

Students Win Music Camp Scholarships

Ten Murray Elementary School students were awarded scholarships entitling each of them to two weeks of study this summer at the Arrowbear Music Camp, in the San Bernardino Mountains. The awards, based on individual talent, were presented by the Murray School Music Parents Club following a competition held at the school.

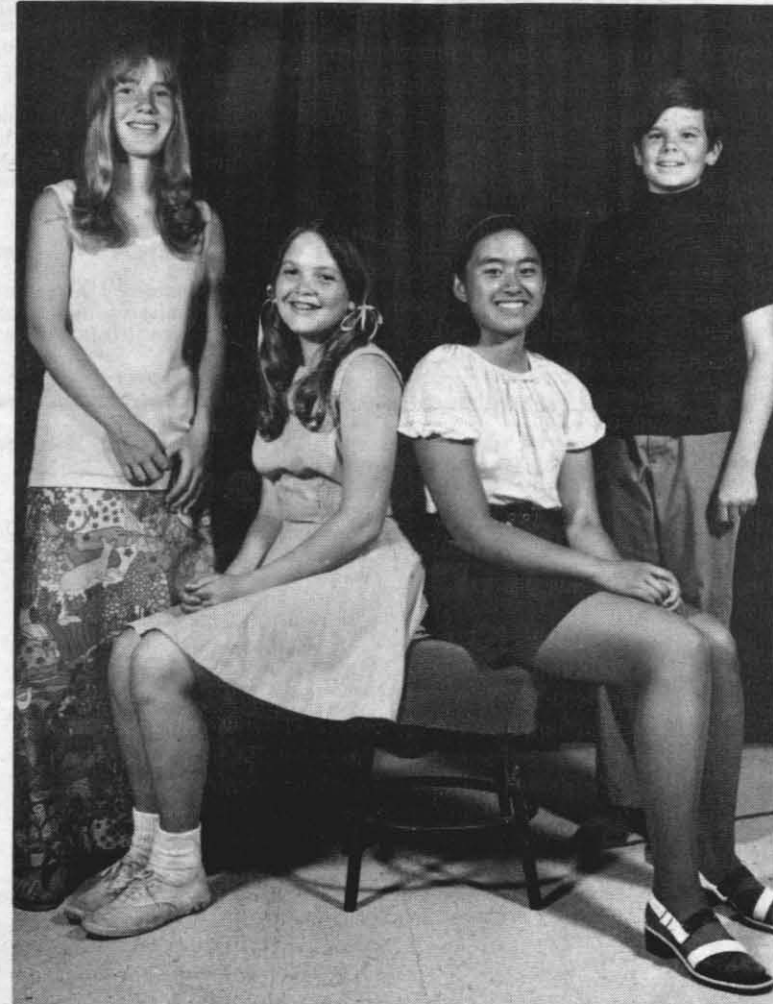
Six instrumental scholarships of \$100 each were awarded to Paul Hado, Terri Leon, Lori Noland, Bill Quinn, Wendy Bennett and Lori Falterman. Four vocal scholarships of \$70 each were awarded to Margaret Cox, Bryan Schuetze, Mary Kay Mathes and Mary Lynn Martin.

Thirty-five students were entered in the competition. Each musician tried out in solo with an accompanist before two local music judges—Russell Parker, head of the Burroughs High School Music Department, and Mrs. Louise Bare, music director for the Indian Wells Valley School District.

The instrumental awards were presented to two students each from the sixth, seventh and eighth grades, while all of the vocal scholarships were awarded to eighth graders. The winners were featured soloists at concerts held on Tuesday and Wednesday, May 30 and 31, at the Murray School cafeteria.

The Music Parents Club raised funds for the scholarships by holding bake sales, a bottle drive, and by participation in the WACOM Christmas Bazaar.

Music instructors at Murray School are Mrs. Alberta Kline (instrumental), and Mrs. Joan Moser (vocal).



WINNERS OF scholarships at Murray School recently, good for two weeks at Arrowbear Music Camp, are shown. Above, instrumental winners are (l-r): back row, Paul Hado, Terri Leon, Lori Noland and Bill Quinn. Seated are Wendy Bennett (at left) and Lori Falterman. In photo at left, the vocal winners are, (l-r): Margaret Cox, Mary Kay Mathes, Mary Lynn Martin and Bryan Schuetze. The scholarships were presented by the Murray School Music Parents Club following a competition held at the school.

Lecture Scheduled About Chuckawallas

The Maturango Museum will present an illustrated lecture on chuckawallas by Dr. Kristin Berry next Wednesday, June 14, at 7:30 p.m. at the Richmond School auditorium.

Dr. Berry will discuss principally the ecology and social behavior of these interesting desert lizards, and in particular the dominance hierarchy, territorial system, tyrants and bullies, and aggression.

Some of these topics are strikingly illustrated in a movie which shows courtship scenes, aggressive behavior, and strange postures.

Dr. Berry is well known locally for her lectures on other small desert animals, the most recent of which was on desert tortoises. She recently obtained her doctorate from the University of California at Berkeley.

Although the lecture is intended primarily for Maturango Museum members, the public is invited to attend.

Applications are due no later than Monday for a free training course for women interested in working as homemakers that will be offered by the Homemaker Service of Indian Wells Valley.

Classes, which will be held at Burroughs High School on weekday mornings, will start on Monday, June 19.

Of those who complete the course, around five of them will be hired by the non-profit Homemaker Service to provide their home management skills to local residents during times of personal crisis. Their rate of pay will be \$2 per hour.

Trained homemakers will lend a hand in cases where a mother is temporarily ill or absent from the home, and children need loving, responsible care. Elderly persons who need help in order to maintain their homes also will be assisted. Application forms for the course

SHOWBOAT

MOVIE RATINGS
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
(PG) - ALL AGES ADMITTED
Parental Guidance Suggested
(R) - RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian

FRI. 9 June
"MINNIE & MOSKOWITZ" (115 Min.)
Gena Rowland, Seymour Cassel
(Comedy) Director-writer John Cassavetes' newest film about a mismatched couple: a Jewish middle-aged dropout and an attractive working girl. Their uphill battle for love and marriage makes faith prevail. (PG)
NO SHORT SUBJECTS

SAT. 10 June
MATINEE
"DR. DOOLITTLE" (145 Min.)
Rex Harrison
EVENING
"LE MANS" (110 Min.)
Steve McQueen, Elga Andersen
(Racing Adventure) The most exciting car race in the world! 24 hours at 200 mph at Le Mans is the backdrop for the thrilling Porsche vs. Ferrari duel with Steve doing his own driving! Strictly for the speed crowd. (GP)

SUN. & MON. 11-12 June
NO SHORT SUBJECTS
"MAN & BOY" (98 Min.)
Bill Cosby, Lefty Ericson
(Drama) Ex-cavalryman homesteads a 14 acre land grant and begins a fight to protect his family from local hostility. When their horse is stolen, Bill and son follow an adventurous chase. Western locale. (G)

"CLOWN OF THE JUNGLE" (7 Min.)
13-14 June
"STRAW DOGS" (114 Min.)
Dustin Hoffman, Susan St. George
(Suspense Drama) Nightmarish thriller about a mild mannered American who settles on his bride's rural English farm and is harassed by ghoulish villagers until the horrifying violent climax of his breaking point. (R)

NO SHORT SUBJECTS
THURS. & FRI. 15-16 June
"THE ARISTOCATS" (78 Min.)
Disney Cartoon Feature
(Cartoon) A wealthy dowager vows to leave her vast fortune to her cats so the butler decides to get rid of them. But he didn't reckon with Tom O'Malley, a roving alley cat, and his pals. A jazz musical filled with FUN! (G)

"BEAVER VALLEY" (32 Min.)

Employee...

(Continued from Page 7) taught the game. "In the early days at China Lake, Don Beresford, Ed Ashburn and myself started the first tennis clinic," he pointed out. "This was through the Kiwanis Club," he added.

Also, while a member of Kiwanis, Jerry was instrumental in beginning the junior bowling activities in this area. He bowls and he still plays tennis regularly.

In addition, during his Kiwanis days, Jerry helped to start Y.E.S. (Youth Employment Service), and was quite active in youth-oriented programs in the valley.

Jerry has five children: Fred, Jerry Sue, Debbie, Gary and Rana. "And don't forget the 14 grandchildren," he beamed proudly.

Jerry and his wife, Elsie, enjoy fishing and camping, traveling and listening to music.



From _____
TO _____
PLACE STAMP HERE

nwc rocketeer

Naval Weapons Center
China Lake
California

Vol. XXVII No. 23

Bluejacket For Month Of June Chosen

Yeoman Second Class Dennis R. Gwin, who is the legal yeoman at Air Test and Evaluation Squadron Five, has been selected "Bluejacket of the Month" for June.

A veteran of 4½ years service in the Navy, YN2 Gwin was selected because of his military bearing, adherence to Navy regulations, and the dedication he brings to his duties in the VX-5 Administrative Office.

As a result of his selection, Gwin will receive a weekend trip to Bakersfield as the guest of the Greater Bakersfield Chamber of



YN2 Dennis R. Gwin
Commerce. While in that city he will stay at the Bakersfield Lodge and take his meals at Clark's Broiler.

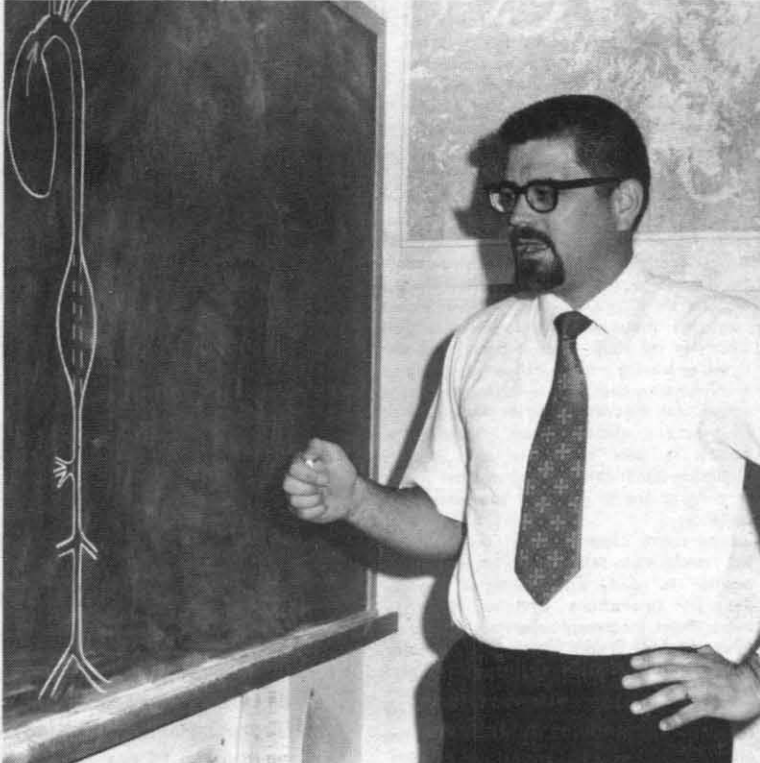
(Continued on Page 3)

Combining Of School Districts Being Studied

A progress report on meetings that have been held to discuss the various alternative means of combining the China Lake Elementary and Indian Wells Valley Union School Districts—if it is decided at a later date that such a move is desirable—was presented at Monday night's meeting of the China Lake School Board.

A committee composed of the top administrators of both local elementary school districts and two members from each district's board of trustees has been collecting data pertaining to finances, election procedures and other matters.

The three possible methods of combining the two elementary school districts are: Unionization—joining the two elementary school districts to form one new district; annexation—the absorption of one school district by the other; and unification—establishing a new school district for (Continued on Page 4)



PROBLEM STUDIED—Included in the research that is being carried out by Dr. Robert Rockwell on the development of a mathematical model for the human circulatory system are attempts to simulate the presence of aneurysms (weakening and ballooning of the arterial wall) in order to investigate the effect on the blood flow pulse. Dr. Rockwell is shown as he studies a blackboard sketch of such a problem, with the aneurysm being indicated by the enlarged area in the middle of what is a section of the aorta—the chief arterial trunk that carries blood from the heart (upper left) to all parts of the body. —Photo by PH2 E. R. Ortiz

NWC Scientist Plays Vital Role in Study Of Circulatory System

A letter of appreciation for permitting the participation of Dr. Robert Rockwell, an NWC scientist, in the third annual meeting of the Biomedical Engineering Society held in Baltimore was received recently by Leroy Riggs, head of the Electronic Systems Department.

Writer of the letter, Dr. Max Anliker, is a fellow scientist with whom Dr. Rockwell has been collaborating on the development of a unique mathematical model for the human circulatory system.

According to Dr. Anliker, who is head of the Biomedical Institute, Zurich, Switzerland, the mathematical model "has an excellent potential of becoming an important diagnostic basis for various cardiovascular diseases."

As a physicist at the Naval Weapons Center, Dr. Rockwell's full-time work includes mathematical analysis on various weapons projects currently being

conducted at the Center. He is assigned to the Analysis Group in Code 35.

In the course of his biomedical research, Dr. Rockwell has been able to mathematically predict many familiar features of the natural pressure pulse generated by the heart.

Dr. Rockwell began his mathematical study of arterial blood flow while doing work on his Ph.D. at Stanford University, and it was there also that he met Dr. Anliker, who is a former professor in the Aeronautics and Astronautics Department at Stanford.

One of the purposes of Dr. Anliker's letter to the head of the Electronic Systems Department was to determine if NWC officials approved the continued collaboration by Dr. Rockwell in this work that is aimed at providing a new and improved means of diagnosing cardiovascular diseases.

In a memo to Dr. Rockwell, his department head (Riggs) assured him of "our desire for you to continue collaboration in this important work."

In this same memo, Riggs also wrote: "Your work in the subject field (biomedical analysis) is obviously well recognized, and I think it is commendable that you have gained this reputation without any adverse effect on your duties in the Electronic Systems Department."

In addition, Dr. Walter B. LaBerge, NWC Deputy Technical Director, commented on the pleasure that he gets when NWC scientists make significant contributions outside their normal areas of interest. He has forwarded a copy of Dr. Anliker's letter to Dr. Joel Lawson, Director of Navy Laboratories, along with a note in which he expressed the hope that

(Continued on Page 3)

NWC Technical Director Speaks At Burroughs High Graduation

"You are the best. You are better than all who have gone before you." So said H. G. "Hack" Wilson, NWC Technical Director, to the 1972 graduating class of Burroughs High School at the 27th annual commencement ceremony, held last night on the Burroughs athletic field.

More than 2,000 parents, relatives and friends of the graduating seniors filled the bleacher seats at the ceremony which marked the completion of an important phase of academic endeavor for 360 Burroughs High

School seniors. Wilson, who awarded the diplomas, also told the class: "You are now the members of the 'New Second Generation.' You'll notice," he pointed out, "that I didn't say 'Now Generation.'"

Wilson told the graduates that "... in 15 years you will be the 'New Establishment.' Most of you will have started on the process of providing for the next 'Second Generation.'"

He predicted that the graduating class will be "... somewhat less interested in the material things of

living, and that you will be more interested in the fundamental values of life (whatever they may be to each of you), and that you will be examining and re-examining parts of our culture that you consider important."

The NWC Technical Director concluded his remarks by saying "We are confident that you will evolve an increased understanding of the problems facing us and that you will make major contributions to the answer of many of the questions of today."

(Continued on Page 3)



TOP SCIENCE STUDENT—Special guests at the spring dinner meeting of the China Lake Branch of the Research Society of America (held May 30) were Walter Grams, outstanding science student in the Burroughs High School Class of 1972, and his parents, Mr. and Mrs. John E. Grams, of Ridgecrest. The local high school senior (second from right) is shown being congratulated by Donald W. Moore, president of the local branch of RESA, who presented him a copy of the Handbook of Physics as a gift from RESA. Young Grams will enroll as a student at the California Institute of Technology (CalTech) in the fall, and plans to major in mathematics. —Photo by ADJ2 Gary Kynard

Public Invited To College Graduation

The public is invited to attend commencement exercises at which Associate in Arts degrees and a number of high school diplomas will be awarded by the Desert Campus of Bakersfield College. The ceremony is scheduled tonight at 8:15 in the Burroughs High School Lecture Center.

Immediately following the program, a reception honoring the graduates and their guests will be held in the high school library.

Music will be provided by the trio of Paul Riley, Andrew Victor and Robert Ferguson.

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- Fund Drive Enters Final Week . . . 4
- Centerwide Radar Meeting Set . . . 4
- 8th Grade Graduation 5
- Sports 6
- Navy Chief Receives Medal 7
- Music Camp Scholarships 8



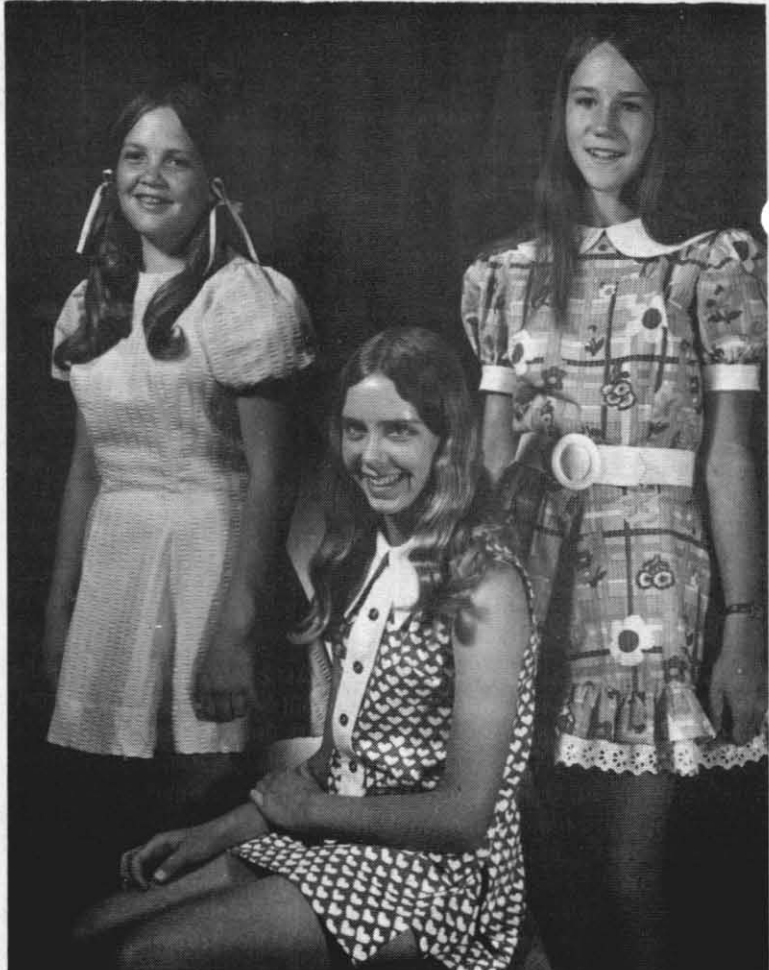
NEWLY-ARRIVED—Lt. (jg) Doyle Edward Holmes, a recent arrival from the USS Enterprise, is shown receiving the insignia of a Lt. (jg). From Capt. R. E. McCall, NAF Commanding Officer, left, and CWO2 F. C. Artley, right, during a frocking ceremony, which allows an officer to wear the designated rank of his promotion before the actual promotion is permanent. Lt. (jg) Holmes is a mustanger, having enlisted in the U.S. Navy in October, 1955, as an airman recruit. He was made a Warrant Officer in 1969 and held the rank of CWO2 prior to his recent promotion. He is the new Maintenance Control Officer at NAF. The Ponca City, Okla., native will soon be joined at China Lake by his wife, Robbie Elaine, and son Jerry Don, 13, who will remain in Ponca City until the end of school this month.

PROMOTIONAL OPPORTUNITIES

Applications for positions listed in this column will be accepted from current NWC employees and should be filed with the persons named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment Division, Code 652, Extension 2069. Current applications (SF-171) or Standard Form 172 should be submitted bringing your work history up to date if one has not been submitted within the last 6 months. The fact that positions are advertised in this column does not preclude the use of other means to fill these positions. Part of the ranking process of those rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and their recent previous supervisor. Selection shall be made without discrimination for any nonmerit reason.

Mail and File Clerk, GS-305-5, PD No. 7250049, Code 50—This position is located in the Fuze Department. Incumbent is responsible for processing of all incoming and outgoing mail for the Fuze Department. Serves as the classified material control point for all classified material, mail, reports, etc. entering or leaving the department. Establishes and maintains files for the Fuze Department offices. Job Relevant Criteria: Knowledge of mail and file. Ability to work independently. Ability to deal effectively with people. Minimum Qualification Requirements: 1 year of general and 2 years of specialized experience.

Supervisory Clerk (Typing) GS-301-4, PD No. 7284010, Code 8412—The incumbent of this position is head, Visitor Control Branch, Security Operations Division, Security Department. Incumbent supervises the overall function of the branch, which has major responsibility for processing official and unofficial visitors to and from the Center. This also involves processing all official visits by foreign nationals and assisting in the preparation for foreign travel of Center employees. Incumbent must establish procedures and policies not governed by the Security Manuals or NWC instructions and is responsible for writing and keeping current all official instructions pertaining to the function of the branch. Incumbent also trains and supervises the information receptionists. Job Relevant Criteria: Must be familiar with security classification and clearance regulations. Must be able to express himself in writing. Capable of functioning under pressure and with little direct supervision. Must possess tact and diplomacy in dealing with persons at most organizational levels and with high ranking off-center personnel. Minimum Qualification Requirements: 1 year of general and 2 1/2 years of specialized experience.



4H CLUB MEMBERS DO WELL—Three members of the Chaparral 4-H Club of China Lake rated top honors at the Kern County senior dress review held recently in Bakersfield. Mary Kay Mathes (at left) and Theresa Pannuto (seated) were awarded gold medals for being among the top 25 per cent of the eighth graders who modeled the garments which they had made. Kristina Fowler (at right) received a dress review medal from the Simplicity pattern company for placing among the top six girls in Kern County in the senior dress review. The girls were judged on their modeling ability, and the accessories used, as well as on the appropriateness, style and fit of the garment. The dress review culminated a year of clothing project work by the local 4-H club members.

Code 3024—Develops and analyzes complex mathematical models pertinent to the development or modification of missile systems such as AGILE and AIM-9L. Creates and applies digital, analog or hybrid simulations of the mathematical models in this work. Within design constraints, optimizes performance of missile systems with respect to anticipated environments and situations. Applicant must have a general knowledge of theory of control systems, applied mathematics, physics and the practical use of digital, or analog or hybrid computers. He must be able to apply this broad background to the analysis, development and simulation of non-linear models of weapons systems or their components. Minimum Qualification Requirements: As required in X-118. Job Relevant Criteria: Specialized experience in application of theory of control systems or in development of mathematical models and simulation of weapons systems and components.

File applications for above with Elizabeth Sodergren, Bldg. 34, Rm. 206, Ph. 2676.

Purchasing Agent, GS-1105-5, PD No. 7025011-5, Code 2522—Procures standard commercial items and services primarily utilizing purchase orders, delivery orders, basic ordering agreement, blanket purchase agreement and imprest funds. Is responsible for documentation of purchases to justify the purchase method utilized. Minimum Qualification Requirements: Two years of general experience required consisting of clerical, administrative or technical experience which has demonstrated general knowledge of purchasing procedures, practices or regulations. One year of specialized experience which provided familiarity with regular business and trade practices in buying and selling such as selling terms and conditions, discounts, delivery schedules and packing and packaging practices. Job Relevant Criteria: Experience in the following areas: Basic contracting techniques, soliciting quotations, and determining fairness and reasonableness of cost of items. Experience demonstrating use of following purchase procedures: Purchase order, delivery orders, basic ordering agreement, blanket purchase agreement and imprest fund. Knowledge of documentation required to justify purchase actions.

Editorial Clerk (DMT) GS-1087-4 or 5, PD No. 250039 Am. II, Code 6052—Performs both secretarial and editorial duties in the General Research Branch, Chemistry Division. From rough drafts or recordings, edits and types NAVWEPS reports, Technical Memoranda, open literature publications, and reports on seminars, conferences and scientific meetings. In addition, will prepare correspondence, occasionally literature searches, answers telephone, files, distributes incoming mail, and makes travel arrangements for members of the branch. Minimum Qualification Requirements: GS-4 requires one year general office experience and one year specialized experience. Specialized experience must include experience performing dictating machine transcribing duties. GS-5 requires one year general office experience and two years specialized experience. Specialized experience must clearly demonstrate that applicant furnish editorial assistance in editing and

General Engineer, GS-801-13, 14, PD No. 7240036, Code 4007—This position is located in the CHAPARRAL Program Office, Weapons Development Department. Incumbent will act as senior advanced point defense engineer reviewing and coordinating development efforts in areas of dual mode seekers propulsion systems, vertical launch concepts,

advanced fuze concepts, etc. will provide review of NAVORD Advanced Point Defense planning documents and program elements. Job Relevant Criteria: Familiarity with NAVORD Systems Command Management organization and other Navy facilities in the area of ship weapons systems. Three years experience in the area of weapon development from concept formulation through fleet use is required. Experience shall include: development, production, fleet support, reliability, maintainability, documentation, test and evaluation. Minimum Qualification Requirements: In accordance with CSC Handbook X-118. Applicants who responded to this ad 3-17-72 through 3-24-72 need not reapply for further consideration.

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Safety Magazine To Be Distributed

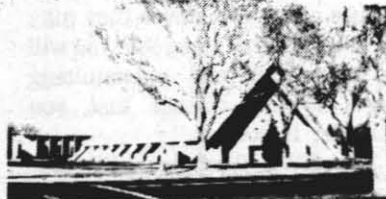
Commencing with the Summer 1972 issue, the Family Safety Magazine once again will be delivered to personnel of the Naval Weapons Center.

This outstanding safety publication will be mailed to home addresses as a family service sometime after June 15.

The mailing lists have been compiled from the most recent telephone directory listing, however, anyone who discovers his or her address is incorrect, or who has changed address, should call the Safety Department, Ext. 2386 or 2362, to insure receiving a copy of the magazine.

The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake Lake, California RAdm. W. J. Moran, USN NWC Commander H. G. Wilson Technical Director C. E. Van Hagan Head, Technical Information Department



DIVINE SERVICES

PROTESTANT Sunday Worship Service 1000 Sunday School All Ages 0830 Sunday Evening Bible Study 1900 Wednesday Bible Study 1130 Wednesday Teenage Bible Study 0645 Sunday School Classes are held in the Chapel Annexes 1, 2 & 4 (Dorms 5, 6 & 8) located opposite the Center Restaurant. Communion - first Sunday of the month

ROMAN CATHOLIC

MASS Saturday 1700 fulfill Sunday obligation Sunday 0700 0830 1115

BLESSED SACRAMENT CHAPEL

MASS Daily except Saturday 1130 First Friday ONLY 1130 1700 First Saturday ONLY 0830

CONFESSIONS

Saturday 1545 to 1645 Sunday 0800 to 0825

CCD CLASSES

Sunday Kindergarten through 9th grades 1000 Wednesday 7th and 8th grades 1900 As announced 9th through 12th grades

Note: The Chapel Nursery is located in Chapel Annex 1, Room 4, across from the Center Restaurant, and is open without charge for children of parents attending Catholic Mass or Protestant Worship Services.

JEWISH SERVICES

EASTWING ALL FAITH CHAPEL Friday 1st and 3rd ONLY Sabbath Services 2000 Sabbath School 1000 to 1200

UNITARIANS

CHAPEL ANNEX 95 Services 1930

PH1 D.C. Manderscheid, PH2 E. R. Ortiz, PH2 G. L. Taylor, PH3 R. G. Mills, PH3 D. W. Yeatts DEADLINES: News Stories Tuesday, 4:30 p.m. Photographs Tuesday, 11:30 a.m. The Rocketeer receives American Forces Press Service material. All are official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NavExos P35, revised July 1959. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense. Phones 3354, 3355, 2347

Employee In the Spotlight

"Jerry" Whitnack was destined to be a chemist. As a baby, his mother would bathe him in what Jerry believes to be the silver iodide solution his photographer father used to wash prints.

"In fact, my baths were instrumental in my father buying his first photography shop," Jerry recalls. "My mother got tired of swishing me around among the photographs."

Even a promising music career as a trumpeter and orchestra leader couldn't sidetrack Jerry from his destiny. Following his graduation from high school in Elkhart, Ind., Jerry "kicked around" the country for four years, at first playing trumpet in various bands and beer gardens, and finally leading his own band, "Gerry Whitnack and The Nick-Nacks."

"One night I was thinking over my prospects as a musician, and I suddenly decided, then and there to go to college and pursue a career in chemistry," the slim NWC chemist laughed. "I got to thinking of how ridiculous I would look as an old trumpet player and decided that the advantages in chemistry were far greater."

So, in 1934, Jerry entered Wittenberg College, in Springfield, O., and majored in chemistry and mathematics. He received his bachelor's degree in 1938 and went to work for the Monsanto Chemical Company, Dayton, O., where he was employed in the research department until 1947.

In April of that year, Jerry began his work history at the Naval Ordnance Test Station (now NWC) as a chemist in the Chemistry Division, Research Department. Twenty-five years later, he is still there, (he is now head of the Electro-Chemistry laboratory), and his accomplishments could fill a large volume of "selected reading."

According to Dr. Arnold Adicoff, head of the Polymer Science Branch, who was sitting in for Dr. W. S. McEwan, head of the Chemistry Division, Jerry "... has, because of his excellent and prolific publications, received national and international recognition for his work in various aspects of chemical and electrochemical research. Some of his earlier research has led to more accurate, rapid, and simpler analyses of propellant and explosive materials," Dr. Adicoff commented.

Jerry has authored more than 40 publications since 1944 and since 1946 has delivered more than 20 papers at symposiums and at universities all over the world.

Recently he became involved in determining the extent to which local water sources are polluted with toxic materials such as lead and arsenic. Jerry performed examinations of the water from Edwards Air Force Base and from Boron and did much to dispel rumors about poisoning of the water. In addition, he has conducted similar investigations of the water supplies of China Lake and Ridgecrest.

The latter part of this month Jerry will chair a session of a symposium on Advances in Electrochemical Science at Fort Collins, Colo. During the meeting he will deliver an address on the determination of lead and arsenic



Gerald C. Whitnack

in urine and blood samples with an accuracy and sensitivity heretofore unobtainable.

Jerry's work is so outstanding, that, according to Dr. Adicoff "... consideration is being given to the use of the method by the National Science Foundation in a VISTA program in which children and adults in several key cities will be examined for evidence of, and extent of, lead poisoning from various sources."

In addition to the metallic poisoning problem, he will address his attention at the meeting to the low level analysis of digoxin (a cardiac glycoside used to stimulate heart muscle) in the blood of patients undergoing treatment for cardiovascular problems. Jerry has developed a simple, accurate method for the determination of this chemical in whole blood samples.

"There have been many highlights in my life," Jerry said. "But the ones I treasure the most are the trips I made to deliver papers abroad." In 1957, Jerry was invited to deliver a paper on "The Millicoulometric Method for N-values," at the XVI International Congress of Pure and Applied Chemistry in Paris, France, and in July, 1964, he was invited to the Third International Congress of Polarography in Southampton, England. While there, he delivered a paper on "Application of Single Sweep Polarography to the Analysis of Trace Elements in Sea Water."

In July, 1966, he delivered two papers, one at the Fourth International Congress of Polarography in Prague, Czechoslovakia, and one at the Institute Ruder Boskovic, in Zagreb, Croatia.

In February, 1967, Jerry was asked to take part in a cruise which was a joint effort between the U.S. Navy's Hudson Lab, at Columbia University, and himself. "I loaded my equipment on the USS Gibbs, a Navy research vessel, and we cruised from Balboa, Panama to Port Callao, near Lima, Peru. We tested the equipment aboard ship and studied trace elements in the ocean," he added.

Jerry has been the chairman of the Electrochemical Society and has held offices in both the national and local chapters of the American Chemical Society. He has also been a member of RESA, Theta Chi Delta, the American Association of Advancement of Science and locally, the Kiwanis Club.

Jerry has played a lot of tennis, and during his college days was captain of the Wittenberg team for three years. In addition, he played on the Monsanto tennis team in inter-city tournaments, and also



RECEIVES NAVY ACHIEVEMENT MEDAL—Jeanette Moore pins the Navy Achievement Medal on her husband, CWO-2 P. "Mike" Moore, while Rear Adm. W. J. Moran, NWC Commander, looks on. CWO Moore's citation read, in part: "... while serving with Helicopter Attack (Light) Squadron 3, (in Vietnam) he performed his duties in an exemplary manner and ... significantly enhanced the combat readiness of his squadron." CWO Moore is presently serving as the Aviation Supply Officer at NWC. This is his second tour of duty at China Lake. He was assigned here previously from August 1969 to July 1971. He is a 21-year Navy veteran.

Hail and Farewell

For the month of May, 1972.

NEW ARRIVALS-CIVILIAN

Code 173—Jack E. Fulcher; Code 2575—Elizabeth M. Owen; Code 3022—Dorothy V. Lawrence; Code 3053—Michael J. Machowsky; Code 3507—Lawrence W. Bayne; Code 3524—Robert G. Koken; Code 3554—Robert S. Lackaye; Code 4013—Ferrell G. Bailey; Code 4014—Richard D. Jeffrey; Code 4091—Jerry C. Hinman; Code 4573—Michael J. Ripley; Code 5043—William F. Stuart; Code 5514—Raymond Schiltz Jr.; Code 5531—Rige H. Peters; Code 5532—Franklin D. Harris; Code 5552—William T. Huddleston; Code 5553—Marlan L. Carter; Code 5566—Dan J. Buckley; Code 6022—Norbert W. O'Hara; Code 6051—Thomas Griffith; Code 6521—Marcia J. Amundson and Marcia N. Kappelman; Code 6561—Ronald A. Daigle; Code 657—Ronald J. Rothberg; Code 70411—Harold E. Van Dyke; Code 70415—Alejo Quintan; Code 70431—Ovando J. Cowles and Elb Montgomery Jr.; Code 8412—Juan Franco; Code 8822—Juanita D. Felton and Carol A. Johansen.

DEPARTURES-CIVILIAN

Code 1744—Anita M. Elwood and Elsie M. Partridge; Code 3014—John W. Gardner Jr.; Code 3562—Gary L. Branson; Code 4533—Gaylord L. Oldfield; Code 4533—Curtis T. Garrett; Code 55172—Corliss D. Lux; Code 5568—Francis C. Wentink; Code 5721—Ralph K. Bucher; Code 5722—John E. Sprouse; Code 605—Willard Kirk; Code 6052—Charles M. Drew; Code 6521—Helen E. Shiles and Marcia P. Wilson; Code 70411—Albert M. Nunes; Code 70412—Ralph L. Miller; Code 70413—Lewis M. Covey; Code 70415—Eugene R. Rains; Code 70421—Earl Hansen; Code 70781—Claude M. Harrell; Code 7513—Raymond E. Campbell;

NWC OFFICERS

Arrivals: Capt. Tommy C. Wimberly, Code 14; Ens. Leonard Murphy, Code 702. Departures: Capt. A. E. May, Code 02; Lt. Cmdr. Jack C. Quinn, Code 5509; Lt. (jg) Reino H. Hufnula, Code 702.

NAF OFFICERS

Arrivals: Lt. John H. Gutley, Lt. (jg) Doyle Holmes and Lt. T. D. Ware. Departures: Lt. Cmdr. Richard L. Partridge and Lt. Robert H. Woller.

ARMY OFFICERS

Arrivals: ATAN J. R. Mendenhall. Departures: AN Thomas R. Morgan, AZ1 William R. Murkle and YN3 Douglas S. Wilson.

VX-5 ENLISTED PERSONNEL

Arrivals: AGAN S. D. Biggerstaff, AG3 S. J. Bruker, SR M. E. Coley, PCSN G. S. Lucas, AZ3 K. R. Peck, PRAN J. H. Pietras, AZ3 D. G. Smeed and SR J. H. Webb. Departures: AEC P. R. Badovinac, ADJ3 M. W. Gregory, AEC D. C. Presson and AN S. M. Sarroman.

ARMY LIAISON OFFICE

Arrivals: Lt. Col. Richard F. Boyd. Departures: Lt. Col. G. L. O'Grady.



LESNIAK RETIRES—Chief Radioman Leonard T. Lesniak, a 24-year Navy veteran, and his wife, Bernice, are piped "over the side" by his peers during a recent retirement ceremony at the NWC Administration Building. Chief Lesniak, who served the final three years of his enlistment at NWC, worked in the Naval Communications Center. His retirement plans include living and working in the local area. The Lesniak Naval tradition has been continued by the chief's oldest son, Allan, who enlisted one year ago. Mrs. Lesniak is an employee of Code 1764.

Photo by PH2 E. R. Ortiz

Upsets Abound in Annual Spring Tennis Tournament

Last weekend the China Lake Tennis Club opened the first round of its annual Spring Tennis Tournament. The tournament, which will be continued this weekend, when semi-final and final matches will be played, was not without its surprises.

No. 1 seeded Dick Boyd barely won a tough match against Chuck Beatty, the young high schooler and last spring's champion in the men's singles, 6-3, 1-6, 6-3.

In the women's singles, No. 2 seeded Janie Cleaves was upset by Gail Falkenburg, 6-0, 6-0, and Nancy Webster suffered a similar fate at the hands of Karen Newmeyer, 6-4, 6-1.

In the first round of the mixed doubles, unseeded Ted Ribultan and Lauri Baker came out on top over second seeded Nick Schneider and his partner, Sherry Miller.

In the men's doubles, however, the four top seeded teams made it into the semi-finals. There was one close match, though. Schneider and Bill Campbell had to fight their way to a 6-4, 6-7, 6-4 win over the team of Chuck Beatty and Ted Ribultan.

The second seeded pair in the women's doubles, Mrs. Cleaves and Doe Keihner, were upset by Mrs. Falkenburg and Elena Vitale, 6-2, 6-1.

Three of the semi-final spots in this bracket have been determined. The final slot will be decided on Saturday when B. J. Peck and Laurie Baker meet Cindy Campbell and Debbie Hazen.

In the novice division, Cary Hattabaugh and Pat Netzer made it safely into the finals and will confront each other tomorrow on the China Lake courts. Competing for the women's singles title will be Jackie LaBerge and Barbara Fay.

Winners in the Novice division doubles categories were Netzer and Hattabaugh, who defeated Gerry Inman and Dave Schmeer for the title, 8-6, 3-6, and 6-4. In the women's doubles, the title went to Myrna Martin and Debbie Fletcher, who were victorious over Julie Baker and Barbara Fay, 6-4, 6-1.

The open division lineup for this

weekend will be as follows:

Men's singles—Dick Boyd, Jim Smith, Bernie Wasserman and Gary Fry; women's singles—Sherry Miller, B. J. Peck, Gail Falkenburg and Karen Newmeyer; mixed doubles—Dick Boyd and Janie Cleaves, Jim Smith and Esther Hagist, Ted Ribultan and Laurie Baker, and Bill Campbell and Cindy Campbell; men's doubles—Gary Fry and Bernie Wasserman vs. Jim Smith and Duncan Cleaves, Dick Boyd and Jim Stanford vs. Nick Schneider and Bill Campbell; women's doubles—Sherry Miller and Esther Hagist vs. Marla McBride and Nancy Webster, and the winner of the B. J. Peck and Laurie Baker vs. Cindy Campbell and Debbie Hazen quarter-final match will meet Gail Falkenburg and Elena Vitale.

Following tournament play on Sunday, an awards dinner will be held at the Commissioned Officers' Mess, beginning at 7 p.m. Prices for the New York steak dinner will be \$2 for Tennis Club members and tournament participants, and \$3.50 per person for all others.

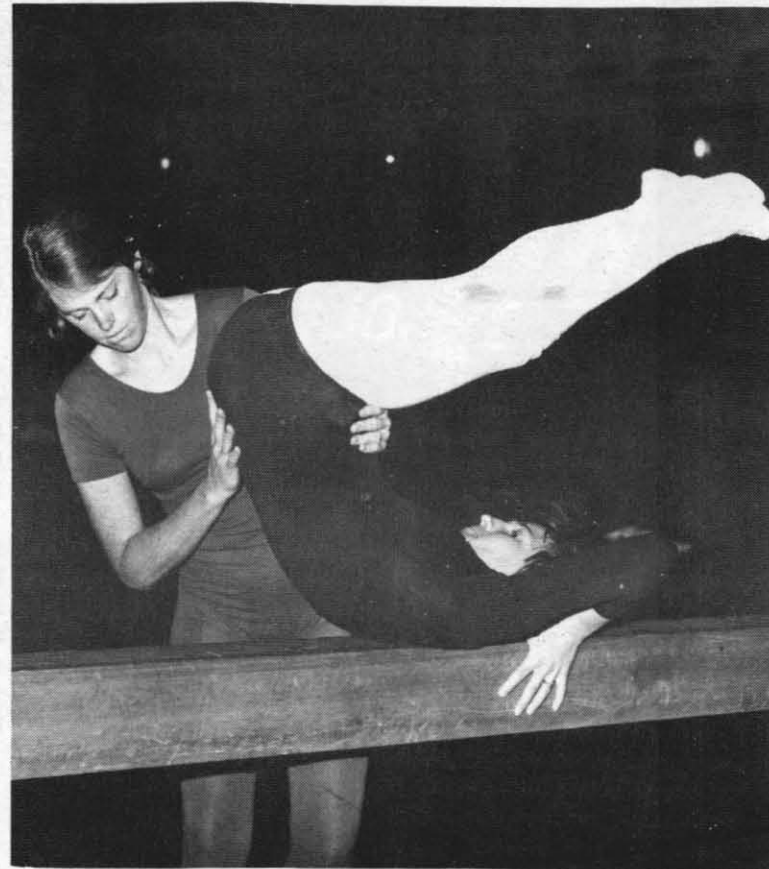
Reservations, which must be received no later than tomorrow, can be made by signing up at the tennis courts.

Partner's Golf Tourney Slated At Local Course

A partner's golf tournament has been scheduled for Saturday, June 17, at the China Lake Golf Club.

Individual golfers may choose their own partner for the event. The only requirement is that all contestants be members of the Southern California Golf Association and have a certified handicap. Entry fee is \$3 per person.

Format for the 18 hole event is partner's best ball on the odd numbered holes, and scotch on the even numbered holes. For those golfers not familiar with a scotch-type of play, the partners alternate hitting the ball until the ball is holed out.



ON THE BALANCE BEAM—Stephanie Latimer is "spotting" for Marian Wilcox during a practice session as Mrs. Wilcox tries a forward roll on the balance beam. The two women instruct a gymnastics class each Wednesday night from 7:30 to 9:30 at the Burroughs High School gymnasium. The class, which is open to women above high school age, is sponsored by the Ridgecrest Recreation Department. Approximately 15 students attend the sessions.

—Photo by PH3 D. W. Yeatts

Tigers Grab 1st Place In Little League Major Div.

The Tigers rode two straight victories to the first place position in the major division of the China Lake Little League last week.

Locker Users Must Contact Gym Sec'y

Bill Nicol, Intramural Sports Director, has recently announced that all military personnel assigned lockers in the Center gymnasium must contact the gymnasium's secretary before June 20 regarding the locker.

The secretary must be informed of the locker number, who it is checked out to and that person's unit, and the estimated date of departure to another duty station.

Their 4 and 1 won-loss record places them one game in front of the second-place Red Sox.

Bob Gritton's team got there by first whipping the Red Sox 7 to 1, behind the brilliant pitching of Johnny Cheize (he struck out 11 and walked none), and then ripping the Giants, 9-3. Mike Flores carded the latter victory.

The Red Sox won their second game of the week as young Jess Moreno pitched another no-hitter. He blanked the Dodgers, 13-0.

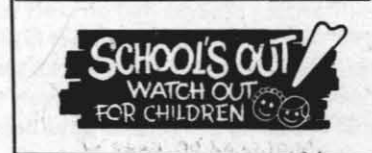
In other games played, the Yankees narrowly defeated the Pirates, 4-3, with Danny Myers notching the win and Russ Pruel, of the Dodgers, hit a home run which proved to be the margin as the Dodgers defeated the Pirates, 5-4. Frank Clark was the winning pitcher.

JD's Wranglers Undefeated In Women's Softball

The JD's Wranglers continued their undefeated string as they notched another victory in Women's Softball League play, this time over the Senn's Sneakers, by a score of 19 to 9.

Cheryl Dabbs smacked two triples to lead the Wranglers' offense. The game took place last Friday. In the other half of the twin bill, the Saints, led by Terri Giles, who went 4 for 4, crushed the Roadrunners, 18-2.

This past Monday, the Bamboo Club went out of sight as they literally buried the Sandpipers, 39-1. Charlotte Spencer and JoAnn Dunnick each smacked home runs to lead the Bamboo Club's hitting attack.



—Photo by PH2 G. L. Taylor



By Jack Lindsey

This past Monday night in the fast pitch Intramural Softball League, Texas Instrument's pitcher Tony Scanlon threw his best game in 2-3 years. The gem came against the league-leading Ace-TV team, which won the game 1-0.

Unfortunately, Tony was doubled up on a pop fly in the fifth inning, but I think the real culprit was ineffectual coaching. The third base coach, Fay Hoban, should have held Tony on the routine pop, which went to the Ace shortstop.

In the final two innings of the game, TI needed one run to tie and two to win and Coach Hoban was giving his hitters instructions to bunt, open their stance in an attempt to draw walks, etc., none of which worked against Burt Galloway.

I think TI should have been hitting away and the fans were really on the coach for his poor advice.

In the first game of the evening, NAF won handily against the Valley Merchants, despite a good showing by losing pitcher Billy Brown.

In games played last week, Texas Instruments nipped A&L Tire, 5-2, and Ace defeated NAF, 9-1. Bud Eyre Chevrolet creamed Texas Instruments, 10-0, and A&L Tire beat NAF with very little trouble, 16-9. The final game of the week saw Ace-TV whip the Valley Merchants, 8-3.

Brightwell Finds Line

Thad Brightwell rolled a 300 game last Monday afternoon while warming up for league play. The perfecto came on alleys 7 and 8, the two lanes he had to use during the league. However, his league scores weren't quite that good.

Hoop-AH!

Bob Hooper and his partner, Joe Strichek, netted a neat 127 last weekend in a golf tournament held at the Antelope Valley Golf Club. The low score was good for nothing.

"I've never seen so many sandbaggers playing on one course," the local long-ball hitter remarked. It took 119 to win.

Speaking of golf tournaments, we've got one coming up on June 17 at the local course. It should be an interesting one.

Junior Bowlers To Be Presented Awards

Junior bowlers from China Lake will be presented trophies and league awards for the past season tomorrow at Hall Memorial Lanes.

Times for the presentation ceremonies are as follows: Little Giants, 1:30 p.m.; Ban-tams, 2:30 p.m., and Junior-Senior bowlers, 3:30 p.m.

Bluejacket...

(Continued from Page 1)

In addition, Gwin will be presented with gift certificates and discount coupons from Bakersfield merchants who participate in the Bluejacket of the Month program.

Prior to leaving the local area, Gwin will be loaned a new Ford from Desert Motors to use on the weekend trip.

The Hobbs, N. Mex., native came to China Lake two years ago from duty aboard the USS Long Beach, a guided missile, nuclear-powered cruiser. While on the ship he made two cruises to Southeast Asia.

"I was in charge of training and education for the ship's company," he said. "It was good duty and good background for what I hope will be my future career in the Navy," he stated.

Gwin's plans include attending Admiral's Flag Writer's School. He feels his duties as a legal yeoman are a "... great help in realizing that ambition."

Sometime this month Gwin will attend a legal school in San Diego, for one week. "I feel the opportunity I have had at VX-5 has aided my Naval career," he said. "When I first entered the Navy I was pretty 'wet behind the ears.' Duty like the one I have at present has helped to mature me," he pointed out.

Gwin is single and his hobbies and pastimes reflect that status. "I like deep sea fishing, golfing and playing volleyball," he said. He also is an assistant coach on the Orioles, a Minor Division Little League baseball team.

"I really like the Navy," Gwin declared. "I enjoy traveling, and I enjoy the excitement of being a part of today's modern Navy."

Graduation...

(Continued from Page 1)

The program was highlighted by yet another speech, this time by Sandra Schwarzbach, a lifetime CSF member and winner of the Bank of America's Achievement Award in the field of Fine Arts.

Miss Schwarzbach delivered the farewell address from the Class of '72, which included remarks from Carl Sandburg's advice to a son nearing manhood, as she recited Section 9 of the poem "The People, Yes."

"What shall he tell that son? 'Life is hard; be steel; be a rock... Or should he say, 'Life is a soft loam; be gentle; go easy.' A tough will count. So does desire. So does a rich soft wanting," Sandburg advised.

The graduation ceremony began with the playing of the processional, "Pomp and Circumstance," as the cap and gown-clad graduates marched onto the field to take their places in front of the speaker's platform. Music was provided by the Burroughs High School band under the direction of Russell Parker.

Following the Invocation by Bishop J. Gordon Shumway, of the Church of Latter-Day Saints in Ridgecrest, Wayne Becketl, another outstanding scholar, gave a welcome address.

During the evening's program, the school's concert choir (also under the direction of Russell Parker) sang two songs—"I'd Like to Teach the World to Sing," arranged by Milt Rogers, and "I May Never Pass This Way Again," arranged by Ray Ringwald.

The program closed with a benediction by Dr. Aldean Washburn.



CAPT. MAY HONORED—The retirement of Capt. A. E. May (at right), Deputy Commander of the Naval Weapons Center, following 30 years as an officer in the U.S. Navy, was celebrated during a farewell party held on May 31 at the Commissioned Officers' Mess. On this occasion, Capt. May received a Letter of Commendation from Rear Adm. W. J. Moran, NWC Commander, who is shown shaking hands with him, as well as a Meritorious Service Medal that was presented to him by RADM. Moran on behalf of the President of the United States.

Annual Navy Relief Fund Drive Enters Final Week

There is just one week left to contribute to the 1972 Navy Relief Fund Drive and be eligible to receive one of the three grand prizes to be given away next Friday, June 16.

At the end of the third week in the campaign, Cmdr. R. C. Good, coordinator of the drive, announced that keymen had collected \$6,421. "This total is about the same amount collected after three weeks last year," Cmdr. Good stated.

In addition, he announced last Friday's winners of weekly prizes. They are: ADR3 James W. Bristol, who received a bowling ball and bag from Ridgecrest Bowl; S. G. Reynolds, a \$10 gift certificate from Gill Lumber Co.; Don C. Gay, a \$10 gift certificate from Town & Country; Cmdr. J. L. Uhe, a dart board from the Triangle Sport Shop; Mike C. Sanitate, a bottle of Bravura cologne from Ship's Bell Jewelry, and C. A. L. Mitchell, a Dymo tape labeller, donated by K&R Market.

The grand prizes, to be distributed next Friday at the end of the Navy Relief Fund Drive are: (1) the choice of a 1972 Vega GT Sportcoupe, a 1972 L.U.V. (Light Utility Vehicle) with camper shell, or a 19 ft. Nomad trailer; (2) the choice between a 125cc Suzuki motorcycle, or two 50cc Suzuki mini-trailhoppers, and (3) a 21 inch RCA color television set.

Weekly prizes that will be given to donors today are: a 6x12 carpet, from Ken's Carpets; a pair of table lamps, donated by Sprouse-Reitz; a round trip to Los Angeles, for one, from Hucek's Travel Service; a \$5 gift certificate from Miss J's; a \$5 gift certificate from Lilly's Dress Shop; a \$5 gift certificate from the Miracle of Charm beauty salon; a necklace and earrings set, donated by Mary Sue's Shop, and a belt and necklace, from Senn's Coiffures.

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AOA Dinner Meeting To Feature Talk on 'Rockets and Wild Horses'

A talk about "Rockets and Wild Horses" and the installation of new officers will highlight a dinner meeting of the China Lake Chapter of the American Ordnance Association.

The meeting will be held next Thursday, June 15, at the Chief Petty Officers' Club. A social hour will precede the 7 p.m. prime rib dinner, and the program will follow.

The speakers' rostrum will be shared by Larry Zabel and Lt. Col. Jack Pipa, USMC, who will present film slides and movies showing how the Coso Mt. area is shared by the Navy and wildlife that inhabits the NWC upper ranges.

AOA officers to be installed are Polly Fischer, president; Stan Reynolds, vice-president, and Cecil Abernathy, secretary.



TECHNICAL OFFICER LEAVES—Capt. Robert S. Moore, former Technical Officer at NWC, who left here this week for duty as Director of Plans and Analysis-Deputy Commander at Fort Douglas, Utah, was the guest of honor at a joint farewell party with Capt. A. E. May that was held on May 31 at the Commissioned Officers' Mess. Among the "gag gifts" received by Capt. Moore (at right) was a steak bone for his Basset hound, Agnes, the "terror of the neighborhood." This presentation by Dr. W. B. LaBerge, NWC Deputy Technical Director, was accompanied by the reading of a delightful poem written by Dr. LaBerge.

Circulatory System Studied...

(Continued from Page 1)

Dr. Rockwell will be able to continue to "contribute his knowledge to cardiovascular diagnosis."

The paper presented by Dr. Rockwell at the meeting of the Biomedical Engineering Society in Baltimore was co-authored by Dr. Anliker and dealt with the viscoelastic properties of arteries. It was entitled "A Nonlinear Model of a Viscoelastic Arterial System."

His work, Dr. Rockwell pointed out, has been purely theoretical while Dr. Anliker is associated with a medical school and data on cardiovascular diseases is available to him that is useful in this study.

Discussing the purpose of the mathematical model for the human circulatory system, Dr. Rockwell said: "Once there is a reasonable model, then a disease (such as hardening of the arteries or a leaking heart valve) can be simulated on this model and we can discover what happens to the blood flow patterns. Subsequently, the clinical observation in a patient of a similar abnormal flow pattern would then suggest the causative disease," the NWC physicist added as he explained the value of such a tool as a diagnostic aid.

In his work on this subject, Dr. Rockwell said, he is utilizing diagnoses of viscous fluid flow and the mechanics of solids, and applying them to this particular problem. In a sense, this is just engineering analysis, he added, but the application to complex biological systems is the exciting part.

Commenting further on such non-invasive methods of determining the changes in the flow patterns in blood vessels, Dr. Anliker also pointed out that it has become feasible to apply such techniques to routine cardiovascular examinations.

As of now, it was added, most cardiovascular diseases are diagnosed only after they have reached a severe state. "The detection of the disease in its early phase would not only improve substantially the chances of arresting it at a time the consequences would be of a minor nature, but would also give us an opportunity to study the gradual development of the disease and inhibitory factors," Dr. Anliker elaborated further in urging that favorable consideration be given to Dr. Rockwell's continued participation in this study.



LOGS 1,000TH HOUR IN CORSAIR—Lt. William Thomas recently completed his 1,000th flight hour in the Corsair II, while serving with Air Test and Evaluation Squadron Five (VX-5). The traditional silver tankard was presented by Arnold Vang, field service representative for the Vought Aeronautics Co. Lt. Thomas gained most of his A-7 experience during two WESTPAC tours while stationed aboard the aircraft carriers USS Constellation and USS Enterprise. He is wife Diane, and their son, Keith, reside at 201-B Bard St., China Lake.

College Chooses Alma Koch As Alumna of Yr.

Alma L. Koch, an NWC employee since 1947, recently was singled out for special recognition as the "Alumna of the Year" by Tiffin University in Tiffin, Ohio. Mrs. Koch, who now heads the Documentation Branch in the Propulsion Development Department's Engineering Division, was the first woman graduate to be so honored by her university.

She traveled back to Ohio to take part in the Class of '72 graduation ceremony on the evening of Sunday, May 28, and during the



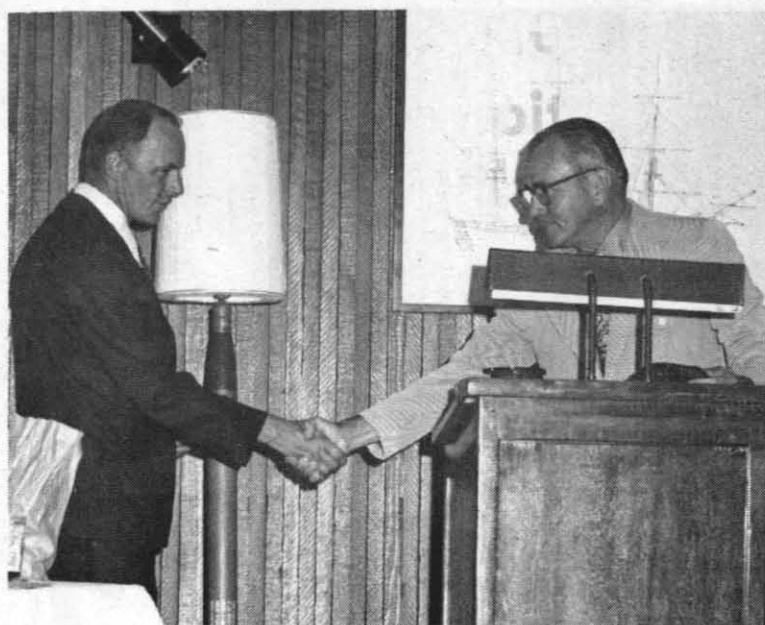
Alma L. Koch

ceremony the cap and gown-clad NWC employee received a certificate denoting the honor that had been bestowed upon her. She also was among the guests of honor at a reception that followed the commencement program.

Mrs. Koch's selection as "Alumna of the Year" was made by the university's board of trustees as part of a program that was started about 10 years ago, this year's honoree said.

She remained in her home town of Tiffin, Ohio, for a week following the graduation ceremony, visiting relatives (a sister and two brothers) and renewing acquaintances with friends she has known for many years.

Mrs. Koch, who had majored in business administration at Tiffin University, began work here as a secretary and has moved up the ladder of increasingly more responsible jobs until 1961 when she was appointed to the position she now holds.



ARMY OFFICER LEAVES—During a farewell party held in his honor, Lt. Col. George O'Grady, Army liaison officer assigned to the Naval Weapons Center, received an NWC plaque from Rear Adm. W. J. Moran, Center Commander (at right). After serving here since July 16, 1970, Col. O'Grady has been transferred to Fort Campbell, Ky., where he has been assigned to the 101st Division (Air Mobile) and is slated for duty as a battalion commander. In addition to the NWC plaque, Col. O'Grady received a number of other special gifts, including a lamp made from an expended 2.75 in. Army rocket casing. Lt. Col. Richard S. Boyd has replaced Lt. Col. O'Grady as Army liaison officer at NWC. —Photo by PH3 D. W. Yeatts

Centerwide Meeting Set On Developments in Radar

The first Centerwide meeting on new engineering frontiers in radar system techniques will be held next Tuesday and Wednesday in Conference Room A of Michelson Laboratory.

Organized by the China Lake Section of the Institute of Electrical and Electronics Engineers, the meeting is sponsored by the Naval Weapons Center and is being held for the purpose of disseminating information to co-workers in the radar field and to allow for a cross-fertilization of ideas.

According to W. L. "Buzz" Teeter, coordinator of the meeting, the scope of the meeting will be broad, but within the bounds of new active and passive radar system techniques and specifically related areas.

Approximately 30 experts in their field will discuss new radar technology during a series of hour-long sessions that will be held throughout the day on Tuesday and

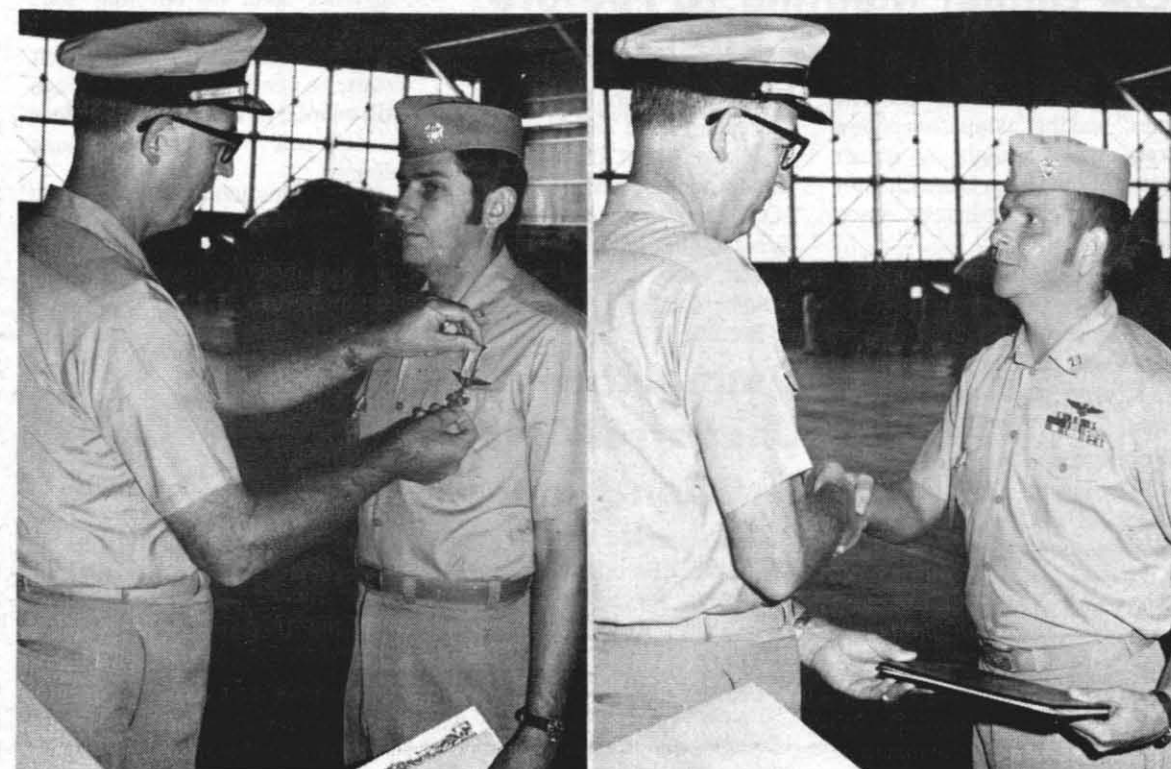
during the morning on Wednesday.

Associate coordinator of the meeting, which it is hoped will become an annual event, is Ray Caruso, while those who will serve as chairmen of the various sessions are Dr. Howard Wilcox, Dr. Merle Ross, Herbert Bulgerin, H. Norman Ronning, Robert Corzine, Fred M. Ashbrook, Burrell Hays and Werner G. Hueber.

Some of the topics to be covered will include "New Technology To Improve System Performance," "Pseudo-Noise Radar," "Detection of Complex and Quiet Signals," "Performance in Electronic Warfare Environments," and "Radar Imaging and Pattern Recognition."

Social Security Man

A representative of the Social Security office in Lancaster will pay another of his regular series of monthly visits to China Lake next Wednesday, June 14.



NAF AWARDS CEREMONY—Capt. R. E. McCall, (at left in both photos), Commanding Officer of the Naval Air Facility, recently presented the Vietnamese Armed Forces Honor Medal First Class to Lt. Joseph H. Killinger, (left photo), and a gold star in lieu of a second Air Medal to Lt. David R. Debenport (right photo) at NAF during an awards ceremony at Morning Quarters. Lt. Killinger was honored for service aboard the USS Midway while attached to Fighter Attack Squadron 56 and Lt. Debenport received the Gold Star for a mission flown on April 22 while on duty in Vietnam.

Eighth Grade Graduation Set Tonight

A graduation ceremony for members of the 1972 eighth grade graduating class at Murray School will be held tonight, starting at 6 o'clock, at the Naval Weapons Center theater.

A group of 267 eighth graders will file into the theater during playing of the processional by the Murray School instrumental music ensemble, directed by Alberta Kline.

The ceremony will be opened with the invocation, delivered by Capt. Robert E. Osman, senior chaplain of the Naval Weapons Center, and the pledge of allegiance to the flag, led by Bill Hall, Murray School student body president.

Featured speaker during the graduation program will be the Rev. Robert L. Johnson, pastor of the Grace Lutheran Church, in Ridgecrest, whose topic will be "To Know Us Is to Love Us," which is the motto of the Class of '72.

Musical selections during the ceremony will include "We've Only Just Begun," sung by the eighth grade chorus under the direction of Mrs. Joan Moser, and a clarinet quartet number, "Variations and Fugue on a Theme by Mozart" played by Molly Cartwright, Bill Hall, Leonard Lebow and Terri Leon.

A profile of the Class of '72 will be presented by Grant Pinney, assistant superintendent in charge of business, and members of the eighth grade graduating class will then be presented to China Lake School Board by Dr. Paul Smith, district superintendent.

Diplomas will be presented to the graduates by William Porter, school board president, and by Mrs. Bettye Jane Tiffany, principal of Murray School.

A reception for parents, other relatives and friends of the graduates will be held at the Murray School cafeteria following the graduation ceremony.

NWC Schedules Sale of Surplus Gov't Property

An opportunity will be provided Tuesday for local residents 18 years of age and over to participate in an auction sale of surplus government property.

Registration for the sale, which will be held at the Community Center, will take place between 8 and 9 a.m. on the day of the sale. In order to register, potential bidders must present proper identification in the form of a driver's license or bidder's identification card.

At the time of registration, a bidder's paddle will be issued for use during the auction sale.

A wide variety of surplus government equipment will be placed on the auction block next Tuesday, ranging from generator sets, air compressors and pickup trucks to evaporative coolers, office machinery and miscellaneous electronic and photographic equipment.

Successful bidders must pay in full for any item prior to picking it up, and will be allowed five days time before storage charges will be applied to the cost of their purchase.



STUDENT FLIER SOLOS—Capt. R. E. McCall (at right) Commanding Officer of the Naval Air Facility, extends his congratulations to ADRI Larry Ellis after the latter became the first student member of the China Lake Navy Flying Club to solo in the club's new American Yankee Trainer (in background). Ready to carry out the tradition of cutting off the shirftail of a student who has soloed is Wesley Hobbs, his flight instructor. Ellis, who is the NAF Transportation Division's chief petty officer, felt it would be a great experience to learn to fly and earn a private pilot's license after working on and around aircraft for the past 16 years. Membership in the China Lake Navy Flying Club is open to all military personnel and civilians working at NAF. The club's objectives are to provide recreation and to train students to obtain their private pilot's license.

Rescue Group Plans Lecture Series

The China Lake Mountain Rescue Group will present a series of four lectures about mountaineering on June 13, 15, 20 and 22 at the NWC Training Building. The programs are planned for the benefit of beginners and other inexperienced backpackers.

The lectures will begin at 6:30 p.m. on each date. Topics to be covered will include selection of equipment and foods, how to set up efficient campsites, read topographic maps, use a compass, and safety and survival in the mountains.

The annual summer rock climbing classes, also sponsored by the group, will begin on Tuesday, June 27, and will continue every Tuesday evening until Labor Day (Monday, Sept. 4).

Participants in the class will meet at Robber's Roost (located adjacent to Highway 178, on the way to Walker Pass) at 6 p.m. Climbing techniques to be taught will include belaying, rappelling, jumaring, hand and foot holds, use of ropes and knots.

For more information about either class those interested should contact Bill Sweatt by calling 446-2891.



SALVAGE WORK UNDER WAY—A crew of workmen from the Artko Corp. of Tucson, Ariz., recently began the month-long task of salvaging metal from wrecked aircraft bodies that have been collected in a storage area at the Naval Weapons Center. A heavy, armor-plated blade that is lifted into the air by a huge crane is used to cut the airplane fuselages in half. It also is required as a part of the demilitarizing process that aircraft wings and tail sections be cut off and that the fuselage be split in two. The Tucson firm has a contract to pick up 500,000 lb. of wrecked aircraft. A 10-ton forklift is being used to load the scrap metal onto trucks that will transport the aircraft parts to a smelter. The end product of this effort will be aluminum ingots that sell for between 3 and 4 cents per pound. The wrecked aircraft that are being demolished have been used here as targets in testing a wide variety of missiles, rockets and bombs. —Photo by PH2 G. L. Taylor

State College To Offer Bachelor's Degree Here

Dr. Glen S. Dumke, Chancellor of the California College and University System, recently approved a proposal for an external degree program to be established in this area.

The proposal was prepared jointly by the staffs of the Naval Weapons Center, California State College at Bakersfield, and the Desert Campus of Bakersfield College in Ridgecrest.

The new program will mark the first effort that has been made in this area by a state college or university to offer a bachelor's degree. Initial classes will begin in the fall of 1972. Only upper division, junior and senior year courses will be offered.

All freshman and sophomore year requirements can be met locally at the Desert Campus.

The first degrees will be offered in business administration. Students who have completed 60 or more semester units of work may be eligible to enter the program as juniors. Courses to be offered in the fall will be scheduled in the Training Center of the Naval Weapons Center and will be open to the general public.

Eligible employees of the Center may qualify for tuition reimbursement, according to Bruce MacIntosh, training director. Estimated cost of the program will be \$30 per quarter unit.

Dr. Roy Dull, director of Continuing Education at Cal-State Bakersfield, explained that external degree programs must be self-supporting. Dr. Dull will be the primary administrator representing Cal-State Bakersfield along with Dr. Robert Coe, head of the School of Business and Public Administration.

Students who are interested in considering the program should contact either the NWC Training Division, by calling NWC ext. 2648, or the Bakersfield College Desert Campus, phone 375-1548. Counseling will be available during the month of July, but specific times and dates are yet to be determined.

It is important for prospective students to complete as many of the lower division prerequisite courses as possible before they enter the upper division program.

However, Dr. Dull explained, that the Desert Campus of Bakersfield College has a number of prerequisite courses in its summer session schedule. Registration for the summer session is now under way. The last day of open registration is today from 9 a.m. until 5 p.m.

Opportunities...

(Continued from page 2)
Typing from a dictating machine scientific reports and publications. Job Relevant Criteria: Experience which requires the incumbent to edit scientific reports and publications. Experience in typing scientific reports and publications from a dictating machine. Performing general receptionist and secretarial duties for an organization including filing, travel orders, and personnel paper work. Promotion opportunities to the GS-5 level.

File applications for above with Linda Grossman, Bldg. 34, Rm. 204, Ph. 3118.

Two vacancies exist in the Armament Division (AIR-532) at the Headquarters, Naval Air Systems Command, Alexandria, Virginia.

Electrical Engineer, GS-13/14, Senior monitor and control engineer. Primarily concerned with electrical and electro-mechanical fuses for all types of air-launched weapons. Electrical Engineer, GS-12/13, Project engineer for advanced armament control systems such as coded firing systems and integrated multiplexed systems. If interested, please contact: Capt. Joseph E. Puccini (AIR-532), Room 101, Code 652, China Lake, Calif. To be received or postmarked by 26 June 1972. Forms may be obtained at the Personnel Bldg., Room 100, China Lake, Calif. Electronics Engineer, GS-855-11 or 12, Physicist, GS-1310-11 or 12, or General Engineer, GS-801-11 or 12 (1 position) PD No. 723198, Code 3599. This position is located in the Reliability Analysis Section, Analysis Group of the Electronic Systems Department. The function of the Reliability Analysis Section is to provide reliability, maintainability and quality assurance support to programs within the Department. The incumbent's general assignment is preparation and implementation of programs for complex electronic systems with particular emphasis on anti-radiation weapons. The spectrum of duties entailed by this assignment ranges from initial program plan development, performance of elemental tasks such as reliability allocation and prediction, failure mode and effect analysis, electronic component selection and qualification, and failure analysis/corrective action determination, to coordinating program elements among cognizant NWC organizational units, other governmental activities and industrial contractors. Minimum Qualification Requirements: Three years of appropriate professional experience in the reliability discipline and planning, and failure analysis/corrective action determination, with the requirements of CSC Handbook X.118. Job Relevant Criteria: Broad background in reliability engineering disciplines with emphasis on analysis activities associated with hardware design, test and evaluation.

File application for the above with Sue Prasiolowicz, Bldg. 34, Rm. 206, Ph. 2577. Administrative Assistant, GS-341-7, PD No. 755857, Code 5546—incumbent is administrative assistant to the head, Fleet Engineering Division. Duties include assisting the division head with personnel action, position descriptions, space and facility requirements, and coming, budgeting, preparation of financial and administrative reports, and various miscellaneous administrative duties that arise in the course of day-to-day activity. Minimum Qualification Requirements: Outlined in CSC Handbook X.118. Job Relevant Criteria: Ability to work with people and gain their cooperation. Ability to express oneself, both orally and in writing. Ability to ascertain and understand policies of the Department, NWC, NASC, etc., and apply these policies where applicable. Advancement Potential: GS-11. This is an obligated position and is subject to return of overseas employee.

File applications for above with Joan MacIntosh, Code 657, Ph. 2371.