War or those who had a part in carrying out this nation's military policy during the prolonged period of U.S. involvement in Southeast Asia.

On board the Center are those who served actively in the military phase of the war and the missing-in-action (MIA) program. The varied duties which they performed run the gamut from serving as officers of Navy ships, Navy and Marine Corps aviators and ground crew members, and Marine Corps and Army infantrymen to Seabees who were involved in a multitude of massive construction projects.

In addition, civilian scientists, engineers and technicians at the Naval Weapons Center carried out important support activities for the military under the Vietnam Laboratory Assistance Program (VLAP) and in other ways as well.

NWC was very much a part of the Vietnam War effort and joins in the national salute to Vietnam era veterans.

Talk scheduled on Cruise missile program

"An Overview of the Joint Cruise Missile Program" will be presented during a dinner meeting of the Sierra Sands Section of the American Society for Quality Control (ASQC) next Thursday, May 31, at Clancy's Claim Company, a restaurant in Ridgecrest.

The presentation will be given by Ron Cheshire of the Joint Cruise Missile Program Office in Washington, D.C., and China Lake. The speaker will present films

illustrating the Navy and Air Force versions of the Cruise missile.

Cheshire will also discuss the organization and direction of the Joint Cruise Missile Program, and will provide handouts to those attending.

The meeting will begin with a social hour at 6:30, followed by dinner at 7 p.m. The program will get underway at about 8:15. ASQC members may make reservations by telephoning Tony Miller at 446-3501.

AN Ross selected as NWC Sailor of Month

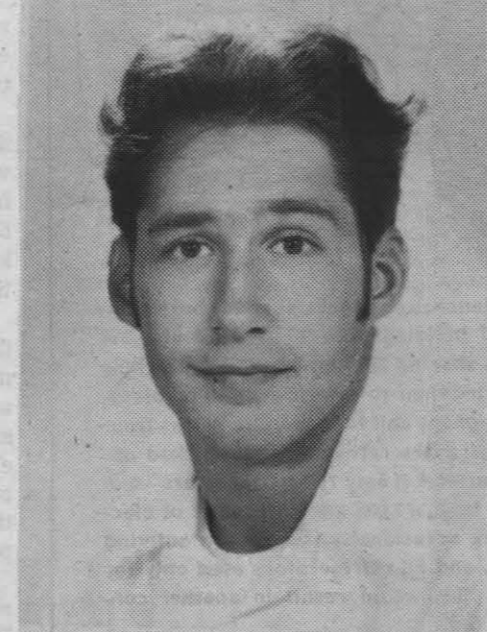
Airman Robert C. Ross of the Aircraft Department's Cold Line has been selected as the Naval Weapons Center Sailor of the Month for April.

In recommending him for this honor, Lt. C. M. Grauert, Line Division officer, said AN Ross' maturity, motivation, and concern for his shipmates has made him a model sailor and that he is highly respected by his supervisors.

Lt. Grauert continued: "Since reporting to the Cold Line, AN Ross has demonstrated a 'Can Do' attitude that makes him a stand out among his peers. His attitude has influenced others into being motivated and aware of their responsibilities.

"The performance by AN Ross on the line has been second to none. He is presently training to become a U-9 plane captain and has made excellent progress. His attention to detail and thoroughness set high standards for his peers to emulate. Because of his performance he has been selected as the Line Division's technical library publications petty officer."

AN Ross calls Delavan, Wis., home. He was graduated from high school there in June 1976, and enlisted in the Navy in Milwaukee, Wis., in March 1977.



AN Robert C. Ross

Computer monitors test runs . . .

(Continued from Page 1)

Another advantage of the computer over hand assessment is that the data is stored on tape for later, further reduced-time-to-failure analysis. A fringe benefit being derived from the new system is that the operator can tell right away if there is a problem with the propellant undergoing tests in the laboratory.

The data generated by the acquisition system is used by propellant formulators and engineers to perfect the mechanical properties of newly developed propellants, and to re-formulate as necessary due to variations in new lots of raw materials.

In addition, the data allows quality acceptance testing of propellant batches

Sewell honored . . .

(Continued from Page 1)

the luncheon and dinner."

Sewell came to China Lake in October 1950 as a physicist in the Ballistics Division of the Research Department. He had received his master's degree in physics in June 1950 from the University of California in Berkeley. His early education was at Taft High School and Taft Junior College in Taft, Calif. He began his studies at Berkeley in September 1947, following more than three years of active service in the Army Air Force as a communications officer.

Since reporting here, Sewell has held progressively more important positions including head of the Diamondback Guidance Control Branch and of the Advance Design Branch. He also has been chairman of the Warhead Supporting Research Steering Committee, served as a consultant to Dr. Peggy Rogers on Free Fall Weapons, and later was promoted to his present position as head of the Warhead Dynamics Branch.

Co-Holder of Five Patents

Sewell is the co-holder of five patents for inventions related to warhead development. He currently has four other patents pending approval.

In addition to his patents, he is the author of more than 60 papers written about studies he has conducted which have become a valuable source of information to weapon researchers throughout the United States and abroad. He has made presentations on weapons development at meetings and symposiums throughout the free world.

He is also a past president of the China Lake Rotary Club, and a member of the China Lake Repertory Group. He helped organize the China Lake Players, and as a hobby he plays the guitar and sings folk ballads. Sewell is still active in church work and has been a lay reader in St. Michael's Episcopal Church for over 20 years.

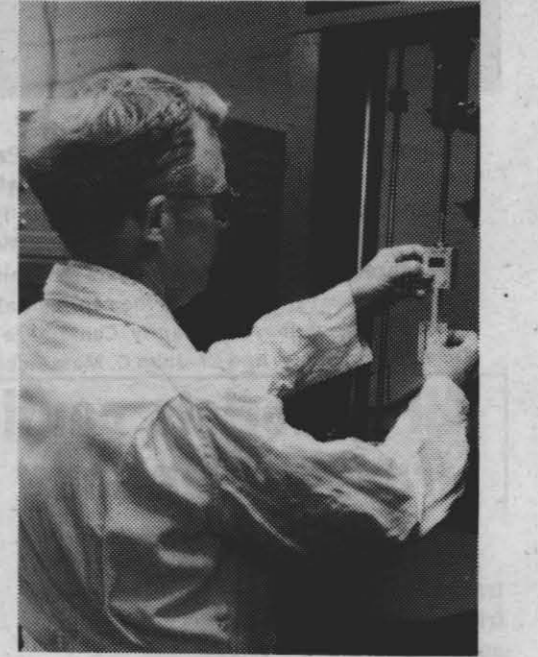
Sewell and his wife, Barbara, have four daughters, Peggy, Christine, Katherine and Deborah.

against specifications and as input for propellant structural failure analysis for specific applications.

Recently propellant structural analysts have tended toward failure criteria based on "maximum true stress." This value is taken at the point at which the function "stress times one plus strain" reaches a maximum. True stress accounts for necking down (reduction in diameter) of the specimen due to extension during the tensile tests.

The value cannot be read directly from the raw data, but a new curve must be generated by calculating values of the function versus strain at a sufficient number of points so that it can be accurately estimated. Calculations by hand assessment did not provide the accuracy or speed necessary to accomplish an increasing number of tests in the laboratory.

With a minimum of nine test conditions at various strain rates and temperatures



STRENGTH TEST — Don Stewart, supervisor chemist in the Physical Properties Laboratory at Salt Wells, places a propellant sample in a tensile strength tester during one of many tests held there to discover the strength of various propellants. The tensile tester has the ability to apply force from grams to 1,000 lb. It is tied directly into the computer, which gives the chemists an instantaneous readout on the results of each particular test.

required on any given propellant sample for a satisfactory analysis of mechanical properties, hand assessment quickly becomes not only tedious but burdensome. True stress is now routinely calculated as part of the tensile testing program and the reduced data is also routinely plotted in a form suitable for technical reports.

Money to finance the necessary equipment to computerize the Physical Properties Laboratory was obtained through the "Fast Payback Program," and the \$40,000 cost is expected to be saved in less than two years.

The data derived by the laboratories' chemists is used primarily by propellant formulators and engineers in the Propellants Branch, explosive formulators in the Explosives Formulation Branch, project engineers in the Systems Applications Office and the Solid Propulsions Branch, and by stress-analysts in the Polymer Science Branch.

7 enlisted men earn advancements in rate

Seven Navy enlisted personnel were advanced in rate this month at China Lake. Three are assigned to the Naval Weapons Center and four to Air Test and Evaluation Squadron Five.

The NWC enlisted personnel who have been advanced in rate are ETR2 Kenneth E. Ewbank and AC1 Raymond H. Felo, both of Code 61; and FTM1 Riley S. Burgess, of Code 3921.

VX-5 enlisted personnel who were advanced in rate are Robert Everhart to AMHAN, Andrew Phillips to AOAN, Daniel Harborth to AME2, and Maurice Gelfo to AMS2.



TOPS IN 11th NAVAL DISTRICT— Capt F. H. M. Kinley, NWC Vice Commander, presents a certificate to MSC Rogelio Del Parto from the Eleventh Naval District designating the Enlisted Dining Facility at China Lake as the best small mess serving less than 500 persons daily in the 11th ND. The Enlisted Dining Facility later came in fourth in the Navy-wide Ney Memorial Award competition. Since the other three finalists were all outside the United States, NWC can be considered as having the best small mess in the continental United States. Looking on during the presentation at the Community Center are Capt. J. D. Killoran (at left), NWC Director of Supply, and Lt. John C. Messinger, Food Services Officer.

All motorists cautioned to use care traveling on long holiday weekend

By Billie Hise

The long Memorial Day weekend traditionally has been a time to drive to visit friends and loved ones or just to get away and relax.

With the gas shortage this year, perhaps not so many drivers will be out on the roads, but there may be hazards and problems. Do watch out for the other guy who may be distracted, sleepy, angry, or who has had too much to drink. Expect problems and be prepared.

Keep your distance. Give yourself an out. Don't tailgate another driver and don't allow another driver to tailgate you.

Avoid Rush Hour Traffic

If you are going into the city, try to avoid rush hour traffic on streets and freeways. In addition, make an effort to check for traffic movements at all intersections—especially where there are pedestrians.

If you are going out on the desert or into a remote mountain area with a single vehicle, tell a friend or neighbor where you are going and approximately when you expect to return. If something happens, someone will know that you need help and will know about where to look for you.

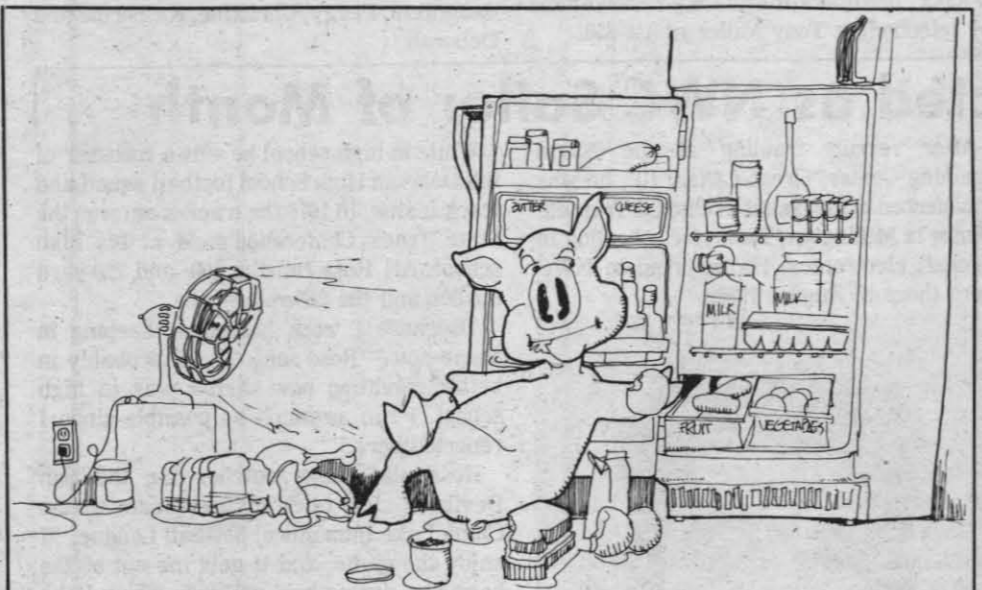
If you are going up into the mountains, remember that speed too fast for conditions and drivers cutting the curves accounts for the majority of accidents in mountain areas. Slow down and check your lane position. Stay to the right. Never coast with the clutch disengaged and remember it takes longer to stop on a downgrade. A good rule of thumb to follow is to use the same gear going downhill that you needed for the uphill climb.

Keep Eyes on Road

Drivers who are bothered by such problems as a crying child, the need to look at a road map, adjust a tape deck or recover a dropped cigaret are reminded to pull off to the right side of the road as far as possible and stop. All of these kinds of problems have been the cause of accidents when the driver's attention was distracted from the road.

Whenever you go, remember driving at night calls for special care. More drivers may be weary, sleepy or drinking and some drivers may have very poor night vision.

Because of the gas shortage, there may be more pedestrians, bicycle riders, motorcycle and moped riders using streets and



TRIM THE FAT—Refrigerators containing lunches or snacks purr 24 hours a day in nearly all of the Center's 1,500 occupied buildings. Each uses about 4,500 kilowatt hours of electricity annually. Groups sharing the same building can help cut NWC's baseline power usage by also sharing their refrigerators and surplus the extras. This can be done with just a telephone call to the Public Works trouble desk (NWC Ext. 2268) to request that the spare refrigerator be picked up. There's no paperwork and no charge for this service. If only 750 refrigerators—one for each two occupied buildings—are turned in, 3,375,000 kilowatt hours of electricity will be saved. Refrigerators used only occasionally, such as in outlying buildings, should be turned off between uses, and all refrigerators used only for lunches should be turned off on weekends; this would result in another considerable energy saving.

Printy honored as most outstanding grad in Business, Public Administration at CSB

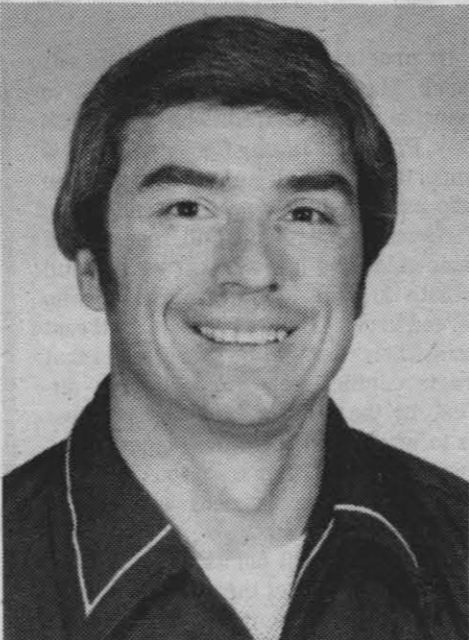
Richard L. Printy, associate head of the Ordnance Systems Department's Engineering Division, was honored recently as the most outstanding 1979 graduate student in the Cal-State Bakersfield (CSB) School of Business and Public Administration.

Printy was singled out for this distinction during the annual awards and honors banquet sponsored by the School of Business and Public Administration.

He was the winner among graduate students nominated for this honor, and a similar award went to an undergraduate student. Determination of the winners was based upon the votes of CSB faculty members.

In addition to publicity in Bakersfield and locally, information about the award to Printy also will be published in the Wall Street Journal.

Printy received his bachelor's degree in business administration through the External Degree Program that is offered by CSB at the Naval Weapons Center, and is currently enrolled in the Master's of Public



Richard L. Printy Administration program on Center.

Printy joined the work force at China Lake as an apprentice electrician in 1961, and worked his way up to journeyman electrician (1965-66) and for three years (1966-68) was employed as an engineering technician.

He received a degree in electrical engineering by taking the Engineer-in-Training exam when it was offered in the latter part of 1968 by the State of California.

Printy has held his present position of associate head of the Engineering Division in Code 32 for the past year.

Firemen to inspect occupied housing units at China Lake

Personnel from the Fire Division of the Naval Weapons Center's Safety and Security Department will be conducting door-to-door courtesy fire inspections at Center housing units during the month of June.

Every effort will be made to inspect all occupied Center residences. This may necessitate the scheduling of some of the inspections after hours and on weekends due to tenants' work hours, vacations, etc.

The fire inspection teams will not inspect vacant or unoccupied quarters. A responsible adult family member must be present during the inspection.

All China Lake residents are urged to participate in this effort to make all Centerite families more aware of the importance of fire prevention. The fire inspectors will point out possible fire and safety hazards in and around the home, concentrating mainly on kitchens and garages. However, a more complete inspection may be requested and is encouraged. During the inspection, the inspectors will make recommendations and answer any questions that tenants may have.

These residential inspections will be conducted annually by the NWC Fire Division. Remember, fire prevention begins at home.

Personnel Dept. seeks employees' input on academic surveys

The Personnel Department's Personnel and Organization Development Division (Code 094) recently has used the NWC Announcements bulletin to distribute four separate academic surveys in order to determine the interest of Centerites in engineering and computer science courses leading, in some cases, to bachelor's and master's degrees.

The deadline is today for response to a survey on elective courses and summer courses for the graduate program in electrical engineering, while those interested in summer courses for the graduate program in mechanical engineering have until Monday to make this interest known to the Training Center.

In addition, response to a survey of interest in a bachelor's program in engineering is due no later than next Friday, June 1, and names are still being accepted by Code 094 from employees interested in a bachelor's program in computer science.

1 week remains for parents to register kids for kindergarten

One more week remains for local area residents to register youngsters who are eligible to attend public school kindergarten classes next fall.

Officials of the Sierra Sands Unified School District have asked that parents whose sons or daughters will be 5 years old by Dec. 1, 1979, call 375-4461 on weekdays between 7:30 a.m. and 4:30 p.m. to make a kindergarten registration appointment for their child.

Parents or guardians are asked to bring the youngster's birth certificate and immunization record along at the time of their appointment. The child also must attend since a nurse will be present to check the child's vision and hearing, and there will be a speech therapist present to determine if the youngster has any speech or language problems.

The school district hopes to complete the registration of kindergarten pupils by next Friday, June 1.



FOR THE NAVY'S NEEDY—Ms. Navy Relief contestant Bonnie Lamb accepts a donation to the Navy Relief Society fund drive from Gerald Schiefer, head of the Electronic Warfare Department. Assisting Ms. Lamb in getting the donation are "Lucy of Navy Relief" (Debbie Meyers of Code 31) and Father Ron Madden, Catholic chaplain at China Lake. The fund drive will continue through Wednesday, June 6.

Swimming tags now available for outdoor pools

Tags entitling holders the use of swimming pools during the coming summer season, from May 27 through Sept. 4, are on sale Monday through Friday at the Commissioned Officers' Mess and at the Chief Petty Officers' Club.

It has been possible to lower the swimming pool fees again this summer, since lifeguards will be hired as part of the Center's summer employee program. However, there will be no price difference between civilians and military this year. Both groups will pay the same fees.

All outdoor pools will have snackbar operations. The Navy Exchange will operate the COM, CPO Club and Minvielle pool snackbars.

Picnic tables and barbecue grills are available at all outdoor pools. These facilities are for use by all patrons on a first-come, first-served basis. Patrons may bring their own food and drinks, including beer and wine, for barbecues and picnics in the appropriate area by each pool.

Special party requests for exclusive use of pool and picnic areas must be submitted to the Special Services Division, and will be forwarded to Command for consideration. Social parties must consist of 50 persons or more.

Since all of the outdoor pools cannot be fully staffed from May 29 through June 1 and June 4 to 8 due to the lack of lifeguards, the indoor pool at the gym will be available for all those who have obtained club pool swim tags. The indoor swimming pool is reserved for adults from 11:30 a.m. to 1 p.m., on Mondays, Wednesdays and Fridays. Open swimming begins at 4:30 p.m. on these three days.

Children's Proficiency Tests

Youngsters 8 through 12 years of age will be allowed in swimming pools on the Naval Weapons Center without adult supervision only after passing a swimming proficiency test given by a lifeguard at one of the pools.

On passing the test, an identification patch will be issued for \$1 which is payable to the attendant at the indoor pool in the Center gym or to lifeguards at outdoor pools. This patch must be affixed to the child's swim suit for easy identification.

COM Swim Pool

For all members of the Commissioned Officers' Mess, tags for use of the swimming pool are priced at \$7.50 for single persons, \$12.50 for couples, and \$15 per family.

All pool users must be COM members or guests. However, anyone who is eligible for club membership may not use the pool as a guest.

This year due to the decrease in COM dues and other benefits now offered to club members.

Other policies in effect this summer at the COM swimming pool include free use of the pool by house guests of COM members who have purchased swimming pool tags and daily guest fees of 50 cents for children and \$1 for adults for non-house guests. Children under 6 years of age will be admitted free. Such guest fees are not, however, available to those who are eligible for, but have not purchased, swimming pool tags of their own.

Hours of operation at the COM swimming pool will be 11 a.m. to 7 p.m. daily. Because of the Indian Wells Valley Swim Team competition, the pool will be closed to the general public until 3 p.m. on Saturday, June 3, and Wednesday, June 14.

Procedures that will be in effect at the COM swimming pool call for registration by the sponsor of those who are guests of members and those eligible for admittance on a daily fee basis. All others must show their swimming pool tags in order to gain admittance to the pool area. There will be no charge for babysitters who accompany children of COM family swimming pool tag holders to the pool.

CPO Club Swim Pool

Fees to be charged all members of the Chief Petty Officers' Club for use of the swimming pool this summer are \$5 for single persons, \$8 for couples and \$10 per family for civilian personnel.

The same guest fees and regulations concerning bonafide guests apply at the CPO Club swimming pool as those in effect at the Commissioned Officers' Mess (Open).

Hours of operation at the CPO Club swimming pool will be 11 a.m. to 7 p.m. daily, including holidays.

Minvielle Park Recreation Area

There is no charge for use of the swimming pool at the Minvielle Park enlisted recreation area by enlisted personnel, their dependents and guests, and officers and chief petty officers who have paid-up memberships in their respective club pools.

Civilian personnel at Armitage Air Field may use the Minvielle Park swimming pool Monday through Friday, between 11 a.m. and 1 p.m., upon payment of a 25-cent daily fee, or upon presentation of a season tag from any of the other swimming pools on the Center. Parties can be arranged by groups affiliated with NWC with approval of the NWC Vice Commander.

Applications for group use of Minvielle Park can be obtained at the gymnasium office on weekdays between the hours of 8

Donations to '79 Navy Relief Society fund drive lag behind expectations

The latest report on the progress of the Navy Relief Fund Drive at the Naval Weapons Center, which was issued Monday, shows a total of 724 contributors donating \$1,437.45 to the campaign.

One hundred and ninety eight military contributors gave \$495.45 while 526 civilian donors gave \$942.

Turn-ins from the various departments have included the following: Code 08 / 09, \$42; Code 12, \$50; Code 21, \$167; Code 23, \$39.50; Code 25, \$32; Code 26, \$105; Code 31, \$324; Code 32, \$38; Code 33, \$22.50; Code 36, \$115; Code 38, \$17; Code 39, \$20; Code 62, \$109; Code 93, \$66; Code 94, \$116; and VX-5, \$174.45.

The fund drive has also received a check for \$1,420 from the Thrift Shop, sponsored by the Women's Auxiliary of the Commissioned Officers' Mess, which brings total donations to \$2,857.45.

L.Cdr. Ted Faller, fund drive co-chairman, stated that the 724 contributors represent only a small number of those actually employed at China Lake.

"Key persons will have to vigorously renew their efforts to contact military and civilian employees during the last two weeks of the campaign if we are to achieve

our goal of 100 percent participation," he stated.

Both nationally and here at the NWC, the primary purpose of Navy Relief is to help servicemembers and their families manage their personal finances and provide interest-free loans, or sometimes grants, for genuine needs in an emergency situation.

Although the NWC Navy Relief office can recommend, and get quick action on, "out of policy" problems when circumstances warrant, the great majority of requests it receives concern one or another of the following assistance categories which are standard policies throughout the Navy Relief Society:

- Basic living expenses.
- Medical care (patient's share).
- Funeral expenses.
- Emergency transportation.
- Other transportation needs.
- Essential car repairs.
- Disaster relief.
- Aid for dependents of deceased servicemembers.

What each of these categories have in common is that assistance is provided for needs, not wants. Navy Relief does not provide assistance for non-essentials. Nor does it use the hard-earned dollars of its contributors to supplement the income of people who lack the self-discipline to live within their own means.

Normally, Navy Relief assistance is provided as an interest-free loan, repaid by an allotment at a convenient and affordable rate. However, in cases where analysis of the budget shows that repayment would cause a real hardship to the servicemember, assistance may be provided as a partial or full grant.

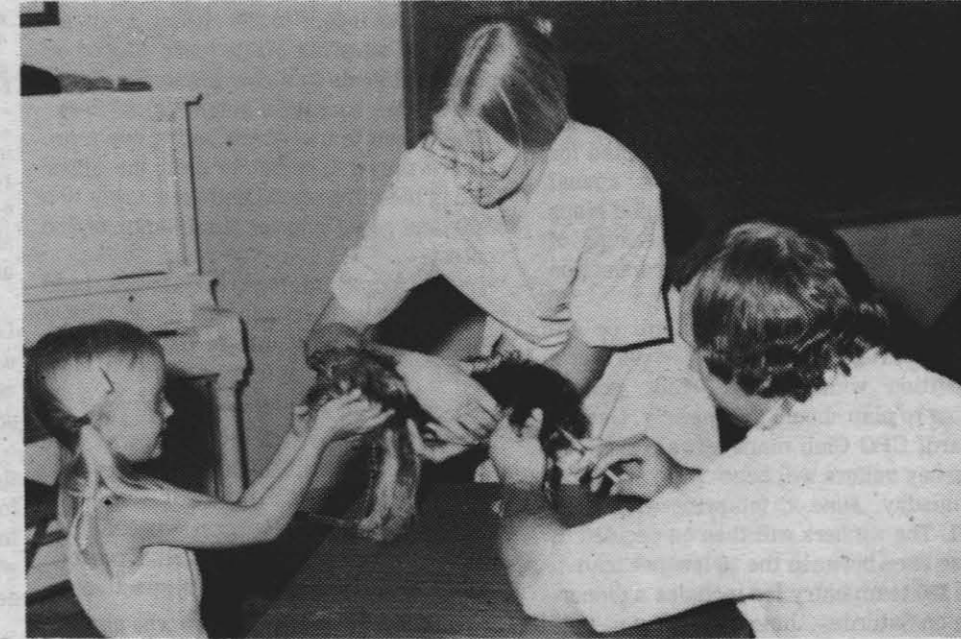
Military personnel at NWC may obtain further information on the services offered by Navy Relief by calling Dianna Allee at 446-4746.

Blue Cross field rep. to visit NWC on June 6

Jean Sainsbury, the Blue Cross/Blue Shield Insurance representative, will be at the Community Center on Wednesday, June 6, from 10 a.m. to 1 p.m.

Enrollees in this health insurance plan who wish to talk to Ms. Sainsbury will be seen on an appointment-only basis. Starting today, such persons can make arrangements for an appointment by placing their names on a sign-up sheet that will be available at the front desk of the Community Center.

No appointments will be taken over the telephone, the manager of the Community Center emphasized.



RABIES CLINIC HELD—Cathy Ricketts of Ridgecrest comforts her dog, Josette, as it is inoculated at the China Lake Girl Scout Hut during the annual Kern County Health Department anti-rabies/licensing clinics held last week in the Indian Wells Valley and Rand District. A total of nearly 675 dogs were vaccinated at clinics in Ridgecrest, China Lake, Inyokern and Randsburg. Dr. James Jansen, of the Kern County Veterinarian Association, gives the shot while his assistant, Charlotte Palmer, helps hold the animal. Dr. Jansen stated that this is a high risk area for rabies. Dog owners who were unable to take their animals to one of the clinics should have their pets inoculated by a veterinarian. —Photo by Ron Allen