



BALLET PRESENTATION — Brooke Robson and Larry Rosenberg of Los Angeles are shown rehearsing for the China Lake performance of the Western Chamber Ballet, a small professional company, on July 20 at 7 p.m. at the Center theater. Tickets are \$2.50 for adults and \$1.25 for children under 12. Tickets are available at the Gift Mart, Station Pharmacy, and on Saturday, they will be available in front of the Shopping Bag. This concert is sponsored by the American Association of University Women.

Plans Finalized For Tuesday Ice Cream Social

The Protestant Women of the All Faith Chapel would like to remind all local residents of the annual Ice Cream Social which will be held on the lawn of the Chapel, Tuesday, July 15, from 6 to 9 p.m. Virginia Murphy, chairman of the affair, has stated that in addition to the homemade cakes, pies and ice cream that will be served, ice cream cones, soda pop and balloons will also be available.

Entertainment will be provided by the Navy Band from San Diego, and there will be clowns on hand to keep the children happy.

Also on tap will be a dunking tank, occupied by Chaplain G. A. Read. Those in attendance will have an opportunity to purchase 3 balls for 10 cents and have a shot at dunking the chaplain into the drink. All proceeds of the social will go toward the Missions supported by the PWOC.

Tickets which are priced 50 cents for adults, 25 cents for children, and 35 cents for servicemen are available at the Chapel office, or from PWOC members.

Fat Albert Back

Fat Albert is back! The Summer Activities Group will sponsor another Fat Albert party at the Inyokern Park, July 16, from 6 to 10 p.m., for all residents of the Indian Wells Valley.

Persons planning to attend are asked to bring their own steak, mug, and utensils. The Activities Group will supply the pop, beer, salad, coals, music, etc.

Any local resident above the age of 18, single or married, is invited. There will be a donation of \$1 asked from all attending.

For further information, contact Don Scofield, Ext. 72092, or Ext. 71340.



PRESENTS TICKETS — Grant Pinney, Vice-President of the Ridgecrest Kiwanis, is shown presenting Captain M. R. Etheridge, NWC Commander, with two tickets to the China Lake Players production of "The Brick and the Rose," a play dealing with the life of a young boy, from birth to death, who is involved with narcotics. Directed by Robert Pinney and Sarah Hetrick, the play will highlight the National Kiwanis Club's efforts in the coming year in the field of narcotics problems. Called a collage of voices, "The Brick and the Rose," will star Bob Gritton as the narrator and Robert Pinney as Tommy. Gerry Baker will be the Technical Director. It will be presented July 18, 19, and 25 and 26 at the Murray School Auditorium.

Be Alert for Reckless Children

The Safety Department reminds NWC residents that, with the coming of summer, children no longer in school will be engaging in activities which could be hazardous. Children who are swimming, motorcycle riding, playing ball and generally keeping active, do not always look out for their own safety, or the safety of others. Normally, these children are too young or too inexperienced to recognize a hazard.

Children are naturally daredevils, and often attempt things which are dangerous. Many instances are seen in the housing area of children too small for the bicycles they are attempting to ride, or tearing around on motorcycles near smaller children.

The Safety Department suggests that parents spend a little time with their children in order to refresh the young-

sters on the idea of safety and safety rules. Many accident reports begin with the phrase, "I just didn't see. . . ."

In order to offset this, the Safety Department suggests that children be dressed in bright clothing during the day time, or wear reflective material on shoes or clothing so that the youngsters might be seen in early evening hours. Parents can help motorists by applying a strip of reflective tape to the sides and rear of bicycles.

Operators of all vehicles: bicycles, motorcycles, and automobiles — are asked to take special care in watching for small children who might be walking, running, or riding near thoroughfares.

This summer, the byword should be, "Watch for Reckless Children."

SHOWBOAT

NEW RATING PROCEDURES
Future ratings for motion pictures shown at the Center Theater will be based on two different types of ratings—the familiar Parents' Magazine ratings, and the new MPAA (Motion Picture Association of America) ratings. (The Parents' Magazine ratings will eventually be superseded completely by the MPAA ratings.)
The rating designations are:
MPAA*
(G)—General audiences.
(M)—Mature audiences, parents should use discretion.
(R)—Restricted, persons under 16 admitted only with parent or legal guardian.
PARENTS***
(A)—Adult
(Y)—Youths 13-17
(C)—Children 8-12
(M)—Mature for Y & C

FRIDAY JULY 11
"THE NIGHT OF THE FOLLOWING DAY" (93 Min.)
Marlon Brando, Richard Boone, Rita Moreno
7:30 P.M.
(Suspense Drama) Taut, action packed story in which Pamela Franklin is kidnaped by a professional gang. An inevitable explosion of violence climaxes the exceptional story portrayed by the superb stars.
R (Adult)
Shorts: "Rabbit Stew and Rabbits Too" (7 Min.)
"Sleeping Bag" (9 Min.)

SATURDAY JULY 12
---MATEINEE---
"STARZAN GOES TO INDIA" (86 Min.)
Jack Mahoney
1:00 P.M.
Shorts: "Tom's Photo Finish" (7 Min.)
"Trader Tom" (No. 7, 13 Min.)

---EVENING---
"THE FIVE CARD STUD" (103 Min.)
Dean Martin, Robert Mitchum
7:30 P.M.
(Mystery/Western) Who stalks the players of a seven-man card game that broke up one night in Rinco because of cheating? Is it murder or coincidence that each are marked for death? **R, RGV
Short: "Is There A Doctor In The Mouse" (7 Min.)

SUNDAY-MONDAY JULY 13-14
"WHERE IT'S AT" (105 Min.)
David Janssen, Rosemary Forsythe
7:30 P.M.
(Comedy/Drama) Caesar's Palace, Las Vegas, is the scene for a generation gap story that comes up with an odd twist as a casino operator's son suddenly starts showing Dad's brilliant traits—to Dad's surprise! **R** (A,MY)
Short: "Think Before You Pink" (Pink Panther, 7 Min.)

TUESDAY-WEDNESDAY JULY 15-16
"THE TIGER MAKES OUT" (95 Min.)
Eli Wallach, Anne Jackson
7:30 P.M.
(Comedy) He was a mouse by day, a tiger at night! This lonely frustrated Greenwich mailman abducted a suburban sophisticate and she changed his entire life. **R (Adult)
Shorts: "Rushing Roulette" (Roadrunner, 7 Min.)
"See Holland" (11 Min.)

THURSDAY-FRIDAY JULY 17-18
"KENNER" (90 Min.)
Jim Brown, Madlyn Rhue
7:30 P.M.
(Adventure) He sought revenge on one man but every thug in Bombay was after HIM! The American seaman found the friendship of a boy, the love of a woman and almost more excitement than he could handle! **R** (A,MY,MC)
Shorts: "A-Tom-Inable Snowman" (7 Min.)
"Belmont Park" (10 Min.)



From _____
STAMP
TO _____



CWO2 WILLIAM E. BASSETT has reported aboard the Center recently to assume the duties of Officer in Charge of the Commissary Store, relieving Lt. Bruce M. Trulli. The Wellsville, Utah, native attended Olympic College, in Bremerton, Washington, and in the service he has attended the Supply Corps School, Submarine School and Warrant Officer Indoc training. Warrant Officer Bassett has been in the Navy since 1955. He and his wife, Karren, have five children, Bonnie, 13, Michael, 12, Peggy, 9, Susan, 8, and Matt, 6. They reside at 40-B Hayward Ave., on the Center.

Desert Dancers Start Classes

Kolos, line dances from Serbia and other Slavic areas, will be featured during the Desert Dancers' beginning folkdance class which will start Thursday, July 17, 8 p.m., at the Community Center. The four-week session which will meet each Thursday and will also cover dances using the basic schottische, waltz and two-step.

Beginners are invited to participate in or watch any of the regular 7:30 to 10 p.m. Thursday programs. Partners are not required.

Club Chaparral Planning Luau

Mike Weinberg, manager of the Club Chaparral, has announced that "The Gents," a popular group from Mojave, will appear at the Club Friday, July 11. All Centerites are invited to come out and enjoy an evening of dinner and dancing.

Weinberg also stated that Luau tickets may now be purchased from any Advisory Board member, or by calling him at Ext. 72274.

He also announced that memberships are now open for qualified Civil Service employees.



GOLDWATER VISITS — Barry Goldwater, Jr. (Cal-R) was given a briefing on the general aspects of the Naval Weapons Center on the occasion of his appearance at a recent luncheon in Ridgecrest. Goldwater is 27th District Representative from California to Congress. Goldwater is shown above in the Research Department accompanied by Capt. M. R. Etheridge, NWC Commander.

Twenty New Billets Available At Bakersfield Reserve Center

Cdr. W. C. McGreevy, Commanding Officer of the Naval and Marine Corps Reserve Training Center, in Bakersfield, has released information stating that Naval Reserve units in Kern County have been authorized 20 new billets for petty officers in the new Fiscal Year, commencing July 1, 1969.

The new slots will allow more Kern County veterans to take advantage of the many benefits of a part-time career as a Naval Reservist. Cdr. McGreevy pointed out that veterans taking advantage of the Naval Reserve gain extra pay, a family protection plan, extra retirement, and the pride of serving once more in his country's defense.

A Naval Reservist spends one weekend each month in uniform, working on Navy material, civic projects, or learning military and professional skills. In this way he continues to serve his country while maintaining his civilian status and civilian employment. Complete information on the USNR Veterans Program can be obtained by contacting the Naval Reserve Recruiting Office, 4201 Chester Avenue, Bakersfield, or by phoning 324-1027 in Bakersfield.



SHRINER CHECKS OUT — A farewell party hosted by the Systems Development Department recently paid tribute to George Shriner who retired from Federal Service after 37 years as a government employee. A native of Rincon, N. M., George and his wife, Ruby, have lived at China Lake for the past twenty three years. Above, Mill Seabrook (r) presents George with a replica of the Tartar missile as a reminder of his project days.

ROCKETEER
NWC
Vol. XXIII, No. 27 Naval Weapons Center, China Lake, California Fri., July 11, 1969

Capt. Walsh Transferred To Secretary Of Defense

Capt. R. S. Moore Takes Over Helm As Tech Officer

A Hail and Farewell party honoring departing Captain and Mrs. F. R. "Knobby" Walsh, NWC Technical Officer, and the recently arrived Captain and Mrs. Robert S. Moore, who will be the new Technical Officer, was held Wednesday, July 2, in the COM.

Captain Walsh arrived aboard the Center October 18, 1965, as the Assistant Technical Officer.

During his tenure as asst technical officer, he served as a project pilot range and air-space coordinator, in addition to providing operational experience in Air Weapons Systems.

Capt. Walsh was promoted to Technical Officer in February, 1968, a position he held until June 30, 1969.



CAPT. R. S. MOORE

The Greenville, Mississippi native attended Virginia Polytechnic Institute at Blacksburg, Virginia and while in service attended the Illinois Institute of Technology, 1948-1949, and the Naval Line School in Monterey in 1950.

After being commissioned and designated a Naval Aviator in October, 1945, Captain Walsh served with VB/VA squadrons in the Atlantic Fleet until 1948 when he entered IIT. In 1951, after graduation from the Naval Line School, he was sent to Korea as a night attack pilot, serving there until 1953.

His next tour of duty was spent at Pensacola as a flight instructor. After three years in Florida he shipped aboard the USS Kearsarge, as the Intelligence Officer.

From 1958 until 1961, Capt. Walsh served with Attack Squadron 126 as the Supervisor of Nuclear Weapons Delivery Training.

Next came two years as the Project Director of the Naval Weapons Evaluation Facility, at Kirtland AFB, Albuquerque, New Mexico.

Prior to arriving at NWC, (Continued on Page 7)



FAREWELL PARTY — Capt. F. R. Walsh, Outgoing NWC Technical Officer, accepts token memento from Carl Schaniel, Head, NWC Weapons Planning Group, at a farewell party held in his honor recently at the Commissioned Officers Mess. Capt. Walsh has been reassigned to the Office of the Secretary of Defense, Washington, D.C.

Military-Industrial Complex Hit By CNO

Speaking before the Union League recently in the City of Philadelphia, the Chief of Naval Operations discussed the current controversy over the so-called "military-industrial complex."

Admiral Thomas H. Moorer said that, "if, in fact, a military-industrial cabal is taking over the whole country," he would "like to see some new management."

He cited figures showing that shipbuilding funds had dropped from 2.8 billion dollars in 1960 to 1.2 billion dollars in 1968, while the gross national product had grown from 600 billion to 900 billion.

"Based on these facts, that is why I say the so-called military-industrial complex is not doing a very good job of either taking care of the Navy or taking control of the overall resources of the country."

He also gave figures on total Defense spending. "Defense's share of national spending is four percent less now than it was in 1960;

"Our 78 billion dollar budget for this fiscal year represents 43 percent of the total allocated the President to preserve peace, internally and externally;

"Ten years ago, the arms budget was 43 billion dollars or 47 percent of total government spending at that time of relative peace;

"Rarely considered is the fact that we are in a war that costs on an average in the neighborhood of 30 billion an-

nually; "And that, as the saying goes, the 30 billion 'comes out of the hide' of the defense practitioner."

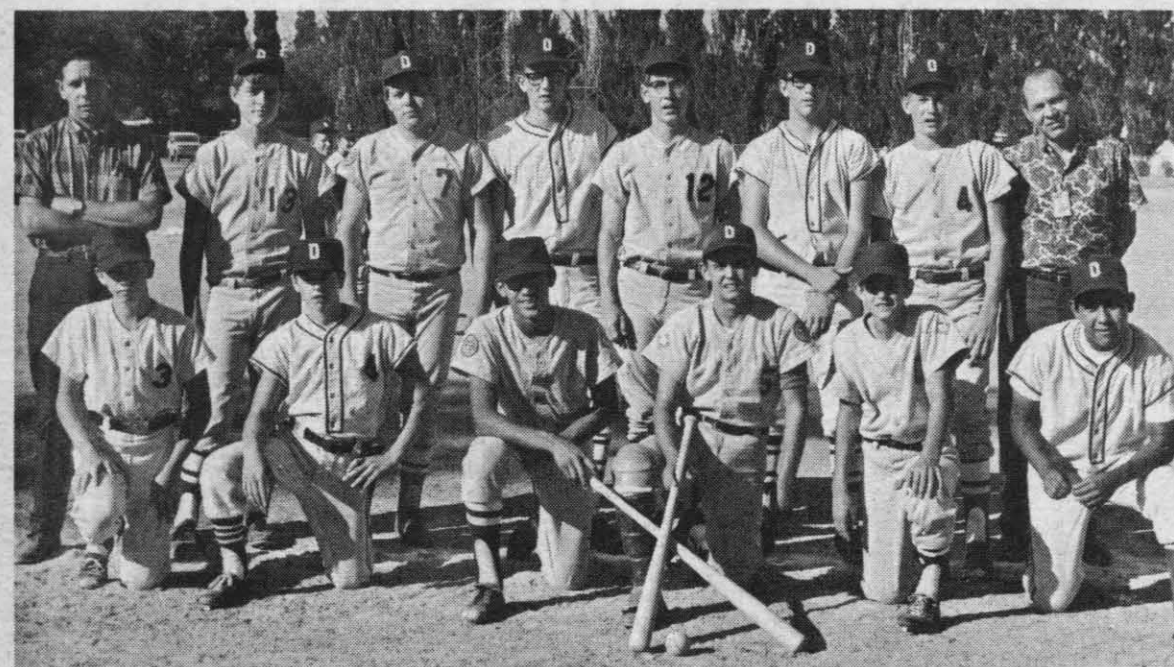
The Admiral pointed out that President Eisenhower's farewell address of 1961 contained more than a warning against the dangers of a military-industrial complex.

"Taken in full context, he warned of many dangers and counseled us accordingly: "He also said that we face a hostile ideology . . . global in scope . . . ruthless in purpose . . . insidious in method . . . and . . . that the danger it poses promises to be of indefinite duration."

Admiral Moorer also stressed another point made by the late President which he said has equal validity. "A vital element he said, in keeping the peace, is our military establishment—our arms must be mighty — ready for instant action — so that no potential aggressor may be tempted to risk his own destruction.

Inside

- Chaplain Page 2
Shrike Meet Page 3
N/C Equipment Page 4
Sports Page 6
Showboat Page 8



COLT LEAGUE CHAMPS — The Dodgers, IWV Colt League champions pose for this team picture prior to taking the field in the Colt League double-elimination tourney held at Schoffel Field. The team beat the Colts, 4-0, in a special play-off game after finishing the regular season in a tie. The champs are, back row, left to right, Bill Craddock, manager, Floyd Paeyeners, Rick Carle, Don Branson, Steve Pullen, Terry Kokosenski, Jim Braun, and Art Craddock, coach. In the front row, left to right, are Joe Koons, Darwin Keck, Phil Iorillo, Jeff Radcliff, David Branson, and Danny Pinto.

champs are, back row, left to right, Bill Craddock, manager, Floyd Paeyeners, Rick Carle, Don Branson, Steve Pullen, Terry Kokosenski, Jim Braun, and Art Craddock, coach. In the front row, left to right, are Joe Koons, Darwin Keck, Phil Iorillo, Jeff Radcliff, David Branson, and Danny Pinto.

Braves Win Pony 'B' Division; Area Championships Play Soon

The Braves won the Pony "B" Division championship by outscoring the Angels, 12 to 8 Tuesday, July 1, extending their consecutive win streak to 9 games.

Steve Forrester, ace pitcher of the "B" Division, was the winner.

The Braves, managed by Harold Orders, and coached by Chuck Pilgrim, started slow, losing two games and tying one, but then they caught fire, catching the Angels in the final game of the season. The game Tuesday night was a play-off game, not on the regular schedule.

Upsets marked the play in the local double-elimination tournament which saw the Colts knocked out of the tournament with losses to both the Angels and the Dodgers, and the Tigers eliminated by losses to the Cubs and the Indians.

The Pony and Colt All Star teams will compete in the Area Championships during the week of July 21. Both teams are to start their practice sessions next week. The Colt All Star team will play at Sylmar, and the Pony team at Rialto. Details of the tournament, and rosters of the two teams will be published next week.

Softball League Tightens Up; Ace T.V., Ridgecrest Shell Lead

The China Lake Intramural Softball League tightened up again as Ace-TV beat Ridgecrest Shell 2-1 on Jim Bevan's homerun with one on in the fourth inning Wednesday, July 2. The two runs were the first earned runs scored this season against Bert Andreasen, ace hurler for Ridgecrest Shell. In the top half of the fourth inning, Andy Gilpin hit a homerun against Bert Galloway to put Ridgecrest Shell temporarily in the lead.

Andreasen's string of 79 innings without an earned run scored against him is a record for the league.

In other action last week, Ace-TV beat Genge 4-0 Monday in the first game of a doubleheader. Jim Bevan also homered in this game, and Galloway struck out 13 Genge batters.

In the second game of the evening, Ridgecrest Shell beat VX-5 9-0 in a game called in the fifth inning. Al Hyles hit two homers in this game and Andy Gilpin hit one. The two sluggers are tied for the lead in home run production with seven apiece.

On Tuesday, NAF beat Genge, 9-3 with Dink Patterson hitting a pinch-hit homerun while batting for Bill Harris.

Magic Cleaners went down to defeat to El Ranchito in the nightcap, 5-2. El Ranchito's Ron Brennecke hit a homerun to help his team to the victory.

In the second game on Wednesday evening, Brennecke again hit the ball well, smacking two homeruns in the second inning to aid El Ranchito in their fight to hold on to third place, by defeating VX-5 17-5. Jim Brown went three for four in the slugfest.

There were no games played on Thursday.

In the pitching department, Bert Andreasen leads the ERA statistics with an earned-run average of 0.08, and 120 strikeouts with 82 innings pitched. Galloway has 138 strikeouts in 91 innings, and ERA of 0.22.

STANDINGS

| Team | Won | Lost | Pct. | GBI |
|------------------|-----|------|------|-------|
| Ace T.V. | 11 | 2 | .846 | — |
| Ridgecrest Shell | 10 | 2 | .833 | 1/2 |
| El Ranchito | 8 | 5 | .615 | 3 |
| Magic Cleaners | 7 | 5 | .582 | 3 1/2 |
| N.A.F. | 4 | 8 | .333 | 6 1/2 |
| Genge | 2 | 9 | .183 | 8 |
| VX-5 | 1 | 12 | .077 | 10 |

BATTING
(30 or More At Bats)

| Name-Team | AB | HR | RBI | Pct. |
|------------------------|----|----|-----|------|
| Dick Clodi, M.C. | 30 | 13 | 0 | .435 |
| Don Williams, M.C. | 32 | 13 | 3 | .406 |
| Drex Maulder, R.Shell | 47 | 19 | 1 | .405 |
| Denny Croger, Ace T.V. | 40 | 16 | 0 | .400 |
| Roger Short, R.Shell | 44 | 17 | 1 | .386 |
| Bob Crawford, Ace T.V. | 44 | 16 | 1 | .364 |
| Al Hyles, R.Shell | 45 | 15 | 7 | .333 |
| Ron Brennecke, M.C. | 39 | 12 | 1 | .308 |
| Andy Gilpin, R.Shell | 33 | 10 | 7 | .300 |
| Dick Rivers, M.C. | 33 | 10 | 0 | .300 |

Now a new way to help your country as you help yourself

U.S. SAVINGS BONDS
NEW FREEDOM SHARES



BOWLERS SHOW APPRECIATION — Members of the Federal Credit Union "Loaners," a Monday night bowling team, presented a sponsors trophy recently to Jess Goza, head of the NWC Federal Credit Union, which sponsored their team. The girls, from left to right, are: Peggy Bell, Gaylene Thelen, Mary Andreasen, and Charlotte DeMarco. The trophy will be displayed at the Credit Union.

The girls, from left to right, are: Peggy Bell, Gaylene Thelen, Mary Andreasen, and Charlotte DeMarco. The trophy will be displayed at the Credit Union.

NWC Shrike Program Hosts First Support Conference Twenty Commands Represented

Personnel connected with the NWC Shrike Program hosted the first annual Integrated Logistics Support Conference at the China Lake Community Center during June 24 through 27.

Paul Davis of NAVAIRSYS-COM was the Conference Chairman and Bill Porter, Code 4005, and Tom Jones, Code 5572, were co-hosts for NWC.

Over sixty people representing twenty different commands were present to provide inputs and to establish criteria for future Shrike Fleet Support.

The conference was broken down into five working committees including Publications, Maintenance, Training, Provisioning, and Surveillance.

The Publications committee was chaired by Bill Heim (NWC); Maintenance was chaired by Joe Sholtis (NAV-AIRSYS-COM); Training by Cdr. AORSS (COMNAVAIRPAC); Provisioning by R. Galloway (NWC); and Surveillance, by Tom Jones (NWC).

Highlights of the meeting were presentations by NWC Publications, Code 5555, of all the manuals that included inputs for the Shrike system. During this presentation, an impressive display of over 137 different documents were presented.

On one of the meeting days, the group was transported to the Meteor Room at G-1 Range where Jesse Green, Code 5562, gave a display of the missile and associated test equipment.

In addition, Pete Bukoff of NAVAIRSYS-COM gave a comprehensive talk about the surveillance aspects of future storage sites and life tests, and Paul Davis, Conference chairman, outlined the 10 elements of Integrated Logistics Support for the Shrike missile and identified NAVAIR functional groups that have the responsibility for these functions.

Summer Help To Be Hosted At COM Party

The Welcoming Committee of the NWC Professional Recruitment Panel, chaired by Bill Shaner, will present the annual Summer Party for Summer Employees, Junior Professionals, Faculty, and new Permanent Professional Employees at the Commissioned Officers' Mess, Wednesday, July 23, from 6 p.m. to Midnight.

The affair will begin with a social hour from 6 to 7:30 p.m., followed by a banquet buffet from 7:30 to 9. Dancing to the music of the COMNAVAIRPAC Band from San Diego from 9 till midnight will be a popular attraction. The swimming pool will be available for use from 6 till Midnight. Small door prizes will be given to each person attending the event.

New employees are encouraged to bring their wife, husband, or a guest. Ticket sales will begin July 14, with tickets priced at \$3 per person. Tickets may be purchased from ticket representatives of the various codes.



LOGISTICS CONFERENCE — Shown above is a working group that was part of the first annual Integrated Logistics Support Conference held recently at the Community Center. Over sixty people representing twenty different commands attended the gathering.

ence held recently at the Community Center. Over sixty people representing twenty different commands attended the gathering.



AWARDS PRESENTATION — Members of Code 12 are pictured after receiving awards in Michelson Lab June 26. They are, back row, left to right, Al Hugo, Earl Towson, Ben Brown and Dick Kistler. Second row, left to right, Fred Bien, Joe McIntire and Gino LaMarca. Front row, Lonnie Cox, Don-

ald Kusterer and Norma Meuser. Hugo, Brown, Bien, McIntire, LaMarca, Kusterer and Meuser received two separate group awards for work they completed on a special study program for the Air Weapons Group. Towson and Kistler received Sustained Superior Performance awards.



PIN PRESENTATIONS — Employees of the Engineering Dept. are shown in Conference Rm. "A" in Michelson Lab after receiving service pin presentations ranging from 20 year Federal and 20 year NWC pins, to 30 year Federal pins. Shown are: front row, left to right, Marcella Sudderth, Raymond Cleland, George Holland, Harold Hockett,

and Arthur Harman. Second row, left to right, Edward Gallagher, Charles Nilson, Harry Walker, Alfred McDonald and Bill Moore. In the third row, left to right, are Walter Osborn, Donald Roets, Thomas Creasy, Earle Suladie, Carroll Frick, Hulcy Ridge and Francis Albers. Not present were Stephen Herzog and Warren Ridpath.



Soccer Buffs Asked To Call Smith for Info

Richard M. Smith, an employee of the Instrument Development Division, Systems Development Department, asks that all local residents interested in playing soccer this summer contact him at either his work extension, 72848, or at home, 76771.

He has stated that this will be an informal group of men and boys over the age of 12 who are interested in getting together simply for the sport and pleasure of playing.

Games will be held at Murray School on the football field.

Smith stated that the game played will be English-style soccer.

Swim Team Activity Picks Up

The Indian Wells Valley Swim Team, under the direction of Carol Chatterton, placed third in the Apple Valley Relay Meet, held last Saturday in Apple Valley. However, the local Red Suits took four first place ribbons, an increase of 100 per cent over last year's performance.

Covina won the tournament, with San Bernardino coming in second. Fourth place was garnered by Apple Valley, and Fontana and Glendora finished fifth and sixth, respectively.

The IWV first place ribbons were won by the 13-14 year old girls' 200 yard medley team consisting of K. Bjorklund, L. DeMarco, J. McGlothlin, and J. Kaufman. In the same age group, the 200-yd. freestyle relay team of K. Bjorklund, L. DeMarco, J. McGlothlin, and D. Flynn, captured first place in their division.

In boys' competition, the 200 yard medley relay team of J. Allan, R. Bjorklund, B. Hillard, and R. Ender, took the 15-17 year old category, and in the same age category, the of J. Allan, R. Bjorklund, V. Villa, and R. Ender took the top prize.

Other Meets

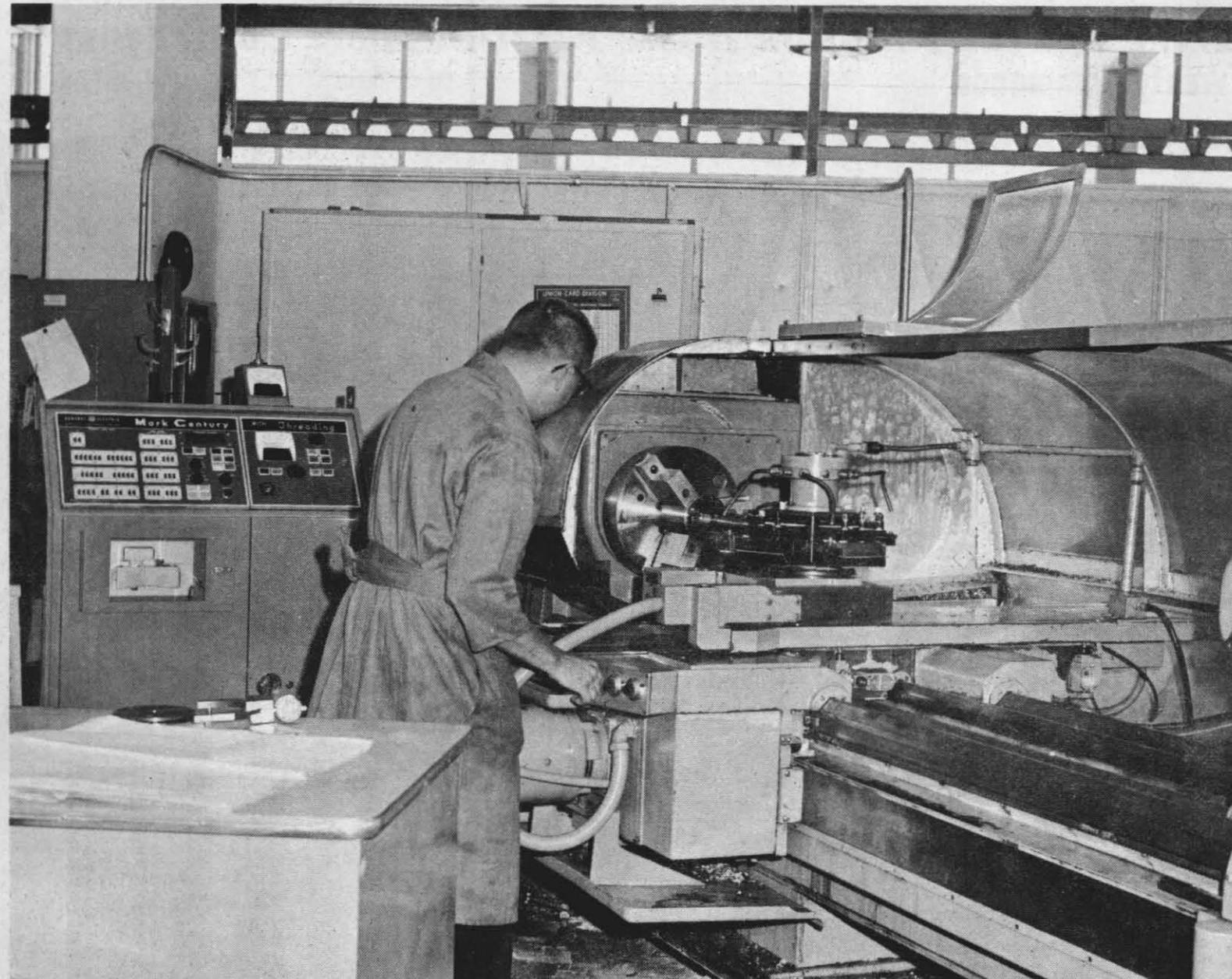
The IWV Swim Team competed in a dual meet at Bar-

stow last Wednesday, but results have not been received as yet.

The team will go against Antelope Valley at 9 a.m. at the COM Pool tomorrow in a dual meet, and on Saturday, July 19, they will take part in the Kern County Championships at Bakersfield.

SUPPORT YOUR RED CROSS

N/C Equipment Boon To Machining Tasks



AMERICAN LATHE — Everett Long, a machinist in Code 5545 completes an operation on an Numerically-controlled American full contouring lathe in the Engineering Department's machine shop. This machine is operated by a computer tape which has been programmed in a language that the machine can understand to perform machining.

ments machine shop. This machine is operated by a computer tape which has been programmed in a language that the machine can understand to perform machining.



LOADING TAPE—Ed Buelmann, Components Model Maker, prepares to run a program on the Heald AcraCenter. He is shown above loading the punched tape into the reader

which is set up to electronically actuate the machine once it has been set up to operate. The reader "reads" characters at the rate of 500 characters/second.



HEALD ACRACENTER—Bill Hobaugh, Model Maker, is shown operating one of the Heald AcraCenter Continuous Path Full Contouring Milling Machine. In the foreground are ad-

ditional tools that will be used to complete the job. This machine can be used to mill complicated shapes as well as for drilling, tapping, and boring operations.



MONARCH LATHE — Jim Carter, Machine Model Maker, is shown above operating a Monarch Pathfinder full contouring lathe. The lathe turret has eight positions for tools which can be preset and indexed into position as called for by the

program. This lathe is capable of turning or boring various curves and tapers in addition to threading and conventional lathe operations for other jobs in the shop. These machines are also controlled by magnetic tape.

Numerically — Controlled Tape — Operated machinery and equipment has been part of the Center's Machine Shop inventory for the past few years. Known by the more familiar name, "N/C Equipment," it has performed machining tasks that could not otherwise have been accomplished, due to the stringent limitations and time frames that have been involved in specific assignments.

In addition, while performing these tasks, the equipment has greatly decreased the man-hours required for such operations as milling, boring, drilling, tapping, and turning.

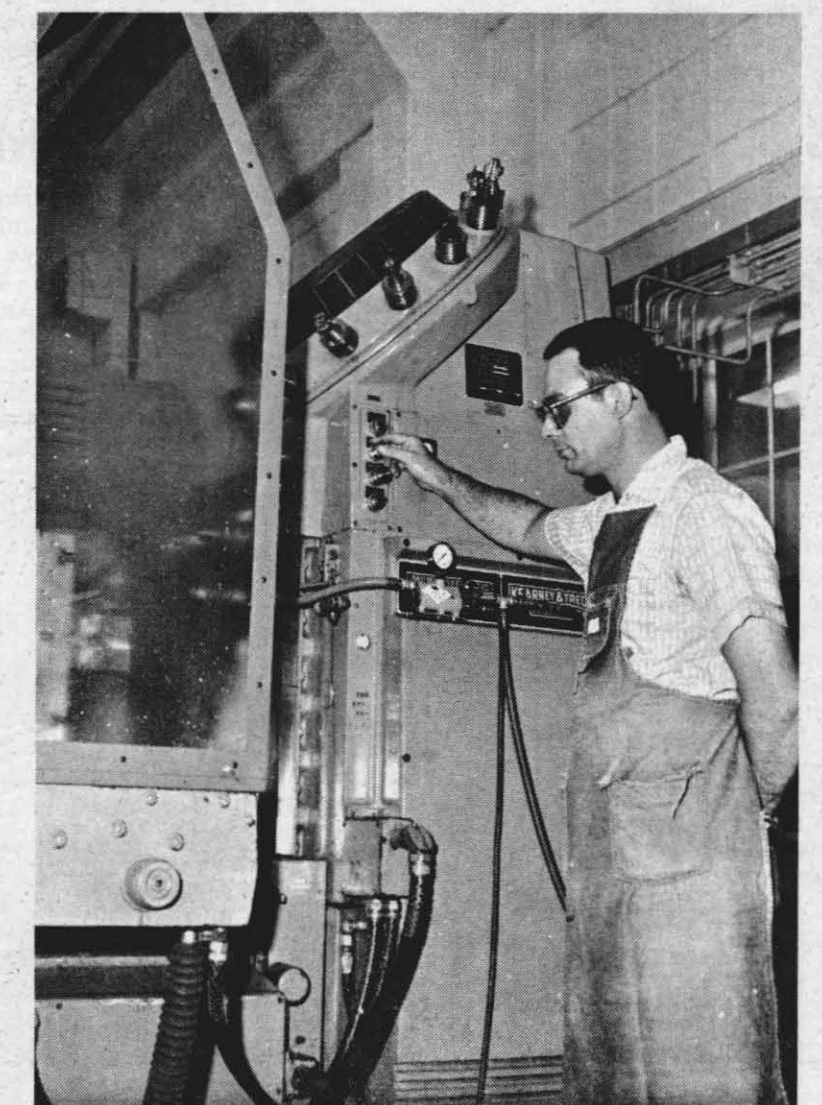
At the Naval Weapons Center, the use of Numerically — Controlled equipment has become an increasingly important and necessary means of meeting assigned workload schedules as well as rapidly and accurately accomplishing highly critical tooling jobs. It can be used to make a single unique part for the experimenter or 200 identical copies of a part, for example, for a quick fix requirement in the fleet.

Around the country, Manufacturers and military operations, particularly the NARFs, have utilized Numerically-Controlled equipment for a variety of production jobs.

(Continued on Page 7)



CHECKING THE PROGRAM — Al Sievert, (l) Parts Programmer Supervisor, and Clint Hill, Engineering Technician Parts Programmer, check the computer produced listing prepared for a job on a Heald AcraCenter Milling Machine.



KEARNEY AND TRECKER MILL—This numerically controlled machine has an automatic tool changer and can be used to perform a variety of functions. Ed Buelmann is shown above preparing to operate the machine after doing a dry run on the parts program. The program is processed on the Center's Univac 1108 Computer.