

Public Works Advises How To Use Coolers

Many Center residents have, no doubt, noticed that on some days the evaporative coolers in their homes get the house much cooler than on other days. On some days, they don't seem to work well at all.

In order to get more information on how these "swamp coolers" work, and how to get the most effective use from them, Ens. S. M. Ogintz was contacted—he is Project Officer in the Public Works Department.

Ens. Ogintz explained that the effectiveness of the cooling action of the coolers is determined by the volume of air moved through the house and the relative humidity of the outside air. The more air circulated through the house and the lower the relative humidity, the better the cooling.

The principle of operation is based on the fact that as hot air passes over water, heat from the air will be transferred to the water and cause evaporation, causing the air to become cooler. When the humidity is high, less water can be accepted by the air and the cooling effect is diminished.

As an example, Mr. Ogintz cited data obtained from the Public Works Air Conditioning Shop for two consecutive days. On the first day, at 3:00 p.m., the wet-bulb temperature (an indication of the humidity—the higher the temperature the higher the humidity) was 68 degrees F. and the dry-bulb temperature (the one which is given in weather reports) was 104 degrees F. Based on ideal operating conditions, the cooler in a house would cool the air to no lower than 73 degrees F.

The next day, at the same time, the wet-bulb temperature was 74 degrees F. and the dry-bulb temperature was 106 de-

grees F. Based on these conditions the house would get no cooler than 79 degrees F.

As a rule of thumb, with an average difference between wet-bulb and dry-bulb temperatures of 30 degrees F., the cooler will only maintain the inside temperature 25 degrees F. below the outside temperature.

Provide Exits

For most efficient cooling of a house, sufficient exits must be provided for the air being blown in by the cooler. As a rule, one square foot of open window or door is needed for every 200 cubic feet per minute (CFM) being blown in. Most residential coolers on Center blow between 3000 and 5000 CFM and, therefore, require 15 to 25 square feet of exit space. By opening windows in rooms you are using and closing them in the ones you aren't, you will improve the cooling effect.

Ens. Ogintz stated that Center residents can help the Public Works service shop provide efficient service by taking into account the following factors before calling in an air-conditioner as not working.

- 1) If air is being blown through the duct work, with sufficient windows opened;
- 2) the house is being maintained about 25 degrees F. below the outside temperature, then the cooler is probably working at its maximum effectiveness and a service call will not improve its operation.

On the other hand, if no air is blowing and the temperature shows a continuous rise, then the cooler is probably not working.

By considering these factors, residents can help Public Works to provide speedier service to those tenants whose coolers actually are not working.

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)

ALL **R**, **GP** and **G** FILMS RECEIVE THE BENEFIT OF THE MOTION PICTURE CODE OF SELF-REGULATION

FRIDAY AUGUST 7
"THE LAST ESCAPE" (90 Min.)
Stuart Whitman, John Collin
7:30 P.M.

(War Drama) The O.S.S. Officer lied his way behind enemy lines and fought his way out as he "stole" a much-needed rocket scientist from the Germans before the Russians occupied part of Berlin. Hair raising adventure. (G)
Shorts: "Say Cheese Please" (7 Min.)
"Precision" (9 Min.)

SATURDAY AUGUST 8
—MATINEE—
"EIGHT ON THE LAM" (106 Min.)
Bob Hope
1:00 P.M.
Short: "Vitamin Pink" (7 Min.)

—EVENING—
"WHERE IT'S AT" (104 Min.)
David Jansen, Rosemary Forsythe
7:30 P.M.

(Drama) Las Vegas casino operator's son starts showing his dad he's learned traits too well as he puts on the squeeze and tries to take over! (R)
Short: "Pinkadilly Circus" (7 Min.)

SUNDAY-MONDAY AUGUST 9-10
"JENNY" (89 Min.)
Marlo Thomas, Alan Alda
7:30 P.M.

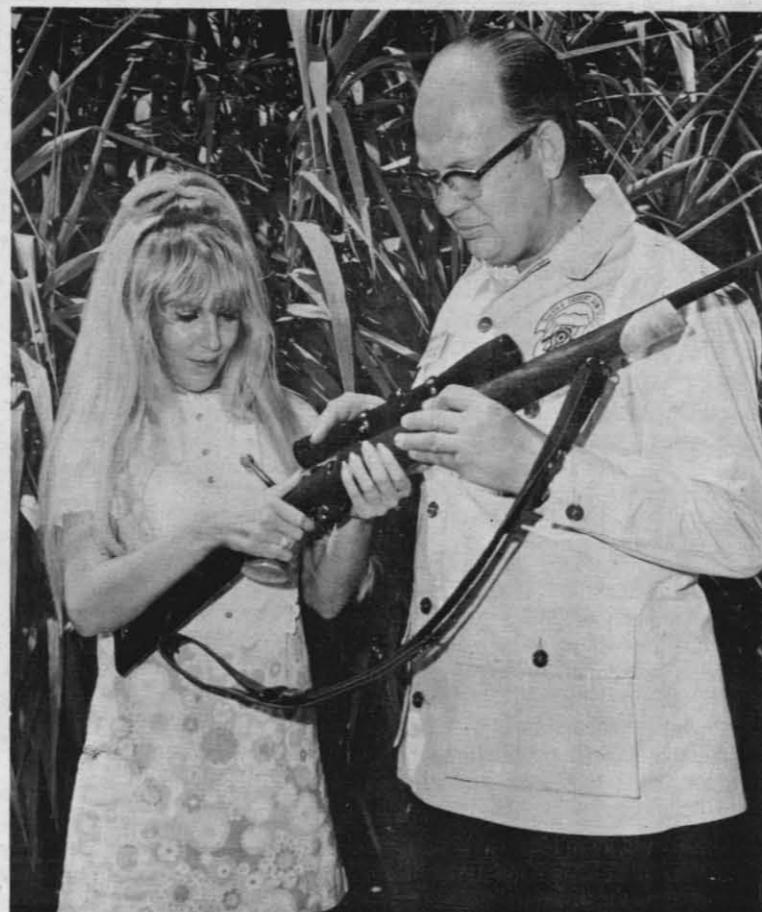
(Drama) Danny's daughter Marlo of "THAT GIRL" TV fame, portrays a modern Miss who marries for convenience, an amateur film-maker who is ducking the draft. Their tragic-comedy problems make for a "MOD" story of top notch youth. (GP)
Short: "A Place to Stand" (19 Min.)

TUESDAY-WEDNESDAY AUGUST 11-12
"THE KREMLIN LETTER" (121 Min.)
Bibi Anderson, Richard Boone
7:30 P.M.

(Spy/Mystery) An American intelligence team attempts to recover a Russian letter calling for an attack on Red China. The first five minutes has one suicide, two executions, a seduction and the key to the plot. Don't miss it! (GP)

THURSDAY-FRIDAY AUGUST 13-14
"IN SEARCH OF THE CASTAWAYS" (98 Min.)
Hayley Mills, Maurice Chevalier
7:30 P.M.

(Comedy/Drama) Hayley and her brother, with the help of a friend millionaire, search the seas for her lost father and run a gamut of perils including an earthquake, a volcano, flash flood, etc. A DISNEY treat with Pirates and all! (G)
Short: "Donald's Vacation" (8 Min.)



FIREARMS SAFETY SUPPORTER—Bob Gould, a Code 45 employee, explains to Becky Vincent a few of the fine points of caring for a firearm. Bob recently gave a class in firearms safety under the auspices of the Indian Wells Valley Safety Council and is interested in contacting any group or organization for the purpose of promoting firearms safety in the Indian Wells Valley area. Bob can be contacted at his home—405-A Princeton—or by calling 446-4042. —Photo by PH2 M. F. Krause

Final Touches Being Applied To 'Music'

Beginning Monday, the cast and crew of "Sound of Music" will move to the Murray School Auditorium to put the finishing touches on rehearsal of the play which will open Friday, August 21, and will play three more nights — August 22, 28 and 29.

According to Phelps Terheun, who is directing the play for the Community Light Opera and Theatre Association, the technical crew, under the leadership of Chuck Wilcox, is working at a feverish pace to construct the lavish and detailed sets for the production. Wilcox and Mark Goza, who is the assistant director, issued a call for volunteers who would like the experience of working "behind the scenes" during the production. Persons interested are asked to call Jim Mott, 375-9531, or NWC Ext. 3589.

The Oscar Hammerstein-Richard Rodgers musical is based on the book "The Trapp Family Singers," written by Maria von Trapp, the young governess who married Captain Georg von Trapp, the proud Austrian whose seven children were the nucleus for the famous Trapp Family Singers.

Maria von Trapp is portrayed by Lana Lee Kline and the Captain by John Feeley, in the local production. Other principal members of the cast include Lana Widener as Elsa

Schrader, and Jack Lindsey as Uncle Max. The Von Trapp children are portrayed by Nancy Hawthorne, Bart Moore, Michelle Bargowski, Mark Bargowski, Elizabeth Knemeyer, Teresa Jessburger and Joane Fragan.

The story takes place in Austria, 1938, just before the Anschluss. The von Trapp family hires a new governess (Maria) and their lives are never to be the same. She is a simple girl, religious and full of the love of life. Through her, the children learn to sing and behave like normal children, instead of the marching little soldiers they had become under the rule of a grief-stricken father.

"Sound of Music" was made into a movie following a very successful run on Broadway and contains some of the most delightful music the team of Rodgers and Hammerstein has ever written. "Do-Re-Mi" and "My Favorite Things" are well known to children all over the world. Other songs which have become standards include "Climb Every Mountain," sung by Lauretta Stogsdill, who portrays the Mother Abbess; "Edelweiss," "Sound of Music," and many others.

Tickets will be on sale beginning next week at the Center Pharmacy, the Gift Mart in Ridgecrest, or from members of the cast.

Revised CFWS Plan Received

Significant Changes Introduced Regarding 'Environmental' Areas

An advance copy of the Civil Service Commission's new additional pay plan covering all employees in the Coordinated Federal Wage System has been received at China Lake.

This plan is contained in Subchapter S8-7, of Federal Personnel Manual Supplement 532-1; and is titled "Environmental Differentials Paid for Exposure to Various Degrees of Hazard, Physical Hardships and Working Conditions of an Unusual Nature." The Commission is expecting to distribute official copies of this plan in August 1970.

Navy Trades and Labor (ungraded) employees will recognize many features and provisions of the new plan as being similar to the Navy additional pay plan. However, the new plan introduces some significant changes in the Navy Department's administration of additional pay. Among such changes is the removal of "built-in" additional pay, typical of ordnanceman ratings in Navy.

Those Navy jobs that have built-in differential will require re-evaluation. Pay savings, however, is provided for an employee whose pay-level is reduced in order to remove a built-in differential. If the employee's new scheduled rate plus the appropriate added differential does not equal or exceed the amount he received prior to the downgrade, then

pay savings will protect the previously earned amount.

The new plan establishes percentage amounts for different environmental situations. Employee pay is computed by applying the percentage differential to the second step of WG-10 as shown on the area schedule of wages. The resulting amount is then added to hourly pay, regardless of the pay level of the job involved.

Under the new plan, activities must identify their work situations which match additional pay conditions described in the new plan. Other work situations, not covered in the new plan, must be described and sent to the Civil Service Commission for determination. The new plan will become effective in all agencies on the first pay period beginning on or after November 1, 1970.

In next week's edition, the ROCKETEER will publish the schedule of conditions for which the Civil Service Commission has authorized additional pay.

The recently published Center Instruction, NAVWPNSCEN Inst. 12550.1 of June 2, 1970, covering additional pay for both graded and Trades and Labor employees, will be amended to include the new Civil Service Commission plan.

For further information, call Head, Wage and Classification Division, China Lake extension 3196.

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INDISPENSIBLE DEVICE—George O. "Gerry" Miller and LCDr. Andre Coltrin talk over details of a Radar Detection Device for which Miller and co-inventor Denman R. Elliott of the Weapons Development Department recently received a patent award. Basically, the device is a threat warning system designed to alert pilots to the presence of radar tracking stations. The device has already been credited with saving pilots from impending peril on three different occasions.

New Bell Helicopter Permits High Rescues

The arrival of a new Bell HH-1K helicopter at the Naval Weapons Center has provided NWC with a rescue vehicle which is capable of performing rescue missions at altitudes in excess of two miles. This capability was demonstrated rather dramatically recently when Major Benny D. Rinehart, USMC, who is presently attached to Air Test and Evaluation Squadron-Five, used the helicopter to rescue a heart attack victim in the high Sierra Mountains.

On Sunday, July 26, Major Rinehart, a highly decorated veteran of hundreds of helicopter combat missions in Vietnam, was called upon to take the Bell HH-1K helicopter to the 11,400 foot level northwest of Bishop.

The mountain rescue co-ordination center at Hamilton AFB contacted the Naval Air Facility at NWC, who in turn asked Major Rinehart to fly the mission. Early on the morning of July 26, Major Rinehart and Airman D. J. McWilliams, of NAF, loaded a 55-gallon drum with jet fuel, equipped with a hand pump, on board the 'cop-

ter, and took off for the rescue site. The fuel and pump were considered necessary as the 'copter would have to refuel at Bishop in order to complete the round trip.

Although Major Rinehart lacked high altitude performance data on his specific helicopter model, he did have data on similar type helicopters plus his many thousands of hours of flight experience to draw from. After picking up an Inyo County Deputy Sheriff to point out the injured man's location, Major Rinehart flew to the site and deposited a litter, returned the Deputy to the valley floor and then proceeded back to the victim and loaded him aboard, strapped to the litter.

The rescued man was taken to a school yard in Bishop, where he was met by a waiting ambulance.

NWC is often called upon to perform rescue missions such as this one, and with the advent of the Bell HH-1K helicopter, pilots and crew members who volunteer for the search and rescue missions will find the job easier to perform, with a higher percentage of success.

Council Seeks Election Candidates

The Community Council, the only elective board at China Lake, seeks candidates. Elections are held every two years at the regular November elections. All members of China Lake, age 18 and older, are eligible to run for office and to vote.

As the only elective board at China Lake, the Council's primary function is to represent the residents to the Command. At the same time the several members hold seats on various community boards and

commissions and engage in other activities designed to improve the quality of life aboard the Center.

All persons interested in contributing to the welfare of their community are strongly urged to run for office. Those who wish to place their names up for election, or who seek more information, may call Wardna Abernathy at extension 2231 or at 446-2272 after work hours, or George Ness at extension 2488 or at 446-4498.

Patent Awards . . .

NWC Inventors Share \$1700 In Cash Awards

Twenty-nine NWC inventors shared \$1700 in cash awards for their contributions to the issuance of 18 patents that were distributed by Capt. J. K. McConeghy, Jr., NWC Executive Officer, in a recent ceremony.

The event, which was held in cooperation with the Patent Counsel's office, was attended by the respective department heads of the honored employees who, in turn, presented the awards.

During the ceremony, presentations were made to the following employees:

Systems Development Dept.
Lyman F. Van Buskirk, for "Digital Motor" and "Self-Contained Servomechanism"; Gary C. Babcock, for "Digital Data Transmission System"; Wayne Claunch, William Arriola, and Ephraim Regelson (now terminated), for a "Missile Tracking Simulator".

Aviation Ordnance Dept.
David W. Kermod, (an Original Grant) for "Means for Suppressing Interference in Radio Circuits"; Lawrence Nichols and Jesse Lamar, for "Employing a Plurality of Dichroic Mirrors to Produce a Three-Color Image"; Robert G. Clapp, Donald G. Quist (terminated), Gaylon West and Robert H. Forster, for "Time Delay Fuse".

Weapons Development Dept.
Michel Vernon-Cole, for "Variable Apertured Radiating Diffusing Integrating Cavity"; Jack A. Myers, for a "Bomblet"; George O. Miller and Denman R. Elliott, for "Radar Detection Device".

Propulsion Development Dept.
Dr. Martin Kaufman, for "Mixture of Two Polyesters with Pyromellitic Dianhydride"; Richard Fulmer, for a "Method of Forming Articles to Close Dimensional Tolerances in a Hydrostatic Press"; Paul Cordle and Richard Birge (now terminated), for "Fragmenation Warhead Having Circumferential Layers of Cubical Fragments"; Arthur Gross and Paul C. King, for a "Closure Means"; Robert D. Berry, for "Fluoric Variable Thrust Injector"; John D. Braun and Edward M. Roy, for a "Method for Applying a Burn Inhibitor Material to a Composite Propellant Grain".

Research Department
Dr. Harold Bennett, for "Wide Range Absolute Reflectometer."

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76'ers Clinch Championship

(Continued from Page 6) pounding VX-5, 14-4, with a 10-hit attack in a game halted by the 10-run rule after Taylor's home run in the sixth.

NAF clinched third with a 12-6 win over Ace last Thursday. Steve Wittrock allowed eight hits as the Hawks led all the way.

In this Monday's second game Ace TV overcame a 7-0 deficit to defeat VX-5, 12-10. A 10-run sixth inning proved the difference as early-season Bert Galloway won his first game since his June 4 injury. Homers by Steve Mushock

and Jim Latta highlighted NAF's 17-4 win over Triangle Wednesday. The Hawks rallied for 11 runs in the fourth to set a season mark.

STANDINGS	W.	L.	GBL
Union 76	19	5	---
El Rancho	16	7	2 1/2
NAF	13	10	5 1/2
Triangle	9	14	9 1/2
Ace TV	8	16	11
VX-5	5	18	13 1/2

THE SCHEDULE
Monday, August 10—6 p.m., Union 76 vs. NAF; 8 p.m., El Rancho vs. VX-5.
Tuesday, August 11—6 p.m., Ace TV vs. Triangle.

Six-Pitch League 2

Intramural, Youth Football

Intramural football season is just around the corner. Special Services is now accepting team entries for the 1970 intramural football league season. Deadline for entries is 4:30 p.m. September 11. No late entries will be accepted.

The league is open to all military and civilian employees of the Naval Weapons Center. Team rosters, not to exceed 20 players, should be submitted to the NWC Athletic Office, 76 Bard Street.

Youth Football League

The final registrations for boys who desire to participate in youth football this fall will

be held on the Center at Groves School auditorium on August 11 between 6 and 9 p.m. and in Ridgecrest at James Monroe School, Room No. 2 on August 13, between 6 and 9 p.m. An initial fee of \$3 will be charged. An additional \$12 will be required when uniforms are issued on September 8.

The registrations will be on a first come, first served basis as only 175 boys can be registered this year. For additional information call A. S. (Steve) Etheredge, phone 446-7364.

A general meeting of all officers and any interested parents will be held on Monday, August 10, at 7:30 p.m. at the Community Center.

AS SCHOOL SEASON NEARS...
WATCH OUT FOR CHILDREN!

From _____

TO _____

PLACE STAMP HERE



SUPERIOR ACCOMPLISHMENT—Maurice J. Curtis, left, of Code 55, recently received a Superior Accomplishment Award for his technical coordination of the Solid State Devices Facility during facility definition and fabrication. B. W. Hays, Chief Engineer for Code 55, makes the presentation.

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. The fact that positions are advertised here 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 most recent previous supervisor. Selection shall be made without discrimination for any non-merit reason and without favoritism based on personal relationships or patronage.

The vacancies listed below are effective from August 7 to August 14, 1970.

Planner and Estimator (Public Works Mechanical Systems), WD-47052-38, Code 4554. Duties: Provides planning of mechanical trades work in the maintenance shops area of the Propulsion Development Department. Is liaison between the Department shops and Public Works shops. Estimates labor and material costs for all jobs falling within this trade area. Screens work requests, expedites planning efforts, recommends priorities, checks progress and follows through to make sure jobs are brought to a satisfactory and timely conclusion. Qualification Requirements: Rating will be on the basis of the appropriate J-Element Standard in accordance with the CSC Handbook X-118C. Job Relevant Criteria: Ability to gather and interpret data concerning production in the trade and make rough estimates of cost and time required for the completion of work projects.

File above applications with Pat Guent, Bldg. 34, Rm. 202, phone 2723.

Clerk-DMT, GS-316-3 or 4, PD No. 040023 Aml, Code 4023—This position is located in the BULLDOG Program Office, Missile Systems Development Department. Incumbent will be responsible for the typing of official correspondence and memoranda; preparation of travel orders and stubs, filing, receiving telephone and office callers, receives and distributes incoming mail and other duties as may be required to maintain an efficient office. Minimum Qualification Requirements: One year general experience for GS-3 and one and one-half years general and six months specialized for GS-4 in accordance with X-118. Advancement Potential: GS-3 may be promoted to GS-4.

Clerk-Typist, GS-322-3/4, PD No. 740-176, Code 404—This position is that of secretary to the Control Systems Branch, Guidance and Control Systems Division, Weapons Development Department. The incumbent will provide assistance to the Branch Head and his group by performing a variety of clerical and administrative duties related to the management of the office such as: scheduling appointments, telephone and receptionist work, receiving and replying to incoming mail, reviewing outgoing mail, etc., provided a technical knowledge of specialized subject matter is not required. Minimum Qualification Requirements: One year general experience for GS-3 and one and one-half years general and six months specialized for GS-4 in accordance with X-118. Advancement Potential: GS-3 may be promoted to GS-4. File applications with June Chipp, Bldg. 34, Rm. 204, phone 2676.

Clerk-Typist, GS-322-3, PD No. 7042009, Code 4204—This position is located in the BULLDOG Program Office of the Missile Systems Department. Incumbent types various kinds of correspondence from rough drafts or handwritten notes, answers phones, maintains files, greets visitors, and other duties as assigned. Minimum Qualification Requirements: GS-3: 1 year of general clerical experience. Job Relevant Criteria and/or Selective Placement Criteria: Knowledge of Navy correspondence procedures desired. Advancement Potential: May advance to GS-4.

Administrative Officer, GS-341-7, 9, 11, Code 4204—This position is located in the BULLDOG Program Office, Missile Systems Department. Incumbent secures, organizes and presents evaluative information pertaining to the BULLDOG Program in the areas of cost, schedules, and performance; assists in program planning; develops and prepares presentation material; maintains procurement liaison; other duties as assigned. Minimum Qualification Requirements: GS-7: 3 years of general experience and 1 year of specialized experience; GS-9: 3 years of general experience and 2 years of specialized experience; GS-11: 3 years of general experience and 3 years of specialized experience. (General experience: experience in administrative professional, investigative, technical or other responsible work which provided opportunity for the applicant to gain: (a) general knowledge of management practices and administrative processes; (b) skill in dealing with others in person-to-person work relationships; and (c) ability to exercise mature judgment. Specialized experience is experience in administrative, supervisory, managerial, professional or technical work which provided applicant an opportunity to acquire knowledge of man-



FAREWELL TO THE BODWELLS—Deleta Munn of Security Operations Division presented a Dust Devil certificate to Howard Bodwell during the farewell reception held in honor of the Bodwells at the Officers' Club last week. Mrs. Munn also presented the Purple Sage certificate and gave a biographical sketch of Howard's 23 years at the Center. He worked in the Explosives Dept. until July 1951 when he joined the Security Dept. where he has been Associate Department Head. Upon retirement from Civil Service, Howard and Dorothy will leave the area for their new home in Friendly Valley.

agement principles, practices, methods and techniques, etc., as stated in X-118.) Engineer (Any discipline), Physicist, or Mathematician, GS-800, 1310, 1520, 11 or 12, Code 4204—This position is located in the BULLDOG Program Office, Missile Systems Development Department. The incumbent develops and implements techniques for management visibility and control. Develops and maintains PERT networks for entire BULLDOG Weapon System, predicts impact of slippages in schedules, constructs "work Package" breakdowns of tasks to be completed by contractors and participating field activities, maintains management information center, etc. Minimum Qualification Requirements: Minimum amount of professional experience in appropriate subject matter fields 3 years. Other requirements as stated in X-118. Job Relevant Criteria: Academic or experience background in program management, visualization and control. Knowledge of statistical techniques and programming desired. Advancement Potential: GS-11 advance to GS-12.

Electronic Technician (2 vacancies), GS-856-9, 11 or 12, PD No. 7042010, Code 4204—These positions are located in the BULLDOG Program Office, Missile Systems Development Department. Duties include design, fabrication, and evaluation of electronic test equipment for use with the BULLDOG Weapon System. Submits monthly reports pertaining to work completed, trouble shoots equipment, develops circuit board layouts, packages equipment, etc. Minimum Qualification Requirements: 2 years of general experience and 4 years of specialized experience as stated in X-118. Job Relevant Criteria and/or Selective Placement Criteria: Experience in printed circuit design, weapon system test equipment design, willingness to travel are desired. Advancement Potential: May advance to GS-12 based on incumbent's ability to fulfill job requirements.

File application for above with Sue Prasolowicz, Bldg. 34, Rm. 206, ext. 2577. Clerk-Typist, GS-322-3 or 4, Code 12 Part-time (6 hours a day)—Provides secretarial and clerical services to the Program Director for Intelligence in the Weapons Planning Group. Assists the security clerk in maintenance of card files of all Secret documents and messages. Minimum Qualifications: One year of experience for the GS-3 level and two years for the GS-4 level which included, as a significant part of the work, the performance of typing duties. Education above the high school level may be substituted on the basis of one year of study for one year of experience. Job Relevant Criteria: Typing ability required. Must be potentially clearable for Top Secret.

File applications for above with Naomi Campbell, Bldg. 34, Rm. 206, Ext. 3118. Civil Engineer, GS-810-9, 11 or 12 (one vacancy), PD No. 7030077, Code 3023—This position is located in the Range Design Branch, Systems Development Department. The incumbent, as a design engineer, will prepare engineering designs for and coordinate the construction, fabrication or installation of test range facilities or support equipment on the seven major ground test ranges of the Systems Development Department. Specific tasks include, but are not limited to: the design of towers and supporting structures for guns, rockets and guided missile launchers, radars, targets and photo and electronic instrumentation; the construction or erection of blast protective structures, barricades and instrumentation shelters; the coordination of a team of surveyors; the installation of spe-

cialized electrical, pneumatic, hydraulic and ordnance test equipment. Minimum Qualifications: Appropriate education/experience as specified in CSC Handbook X-118. Job Relevant Criteria: (1) experience in the design, construction, or operation of ordnance test range facilities; (2) experience in the construction industry in an engineering or general foreman or related capacity. Advancement Potential: To the GS-12 level based on ability to fulfill position requirements.

File applications for above with Mary Morrison, Bldg. 34, Rm. 210, Ph. 2032. Clerk-Dictating Machine Transcriber, GS-316-3/4, PD No. 470023 Aml, Code 708—Duties of this position are to provide secretarial and clerical services to the Head, Maintenance Control Division. Incumbent transcribes from dictating machine as requested. Set up and maintain many files for permanent record. Receives visitors, relays information and messages and establishes appointment times, etc. Minimum Qualification Requirements: A. One year of appropriate experience or, B. Education and/or experience as allowable in X-118 Series GS-316-3; A. Two years appropriate experience or, B. Education and/or experience as allowable in X-118, Series GS-316-4. Advancement Potential: GS-4 level.

Clerk-Typist, GS-322-3/4, PD No. 870009, Code 7040—Incumbent types masters for all forms used in this section. Also types work requests and job order status reports for all jobs requested of Public Works by each Department on the Center. Maintains the files on all job writeups that are received in the section. Incumbent is responsible for the maintenance and control of all work request records. Qualification Requirements: A. One year of appropriate experience or, B. Education and/or experience as allowable in X-118, Series GS-322-3; A. Two years appropriate experience or, B. Education and/or experience as allowable in X-118, Series GS-322 for GS-4. Advancement Potential: GS-4 level.

File applications with Dora Childers, Code 457, Bldg. 34, Rm. 210, phone 2392. Clerk-Typist, GS-322-4, PD No. 755017, Code 5554—Receives, screens, delegates for action all incoming correspondence for Branch, maintains follow-up system, control records, drafts non-technical memos and composes correspondence as requested. Provides typing and clerical services to the supervisor and all branch personnel, receives requests for statistical or information material and advises when material makes travel arrangements, prepares orders and maintains records of itineraries, maintains time and leave cards, procures supplies, equipment, repair and maintenance services through appropriate channels, receives and screens telephone and business callers, schedules appointments and meetings and makes appropriate arrangements. Serves in a liaison capacity between Branch Head and other offices. These contacts require test judgment and an accurate exposition of facts. Minimum Qualification Requirements: 2 years of appropriate experience as outlined in CSC Handbook X-118.

File applications for above with Joan MacIntosh, Personnel Bldg., Rm. 212, ph. 2371. Visual Information Specialist (Printed Material), GS-1084-9 or 11, PD No. 875018, Code 7512—Major responsibilities of this position include the planning and preparing of the visual aspects of the Center's special publications. Such printed material is primarily illustrative in nature. Major du-

(Continued on Page 7)

Certain Foods Require Greater Care In Summer

A matter that should be of particular concern to desert-dwellers was brought to the public's attention recently by the Kern County Health Officer, Owen A. Kearns, M.D.

The subject of concern is bacteria-contaminated food that can easily make one seriously ill because the bacteria is rarely detected by such warning signs as changes in taste, appearance, or odor.

Kearns advised that certain foods are highly susceptible to the formation of this bacteria, particularly during high summer temperatures. Between now and September 1, state and local health regulations require that bakeries, grocery stores, delivery trucks, restaurants, and charitable organizations keep all cream-filled pies and pastries, including custards, under 50 degrees Fahrenheit refrigeration. Food in the home should be just as carefully maintained at low temperatures.

The County Health Officer added that the same danger of bacterial contamination applies also to foods high in protein and moisture, such as milk and milk products; eggs; poultry; fish; shellfish; and food containing salad dressing or mayonnaise, such as potato salads and sandwich fillings. These foods should be served either hot, immediately after cooking, or cold after refrigeration.

Dr. Kearns also suggested that these foods should be the last items on a shopping list and they should be taken home for immediate refrigeration. He warns against leaving such items in a hot car while performing errands.

According to Dr. Kearns, the bacteria that cause food poisoning are all around us and are hard to keep out of food. Because they can be found in the nose, throat, and on the skin, people who prepare food should keep their hands clean and away from food as much as possible by using spoons, forks, and tongs.

He advises that the following rules be followed: keep cold food cold—hot food hot; don't let food stand at room temperature; keep hands clean; but touch food with hands as little as possible; don't let anyone with a skin infection or a cold handle food; keep food handling areas free of flies and cockroaches; protect foods from sneezes, handling and dust; wash dishes, glasses, and silver by approved methods of the Health Department.

Anyone planning to serve a large crowd, or anyone with questions about food handling is invited to call the Health Department, Division of Environmental Health for advice on health regulations at 325-5051, Ext. 211.



TROPHY WINNERS—Members of the Indian Wells Valley Swim Team, coached by Carol Chatterton, were awarded high point trophies recently for point totals capping the season which ended recently. Red-suits present for the occasions are, front row, left to right: Kris Odencrantz, Chris Lockwood, Anne Hugo, and Martin Forrester. Back row, left to right: Linda DeMarco, Jane McGlothlin, Kris Bjorklund, Eric Bjorklund, and Elaine Forrester. Not present for the photo were trophy winners Steve Hamm, Mike Hamm, Vicki Rungo and Cary Miller. The trophies were awarded according to the age group in which each swimmer competed. —Photo by PH2 D. E. Hart

DOD Film On 'Understanding Youth' Today

An unusual film on Youth Communication will be shown today in the Cactus Room of the Community Center at 3:30 p.m. This Department of Defense movie is designed to help close the "understanding gap" between adults and today's youth. The drug problem is one of the themes used in the film. The music posters, movies and newspapers of young people are presented for audience interpretation.

In large part, this film is intended for "establishment type — civilian and military — who deal with and set policies for young people. A general audience is invited, however, and if time and interest permit, a discussion to include local college students will follow the film.

'Cycle Riders Court Death More Often

(Continued from Page 5)

potential operators are tested and licensed separately, laws on speeding and drinking are rigorously enforced, and wearing of protective headgear and other protective gear is made mandatory.

They also recommended some type of light rigid vest as a means of reducing chest and abdominal injuries.



NAF CIVILIANS RECOGNIZED—Civilian employees of the Naval Air Facility were given appropriate recognition during a recent meeting held in the office of Capt. L. A. Dewing, Commanding Officer of NAF. Employees and awards were: seated, l-r, Florence Joles (Capt. Dewing) and Edith Haley, QSI; standing, l-r, James Herman, Sustained Superior Performance; Harry L. Myers, QSI; Jack Kirkpatrick, Sustained Superior Performance; Gae Clark, QSI; and Don Hart and Lloyd Hold who received Outstanding Performance Ratings and QSIs. Bonnie U-dell, not present for photo, received a Sustained Superior Performance Award. —Photo by PH2 Delmar E. Hart

PROMOTIONAL OPPORTUNITIES

(Continued from Page 2)

consist of preparing the comprehensive dummy (a complete detailed plan) for publications, and preparing Camera-Ready Repro which involves selecting from available photographs or art work materials that will fill the need in terms of visual impact and idea communication. Sound background in reproduction methods is also important in the actual creation of otherwise unavailable illustrative material. Minimum Qualification Requirements: 3 years of general experience plus 2 years of specialized for GS-9 and 3 years of specialized for GS-11. 1 year of the specialized experience must have been equivalent to the second lower grade. Job Relevant Criteria: Must have sound training and experience in the design and preparation of printed materials. Must continually create new design approaches. Must demonstrate ability to work harmoniously with contract illustrators and cameramen. Must be aware of department policies concerning all phases of publications. Advancement Potential: GS-11.

File applications for above with Bev Saiger, Code 457, Ph. 2371. Illustrator (Technical Equipment), GS-1020-9 or 11, PD No. 775034-1, Code 7512—This position is located in the Technical Publication Art Section which is responsible for overall graphic approaches and individual illustrations for NWC technical publications. Duties and responsibilities include scheduling and planning to meet predetermined publication dates, layout and execution of scientific and technical illustration and keeping abreast of all new equipment or techniques which might improve the quality or lessen the cost of technical illustrations. Interprets from blueprints rough sketches, actual hardware, written or verbal instructions and translates the information into a graphic form which can be quickly assimilated by the reader. Minimum Qualification Requirements: 3 year general experience plus 1 year specialized for GS-9 or 2 years specialized for GS-11 as outlined in CSC Handbook X-118. 1 year of experience must have been equivalent to the second lower grade. Job Relevant Criteria: Thorough knowledge of layout for all forms of projection, cutaway view, exploded views, and complex schematic. Knowledge of reproduction processes to enable preparation of multilevel mechanicals for camera-ready repro. Should operate with minimum supervision. Advancement Potential: GS-11.

File applications for above with Be Saiger, Code 457, Rm. 212, Ph. 2514.

CENTER LIBRARY LISTS NEW BOOKS

- A complete list of new books is available in the library. Fiction Creasey—The Toff Down Under. Delderfield—Mr. Sermon. Frede—The Coming-out Party. Gaskin—Fiona. Hazzard—Bay of Noon. Silverberg—Across a Billion Years. Ashe—A Clutch of Coppers. Campbell—Analog 7. Condon—Mile High. Parker—Big Phil's Kid. Tack—The Spy Who Wasn't Exchanged. Woolfolk—The Builders. Non-Fiction Fife—Cowboy and Western Songs. Gaddis—Wilde World of Magic. Garvin—Where They Go to Die. Gies—Wonders of the Modern World. Glass—They Foresaw the Future. Hoopes—Limits of Invention. Horowitz—How to Win at Chess. Kistner—The Pill. Knox-Johnston—World of My Own. MacDonald—The Mighty Endeavor. Marshall—The Life of Fishes. Matthiessen—Sal Si Puedes. Mead—Culture and Commitment. Moore—Africa Yesterday and Today. Moorehead—Darwin and the Beagle. Nathan—The Nervous System. Phillips—From the Crash to the Blitz, 1929-1939. Pike—War, Peace and the Viet Cong. Roper—On Gardens and Gardening. Salerno—Crime Confederation. Reed—Covles Complete Encyclopedia of U.S. Coins. Roberts—Leading Teen-age Groups.

Help line line Crisis Intervention CALL 446-5531

The Rocketeer

Official Weekly Publication U. S. Naval Weapons Center China Lake, California Capt. M. R. Etheridge, USN NWC Commander H. G. Wilson Technical Director (Acting) K. H. Robinson Head, Technical Information Department William P. Valentez, Jr. Editor Jack C. Lindsay Staff Writer Lucille Edwards Editorial Assistant

DIVINE SERVICES

PH1 Gary D. Bird, PH2 Delmar E. Hart, PH2 Michael F. Kreuss, PH3 Maurice Dies, PHAN Ronald G. Mills. Staff Photographers 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 in compliance with NavExos P-35, revised July 1958. Office at Nimitz and Lauritsen. Phones 3354, 3355, 2347 Protestant (All-Faith Chapel)—Morning Worship—10:00 a.m. Sunday School—8:30 a.m., Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant. Thursday—Service at 5:00 p.m. (Organ Prelude at 4:45 p.m.) Roman Catholic (All-Faith Chapel)—Holy Mass—7, 8:30 and 11:15 a.m. Sunday. Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. Saturday, 8:30 a.m. Confessions—7 to 8 p.m. Saturday, and 8 to 8:25 a.m. Sunday. NWC Jewish Services (East Wing All-Faith Chapel)—8 p.m. every first and third Friday. Sabbath School—10 a.m. to noon, every first and third Saturday. Unitarian Fellowship—(Chapel Annex 95, 95 King Ave.)—Sundays, 7:30 p.m.

SAFETY KEEPS THE FUN IN YOUR BOATING SPORTS

Blue Cross Ins. Agent At Community Center Tuesday, Aug. 11 The Blue Cross/Blue Shield Insurance representative, Gordon Ellis, will be at the Community Center next Tuesday, August 11, from 10 a.m. to 3 p.m., according to Dan P. D'Anza, Head, Employee Management Relations Division. IN AN EMERGENCY CALL: 446-3333



Union 76 Clinches Softball Championship

Earl Roby's three-run triple Monday night and Mike Gilbranson's diving, seventh-inning catch of Bert Galloway's drive to right field Wednesday each saved Union 76 from possible defeat as the 76ers clinched the China Lake Softball League championship.

Leading the loop by one game Monday, Union disposed of challenger El Ranchito, 4-1, to assure a tie for the championship, then outlasted Ace TV, 7-5, two nights later to take all the marbles.

Neither win came easily for the 76ers, who fell behind El Ranchito, 1-0, in the sixth even though Bert Anderson had a no-hitter through five innings. Union had left eight men stranded in the first five innings, as El Ranchito's Billy Brown managed to escape trouble in every inning.

El Ranchito secondbaseman Harlan Hershley broke up Anderson's no-hitter with a solo homer in the top of the sixth, but Union struck back immediately.

Dave Taylor led off the Union sixth with a single and Don Sichey was hit by a pitch before Jim Ball forced Taylor at third. Anderson then bounced a grounder to Brown, who threw to third for the force-out, but was too late.

After a short dispute over the previous play, Brown hit Lowell Radcliff with a pitch to drive home the tying run and bring up Roby.

The 76er shortstop drilled a line drive to the wall in right center to give Union an insur-

mountable 4-1 lead. Anderson retired El Ranchito in order in the seventh to end the game.

The 76ers found Ace TV troublesome, too. Jim Bevan's leadoff double, an error, two ground outs and the first of Bob Crawford's three hits gave Ace a 2-0 lead after the top of the first.

Again, the 76ers proved equal to the challenge as Roby doubled and scored on Wally Parmenter's home run in the bottom of the inning.

In the second, Gilbranson led off with a single, went to second on Radcliff's sacrifice, and came home on Ball's round tripper. Roby then doubled and came home on an error.

Union scored the last of its runs in the fifth on Parmenter's single and Jim Bradberry's two-run homer to give the 76ers a 7-3 lead.

Ace rallied in the top of the seventh, however, and scored two runs before Gilbranson's heroics ended the game.

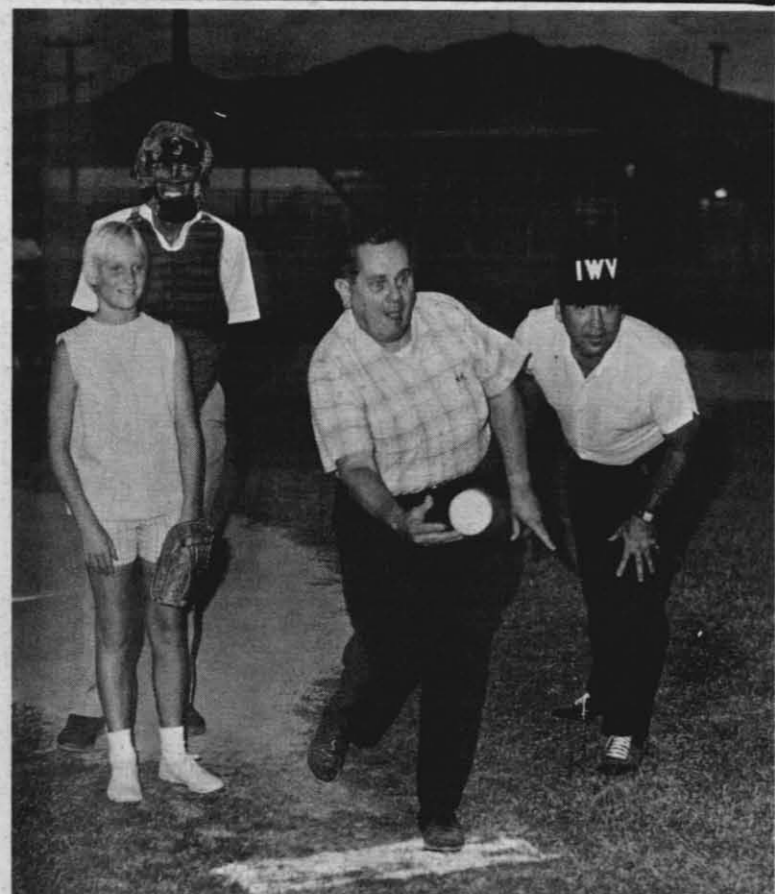
With two out and runners on second and third, Galloway slapped Bob Kochman's pitch to right where Gilbranson streaked to the ball and ended the rally with a diving save.

In games played last week, El Ranchito had set up its showdown with Union by winning twice, 13-3 over Ace TV, and 6-2 over Triangle.

Al Hyles led the El Ranchito attack against Ace with three home runs (a season record) and 4 rbi's. Billy Brown and Hershley also homered.

Union had kept pace by

(Continued on Page 8)



THROWS OUT FIRST BALL—Kenneth M. Smith, Mayor of the City of Ridgecrest, pitches the first ball to signal the beginning of the All-Star game between Ridgecrest and China Lake in the Youth Center sponsored Junior Girls Softball League, which China Lake won 11-9 in seven innings. The girls were selected from various teams by the coaches to represent the two communities. The Ridgecrest Bombers emerged victorious during regular season play.



CHINA LAKE BOWL STAFF—Dean O. Ray, left, and R. C. Jones, right, are the new Manager and Assistant Manager, respectively, of the China Lake Bowl. Ray served under Fred Dalpiaz as assistant manager before assuming his present role. He is married to the former Sherry Dalpiaz, who handles desk chores at the Bowl, and the couple have three children: Trisha Ann, 5, Deborah Lee, 4, and Danny, 2. R. C. Jones is a native of Meridan, Mississippi, and was employed by Stauffer Chemical Company prior to joining Ray's staff. A high average bowler, Jones also enjoys hunting and fishing. He and his wife Dolores have two children, Laurie Lynn, 16, and Jana Jaye, 14. The two men will serve bowlers of the area in the capacity of instructors and intend to be on hand to help local bowlers with any problem which might arise.

Ground Pounders Finish First; Sand Baggers in Second Spot

Like a Monopoly player who has spent most of the game buying properties like Baltic, Mediterranean and St. James, the Ground Pounders finally got the Chance they needed and moved all the way to Boardwalk on their last move.

After languishing in also-ran positions for 12 weeks, the Ground Pounders put together a 2½-1½ win over Code 551 Tuesday in the last week of the Intramural Golf League season to win the league title. The 2½-points lifted the Ground Pounders' season total to 32, enough to edge the second-place Sand Baggers by the slimmest of margins. The Sand Baggers finished with 31½ points.

The Ground Pounders had stayed on the heels of Code 30's No. 2 team for three weeks, and when the Code 30ers were idle the last week of the season, the Pounders filled the breach with victories by Bob Moore and Ken Abplanalp and a tie by Ed Wieske.

The Sand Baggers topped Code 5541 2½-1½, but needed three points to tie for the title. Milt Wolfson and Rolland Morey scored wins for the Baggers, while Larry Sturm won for Code 5541. Frank McDonald tied Cy Chamberlain, the league's leading scorer, in the fourth duel.

The Rocketeers enjoyed their finest outing of the season, as they defeated Code 17, 3-1, on victories by Maurice Dias, Jack Lindsey and Leo Maki.

NAF tied Code 30's No. 1 team, 2-2, but fell one point short of Code 17 in the race for sixth. Steve Schonberg and Bill Tenan won for the Hawks, while Curt Bryan and George Silberberg recorded wins for Code 30 (1).

In other matches, the Chaparrals defeated the One Elevens, 2½-1½, on wins by Bill Irby and Ray Gier and a tie from Bob Crawford.

The Chargers ran over the Duffers, 3-1, and moved up to

a tie for 11th place. Tom Short, Temp Robinson, and Pearse Wiggins notched wins for the Chargers.

In the final non-match, Code 30's idle No. 2 team watched helplessly as its ½-point lead faded into a third-place finish.

Team	Points
Ground Pounders	32
Sand Baggers	31½
Code 30 (2)	30
Chaparrals	29
Code 551	28½
Code 17	27½
NAF	27
Code 30 (1)	21½
Code 5541	21½
Chargers	17½
One Elevens	17½
Rocketeers	14½
Duffers	14

Player	Points
Cy Chamberlain, Code 5541	81½
Dino Sbrocca, Sand Baggers	71½
Gary Wydra, Chaparrals	7
Red Fisher, Code 30 (2)	7
Ed Wieske, Ground Pounders	6½
Ken Abplanalp, Ground Pounders	6½
Ed Brooks, Ground Pounders	6½
Rolland Morey, Sand Baggers	6
Ralph Pinto, Code 30 (2)	6
Ed Nelson, Code 551	6
Roger McCollough, Code 551	6

Three Shoot 66 To Win CLGC's Round of Month

Don Dewitt, Joe Stricheck and Ron Morey each shot a 66 to record the low net score for the month of July, while low gross score (73) was won by Joe Jones.

The Tournament Committee of the China Lake Golf Club reminds all SCGA members of the scheduled 3-club tournament to take place on August 15. This event is being held in honor of the current CLGC president, Capt. L. A. Dewing, who will retire from the U.S. Navy this month.

According to Curt Bryan, a sign-up sheet is already posted in the clubhouse for eligible members who wish to participate in this tournament. The deadline for entries is 5 p.m., August 13.

Latter Day Saints Area Softballers Beat Banning, 17-0

A softball team from the Church of Jesus Christ of Latter Day Saints of Ridgecrest, led by Bert Anderson, buried a team from Banning, 17-0, in a regional tournament game of the Mormon All-Church Softball Championship, held August 1 in San Bernardino.

Anderson struck out 12 of the 16 batters he faced in the shortened five-inning game, barely missing a perfect game when a Banning batter blooped a wrong field single with two outs in the final inning.

The Mormon tournament is the largest softball tournament in the world, with teams from every state and many foreign countries entered. The Ridgecrest team will play again tomorrow night against the Orange County champion, with the winner to play the following Saturday against the San Diego area champion. The winner of that match will journey to Salt Lake City later this month to compete in the finals.

The Ridgecrest team is composed mainly of outstanding players from the local Intramural League, and members of the Mormon team in the slo-pitch league (The Saints).

The starting lineup for last Saturday's game included Bill Bursie, SS; Doc Blakey, 2B; Dave Taylor, 3B; Tom Haus, 1B; Bob Hooper, CF; Lowell Radcliffe, C; Roger Wilcox, LF; Bob Walton, RF; and Bert Anderson, P.

Military Bowling Tourney Is Slated For August 28-29

A bowling tournament for active duty military personnel and their dependents will be staged at the China Lake Bowl August 28 and 29, according to Ralph Brewer, tournament director. The tourney will consist of six games, three games to be bowled on the 28th, and three on the 29th.

Brewer stated that this will be a handicap tournament: ¾ of the difference between average and 200 for the men; and ¾ of the difference between average and 210 for the ladies. Entering average for the contest will be taken from the winter book. If participants have no winter average, then the 21-game summer league average will be used. Persons having no average will use 155 for men and 130 for women.

An entry fee of \$3 will be charged with a 100 per cent prize fund, following line fees. Entry forms may be obtained at the China Lake Bowl.

This tournament is sponsored by the newly-formed Recreation Committee as part of a continuing program to sponsor various forms of recreation for military personnel at NWC.

Slo-pitch League

Team	Won	Lost
Maulers	15	3
CBL All Stars	15	3
Muthas	13	5
Warriors	12	6
Saints	11	6
Maladroits	8	10
Lords	5	13
Sand Blasters	5	13
7231	3	15
Decibels	2	16

Twenty-Seven Receive NWC Fellowships

Seventeen To Receive Fellowship Support for First Time

Twenty-seven NWC employees have been awarded NWC Fellowships to pursue graduate study during the coming 1970-71 academic year, according to Dr. A. G. Hoyem, NWC Education Director. Seventeen of the recipients will be receiving NWC Fellowship support for the first time; the other ten will be on extensions of former awards.

Four of the new recipients will pursue doctorate studies at the Naval Postgraduate School and eleven are participants in the local USC graduate program in engineering and will be going to USC for one semester of study on campus. Those who will be attending USC during the coming fall semester include:

Keith E. Clark, Code 3012. Clark graduated from Oregon State University in June, 1967 with a Bachelor of Science degree in Mechanical Engineering, and is currently employed in the Design and Development Branch of the Systems Development Department. He and his wife Karen and two sons Timothy and Todd reside at 104-B Dobb Road, China Lake.

Ronald J. Cohn, Code 3072. Cohn is a graduate of the University of California at Berkeley where he received his Bachelor of Science degree in 1965. He is employed in the Supersonic Track Division of the Systems Development Department and resides at 404-B Monterey Street, China Lake.

James G. Dixon, Code 3512. Dixon received a Bachelor of

Science degree in Aerospace Engineering from the University of Arizona in January 1968. He is employed in Missile Development Branch B of the Aviation Ordnance Department. He and his wife Mary reside at 304-A Thompson Street.

Larry D. Levsen, Code 4041. Levsen graduated from the University of Iowa in 1968 with a Bachelor of Science degree in Electrical Engineering. He is presently employed in the Guidance and Control Systems Division of the Weapons Development Department. Levsen and his wife Virginia reside at 306-A Fowler Street, China Lake. (Continued on Page 5)



KEITH E. CLARK



LARRY LEVSEN



JAMES DIXON



ROBERT ARNALDO



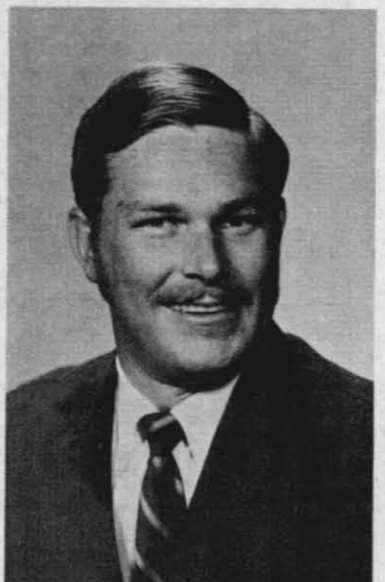
JOHN LORCH



JOHN BRAMMER



JAMES MARSHALL



T. W. HAMPTON



RICHARD A. SCHMITT



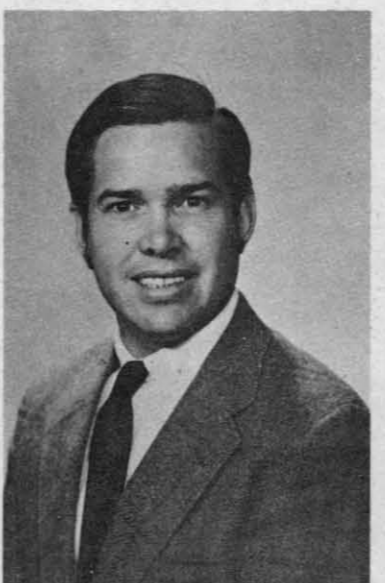
RONALD COHN



PHILLIP HARRY



RICHARD SMITH



C. G. ASHLEY



F. D. GROUTAGE



DON D. PAUL



M. L. SCHMITT



LLOYD SMITH

From the Desk of Delbert Black . . .

Master Chief Petty Officer of the Navy

Three years ago, I recommended to the Chief of Naval Personnel that a board be established to review the service records of career Navy personnel who had been receiving unfavorable evaluations. Last year the petty officer performance review board was established by BuPersNote 1610 of 14 Nov. 1969, and met for the first time last January.

After the board had finished screening 4,061 service records of Senior and Master Chief Petty Officers, (all with dates of rank before January 1967), only 75 men were considered to be falling down in their performance and merited some sort of administrative action. It is encouraging to me and should be to all enlisted men, that only a very small percentage of senior and master chief petty officers have not been meeting the standards that are expected of them and their contemporaries.

Since the announcement was made that a performance review board was being established, I have received many inquiries asking how many men will be "axed" and what will the board look at in a man's service jacket. To alleviate any misconceptions and fears you may have about the actions of future review boards, let me assure you that the man who is doing his job has nothing to worry about. In fact, after looking at the records of the 4,000 senior petty officers, the board was highly impressed with their records and performances. The 10 senior officers who comprised the board are all experienced naval officers, totally familiar with professional requirements, and well versed in reviewing and evaluating enlisted service jackets. Also, to dispel any doubts, the board met with no planned reduction policy or quota in mind or intended, and will not do so in future meetings.

The 75 senior petty officers who were either (1) sent letters of warning; (2) sent letters of warning plus a request for special six-month evaluations from their commands; (3) sent letters of warning and are required to receive approval of the Chief of Naval Personnel prior to re-enlisting or (4) immediately transferred to the Fleet Reserve because of extremely poor performance, must have been good Navy men to have achieved the grades they had. But somewhere they slipped — perhaps recently or perhaps earlier in their naval careers.

At some time in their careers, perhaps these men began to feel that they had reached their desired goals and no longer needed to carry out their obligations to their men and to the Navy. In these cases, the board serves to eliminate those men who are detrimental to the maintenance of a highly professional enlisted career force. The functions of the board are intended to assure career personnel that their high professional standards and competence are recognized and that these same attitudes will be expected and required of their contemporaries.

The records of the men who were sent letters of warning will be looked at again. And it is hoped that further action will not be necessary. Also, in the future, I hope that fewer and fewer people will have to be reminded that they are not fulfilling their service responsibilities.

As we move toward a finer system of quality control, and as the Navy decreases in size so that quality and not quantity is stressed, the need for petty officer performance review boards may cease to exist. But by its present existence, we are able to see that only a small number of men are not doing their jobs. This number indicates that there is progress being made toward bettering the quality of today's Navy and today's Navyman.

Armed Forces Voting Day Sept. 25

September 25 has been designated Armed Forces Voting Day.

In a memorandum to the service secretaries, Deputy Secretary of Defense David Packard asked that every effort be exerted to insure the success of this special occasion.

He told the secretaries to make certain that all eligible individuals of the military community are afforded the means by which they may cast their

ballots.

"The right to vote is a product of freedom which was cherished by the American colonists and won in our Revolution," Mr. Packard said. "Every eligible citizen has the obligation to express himself through his ballot. We, as members of the United States armed forces, should exercise this fundamental right and fulfill our obligations in this important way."

Ridgecrest Bombers Win Juniors, Green Hornets Capture Seniors

The China Lake Youth Center sponsored Girls Softball Leagues completed the regular season on July 30 with the Ridgecrest Bombers winning the championship in the Junior League and the China Lake Green Hornets in first place in the Senior League.

The season will officially terminate for the Junior League on August 4 and the Senior League on August 6 with the playing of All Star Games at 7:30 p.m. on China Lake Little

League Diamond number three. In both leagues the Ridgecrest Division will play the China Lake Division. Girls from all teams in the leagues were selected by managers and coaches on the basis of ability, sportsmanship and competitive spirit.

This program was sponsored by the NWC Youth Center, and the City of Ridgecrest, to provide a recreational opportunity for girls.



NEW ANNUITANTS—Sixteen Corona employees who retired on July 31 and who are taking advantage of the 5.6% increase in annuity which will be sent to all retired Federal employees of record on August 1 are (l-r): Mike Beggins, Edwin Green, Norman Sorenson, Leonard Pochop, Matthew Muir, Marvin Axelfon, Thomas Whiteley, James Edwards, Edward Paul, Jr., Kenneth Van Orsdel, and George Worthington. Not present for the photo were Gertrude Brewster, Cecil Caldwell, Robert Conger, Charles Jenkins and Carl Wood.

—NWC Corona photo

New Eclipse of Moon To Provide Dramatic Lesson

Americans in August can discover the world is round—the same way the ancients did.

A dramatic lesson, part history and part science, will be repeated for those who have missed the twice-a-year spectacular in the past. An eclipse of the moon—the Earth's shadow falling on the moon—will occur Aug. 16 and be visible throughout the United States except in the Pacific Northwest, Alaska and Hawaii.

The phenomenon will be a partial eclipse. Instead of the Earth's shadow blotting out the entire shiny face of the full moon, only about 40 per cent will be darkened.

The eclipse will begin at 7:06 p.m. EST with part of the moon growing gradually darker, then lighter until the eclipse ends at 11:40 p.m.

It was the shadow of the

Earth, especially the curved edge of the shadow, that made ancient skywatchers suspect the Earth was circular.

Lunar eclipses occur when the orbits of the Earth and moon line up approximately in the same plane, and the moon swings into the 900,000-mile shadow thrown by the Earth. When the moon merely grazes the shadow, a partial eclipse occurs, but when the entire moon passes into the shadow, it is a total eclipse.

The light rays from the sun are bent by the Earth's atmosphere as they skim across the edge of the Earth and streak on into space. The atmosphere traps most of the blue rays, but the red rays pass on through and eventually fall on the moon, giving it a reddish cast.



U.S. SAVINGS BONDS



CODE 40 RETIREES—The Michelson Laboratory Cafeteria was the scene of a retirement party for five employees of Code 40, Friday, July 30, who completed 131 years of Federal Service between them. The retirees, and their individual length of service, are, l-r: Martin A. Seaholm Jr., 25 years; Ella E. (Betty) Pierce, 19 years; Lewis A. Stevens, 34 years; Dr. Howard R. Kelly, 24 years; and Donald R. Boresford, 29 years.

Seventeen Receive New Fellowships

(Continued from Page 3)

James R. Marshall, Code 4063. Marshall is a graduate of Virginia Polytechnic Institute in June, 1968. Marshall spent his first two years at China Lake as a Navy enlisted man working in the Aerodynamics Branch of the Weapons Development Department. He is now employed as an Aerospace Engineer in that Branch. Marshall resides at 108-F Lauritsen Street, China Lake.

Donny B. Paul, Code 4585. Paul has a Bachelor of Science degree in Mechanical Engineering, awarded by Michigan State University in July, 1968. He is at present a member of the Materials Technology Branch of the Propulsion Development Department. Paul, his wife Leslee, and daughter Michelle reside at 308-A Entwistle Street, China Lake.

Richard A. Schmitt, Code 5522. Schmitt is a graduate of the University of Oklahoma where he received a Bachelor of Science degree in Electrical Engineering in June, 1968. He is currently employed in the Electronics Branch of the Engineering Department and resides at 109-A Hornet Street, China Lake.

Richard M. Smith, Code 3045. Smith is a graduate of Chico State College where he received a Bachelor of Arts degree in Applied Mathematics in 1962 and a Bachelor of Science degree in Electrical Engineering in 1963. He has been employed at NWC since 1963 as an Electronics Engineer in the Electronics Systems Branch of the Systems Development Department. Smith, his wife Sharon, and son Stanley reside at 302-B Thompson Street, China Lake.

Those who will be attending USC for the Spring Semester are:

Robert G. Arnaldo, Code 3536. Arnaldo graduated from UCLA with a Bachelor of Science degree in Engineering in 1966 and began his employment at NWC in May, 1967. He is employed in Development Division No. 3 of the Aviation Ordnance Department and resides at 403-A Monterey Street, China Lake.

Phillip D. Harry, Code 5523. Harry is a graduate of Oregon State University where he was awarded a Bachelor of Science degree in Electrical Engineering in June, 1967. He is employed in the Guidance Evaluation Branch of the Engineering Department. He and his wife, Jo Beth, a son, Eric, and a daughter, Debraha, reside at 104-A Parsons Street, China Lake.

John R. Lorch, Code 4021. Lorch is a graduate of the University of Wisconsin where he received a Bachelor of Science degree in Electrical Engineering in January, 1965. He is at present a member of the RF Measurements Branch of the Weapons Development Department. Lorch, his wife, Elizabeth, a daughter, Lynnette, and son, Matthew, reside at 68-B Rodman Street, China Lake.

Doctoral Candidates

The four who will be enrolling in the Cooperative Doctoral Program for civilians at the Naval Postgraduate School are: **Carl G. Ashley**, Code 4234. Ashley will pursue doctorate studies in Electrical Engineer-

ing. He received his Bachelor of Science degree in Electrical Engineering at the University of Missouri at Rolla in June, 1964 and was awarded a Master of Science degree in Electrical Engineering at Arizona State University at Tempe in 1967. He has been employed at Corona Laboratories since June, 1964. Ashley, his wife Linda and two sons, Matthew and Michael, reside at 622 Atwood Circle, Corona, California.

Frederick D. Groutage, Code 4262. Groutage will pursue graduate study in Electrical Engineering and in guidance and control specifically. He is a graduate of the University of Wyoming where he received a Bachelor of Science degree in Electrical Engineering in 1966 and a Master of Science degree in Electrical Engineering in 1968. Groutage has been employed at NWC Corona Laboratories since 1968. He and his wife Nancy reside at 915 Paseo Grande Road, Corona, California.

Michael L. Schmitt, Code 4262. Schmitt will pursue graduate study in Solid State Physics. He received a Bachelor of Arts degree in Physics from Occidental College in 1964 and a Master of Science degree in Physics from Fresno State College in June, 1966. Schmitt and his wife Linda and daughter Cynthia reside at 521 San Geronimo Drive, Corona, California.

Lloyd H. Smith, Code 4566. Smith will pursue graduate study in Engineering Mechanics. He received a Bachelor of Science degree in Aeronautical Engineering in 1964 from California State Polytechnic College at Pomona and earned a Master of Science in Engineering through the UCLA off-campus graduate program at China Lake in 1968. He has been employed at the Naval Weapons Center at China Lake since June, 1964. He, his wife Beatrice, and son Roger, reside at 410-A McIntire Street, China Lake.

All of the four who will be attending the Naval Postgraduate School received awards of 12 months duration. Ashley began his studies in July, 1970; the rest will enroll in September, 1970.

The other two new recipients of NWC Fellowships are:

John E. Brammer, Code 4003. Brammer was awarded a nine months fellowship and will attend the University of Arizona at Tucson to pursue graduate studies in Reliability Engineering and Quality Analysis. He is a graduate of Virginia Polytechnic Institute where he received a Bachelor of Science degree in Mechanical Engineering in 1956. He commenced his employment at the Naval Weapons Center, China Lake in 1968. Brammer, his wife Eleanor and two children, Sandra and Lawrence, reside at 251 Alene Street, Ridgecrest.

Thomas W. Hampton, Code 5051. Hampton was awarded a fellowship of 9 months duration and will attend the University of Utah where he will pursue graduate studies in Mechanical Engineering, specializing in Applied Mechanics. He is a graduate of California Polytechnic College at Pomona where he received a Bachelor of Science degree in Mechani-

cal Engineering in September, 1967. He has been employed at the Corona Laboratories since August, 1967. Hampton, his wife Christine and son Eric reside at 1532 Mariposa Drive, Corona, California.

Extensions

The ten employees who have been granted extension of their current fellowships are:

Marko Afendykiw of the Systems Development Department, Code 3045. Afendykiw is attending the University of Michigan and received a 3 months extension to complete studies in Electrical Engineering.

Milton L. Brown of the Propulsion Development Department, Code 4535. Brown was awarded a 9 months NWC Fellowship for continuation of graduate studies in Mathematical Statistics, commenced this past year under a WEPPOSE Award, at the University of California at Davis. Brown will attend USC this coming year.

Richard J. Gleeson of the Systems Development Department, Code 3033. Gleeson received a 9 months NWC Fellowship for completing graduate studies in Applied Mathematics at the University of California at San Diego. Gleeson began his graduate studies this past year under a WEPPOSE Award.

Robert B. Hall of the Propulsion Development Department, Code 4583. Hall pursued graduate studies in Mechanical Engineering at the University of Arizona this past year under a WEPPOSE Award and has been granted a 9 months NWC Fellowship to continue those studies.

John W. Joyner of the Weapons Development Department, Code 4056. Joyner is pursuing graduate studies in Physics at the University of Texas. He received a 6.5 months extension.

Joseph A. Mosko of the Weapons Development Department, Code 4022. Mosko is attending the University of California at Berkeley and received a 9 months extension to continue his graduate studies in Electrical Engineering.

Donald G. Sherman of the Systems Development Department, Code 3043. Sherman is attending Arizona State University at Tempe under an NWC Fellowship and he received a 7.5 months extension to continue studies in Electrical Engineering.

William H. Smith of the Weapons Development Department, Code 4040. Smith is attending Arizona State University at Tempe where he is pursuing graduate studies in Operations Research and Systems Analysis. He received an extension of 6.5 months to continue his studies.

Starnes E. Walker of the Fuze Department, Code 5012. Walker is pursuing graduate studies in Physics at the University of California at Riverside. Walker received a 9 months extension for continuation of his studies during the 1970-71 academic years.

Lonnie A. Wilson of the Aviation Ordnance Department, Code 3573. Wilson is attending the University of California at Los Angeles where he is pursuing graduate studies in Electrical Engineering. He received a 5.5 months extension.



PROCUREMENT ORIENTATION—Lcdr. G. L. Milliken (l), and Capt. L. G. Maxwell (c), of the Los Angeles Navy Regional Procurement Office met with NWC's Director of Supply, Capt. E. M. Wiesseke (r) during their two-day visit to the Center this week. Their visit included discussions with department heads, the Commander and the Executive Officer for an orientation of the Center's mission and procurement requirements.

Study Shows 'Cycle Riders More Prone to Fatalities

An individual involved in a motorcycle accident has a greater chance of being buried than one involved in an automobile accident.

That is the conclusion drawn from a study conducted by Navy Captain Bruce H. Smith, director of the Armed Forces Institute of Pathology (AFIP), and Navy Lieutenant Louis P. Dehner.

According to the study — "Fatal Motorcycle Accidents of Military Personnel"—motorcycles represent 2 per cent of the registered vehicles on the road, but are involved in 1.3 percent of all vehicular accidents. They also account for 3.4 per cent of all fatal accidents.

The study went into detail on 219 motorcycle accidents resulting in 223 fatalities. The

most common type of accident involved a single motorcycle with its driver as the victim. Excessive speed and loss of control on a paved roadway were the most common circumstances of a motorcycle accident.

Protective headgear — required for motorcyclists in 36 states—did not protect some of the victims. The study indicated that helmets showed a tendency to shift the injury site from the top of the head to the base of the skull. Chest and abdominal injuries caused many deaths, but in 80 per cent of the cases the victims suffered head injuries.

Capt. Smith and Lt. Dehner concluded that the chances of surviving a motorcycle accident "may be enhanced if the

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PIANOS DONATED TO GIRL SCOUTS—Members of Girl Scout Troop No. 64 admire one of the two pianos donated to the Girl Scouts as one of the troop's service projects this year. Donors of the pianos are the Donald Ruff family, of China Lake, and the Mel Creusere family, of Ridgecrest.