

Action Committee Appointed To Make Reductions

According to a Washington source, a Blue Ribbon Action Committee has been established to implement decisions made by the Secretary of Defense and Deputy Secretary on the 113 recommendations submitted by the Blue Ribbon Defense Panel.

In announcing the committee, Secretary of Defense Melvin R Laird said major decisions will be made between now and the end of October. He said one objective will be to make major reductions in "overhead staffing" throughout the Defense Department.

The committee is headed by Robert F. Froehle, assistant secretary of defense (administration), and includes general and flag officers from each Service and representatives from the Offices of the Secretary of Defense and Joint Chiefs of Staff.

Overseas Mailing Dates Set For Oct. 12 - Nov. 7

The Christmas Holiday mail dates for U.S. Armed Forces serving overseas have been greatly simplified this year, according to military postal officials.

Surface mail from the U.S. to servicemen and women overseas should be mailed between Oct. 12 to Nov. 7 for a guaranteed holiday delivery, Space Available Mail (SAM) to overseas destinations should be mailed between Oct. 19-Nov. 21; likewise, Parcel Air Lift (PAL) and Air Mail should be posted between Oct. 26-Nov. 28 and Nov. 30-Dec. 12 respectively.

Christmas mail going in the opposite direction, that is, from overseas addresses to the U.S. is slightly different: letter mail from Europe, Africa and Latin America should be posted in sufficient time to arrive at East Coast ports no later than Dec. 16 to reach a West Coast address by Christmas. Air Mail letters entering the East Coast should arrive by Dec. 19, Surface parcels and Air Mail parcels should arrive on the East Coast no later than Dec. 8 and Dec. 15 respectively.

For personnel stationed in Alaska and the Pacific, the latest possible surface and Air Mail letter dates for arrival at the West Coast were listed as Dec. 16 and Dec. 19 respectively for Christmas delivery to East Coast addresses; similarly, surface and Air Mail parcel West Coast arrival dates were given as Dec. 12 and Dec. 16.

A ballroom dance club for persons with old-fashioned feet and almost-ruined eardrums is being formed. The first meeting will be held in the Knights of Columbus building, 700 West Ridgcrest Blvd., Thursday, September 24, beginning at 8 p.m. All interested persons are invited to attend.



ORCHESTRA BEGINS SEASON - Charles Wood, conductor of the Desert Community Orchestra, and instructor of "Music 70," the Bakersfield College, Desert Campus course which spawns the Orchestra, is caught in a moment of concentration

during the Orchestra's first rehearsal Tuesday on the Burroughs campus in preparation for the 1970-71 concert season, which begins with the "Free" concert on Sunday, October 25.

Photo by PH1 D. L. King

Museum Offers Local Artists' Work As Awards For Drive Contributions

Seven selections from the work of China Lake and Ridgcrest artists will be offered as awards to those who make contributions to the Maturango Museum annual fund drive that will be headquartered at a Desert Empire Fair booth starting October 4. Contribution receipts will go on sale this week at \$1 each, with proceeds from the fund-raising effort earmarked for Museum improvements, according to Mrs. Alice Dubin, curator.

This year's offering of desert art works includes two tinted salon prints of bristlecone pines done by Museum director Kenneth Robinson, two carved wooden roadrunners from the collection by Charles Huckleba, a Sierra landscape painted by Dolores Hoffman, a framed batik print by Louise Gillespie, and a sculptured metal jackrabbit by William McEwan.

Winning contribution receipts will be selected at the Museum booth at 7 p.m. on the closing night of the Fair. Winners need not be present, and each will have the opportunity to choose his prize in the order in which his name is drawn.

The ancient bristlecone pine prints have become a traditional part of the annual Museum awards. Ken Robinson, who has done the prints in subdued color, each spring leads a field trip for Museum members through the White Mountain bristlecone forest, which contains the world's oldest living things. Mrs. Hoffman's impressionistic mixed-media landscape - still untitled - is her second contribution to the Museum. An earlier desert-inspired painting, "Chameleon Cliffs," was one of the first selections of the 1968 contest. Hand-carved roadrunners in natural-grained softwoods have

been Charles Huckleba's specialty since his work first appeared in the 1966 event. This year he has donated two of his most recent pieces, lively replicas in wire-brushed pine of the best-known desert bird.

The McEwans, father and daughter, are new to the Museum art program. Louise, now Mrs. Daniel Gillespie, has contributed a three-color batik print in an Indian petroglyph motif. The batik technique is an Indonesian art form in which the artist develops his design on cloth by successive applications of wax and colored dyes.

William McEwan, head of the Chemistry Division in the Michelson Laboratory, has sculpted and carved as a hobby since his youth. Now mixing his interest in art and technology, he is experimenting with welded metal sculpture. His latest work, a desert jackrabbit in black steel, rounds out the selections.

Contributions are being handled by Dr. Jean Bennett of the Museum board, and the Friends of the Museum headed by Mrs. Barbara Sewell.

JOIN THE STAR-SPANGLED FREEDOM PLAN

SIGN UP FOR U.S. SAVINGS BONDS/ FREEDOM SHARES

SHOWBOAT

MOVIE RATINGS FOR PARENTS AND YOUNG PEOPLE

The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.

- G** ALL AGES ADMITTED
General Audiences
- GP** ALL AGES ADMITTED
Parental Guidance Suggested
- R** RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian
- X** NO ONE UNDER 17 ADMITTED
(Age limit may vary in certain areas)

FRI 18 SEPTEMBER

"THE GAMES" (97 Min)
Michael Crawford, Ryan O'Neal
7:30 P.M.

(Sports Drama) An exciting 23 mile Olympic Marathon is the exciting climax of this rambling story of competition at the Rome Olympics. The plot focuses on the lives of several runners leading up to the race. (G)
SHORTS: "Pluto's Kid Brother" (7 Min)

SAT 19 SEPTEMBER

-MATINEE-

"FURTHER PERILS OF LAUREL & HARDY" (99 Min)
Laurel and Hardy
1:00 P.M.

SHORTS: "Mr. Duck Steps Out" (7 Min)
"Wideo Wabbit" (7 Min)

-EVENING-

"THE BOSTON STRANGLER" (116 Min)
Tony Curtis, Henry Fonda, George Kennedy
7:30 P.M.

(Crime Drama) A remarkable based-on-fact story of the killer of 11 women with Tony giving a remarkable performance as the homicidal schizophrenic. Slightly made film turns the morbid into sheer entertainment. (R)

SUN AND MON 20-21 SEPTEMBER

"BENEATH THE PLANET OF THE APES" (95 Min)
Charlton Heston, Kim Hunter
7:30 P.M.

(Science Fiction) This sequel concludes the story of space explorer Heston and Humanoid Linda Harrison as they flee from the apes who control the Earth in the year 4000. Amusing fantasy with a grim message! (G)
SHORTS: "Donald's Dream Voice" (7 Min)

"Fish Are Where You Find Them" (9 Min)

TUES AND WED 22-23 SEPTEMBER

"THE COCKEYED COWBOYS OF CALICO COUNTY" (99 Min)
Dan Blocker, Nannette Fabray
7:30 P.M.

(Western-Comedy) When the essential town blacksmith decides to leave because his mail order bride failed to show up, the townsfolk take matters into their own hands. Jim Backus, Mickey Rooney, Wally Cox, Stubby Kaye, Noah Beery and Iron Eyes Cody help make this a wacky funfest. (G)

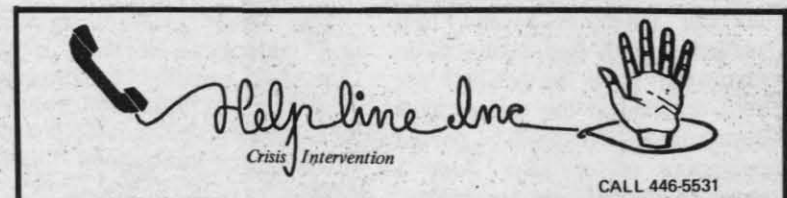
SHORTS: "HalfTime U.S.A." (9 Min)

THURS AND FRI 24-25 SEPTEMBER

"SKULLDUGGERY" (105 Min)
Burr Reynolds, Susan Clark
7:30 P.M.

(Adventure) The expedition probed the eerie wilds of the New Guinea jungle and discovered half-human, half-ape Troops - the "Missing Link?" Their discovery leads to an emotional court trial regarding race and rights. (GP)

SHORTS: "U.S. Air Force Academy" (9 Min)



From _____

TO _____

STAMP

Physicist Tests Blood Velocity

Sees Flow Pattern As Key To Better Diagnoses

At a recent meeting of the American Physiological Society held at the Bloomington campus of the University of Indiana, Dr. Robert L. Rockwell, an NWC physicist, delivered a paper which described his recent work concerning the use of the computer as a tool in diagnosing diseases of the circulatory system.

His paper, entitled "Parametric Analysis of Pressure and Flow Pulses in Arteries", -which was co-authored by Prof. Max Anliker of Stanford University and Dr. Eric Ogden of NASA's Ames Research Center - told of new techniques to measure instantaneous blood velocity in arteries from outside the body.

In delivering his paper, Dr. Rockwell presented the results of using a mathematical model of the arterial system which was developed in the course of researching his dissertation while at Stanford.

Basically, the paper dealt with a method of determining the source of any abnormality in the velocity pattern of a "normal" heart. One of the conclusions reached from using this model was that it would soon be possible to use this method as an additional aid in the detection of such conditions as leaking heart valves, hardening of the arteries, cholesterol deposition, enlarged heart, etc.

According to Rockwell, the data that currently exists seem to indicate that when these techniques are perfected, it will no longer be necessary to introduce invasive devices into blood vessels in order to determine internal body conditions.

Dr. Rockwell began his mathematical study of arterial blood flow while doing work on his Ph.D. at Stanford. "Because of my regular work at NWC, I wanted to do my dissertation on Dynamics, Mechanics, or an associated area", he said. "Quite by accident, I found out that Biomechanics, a branch of Biomedical Engineering, offered a degree of excitement and

intrigue that was lacking elsewhere in Engineering.

"In the field of Biomedical Engineering, the conventional methods of Engineering and Mathematics are used in unconventional applications to biological systems and materials".

Studies Blood Flow

In his work with the arterial system, Dr. Rockwell studied the blood flow from the aorta down to the smallest capillaries in order to determine the properties and parameters that were important to the propagation of the natural pulse generated with each heart beat, and to see if they could be simulated mathematically. His research was the first by anyone to attempt to accurately model the whole arterial system by including the effects of blood viscosity, leakage of blood through side branches, elasticity of the vessel wall, and of inherent nonlinearities.

While Dr. Rockwell's research was being conducted, advances in non-invasive measurement techniques (the ability to measure the conditions inside a blood vessel from outside the skin) by other investigators were being made.

By placing an ultrasonic flowmeter on the skin, precise measurements can be made that can be interpreted clinically as normal or abnormal.

Specifically, it was found that it is now possible to obtain transcutaneous measurements of instantaneous blood velocity, for example, by using ultrasonic doppler flowmeters as pickup devices.

Dr. Rockwell's research centered on establishing deviations in measured quantities from normality which could then be used for diagnostic purposes.

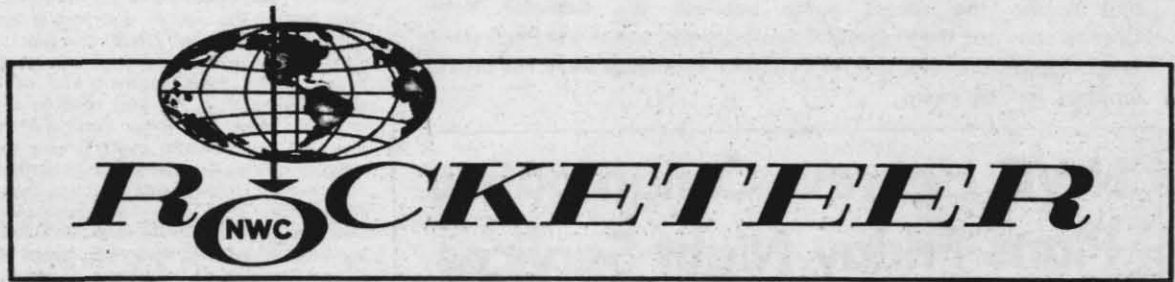
"If it is known from the mathematical model that a particular kind of abnormal flow velocity pulse shape is caused by a certain disease," he explained, "then that disease can be diagnosed merely by noting its



1000TH DISCLOSURE - Mat Anderson (l) and Steve Redmond (c) were informed recently that their invention disclosure was the 1,000th issued from NWC's Corona Annex. On the table is a bread-board model for which the patent ap-

plication was made. It is a Digital Electronic Safety-Arming Device for use in a Navy missile. Patent Counsel Joe St. Amand was the bearer of the news.

-NWC Corona Photo



Vol. XXIV No. 37 Naval Weapons Center, China Lake, California Fri., Sept. 18, 1970

occurrence on the recording equipment.

"At the present," he went on, "about the only non-invasive technique we have is for pressure, and that technique is limited to detecting the systolic and diastolic values, and those not very accurately. It is clear that in the future, the swing will be away from the historical emphasis on blood pressure and more toward flow velocity".

To the man on the street this means that a recording of his flow pulse could be a normal part of his yearly checkup. Early detection of problems would be noted by small changes from previous years. For instance, leaking heart valves (Continued on Page 3)

Community Council Asks Christmas Parade Help

The China Lake Community Council has put out a call for volunteers to work with Councilwoman Wardna Abernathy (Precincts 4 and 8) on a Christmas Parade for 1970. Mrs. Abernathy reported at a recent Community Council meeting, she has not reached the stage in her efforts where she must have help. She has written to 168 cities in California where such parades are held and has received many answers with a great deal of helpful information. Anyone who wants to help is asked to call Mrs. Abernathy at her home, 446-2272.

In addition to her report on the Christmas Parade, Mrs. Abernathy reported on the progress of the Nominating Committee in obtaining names of prospective candidates for positions on the Board of Directors of the Council in the fall election. The names of prospective candidates, by precincts, are: Precinct 1, Mrs. David Chapman and William Werback; Precinct 2, Mrs. Daniel Van der Werf; Precinct 4, Eugene Baker; Precinct 5, Richard Schultz and Russell Fielder; Precinct 7, Louis Thompson and Dick Schmitt; Precinct 8, Vernon-Cole; Precinct 9, Al Pena, Phil Gill and Mrs. Edward Teppo.

Mrs. Abernathy stated that several incumbents on the Board have not yet made a decision regarding their availability for reelection. Anyone interested in serving on the Board is encouraged to contact either Mrs. Abernathy (446-2272), Mrs. Ruth Schuyler, (446-3164), or George Ness (446-4476) as soon as possible.

The subject of residents who do not remove trash containers from

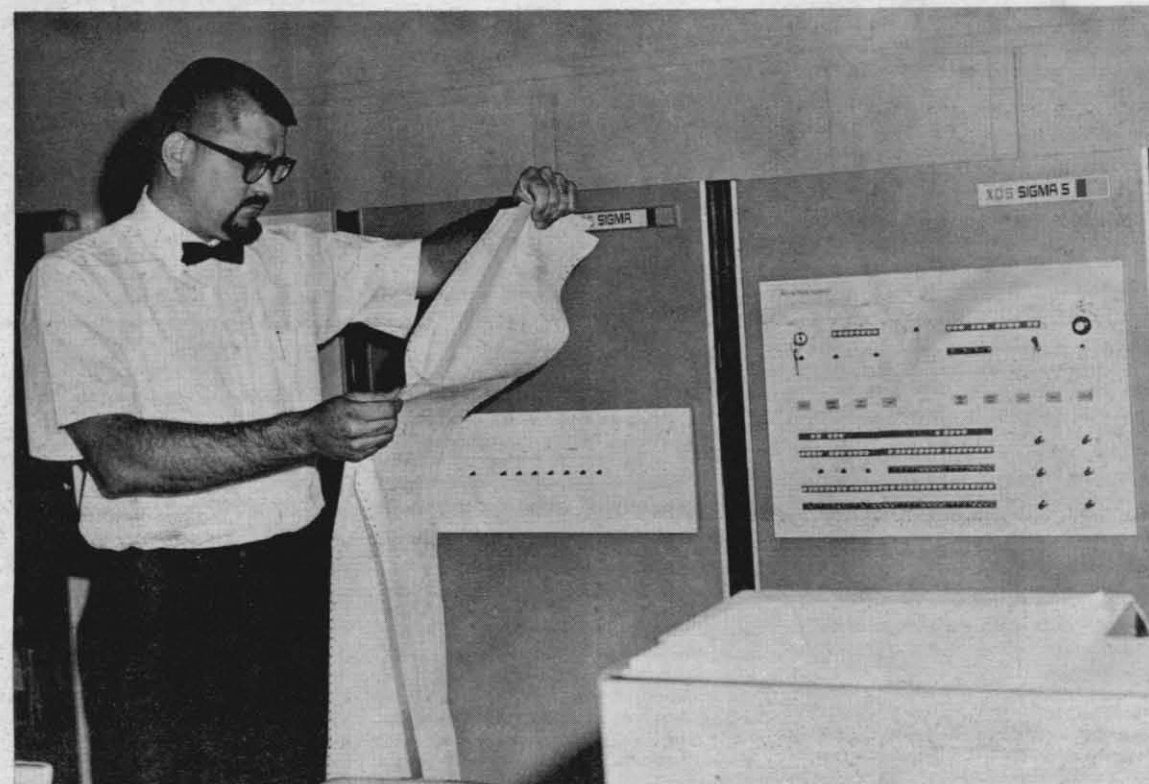
the curb following pickup was brought up by Phil Gill (Precinct 9). Gill told the Council that this subject is becoming a matter of concern to the community. It has been noticed in the areas served by a private contractor that cans and other containers have been left on the curb throughout the week, and are an eyesore as well as a hazard to small children.

Hearing Board
In other business, Dr. Ted Bergman reported on the recent activities of the Community Hearing Board, which had recently heard a neighborhood dispute, an appeal from a Traffic Court decision, and three hearings on failure to control domestic animals.

In the cases involving dog control, the owners were warned to take necessary steps to properly control their dogs, and one owner was directed to remove his dog from the Center within 30 days. In addition, two cases involving failure to control domestic animals, are still pending.

China Lake residents are reminded that the Community Hearing Board is the vehicle through which they may settle disputes concerning violations of Center administrative regulations. These regulations cover such subjects as animal control, traffic court decisions, and other on-Center traffic violations.

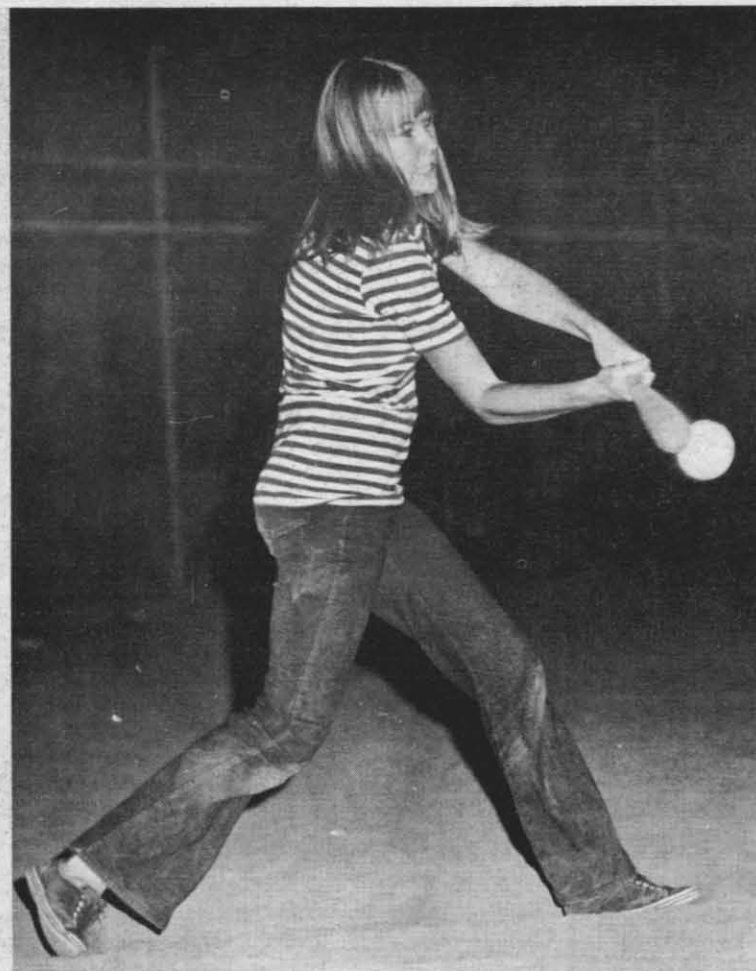
The instruction covering the Hearing Board structure and purposes is NWC 5820.1C, Administrative Regulations in the China Lake community; policy on enforcement of. A copy of this instruction can be obtained from the Community Relations Assistant, Ext. 3575.



LOCAL PRODUCT - Dr. Robert Rockwell is a 1953 graduate of Burroughs High School and began his career at NWC a year later in 1954. He recently was granted a Ph.D. from Stanford University in Aeronautics and Astronautics under the auspices

of an NWC Fellowship. His present work at the Center includes mathematical analysis on various weapons projects currently being conducted at NWC.

-Photo by PH2 D. E. Hart



A HIT—Nancy Etheridge shows beautiful form as she crunches the ball during the recent game between the Catholic Youth Organization and the Protestant Senior Highs...

NWC Hebrew Congregation Plans Friday Night Services

The NWC Hebrew Congregation has announced that James Mirel, the new Student Rabbi from the Hebrew Union College of Los Angeles, will hold Friday night services on September 18, at 8 p.m. in the East Wing of the All Faith Chapel.

Mirel has studied at the Hebrew Union College for the past year, and this summer, held an internship at the Cedars-Sinai Hospital Complex in the Psychiatric Department as part of his rabbinical training.

The Rocketeer

Official Weekly Publication U. S. Naval Weapons Center China Lake, California. Capt. M. R. Etheridge, USN NWC Commander.



DIVINE SERVICES

Protestant (All-Faith Chapel)—Morning Worship—10:00 a.m. Sunday School—9:30 a.m. Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant.

PROMOTIONAL OPPORTUNITIES

Employees are encouraged to apply for the positions listed below. Current applications (SF-171) or Standard Form 58 bringing your work history up-to-date should be forwarded as described below.

Clerk-Typist, GS-322-3, PD No. 7075013, Code 7523, Part Time—4 hours a day—This position is that of Clerk in the China Lake Film Branch, Presentations Division, Technical Information Department.

Clerk-Typist, GS-322-3, PD No. 730626, Code 3002—This position is located in the Systems Development Department, M-31 Room. The incumbent of this position types rough drafts, ditto masters and other non-specialized material into final form.

Supervisory Supply Technician, GS-2005-07, Code 25751—As Head, Purchase Material Section, Control Division, maintains liaison with vendors, contract administrators, center codes, Navy Regional Finance Centers and Accounting Division to resolve any problems in connection with receipt of material and billing procedures.

Purchasing Agent, GS-1105-04, Code 2522—Responsible for wide range of purchases; must be knowledgeable in basic contracting techniques; must be able to determine as to the fairness and reasonableness of prices; must be able to evaluate and respond to a wide variety of considerations.

File applications for above with Naomi Campbell, Bldg. 34, Rm. 204, Ext. 3118. Supervisory Policeman, GS-7, Code 843—Ensure the maintenance of order and enforcement of laws; to control the actions of persons in their relationship to one another through supervision and management of a Police Watch, consisting of subordinate Policemen, Guards and Clerk-Typists; to conduct preliminary investigations, to make arrests and to submit proper reports regarding complaints received and unusual incidents which occur.

Police Officer, GS-5, Code 843—Enforce county, state and federal laws as well as station regulations; to conduct initial investigations; to make arrests when necessary; to attend court when required; to preserve, protect and gather evidence at crime scenes; to prepare written reports of activities. The incumbent must be required to carry firearms and to be proficient in the use of .38 caliber revolver.



APPRECIATION TOKEN—Mrs. Anne Etheridge (l), wife of NWC's Commander, Capt. M. R. Etheridge, received a token of appreciation from the Oasis Garden Club, presented by Mrs. Berneice Meade, president of the Club, during a recent meeting of the Oasis Garden Club.

present information, set up and maintain files, write summaries of meetings, assist Division Head in administration of Division, supervise work of subordinate clerk-typists. Minimum Qualification Requirements: Three years of clerical experience of which six months must be clerical assistance to a designated supervisor.

File applications for the above with Carole Cadle, Bldg. 34, Rm. 204, Ext. 2925. Secretary (Steno) or Secretary (Typing), GS-4 or GS-5, PD No. 6278, Code 302—Primary purpose of this position is to serve as Division Secretary. Major duties and responsibilities include composing and reviewing correspondence, personal and telephone contacts, obtaining and presenting information, setting up and maintaining files. Qualified steno preferred, but not required.

File applications for the above with Carole Cadle, Bldg. 34, Rm. 204, Ext. 2925. Lithographic Pressman (17x22) WPA-44017-16 JD NO. 271, Code 7513—Incumbent will operate and maintain a lithographic press with a maximum sheet size of 17 x 22 inches. Reproduces pamphlets, charts, graphs, diagrams, maps, posters and instructional material involving line, halftone, duotone and multicolor work to close registration.

File application and supplemental Rating Forms with Beverly Salger, Code 657, Bldg. 34, Rm. 212, Phone 2514. Mail and File Clerk, GS-305-4, Code 8514—Position located in Mail, File and Records Branch, Command Administration Department. Routing of incoming correspondence, filing, and record searching. Minimum Qualification Requirements: One year general clerical experience and one year specialized experience.

File applications for above with June Chipp, Bldg. 34, Rm. 204, Phone 2676. Computer Systems Analyst, GS-334-9, 11, or 12, PD No. 7030104, Code 3053—This position is that of a Computer Systems Analyst in the Electronic Warfare Branch of the Countermeasures Division, Systems Development Department. The incumbent of this position will analyze and develop methodology and requirements use in performing computer-oriented analysis of electronic warfare effectiveness. He will be responsible for the maintenance and modification of all programs at ECHO Range and the documentation, reporting, cataloging and library functions required.

X-118 Job Relevant Criteria: Must have a working knowledge of FORTRAN IV, CS-1, and SYCOL language programming, and of the theory of probability and statistical processes. Must be capable of real time and non-real time programming, preferably on UNIVAC equipment, such as the 1230 and the 1108. Electronic Engineer, GS-655-9, 11, or 12, PD No. 7030010, Code 3053—This position is that of a Project Engineer in the Electronic Warfare Branch of the Countermeasures Division, Systems Development Department. The principle functions of this position is to design and/or assist in the designing of tests; the overall scheduling of tests to be conducted and for their coordination with other Center ranges; monitoring test operations and make real-time decisions concerning flight operations; monitor data reduction; and serve as a consultant in the analysis of systems.

File applications for above with Mary Morrison, Bldg. 34, Rm. 210, Phone 2032. Clerk (DMT), GS-265, Code 4020, PD No. 7040085—This position provides clerical support to the Anti-Radiation Guidance Division, Weapons Development Department. The incumbent will provide assistance to the Division Head and his staff by performing a variety of clerical and administrative duties related to the management of the office such as, scheduling appointments and conferences, telephone and receptionist work, receiving and replying to incoming mail, reviewing out-going mail, etc., provided a technical knowledge of specialized subject matter is not required. Minimum Qualification Requirements: Two and one-half years general and six months specialized experience in accordance with X-118.

File applications for above with June Chipp, Bldg. 34, Rm. 204, Phone 2676. Nursing Assistant, GS-421-3, PD No. 7088004-2 and -1 (2 vacancies), Code 8522—The incumbent will be responsible for the regular performance of non-professional duties which involve personal care and nursing procedures for patients who are not acutely ill. Assignments may be made to any or all sections of the Nursing Services Branch for any shift. This is a WAE position. Minimum Qualification Requirement: (a) six months of experience in non-professional nursing care work in a Federal Hospital or on active military duty, or in a private, state, county, or city hospital or (b) equivalent experience in a medical environment in an occupation such as medical technician, laboratory, dental or pharmacy assistant. Advancement Potential: Nursing Assistant GS-4.

File application form SF-171 and card form 5001-B5C with Joan Macintosh, Personnel Bldg., No. 34, Rm. 212, Ph. 2371. Forms can be obtained from the Receptionist in the Personnel Building.



SOON TO BE a familiar sight to those who attend sporting events at Burroughs High School this year will be the school's cheerleaders as they urge their teams to victory. Seen above at a practice session are, front row, left to right: Pam Pangle, Debbie McCrumb and Susan Rungo. Back row, left to right: Vicki Fritchman, head cheerleader; Maggie Etheridge and Diane Boyack.

Jack Braun Retains Gun Title With Victory Over Herigstad

Master rifleman Jack Braun is still No. 1. Braun scored a 466 out of 500 to win the Sierra Desert Gun Club's hunter's field match September 11 at Hi-Power Rifle Range, barely defeating Don Herigstad, who shot a 464.

Herigstad was the winner of the Expert Class and took the kneeling stage award in the class. Other class awards went to Phil Nelson (prone) and Bob Gould (sitting and standing). As a Master, Braun was not eligible for Expert Class Awards. The next club matches will be National Rifle Association sanctioned matches on October 10 and November 14.

MATCH RESULTS 1. Jack Braun, 466; 2. Don Herigstad, 464; 3. Bob Gould, 452; 4. Phil Nelson, 446; 5. Bob Dickus, 388; 6. Bill Miller, 370; 7. Bill Johnson, 334; 8. Jerry Reed, 292; 9. Bernie Mathis, 252.

Bonus Payment Added To Interest For Holders Of Long-Term Bonds

A one-half per cent bonus payment will be added to interest rates paid to longer-term holders of U.S. Savings Bonds. The bonus, raising the effective interest rate on new Bonds held to maturity from five to five-and-a-half per cent, was signed into law by President Nixon in late August.

In addition to Bonds sold after June 1, outstanding E Bonds that have not reached their first maturity will receive a one-half per cent increase in yield for semiannual interest periods beginning on or after June 1, payable as a bonus at maturity.

Similarly, outstanding E Bonds that have reached first maturity—or are extended beyond first maturity while the bonus is in effect—will have the one-half per cent credited at the end of each semiannual interest period beginning on or after June 1 through their next maturity, payable whenever the Bonds are redeemed.

Regarding Series H Bonds, Treasury said those purchased after June 1 would yield approximately 5.12 per cent for the first 5 years and 6 per cent for the remaining 5 years to maturity, providing an over-all yield of 5 1/2 per cent from date of issue to date of maturity. Also, outstanding H Bonds held for less than five years will receive

a one-half per cent increase in yield for semiannual interest periods beginning on or after June 1, payable as a bonus in the form of increased semiannual interest payments during the second five years to maturity.

H Bonds that have already been held five years, Treasury added, or are extended while the bonus is in effect, will receive a one-half per cent increase in yield for semiannual interest periods beginning on or after June 1, and the bonus would be added to semiannual interest checks through next maturity.

'Help Line' To Conduct Training For Volunteers

The local "crisis intervention" telephone service, Help Line, will conduct a training course for interested volunteer workers, the group's board of directors announced this week.

Those who complete the course will receive a card certifying that they are eligible to serve as Crisis Intervention workers. The graduates may work in the Help Line office, providing information and emotional support for people who phone in with problems. Additional information and class locations may be learned by phoning Help Line, 446-5531, between 6 p.m. and midnight any day.

Navy Relief . . .

(Continued from Page 4) volunteers who have contributed the requisite number of hours of satisfactory service. The Society's highest award—the Certificate of Service and Meritorious Service pin—is presented in recognition of outstanding, rather than routine service, and is reserved for volunteers who merit special commendation.

Local Volunteers The local group is headed up by Jamie McConeghy, Chairman of Volunteer Women, who also serves as an interviewer. Other interviewers are Toni Cummings, Shirley Cobb, and Liz Johns. Mrs. Anne Etheridge is Honorary Chairman of Volunteer Women and Chaplain H. A. MacNeill is Executive Secretary.

Joan Ellefson, Secretary and Chairman in Charge of Receptionists, has been working with Navy Relief for a number of years. She is assisted by receptionists Barbara Schell, Margaret Teufel, Mary Speer, and Betty Kirwin. Katie Chenault serves as Hours and Records Chairman. These ten volunteers constitute the staff at the present time. Three volunteers who helped during the past summer, but who have recently left the area due to changes in duty station, were Shirlene Graft, Barbara Brown, and Judy Cook. Also the staff suffered a great loss when Jeanne Robcke left the Center in July.

Hospitality Staff The newly organized Navy Chiefs' Wives Club was searching for worthwhile projects of endeavor and volunteered to organize the hospitality room—a project that very much needed attention and for which there never seemed to be enough volunteer time. The Chiefs' Wives Club was then asked to take charge of the Hospitality Department and they readily agreed.

The Hospitality Department—a committee to meet the immediate needs of new arrivals whose household goods have not yet arrived—has three co-chairmen who are on call: Rosemary Harris, Janice Parker and Anita Carter. who are on call: Rose Marie Harris, Janice Parker and Anita Carter.

Currently the local Navy Relief Office is open only three days a week, Monday, Wednesday and Friday, until the staff is brought up to workload capacity. Hours are from 11 a.m. until 2 p.m. Those who need assistance may contact the office at 446-4746 or stop by the office at 55 Lauritsen Road. Mrs. McConeghy stated that a drive for more volunteer workers is now in progress and the officers are striving for a staff of about 30. Those who are desirous of serving in this capacity may contact Mrs. McConeghy at the Navy Relief Office or at 446-7557.



HOSPITALITY COMMITTEE—Household articles for loan to new arrivals whose gear have not yet arrived are returned to the shelves by (l-r) Janice Parker, Anita Carter, and Rose Marie Harris who belong to the Navy Chiefs' Wives Club (CPO Wives Club). The Club assists the Navy Relief Society by managing the Hospitality Department.



HOW TO DECORATE A CAKE can be learned in eight lessons for just \$20. Florence Platzek and Bula Keen (l-r) apply the finishing touches to the "bonnet" cake. Morning and evening classes begin October 7 and 8 at the Community Center. Registration deadline is September 30. Intermediate and advanced students should pick up a copy of their first lesson prior to class time to prepare for their first assignment. For further information call Ann Seitz at the Community Center, Ext. 2010, or Betty Breitengross, instructor, at 446-2282.

Date Conflicts On Calendar Due To Apathy

Lack of attendance at special events can be the result of conflicts in scheduling, Community Relations Assistant Wade Allen, reminds local clubs and organizations. As a community service his office maintains a Community Calendar which serves the purpose of coordinating the scheduling of events that are of community-wide interest, and thus conflicts in scheduling dates can be avoided. When a representative amount of events are scheduled, the calendar is given a wide distribution.



B&F Liquor's 2949 Tops Premier Opener

The Premier League got off to one of its fastest starts ever last Monday as three teams (B&F Liquor; Ace-TV, and Blue Bird Taxi) swept all three games from their respective opponents. The B&F Liquor quintet rolled a 2949 series for the three matches, which included a 1008 game. However, Mercury Movers fired 1019, to lead the individual game team scoring.

Dick Furstenburg rolled a 627 to lead the league, followed closely by Chuck Cutsinger, 623; Ray Schreiber, 620; and Bob Lockwood, 617. Earle Roby had a 604.

Lockwood put together games of 204-201-212 for a triple-200 trophy, as did Cutsinger (215-204-204). Ray Schreiber rolled games of 236 and 225; Sam Schoenhals had a 236; Furstenburg, 232; Roby, 233-200; Ed Donohue, 233; Byron Nelson, 225; R. C. Jones, 226; Alex Ribultan, 221; and Jack Lindsey, 221.

Women's Scratch

Wilma Johnson rolled a 591 series to lead the ladies in scoring last Monday evening as the Monday night women's scratch league started a new season. Neola Crimmins fired a respectable 545 series. Other three-game sets of note: Sue Haack, 521; Mike

Breitengross, 519; and Erma Erickson, 515.

Mike Breitengross had high game for the evening (214), while Wilma Johnson shot two games above the 200 mark: 213 and 203. Cathy Sticht had a 209 and Aiko White rolled a nice 202.

Junior Leagues

In the Junior-Senior League, David Branson rolled the week's high series with a 496, but he barely edged Dale Diede (494) and Don Heeke (493) for the honor.

High Boys' game of the week was Mickey Knight's 208, while in the girls' realm, Kathy Burkhalter took both high game and high series with 158 and 410.

Mike Lindsey came through with the boys high game in the Bantam League with a 179 and David Fursentberg rolled a 455 for the high series.

Patricia Petack led the girls with a 152 game and Diane Witmer scored the high series, a 373.

Mixed 4-Some

In the Friday Mixed League, Osheim outlasted Team 19 and IAM with a 2082 team series. IAM finished second with 2067 ahead of Team 19 at 2053.

Jack Lindsey and Paul Erickson

(Continued on Page 7)



TEAM MASCOT - Anne Burkhalter has the singular distinction of being the team mascot for the 1970 Burroughs High School "Burros." Anne may be seen Saturday night, September 19, when the Burros open their 1970 season against Bishop-Gorman High School from Las Vegas. Bishop Gorman defeated the Burros, 50-16, in last season's opener at Las Vegas. Kick-off time is slated for 8 p.m. at Kelly Field.

Wolves And NAF To Open Season Of Flag Football

The 1970 China Lake Flag Football season gets under way Tuesday, September 22, and from all indications, it should be one of the finest.

The Wolves and NAF clash in the season opener at 7:30 p.m. Tuesday and VX-5 and Ace TV meet Thursday, September 24, also at 7:30 p.m.

The Wolves are entering a rebuilding year, as only a handful of starters from last year's squad return this season. Split end Gary Anderson, linebacker Mike Gilbranson and defensive lineman Ted Bailey form the nucleus of a team that should be bigger than last year.

"We have several big linemen we didn't have last year," said acting coach Jim Walden. "Al Kim, Carl Merullo and Brad Royer are going to be the mainstays in our line."

At quarterback for the Wolves will be last year's No. 2 signal caller, Mick Rindt. An all-around athlete, Rindt will direct an offense that Walden estimates will be 60 per cent passing.

"We have a lot of material with good size, but we have no one with burning speed. We've had help with our defense from Phil Gill, so we should be strong there. A lot will depend on the breaks."

"We won't be any bigger than average size, but we go in for speed, because speed and quickness are what count in flag football," said Ace TV coach John Orozco.

Ace returns starting end Danny Barton, halfbacks Tony Cozzuoli and Richard Dominguez and guards Bill Julianno and Gene Fleming on offense.

The defense will be built around returning defensive starters Carl Ames, Ron Aarons, and Ralph Pinto, who make up the front wall.

Rounding out the defense are linebackers Mel Hunsacker, Al Hiles and Orozco, and defensive backs George Thoms and George Weir.

The offense will be led by quarterback Bill Harris, who will direct Ace in a multiple offense. A big defensive line. That's where NAF has pinned its hopes.

Bruce Quinn (6-4, 245) Ed Hanson (6-2, 230) and Dean Dunbar (6-0, 230) anchor the front wall with help on the sides from Vic Wood (6-2, 205) and Moose Mischino (6-0, 205).

"We'll definitely have a strong defense, but our offense will have to come around," said player-coach John Stortecky.

NAF's offense has yet to jell into its final form. Receivers John Diehl, Roger Mann, and Kirk Ratliff will share end duties, while Stortecky can call on no fewer than six small but fast halfbacks.

Bill Lalor, president of the China Lake Little League, has announced that a meeting of the Board of Directors will be held Tuesday, September 22, in Room 212 of the Training Building, beginning at 7 p.m. Lalor invites all interested persons to attend this meeting as officers for the coming year will be elected. Persons desiring further information are asked to call Lalor, NWC Ext. 2075, during duty hours.



ABC M. W. LAWRENZ, left and MR2 J.E. Wallace, center, are congratulated by Capt. R. E. McCall, Commanding Officer of the Naval Air Facility, following a presentation of letters of appreciation to the two men. Lawrenz and Wallace were cited in recognition of their superb cooperation and tireless efforts to assist members of the USMC at NWC in the building of the Gen. B. A. Hocmuth Memorial Lane at NAF.

Desert Empire Fair Set Sept. 30-Oct. 4

The twentieth annual Desert Empire Fair is due to materialize magically out of the Community's own Fairgrounds Park, right within view of the China Lake NWC south gate, out Richmond Road, some time during the night before Wednesday, Sept. 30. At 5 p.m. that day, the gates will burst open with a flag ceremony, and five days of fun for all will explode into action.

The traditional Midway, which will be bristling with carnival rides and games, will be flanked by the usual food and drink booths—mostly manned by familiar neighborhood personages. Enough variety in hand-held sustenance will be offered to provide a different meal each of the five days, with a full chicken sit-down dinner for the more hearty appetites, all accompanied by fellowship with acquaintances behind the counter or strolling by on the paths. Liquid refreshment from beer to scones can be found conveniently located among the purveyors of tacos, hamburgers, hot dogs, corn-on-the-cob, ice cream, and what-do-you-want.

For quieter, but equally friendly fare, the Big Top will loom up, filled with exhibits representing local activities of all sorts. Here is to be viewed the expanded and carefully assorted display of fine arts, handcraft, and domestic arts that have been submitted by the variously gifted persons of the community, the prizewinning entries in numerous categories tagged with their awards.

Throughout the scheduled hours—5 to 10 p.m. Wed. and Thurs., 5 to midnight on Fri., 1 p.m. to midnight on Saturday and 1 to around 10 p.m. on Sun., Oct. 4, special events will be announced, to take place in the rodeo arena or on the open-air stage at the end of the Midway. These consist of attractions for all tastes and include both contests (from Wiskerino to Turtle Racing) and programmed performances (square dancing, karate, etc.).

Not to miss any of the once-a-year items, many citizens of Indian Wells Valley—to say nothing of fans from miles around—will spend some of each day on the fairgrounds. However, a number of features will be daily occurrences, starting with the ceremonial raising of the flags by well-known youth groups, and ending with the drawing of attendance prizes for lucky ticket-holders at the close of festivities each night.

The prizes will be gifts of merchandise or services from the business enterprises of the Valley, and encompass such alluring miscellany as a choice of pet food (dog to parakeet), xerox copies of any document, merchandise certificates of all kinds, free dinners, . . . even assistance in income tax preparation. Beverly Kirkpatrick is now accepting pledges of these gifts. She would welcome a call at 375-8580 or 375-2364 from anyone or any group that would like to help boost attendance at the community's most popular promotion and hear his name announced when his prize is awarded. Anyone who is present with the number called on the stub from his admission ticket is eligible to win.

Admission to the fairgrounds is still 25 cents for persons over 12, or



A VETERAN of 234 combat missions, Lt. John E. Vomastic is VX-5's new A-7A-B Tactical Manual Officer, Project Pilot and Assistant Reports Management Officer. Lt. Vomastic, a graduate of Illinois Institute of Technology, received his commission in 1965 and completed two cruises with VA-27 (Lemoore) aboard the USS Constellation. He and his wife Mary Ann reside at 56-A Randolph with their daughters Dawn and Amy.

Choir Director Plans Performance Of The 'Messiah'

Russell Parker, who will direct the choir for Bakersfield College, Desert Campus, has announced that rehearsals will begin immediately for a December 14 presentation of Handel's "Messiah." The college class, known as Music 14, is a college transferable course, and may be taken for one unit of credit.

The "Messiah," composed in 1741, has become one of the most popular oratorios of all time. During the month of December, this well-known work is performed by literally hundreds of musical organizations. All persons interested in being a member of the choir are invited to attend the first rehearsal on Monday, September 21, at 7 p.m. in Room F01 on the Burroughs High School campus.

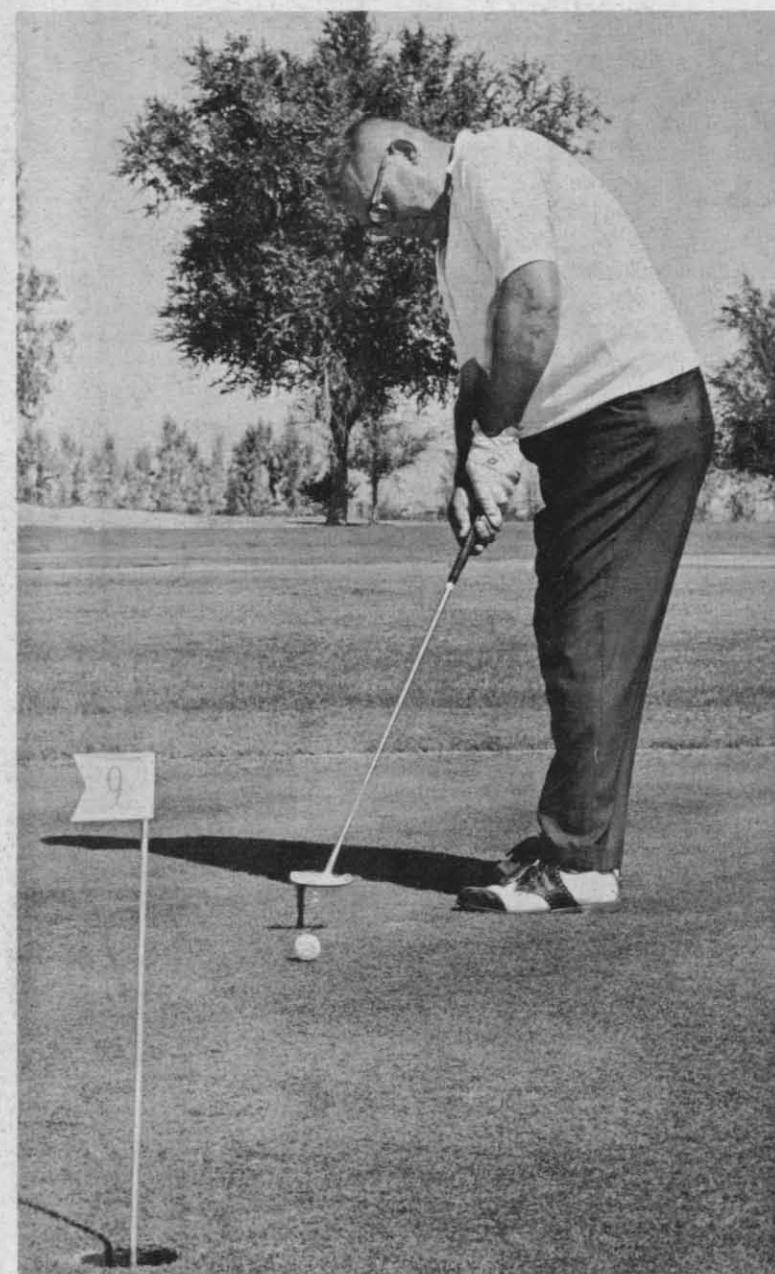
For further information, contact Parker at 375-4476, Ext. 40, or at 446-5382.



WACOM NEWCOMER'S COFFEE-A coffee to welcome all newcomers to the area was sponsored this week at the Officers' Club by the Women's Auxiliary of the Commissioned Officers' Mess. Olga Creighton (l), membership chairman, and Debbie Cattern (c) welcomed Carol Magorian who recently arrived from Corona with her husband Ray, an electronics engineer in the Fuze Dept.

Buy U.S. Savings Bonds

Admission to the fairgrounds is still 25 cents for persons over 12, or



LOW MEDALIST- Marv Rush, defending champion of the China Lake Golf Club, brushes up on his putting in preparation for the final two rounds of golf this weekend in the annual Club championship. Rush shot 159 for the first 36 holes to take Medalist honors, followed closely by Curt Bryan and Bob Moore, with 161's.

Rush Overcomes Winds To Take Low Medalist

Defending champion Marv Rush, who overcame two days of gusty winds to fire a 36-hole score of 159 and outshoot 60 golfers for medalist honors, again looms as the favorite in the championship playoffs this weekend at the China Lake Golf Club.

Rush shot rounds of 81 and 78 in 20 mph winds to earn the No. 1 spot in the Championship Flight playoff bracket.

He is joined in the championship bracket by Curt Bryan and Bob Moore with 161's and Max Smith with 165.

Bryan's score of 76 on September 11 was the lowest in the qualifying rounds, but he skyed to 85 the next day. Moore fired consistent rounds of 80 and 81, while Smith recorded an 84 and 81.

The championship playoffs will be match play with no handicaps. The winners of the semifinal

matches will meet September 18 for the CLGC championship.

In the Presidents Flight, Ed Blackmon leads the field with a net score of 142. Also competing in the handicap match play playoffs are Gary Wydra (149), Gary Castor (150) and Warren Stelmiller (152).

Judging from the qualifying rounds, the First Flight may be the most closely contested of all. Only two strokes separate the four contenders and three are tied with identical scores.

Bill Tenan, Bob Hooper and Bill Althison, all tied with net scores of 144, trailing First Flight leader Bill Irby (142) by two strokes.

The Second Flight is a different story, however. Joe Hibbs (143) qualified nine strokes ahead of runner-up Mike Sanitate (152) and 14 strokes ahead of Wayne Jackson and Ed Donohue at 157.

Blood Flow Velocity Study

(Continued from Page 1) might easily be diagnosed without the discomfort and dangers associated with heart catheterization.

Dr. Rockwell emphasized that this capability is not quite here for clinical use, but states his research has shown the feasibility, and it is his opinion that the use will definitely soon appear.

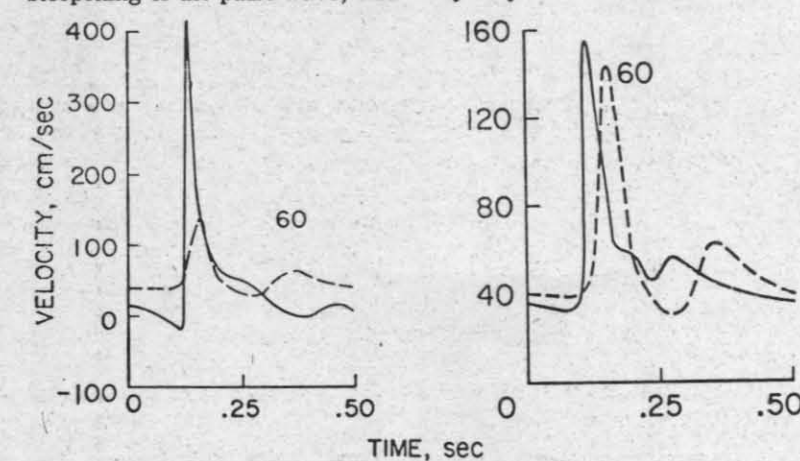
Dr. Rockwell is continuing his research in this area in his own spare time. Future studies will include investigations into further improvement of his model. His full-time work at NWC includes mathematical analysis on various weapons projects currently being conducted at the Center.

In the course of his research, Dr. Rockwell has learned that many familiar features of the natural pressure pulse generated by the heart can be predicted mathematically. The Incisura; the growth and subsequent decay with propagation of the pulse pressure; steepening of the pulse wave; and

the gradual development of the Dicrotic wave, all have this commonality.

The results of his tests were so successful that he and his advisor decided to make changes in the model in order to estimate the effects of different pathological conditions, and to compare the results with normal pulse waves. Among conditions simulated were: Arteriosclerosis; Aortic valve incompetence; Cholesterol deposition; cardiac arrest and restart; and removal of abdominal organs. In all cases, significant changes in the calculated pulse forms were evident on the charts.

In addition, with respect to aortic valve incompetence, the study revealed that shock waves can, in fact, arise in the body when the aortic valve malfunctions to allow a large amount of blood to flow back into the heart. These results offered an explanation of the so-called "pistol-shot pulse, the source of which has long been a mystery.



SAMPLE VELOCITY-TIME patterns in the femoral artery produced by a single heart beat, as predicted by the computer. The dashed lines are for a normal cardiovascular system. Calculations made for a leaking aortic valve (left, solid curve) show large velocity fluctuations when compared to the normal case. If arteriosclerosis is simulated by doubling the stiffness of the arterial wall (right, solid curve), the amplitude is not changed significantly, but the shape of the profile is markedly altered.

Service Families Benefit From Navy Relief Concerned Volunteers Try To Make Life Easier

Abnormal circumstances, created by frequent, sometimes unexpected, transfers to a new community or foreign country; enforced separation of family; failure to receive allotments; illness or death; can assume greater proportions when separated by hundreds and thousands of miles from relatives and friends. Due to conditions of service life, military personnel are more subject to misfortune than their civilian contemporaries.

Recognizing the need for help with these problems, members of the Naval Service have created and supported their own organization—the Navy Relief Society—dedicated to assisting in the exigencies created by service life, and thus the saying: "The Navy and Marine Corps take care of their own."

The origin and basic purpose of the Navy Relief Society are reflected in the two significant words of its name—"Navy" which defines the group who maintain it and for whose benefit it exists, and "Relief" which establishes the nature of the assistance provided.

Local Society
Locally the Navy Relief Society operates as a branch of the Long Beach Auxiliary. The national Society operates through 53 auxiliaries and 60 branches.

The Society functions to aid active and retired Naval and Marine Corps personnel and their dependents; Reserves on active duty; members of the Coast Guard serving as part of the Navy in time of war and their dependents, Reserves on active duty; members of the Coast Guard serving as part of the Navy in time of war and their dependents; and dependents of deceased personnel.

Varied Assistance
Financial aid may be: interest-free loans, outright gratuities, or combinations of the two for emergency leave, funerals, food and rent, emergency dental case assistance, personal needs when pay records are lost, handicapped children, education of dependent children, and vocational training for widows. Educational assistance to dependents of active, retired or deceased members is made in the form of no interest loans up to \$1,000 per year, repayable monthly, six months after graduation.

Other services may include counseling for referral; budget counseling, including pre-marital budget planning; provision of layettes when warranted; assistance when husbands are overseas; and just being a listening post and confidant for people with problems.

Also the Society offers such help as the preventative steps an individual can take in regard to allotments, exemptions, and other financial planning in order to avoid being caught "over a barrel."

Operations of the Society are based on the fundamental principle of helping others to help themselves, rather than assuming individual responsibilities—with the primary concept of "need" as opposed to mere convenience or desire.

Although repayment of as much

assistance as possible, without undue hardship is conducive to maintaining independence—emphasis is upon relief of the situation. If repayment would add to rather than relieve the burden, gratuities are made.

Welfare Cooperation

Navy Relief does not assume responsibilities that would duplicate or substitute for the services of established agencies of which Naval Service families are eligible, but the Society full cooperates with other welfare activities in local communities and utilizes these services by referral.

Funding

Navy Relief is supported entirely by private funds, chiefly contributions from service personnel and civilian friends of the Navy and Marine Corps. It controls its own funds obtained through donations during an annual fund drive traditionally held from May 4 through June 6 in commemoration of the Navy-Marine sea-air battles of the Coral Sea and the Midway.

Profits donated to Navy Relief by the local Thrift Shop (operated by the Women's Auxiliary of the Commissioned Officers' Mess) constitute one of the largest single annual donations to the Eleventh Naval District's Navy Relief treasure chest.

Volunteer Workers

The volume of Navy Relief service could not be accomplished without relying upon the volunteer workers who bring a familiarity with the problems encountered by Naval personnel, for they themselves share the Navy background. An average of 39 cases per month are handled by the local branch—and they have given about 50 layettes each year where cases warrant.

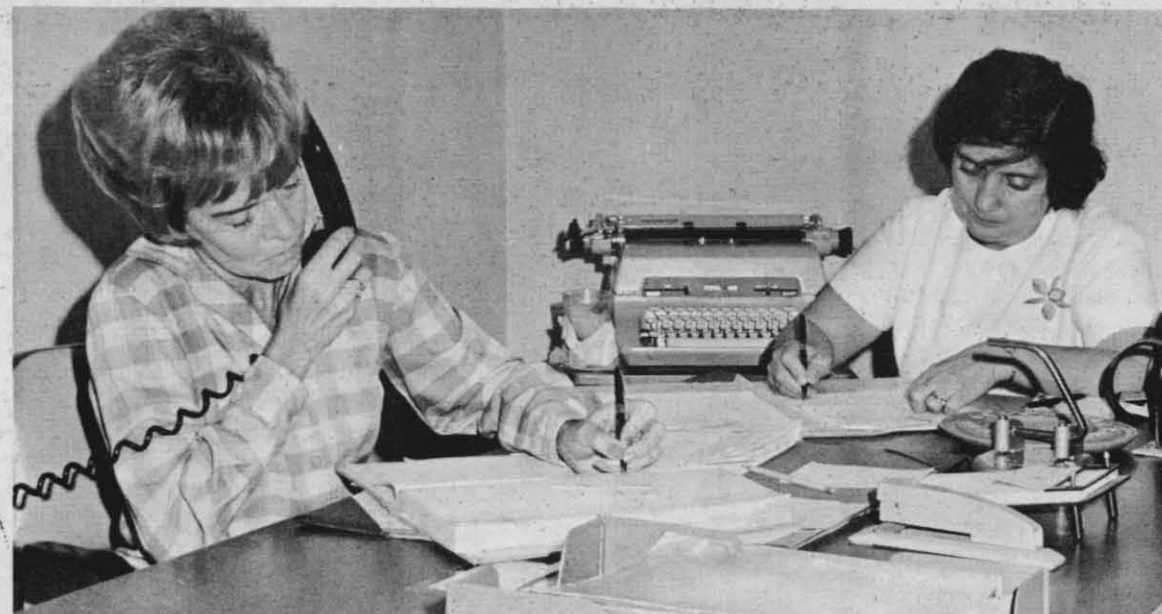
Volunteers are those who recognize their responsibility as a member of the Navy family, who have an earnest desire to help others and are willing to put aside personal interest in order to do so.

Volunteer Recognition

A program of awards for volunteers provides a Certificate of Graduation for completing a formal training course, and the Navy Relief Society pin for regular and faithful volunteers after 100 hours of satisfactory service.

The 600, 1000, 1750, 2500 and 5000 hour pins are awarded to those

(Continued on Page 7)



"HIP"—HIP doesn't refer to the "hippie" generation—it means "Helping Important People" solve problems unique to life in the Service, just as Barbara Schell (l) and Toni Cummings (r) are

doing. They assist regularly at the local Navy Relief Office to help ease the problems of some of the most important people in the world—the military family.



TIME—A PRICELESS GIFT—Katie Chenault, Hours and Records Chairman, indicates the growing list of volunteers who have given 100 hours of their time in assisting the local Navy Relief Office as receptionists, interviewers,

secretaries, and bookkeepers in their desire to help others. Active members who complement the local staff are (l-r): Shirley Cobb, Margaret Teufel, and Mary Speer.

—Photo by PHAN Ronald Gray Mills



NAVY RELIEF LEADERSHIP — Chaplain H. A. MacNeill, Executive Secretary of the local Navy Relief Society reviews the policies for selection of qualified volunteers with Mrs. Jamie McConeghy, Chairman of Volunteer Women.



FOR JUNIOR'S SEABAG—Navy Relief includes assistance to junior too, when needs warrant. Joan Ellefson displays a typical item from one of the layettes.

—Photo by PH3 Toni Curiale

District Receives \$33,000 Withheld From PL874 Funds

At the September 8 meeting of the China Lake School District board of directors, the board was informed that approximately \$33,000 has been received from the State of California under provisions of PL 874. This money was withheld from the District pending the outcome of a lawsuit. It was decided by the Board, in concurrence with the recommendation of the administration, that this income be spent on library books and AV materials to outfit learning resource centers at Richmond, Vieweg and Pierce Schools.

This move will place a Learning Resource Center on each campus — Murray School has one and one is in the process of development at Groves School through an approved federal project.

Principals will be asked to find temporary facilities on the campuses to house the LRC's until the permanent facilities which are included in the Phase 2 of the rehab project are ready.

In other business, the agreement between the District and the City of Ridgecrest on the administration of the seventh and eighth grade after-school sports program was approved by the board.

In addition, they approved District participation in a Kern County sponsored ESEA Title III project on Oral Communications. The approval included authorization for necessary expenses that are related to attendance of a group of teachers and administrators at monthly meetings in the Bakersfield area during the 1970-71 school year.

Coloring Books

Coloring books, offered by Continental Telephone Company, were approved by the board for distribution to second and third graders in the District.

In one other approval, the Board authorized the awarding of one semester unit of salary credit for certificated employees and teacher aides who satisfactorily complete the District workshop on emergency procedures. More details on this subject will be available at a later time.

In other business the Board gave permission to advertise miscellaneous old equipment for sale by bid. Advertisements will be placed in the Valley Independent newspaper and the Swap Sheet. Bids will be received until 4 p.m., September 25, and will be awarded by the Board on October 5.

'Sooners' Return To Club Chaparral

Hank Walker, manager of the Club Chaparral, has announced that "Harold Cox, and the Sooners," will return to the Acey-Ducey for a two night engagement beginning tonight at 9 p.m., and continuing tomorrow night from 9 p.m. until 1:30 a.m. In addition, "The Jim Dandies Square Dance" group will be on hand to entertain club-goers on Saturday night.

Walker stated that all members and their guests are invited to enjoy an evening of fun and dancing. Dinner will be served prior to the start of the entertainment, Walker reminded club members.



REENLISTS FOR THREE — ABEC(DV) John Salli is congratulated by LCdr. R. P. Connell, Commanding Officer of Enlisted Personnel (Acting), upon his reenlistment for three more years. Chief Salli has served with the U.S. Navy

for 18 years as a diver and a member of the Explosives Ordnance Disposal team. Salli's wife Thelma and daughter Cindy (l) and son Christopher, attended the ceremony.

—Photo by PHAN Ronald Gray Mills



LCDR. JOHN D. RASMUSSEN reported last week to VX-5 to assume duties as Air Warfare Officer and Nuclear Warfare Officer. LCdr. Rasmussen received his commission in 1958 and has served with VA-66 (Cecil Field, Fla.), Naval Weapons Test Center (Norfolk, Va.) and VA-86 (Oceana, Va.). The A-4 and A-7 pilot received his B.S. and advanced degree from the Navy Postgraduate School, Monterey, Calif., after attending Oklahoma State University for three years. LCdr. Rasmussen and his wife Faye live aboard the Center with their children Peggy, 7, and Jack, 5.

Cardan Company Receives Contract To Convert Lab

LT(jg) R. H. Huttula, Assistant Resident Officer-in-Charge of Construction, has announced the awarding of a \$435,000 contract to the Cardan Co., Inc., of Los Angeles, for the conversion of the Thompson Aeroballistics Laboratory into a Missile Systems Laboratory. This project, which is part of the Corona Relocation Program, was started on September 14, and is scheduled to be completed in April, 1971.

When finished the structure will house personnel of the Missile Systems Department (Code 42) and the Fuze Department (Code 50).

Connolly Cited For Outstanding Master's Thesis

Bernard F. Connolly, a recent graduate in the University of Southern California Public Administration program held on Center, was this year's recipient of the John M. Pfiffner award for the outstanding master's thesis.

This award is an annual presentation of the USC School of Public Administration. Connolly is one of 126 graduates who earned the master's degree during the past academic year.

His thesis, entitled *Job Satisfaction and Motivation to Remain With the Organization*,



BERNARD F. CONNOLLY

was commended for being extremely well organized and written. His review of the literature relevant to the subject was particularly outstanding.

Connolly stated the purpose of his thesis was to identify and describe the nature of the factors that motivate people to remain with or to leave the organization, to determine the relationship between those variables and sources of job satisfaction, and to examine the nature of the relationship between sources of job satisfaction and job dissatisfaction.

In a questionnaire survey of 125 professional administrative personnel at the Center, these conclusions were among the findings: sources of job satisfaction are primarily intrinsic to the job itself, and sources of job dissatisfaction are primarily extrinsic to the job. Factors extrinsic to the job itself and non-work related factors (such as the community, family, area and climate) were mentioned with greater frequency than intrinsic job factors as motivators to remain with the organization.

Connolly is employed by the Center as Head of Staff for the Weapons Development Department. He has participated in the Public Administration Program both as a student and as an instructor for one of the courses.



CAPT. CHARLES W. FRITZ, Commanding Officer of VX-5, says goodbye to YNC Wallace Richards, who retired last week after a 20-year Naval career. Chief Richards, VX-5 Administrative Office supervisor, came to China Lake in June, 1968.

