



30 YEAR PINS PRESENTED—Six employees of the Public Works Department were the recent recipients of 30-year Federal Service pins.

### PW Employees Receive Service, Safety Awards

Ceremonies recognizing employees for length of service and accident-free performance of duty were held recently in the Public Works Department.

Pins denoting 30 years of Federal service were presented by Capt. W. H. Sturman, Public Works Officer, to Ed Casaroli, a supervisory maintenance engineer; Vernon Knigge, an operating engineer (hoisting equipment); Henry Linsea, an electronics mechanic; Jim Peck, a foreman operating engineer; Leroy Printy, also an operating engineer (hoisting equipment), and Warren Tripp, a telephone central office repairman.

Twenty-year pins went to: Berl D. Brown, Clyde Burum, Vaughn Corbridge, Scott F. Hargrove, Kenneth P. Jones, Charles Sewell, Jr., and to Melvin C. Taunton.

Pins representing 10 years of federal service were awarded to: Artie C. Blackston, Nolan Clawson, Gerhard Hillebrand, Cecil Howerton, Bruno J. Pannuto and Alice Thorpe.

Those receiving five-year pins were: Jerry Brantner, LeRoy Carson, Eldon Chipp, Darwin Comer, Richard P. Daniels, James Elliott, Joseph Foster, Kenneth Hendershot, Theodore A. Johnson, Neil A. LaFortune, William E. Lyons, Jr., Frank McElfish, Jerry L. Morrison, Thomas A. Mullin, Charles Nelson,

Antonio A. Schultz, Leroy A. Sims, Jr., Lloyd Stair, Louis Steinhoff and Marvin Windsor.

Public Works Department personnel who received supervisory awards for consecutive years of accident-free service were: James F. Peck and Myron L. Scovil, 16 years each, Edwin H. Hogue, 10 years, Bobby R. Brown and Thomas W. Boyd, 9 years, and Frank Donnelly, 7 years—all in the Transportation Division; and John L. Irvin and Jack O. Ramsey, 6 years, Tyam K. Kahn, 4 years, and George C. Hartzell and Melvin R. Martin, 1 year each—all in the Maintenance-Utilities Division.

Louis D. Pipkin, an engineering equipment operator, and Vernon Knigge, an operating engineer (heavy equipment) were the recipients of awards denoting 12 and 11 years of accident-free material handling and equipment operation.

Winding up the safety awards presentations were those presented to personnel in the Transportation Division for years of accident-free vehicle operation.

Recipients were: Jeff P. Blanch, 11 years; Thomas E. Stoudemire, 8 years; Marion V. Manning, 7 years; Eddie L. McDowell, Buster B. Wade and Douglas J. Yeager, 3 years each; and Victor Dussalt, 2 years.

### Robert Gervais Resigns

#### Community Council Schedules Election to Fill Vacancy

Plans were announced this week for holding an election to fill the vacancy in Precincts 5 and 6 left by the recent resignation of Robert Gervais as a member of the China Lake Community Council board of directors.

A new director will be elected at the Sept. 14 meeting of the Community Council, which is to be held at 7:30 p.m. in the Joshua Room of the Community Center. Regular meetings of the Community Council board of directors are held at this same

time and place on the second Tuesday of each month.

China Lake residents over the age of 18 living within the boundaries of Precincts 5 and 6 who are interested in serving on the Community Council are encouraged to contact Richard Schultz, their precinct director, by calling 446-5664, or any of the following members of the nominating committee: Mrs. David Chapman, 446-4921; Louis Thompson, 446-6697, or Eugene Baker, 446-3284.

## 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  
(GP) - ALL AGES ADMITTED  
Parental Guidance Suggested  
(R) - RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian

FR 27 AUGUST

"THE HAWAIIANS" (133 Min)  
Charlton Heston, Tina Chen  
(Adventure) Sequel to James A. Michener's novel "Hawaii" deals with settlement of Chinese in the 50th state and the introduction of the pineapple. Splendid photography of a film epic of romantic tropics. (GP)

No Shorts

SAT 28 AUGUST

-MATINEE-

"KATI & THE WILDCAT" (45 Min)

Narrated by Jim Backus

"A FALLIBLE FABLE" (7 Min)

"PECOS BILL" (22 Min)

-EVENING-

"FOUR CLOWNS" (97 Min)

Stan Laurel, Oliver Hardy

Buster Keaton and Charlie Chase

(Comedies) A compilation of some of the funniest comedies these masters of the art of laughing ever produced. They're guaranteed to roll you in the aisles with gags you've never seen before. C'mon and laugh! (G)

"BEEZY BEAR" (7 Min)

SUN and MON 29-30 AUGUST

"HOW TO FRAME A FIGG" (103 Min)

Don Knotts, Joe Flynn

(Comedy) The funniest frame-up of all time as a bunch of small town politicians blame all their graft on poor shooch Don who finally plays detective with his computer. You'll have a riot of fun with this! (G)

"WOODY THE FREELoader" (7 Min)

TUES and WED 31 AUG. & 1 SEPT.

"A NEW LEAF" (102 Min)

Walter Mathau, Elaine May

(Comedy) Aristocratic New York socialite suddenly finds himself flat broke, contemplates suicide but takes his butler's suggestion that he forgo bachelorhood for a rich marriage. Whatta courtship! What laughs! (G)

"ANNABELLEE" (9 Min)

THURS and FRI 2-3 SEPT

"REDSKY AT MORNING" (113 Min)

Richard Thomas, Catherine Burns,

Desi Arnaz, Jr.

(Drama) Teenager and his ineffectual mother move into a small New Mexico town where his adventures include a young Mexican boy and a gutsy young babysitter. Drama, excitement and laughs from the novel. (GP)

No Shorts



ANN SEITZ TO RETIRE—Ann Seitz, manager of the Community Center since its opening in April 1954, will retire after 20 years of service to the Naval Weapons Center.

### Youth Center Movie Matinees

All Pictures Rated "G"  
(All pictures begin at 1 p.m.)  
No Passes needed  
Youth Center yearly paid up member: Free  
Non-members: 25c

MONDAY AUGUST 30 SEVENTH VOYAGE OF SINBAD (89 Minutes)  
Sinbad searches for the beautiful princess who has been placed under a magic spell by the wicked magician, Sokurah, and she was reduced to five inches tall. In his attempts to rescue the Princess, Sinbad must battle many fearsome creatures. Delightful adventure. (Color - Action - Adventure)

THURSDAY SEPTEMBER 2 THE THREE WORLDS OF GULLIVER (100 Minutes)  
Gulliver is cast adrift in the land of Lilliput. A towering giant in that country, he helps two Lilliputians to find love and romance, destroys the war fleet of the Lilliputians' enemies and performs other prodigies worthy of a giant. In the land of Brobdingnag he becomes a miniature household pet until he incurs the king's wrath. A thrilling classic. (Color-Fiction)

### Guppy Completes Test at NWC

Crosswind landing tests, the final phase of a year-long Federal Aviation Agency certification program for the Boeing 377 (Super Guppy SGT) were carried out last Friday and Saturday at the China Lake Naval Air Facility.

The tests were conducted here by personnel of Aerospace Labs, Inc., of Santa Barbara, under a contract with the National Aviation and Space Administration.

Aboard as first pilot to check out the airworthiness of the Super Guppy during crosswind landings was Don Alexander, an FAA pilot, while at the controls of the huge craft was William Nolan, a pilot employed by Aerospace Labs.

This particular aircraft, one of five Super Guppies, is now slated for delivery to France where it will be used to haul parts for the Anglo-French supersonic transport the Concorde.

Appearance of the huge aircraft flying at low levels in the sky over Indian Wells Valley during test operations here attracted the attention of many local residents.

## Instruction Issued On Implementation of 90 Day Wage-Price Freeze

The President, by Executive Order 11615, instituted a 90 day wage-price freeze to begin Aug. 15, 1971. The Secretary of the Navy issued instruction concerning the implementation of the 90 day wage price freeze within the Navy Department.

Effects of the freeze on NWC employees are:

1. No new wage schedule will be issued with an effective date within the freeze period.
2. All Within-Grade Increase, Quality Step Increase, and Incentive Awards are suspended if their effective date is within the freeze period. However, the normal effective date of the Within-Grade Increase will be considered as the date of the last equivalent increase for future Within-Grade Increase purposes. The waiting period for subsequent Within-Grade Increase will begin on the date that the Within-Grade Increase would have been awarded had the wage-price freeze not been in effect.
3. Employee suggestion awards are allowed.
4. Promotion actions resulting from Merit Promotion procedures (vacant positions advertised in the Rocketeer) may be effected.
5. Promotion actions resulting from a position being classified to a higher grade due to job enlargement, correction of classification error or change in classification standards will be withheld pending issuance of further clarification.
6. Personnel actions other than those above with effective dates on or after Aug. 15, 1971, are to be processed in the usual manner as a matter of record with rate of pay fixed in accordance with current laws and regulations. However, actual salary paid to employees may not exceed employee's current rate of basic pay while the salary freeze is in effect.

In addition to the above, Office of Management and Budget has directed that the average grade level in the Federal Service must be reduced. The Department of the Navy has been directed to reduce its average grade level by .15 in Fiscal Year 1972 and .15 in Fiscal Year 1973.

### DFG Personnel Attend Desert Safety Course

A three-day course in desert safety was conducted last week at the Naval Weapons Center for the benefit of more than 30 game wardens, biologists and other officers from the California Department of Fish and Game.

The course, arranged under the direction of Dr. Carl F. Austin, of the Research Department, and Gary M. Peek, an NWC fire fighter crew chief, consisted of lectures, demonstrations and field practice.

While Dr. Austin and Peek, who are both members of the Indian Wells Valley Search and Rescue Team, are knowledgeable on the subject of desert safety, they drew freely from other talent to be found aboard the Naval Weapons Center in order to have a wide range of expertise available for the benefit of class members.

Purpose of Course  
Purpose of the course, as outlined in introductory remarks presented by Jim White, of the DFG, was to review, update and improve upon the desert travel skills of DFG employees whose work is primarily in desert areas.

Initial impetus for offering such a course came from White, a training officer for the Department of Fish and Game, who was

searching through library reference material for information that has been published about desert travel.

In this search, White came across a booklet entitled "Common Sense in Desert Travel" published by the Maturango Museum. Liking the contents and style of presentation, he decided to see if the authors, Carl and Barbara Austin of China Lake, could be contacted.

Approval Given  
After receiving both telephone and written communications, Dr. Austin, working with Peek, agreed to teach a course in desert safety and approached representatives of the NWC Command with their proposal. Capt. A. E. May, the Deputy Commander responded by stating: "This effort is in keeping with the Center's program of wildlife preservation and continuing cooperation with Federal and State agencies."

Once this backing was received, steps were taken to organize and conduct the desert safety course.

The visiting group, more than 30 strong, was welcomed to the Naval Weapons Center on Tuesday of last week by Capt. W. H. Sturman.



FINDING WATER IN THE DESERT—The game wardens learned that one way is to build a solar still. Two of the NWC visitors are seen digging the hole in preparation for building one of the unique stills.



ELECTRICIANS RUSH to complete the wiring prior to finishing one of the huts on the Murray School campus. All of the huts (15 at Murray and 7 at Groves) have been completely renovated with new wiring, ceilings, carpeting, walls of rich-looking paneling and color-schemed blackboards.

## Huts Remodeled For Classroom Use in Fall

With the start of a new school year just around the corner (on Tuesday, Sept. 7), assurance was given at last week's meeting of the

### Teacher Pay Increases May Now Be Delayed

Teachers of the China Lake Elementary School District, whose salaries were scheduled to be increased 5.6 per cent as the result of school board action taken on July 1, are uncertain now just how things stand for them in relation to the recently announced federal wage-freeze regulations.

On Wednesday, the Cost of Living Council in Washington said that teachers due raises and other salary adjustments in September would be treated the same as year-round employees whose raises went into effect prior to the Aug. 15 wage freeze.

However, state officials in Sacramento as well as school attorneys and regional federal officials have ruled that a close reading of the Office of Emergency Preparedness regulations prohibits pay raises for teachers during the period that the wage freeze is in effect.

In view of this, state officials in Sacramento have advised local school districts to postpone teacher salary increases until their confusion is resolved.

According to Dr. Sol Spears, assistant superintendent for curriculum of the China Lake Elementary School District, school administrators here have received information from Kern County school officials that no salary increases for teachers or other school district personnel will go into effect, except in the case of those who had been granted pay boosts and were on the job prior to Aug. 15.

China Lake Elementary School District board of trustees that all of the huts needed for temporary pupil housing will be ready for use.

In order to avoid the necessity of going to double sessions for pupils in some grades of the China Lake School District, while extensive rehabilitation work is being carried out at both Richmond and Vieweg Elementary Schools, it was decided instead to refurbish a number of huts at both Murray and Groves Schools and use them as classrooms.

Improvement work at the huts (15 at Murray and 7 at Groves School) has included the installation of refrigerated air conditioning and carpeting, in addition to upgrading of the insulation on each of the huts, Grant Pinney, assistant superintendent for the business of the China Lake School District, reported.

Work on Schedule  
In addition, Pinney advised that work currently being carried out under the supervision of the McKittrick Construction Co. of Bakersfield on rehabilitation of the Richmond Elementary School is expected to be completed on schedule, and will permit a Christmas vacation move of books and equipment from the huts back to Richmond School.

Huts vacated by the Richmond School students and teachers will be moved into by their counterparts at Vieweg School, where a rehab job similar to the one at Richmond will be commenced during the early part of the new year.

Still more school construction work is in the offing at China Lake, Pinney stated, as he also told school board members that Phase II of the district's building program has been approved, and the preparation of working drawings for the new construction is in its final stages.

Inside . . .

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WASTE COSTS MONEY... HELP SAVE YOUR TAX DOLLAR

From \_\_\_\_\_

TO \_\_\_\_\_

PLACE STAMP HERE



SERVICE PIN AWARDS CEREMONY — Employees of Code 304, Technology Development Division, headed by Leroy D. Marquardt, were recently awarded length of service pins at a brief ceremony. They are, front row, l-r: Dan Soto, 20-

yr. Federal pin; and Ed Short, 20-yr. NWC pin. Back row, l-r: Ken Bryant, 20-yr. Federal; Aaron Scheer, 20-yr. Federal; Eldon Faris, 20-yr. NWC; Art Craddock, 20 yr. Federal and NWC; Vern Monkton, 30-yr. Federal.

### Enlistment in Seabee Reserve Program Open

A special Naval Reserve enlistment program that provides training without requiring active duty was announced here this week by Cdr. Richard Malone, USNR, commanding officer of Mobile Construction Battalion 17, Sub-unit 11-2, of China Lake.

Young men between the ages of 18 and 27 who are interested in training in the construction trades are urged to apply as early as possible, since it will be necessary for paper work to be processed in time for them to report by mid-October at the SeaBee Center in Gulfport, Miss., where they will undergo recruit training and then attend one of the special schools. SeaBee construction trade training courses vary from 4 to 10 months in length. Upon completion of this schooling, the men will return to civilian life and be assigned to the local SeaBee Reserve unit.

### Branch Heads Have Lists Of Fall Classes

The Fall 1971 schedule of classes and development opportunities has been distributed down to Branch Head level. All academic programs and individual classes that have been scheduled at China Lake are included. Interested employees are encouraged to contact their supervisors regarding participation in these development opportunities. Personnel management advisors and personnel in the Employee Development Division (Code 654) are available to assist employees and supervisors in their development planning.

### Supervisors who want extra copies of this schedule should contact Code 654.

### Class Slated In Techniques Of Listening

Dr. Bertram Barer, a communications consultant and an instructor at San Fernando Valley State College, will teach a course entitled "Techniques of Listening" at the Training Center on Sept. 8, 9 and 10. The 18-hour course will cover retention and comprehension of information through the ability to listen. To be taught through the workshop format, special emphasis will be placed on how effective listening influences the productivity and performance of technical and non-technical personnel. Participants will become aware of the techniques of effective listening and how to use these tools. Persons interested should submit NWC Enrollment Form 12410-28 through proper departmental channels. Enrollment will be limited to 20 students. Enrollments should reach Code 654 no later than Tuesday, Aug. 31.

### 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 most recent previous supervisor. Selection shall be made without discrimination for any nonmerit reason.

Clerk DMT, GS-316-3 or 4, PD No. 7145075, Code 4543—Incumbent serves as secretary to the Head, Pyrotechnics Branch and performs clerical and secretarial functions for the Pyrotechnics Branch, Explosives & Pyrotechnics Division, Propulsion Development Department. This position is located in the CT Area (Bldg. 425) of the Propulsion Development Department. Incumbent receives visitors, answers phone calls, schedules appointments, is responsible for all forms of correspondence, processes mail and maintains filing systems. Edits and types technical letters, papers, and reports for the supervisor and other members of the group. Qualification Requirements: For GS-3: one year of appropriate experience for GS-4: Two years of appropriate experience as defined in CSC Handbook X-118. Job Relevant Criteria: Experience in the secretarial, or stenographic field, and the ability to operate a dictating machine is desirable.

Clerk-Typist GS-322 or 4 PD No. 7145074, Code 4572—This position is located in the Solid Propellants Branch (Bldg. 151, Salt Wells Area), Propulsion Systems Division, Propulsion Development Department. Incumbent performs a variety of clerical and secretarial type duties for the Branch. Incumbent types correspondence, letters, memos, technical reports, and maintains standard files. Duties include typing, timekeeping, personnel and leave records, travel orders, mail collection and distribution. Job Relevant Criteria: Must be a qualified typist. Qualification Requirements: As defined in CSC Handbook X-118.

File applications for above with Linda Grossman, RM 204, Bldg. 34, Phone 2925. Housing Project Assistant, PD No. 7079025, Code 705, GS-1173-7: Duties—Responsible for the management of approximately 1/3 of the 3200 NWC housing units. Acts as the primary contact between Center residents and Center management. Incumbent assures that each tenant is assigned a clean, safe, livable home; receives and resolves tenant complaints; conducts all housing inspections; and recommends repair and improvement projects to Head, Housing Management Branch. Qualification Requirements: Applicants must meet qualification requirements of CSC Handbook X-118. Job Relevant Criteria: Incumbent must be able to deal effectively with a variety of people and must be well acquainted with standard maintenance practices and standards.

File applications with Corine Scott, Code 657, Room 210, Phone 2393. Clerk-DMT, GS-316, 3 or 4 PD No. 7040097, Code 4056—This position is that of secretary to the Optical Design Branch, Weapons Development Department. The incumbent will provide assistance to the Branch Head and his staff by performing a variety of clerical and administrative duties related to the management of the office such as: scheduling appointments, conferences, telephone and receptionist work, receiving and replying to incoming mail, reviewing out-going mail, etc., provided a technical knowledge of specialized subject matter is not required. Minimum Qualification Requirements: One year general experience for GS-3 and one year specialized for GS-4 in accordance with X-118. Advancement Potential: GS-3 may be promoted to GS-4.

File applications for above with June Chipp, Rm. 206, Ext. 2676. Water Treatment Plant Operator, JD No. 334, Code 70452, WG-54009-9—Duties: Coordinates and controls the operation of various pumping stations, tanks, valves, and pipelines of a large water supply system. Dispatches water supply over different pipelines, and controls pumping operations at various stations. Qualification Requirements: Rating will be on the basis of the appropriate J-Elements Standard in accordance with the CSC Handbook X-118-C.

File applications and Supplemental Experience forms with Corine Scott, Code 657, Room 210, Phone 2393. Motor Vehicle Operator, JD No. 333, Code 70782, WG-57003-24: Duties: Drives sedans pickups and carryalls to transport personnel and/or small items. Occasionally operates gasoline or diesel powered vehicles with gross vehicle weight up to 24,000 pounds or more, including dump, stake, van truck trailer, and passenger bus with a capacity of 20-45 passengers. Qualification Requirements: Rating will be on the basis of the appropriate J-Element Standard in accordance with the CSC Handbook X-118-C. File applications and Supplemental Experience Forms with Corine Scott, Code 657, Room 210, Phone 2393. Supervisory General Engineer, GS-801-15, PD No. 37005, Code 703—This is an obligated

(Continued on Page 3)



PANEL VISITS NWC — The Technical Coordination Panel (TTCP) 9-D, a cooperation panel composed of British, Canadian, Australian and American members, recently visited NWC for briefings. The purpose of the panel is to exchange information from the countries involved. Panel 9-D is but one of 10 such panels and this particular panel is concerned with guidance and control of tactical missiles. The panel is currently traveling around the United States visiting weapons labs and private industry. Dick Murphy, Code 301, was the NWC host.

### A Look Into The Past 25 Years Ago . . .

Capt. J. B. Sykes, COMNOTS, reveals five-year plan for expansion at NOTS, which he labels the Navy's "ace in the hole." . . . Telephone engineers state that home telephones may "become a reality" at NOTS. . . The ROCKETEER observed its first anniversary with a two-page spread. . . The sports columnist dreamed of his vacation so he could play 18 holes of golf somewhere (there was no course here at that time).

### 15 Years Ago . . .

A. B. Christman, then Head of the development branch, was presented a "Superior Accomplishment Award for a Special Act," when he leaped aboard a moving vehicle (with the driver slumped at the wheel), and averted a bad accident. . . Flag Football (called an innovation) was featured for the first time in the Intramural Athletic Program.

### 5 Years Ago . . .

Former Executive Officer F. A. Chenault returns to NWC as Head of Engineering Department. . . Tartar Missile developed at NOTS is displayed at Mare Island. . . Local organ society purchased church pipe organ (later featured in a one-page spread in 1970). . . Von's Supermarket (now Shopping Bag) slated to open within the week.

### Tosh Inouye Gets Promotion To Position of Branch Head

Appointment of Tosh Inouye as head of the Test Management and Product Evaluation Branch in the Propulsion Development Department was announced recently by G. W. Leonard, department head. Inouye steps into the vacancy left by the transfer of James E. Hurt, a long-time employee of the Naval Weapons Center, who left here for the Naval Weapons Laboratory at Dahlgren, Va.

### Square Dancers To Hold Class For Beginners

Ivan Hall, well known square dance caller, will instruct a class for beginners in the art of square dancing sponsored by the Cactus Squares, Sept. 8, at 7:30 p.m., in the Community Center, according to John Haygood, chairman for the class. The first three classes will be free and are designed to acquaint interested persons with square dancing. There free lessons will be followed by 27 more lessons on consecutive Wednesdays, to complete the course. Persons interested should contact John Haygood, at NWC Ext. 2735.

### Bryant Assumes ESB Business Mgr. Duties

Ralph E. Bryant, a former merchant in Taft, where he has been involved in the grocery business for nearly 25 years, on Monday took over the duties of business manager of the Employee Services Board. Bryant was appointed to fill the vacancy created by the departure of A. W. Rutherford, who has served as the ESB business manager for the past five years, and is returning to his home at Skyforest near Lake Arrowhead. The ESB business manager has surveillance over all of the various retail facilities on the Naval Weapons Center, such as the Shopping Bag Market, Fedco Service Station, the restaurant, barbershop and beauty shop, and profits payable to ESB under the terms of agreements with the operators of these businesses are



Ralph E. Bryant turned over to the Recreation Council.

Bryant's background for his new job includes experience gained in the grocery and marketing business since 1947, most of which has taken place in and around his home town of Taft.

Bryant, who has been semi-retired for three years, sold his last market several years ago, but at one time owned markets in both Lamont and Lompoc, as well as Taft.

Mr. and Mrs. Bryant are the parents of two sons, one of whom, James T., is employed in the NWC Propulsion Development Department. The Bryants' other son, David, lives in Anaheim. Bryant underwent a three-week indoctrination in his new job with Rutherford at his side before the latter pulled up stakes this week.

### Employee In the Spotlight



Paul O. Erickson

This week's Employee in the Spotlight, Paul O. Erickson, grew up on a farm near Mt. Pleasant, Iowa. The hard work he encountered during those early years no doubt prepared him for the busy life he leads in the joint communities of Ridgecrest and China Lake. Paul is Head of the Facilities Analysis Group (Code 70303) of the Public Works Engineering Division. He graduated with a BSEE from the University of Louisville, in Louisville, Ky., through the V-12 program while in the U.S. Navy and received his MSEE from the University of Iowa, Iowa City, Ia., in 1949.

Paul was then recalled into the Navy and served for two years during the Korean Conflict. Following his discharge he and his wife, Erma, and their two sons came to the desert. He began work here as an electrical engineer with the Public Works Engineering Division, Design Group. In 1956 he was named Head of the Electrical Section, Design and Engineering Branch. Then in 1958 Paul was designated Head of the Utilities Branch.

The Branch was dissolved in 1961 and he returned to his old post as Head of the Electrical Branch. He came to his present job in 1968.

Paul served as a line officer in World War II and the Korean Conflict but transferred to the Civil Engineering Corps in 1958. He was the Commanding Officer of Naval Reserve Mobile Construction Battalion 17, Sub Unit 11-2 at China Lake for four years (1961-1965) and is a member of the standby reserve.

In 1948 while an employee of the United Light and Railway Service Co., Davenport, Ia., he delivered a paper at a seminar of the Institute Radio Engineers, entitled "Electronic Polyphase Power Factor Meter," which he co-authored.

During his period of employment at NWC he has received a QSI and a Superior Performance Rating. Paul met Erma while they were both students at Olds High School, Olds, Ia., and the couple were married May 31, 1947, following his discharge from the Navy. They have two children: Thomas, 22, who is presently serving in the U.S. Army, and James, 20, married and a

While Tom and Jimmy were competing in the various baseball leagues at China Lake, Paul aided the Little League and the Pony Colt League in various capacities. He served as treasurer of the Pony Colt League and was chief scorekeeper twice — one year for the Little League, and one year for the Pony-Colt League — in addition to serving on the board of directors of both leagues.

He finds he has very little time for hobbies (other than his yard work at his home). He enjoys living in the Indian Wells Valley and champions the area as a fine place to raise children.

### College Bookstore Hours Listed

Raymond J. Marsh, assistant dean of the Bakersfield College Desert Campus, has announced that the campus bookstore is now located in the college Student Center. Caroline Young has been appointed to the new position of Student Center manager and will be responsible for ordering and purchasing books, overseeing bookstore operations and for supporting student publications. Hours for the bookstore will be from 5 to 8 p.m. on Tuesday, Aug. 31, and Thursday, Sept. 2, and on Friday, Sept. 3, the store will remain open from 9:30 a.m. to 3:30 p.m. During the first and second weeks of school, the bookstore will be open from 11:30 a.m. to 7:30 p.m., except on Monday of the first week. On Friday of the first week, the bookstore will be open from 11:30 a.m. to 4:30 p.m. and will be closed on the following Friday. Paper supplies, pens and writing tablets will also be sold at the store. Funds for the operation of the snack bar and bookstore come from the sale of student body cards and bookstore operations.

### The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake, California RAdm. W. J. Moran, USNR NWC Commander

H.G. Wilson Technical Information Department

Jack C. Lindsey Staff Writer

PHCS C. E. Bruce, PH1 D. C. Manderscheid, PH3 Ronald G. Mills PHAN Daniel W. Yeatts 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 by a commercial firm in compliance with NavExos P-35, revised July 1958. Office at Nimitz and Lauritsen. Phones . . . . . 3354, 3355, 2347



### DIVINE SERVICES PROTESTANT

Sunday Worship Service 1000 Sunday School - All Ages 0830

Sunday School Classes are held in the Chapel Annexes 1, 2 & 4 (Dorms 5, 4, 8) located opposite the Center Restaurant.

### ROMAN CATHOLIC MASS

Saturday 1700 fullfills 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 1600 to 1700 Sunday 0800 to 0825

### CCD CLASSES

Sunday Kindergarten through 6th 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 EAST WING - ALL FAITH CHAPEL Friday - 1st and 3rd ONLY Sabbath Services 2000 Sabbath School 0900 UNITARIANS CHAPEL ANNEX 95 Services 1930

# Ace TV Still In Battle For Softball Championship

Contrary to what you may have read in last week's **ROCKETEER**, the China Lake Softball League race is not over. In fact, it's very much alive.

Going into the final week of play with a one-game lead and a 14-game winning streak, Bud Eyre needed only to defeat NAF and the Valley Merchants to clinch the league crown.

Bud Eyre defeated NAF 9-4, but the lively bats of the Merchants put an end to Bud Eyre's winning streak and extended the season into next week.

Bud Eyre currently leads the league by 1/2 game and has completed its season. Ace TV will move into the spotlight Monday at 7 p.m. when its 12-12 tie with NAF will be replayed.

The game is a must for Ace, who need to win in order to tie Bud Eyre for first place. An Ace victory will necessitate a title playoff Wednesday, Sept. 1 at 7 p.m. If Ace loses to NAF, Bud Eyre will take the championship.

After dropping from a share of the lead last week by losing to Bud Eyre, Ace TV stayed in the race with a 24-16 must win over A & L Tire.

A & L took a 5-0 lead in the top of the first, but Ace retaliated with seven runs on three walks, a single by Jerry Kissick, and doubles by Jim Bevan, Bill Stuart and Larry Buckley.

A & L came back to score six in the top of the second on a two-run homer by Gordy Irvin, a triple by Drex Moulder, a single by Bill Marten and Andy Gilpin's first of three home runs. (He leads the league with 8.)

In the bottom half of the second, Ace's bombers scored 12 off Gilpin

and Moulder and were never again out of the lead.

Two home runs by Jim Bradberry, single blasts by Bob Hooper and Dave Taylor, and the solid pitching of Bob Kochman carried Bud Eyre to its 9-4 victory over NAF last week before the home stretch loss to the Valley Merchants Monday night kept Bud Eyre from winning the league title outright.

The league leaders took a three-run lead over the Merchants in the top of the first on three unearned runs, but the Merchants bounced back with two of their own on Al Hyles' seventh homer of the season.

The Merchants scored two more in the third on a single and two sacrifices sandwiched around a double by Dick Clodt, but Bud Eyre came back to knot the game at 4-4 when Hyles wild pitched a run home in the top of the fourth.

Hitting Bert Andreason more solidly than anyone had since Bud Eyre started its win skein, the Merchants rallied for three more runs in the bottom of the fourth on a single by Randy Klassen, a double by Harlan Hershey, and singles by Tom Galyon and Clodt.

Hoping to maintain their advantage, the Merchants called ailing Billy Brown to the mound for the first time in a month, and he responded with three scoreless innings in relief of Hyles. He allowed only two hits as the Merchants lengthened their lead to win, 8-4.

In other games, NAF netted six hits into 10 runs to defeat the Maulers, 10-4, as Hawk hurler Steve Wittrock held the Maulers scoreless in every inning but one. The Hawks turned five Mauler

errors and eight bases on balls into an easy victory.

The Maulers got revenge the next night by pounding Bill Marten and Drex Moulder for 16 hits, as the Maulers handed A & L Tire its 16th straight loss, 17-6.

Home runs by Dennis Johnson and Rick Miller helped lift Paul Amundson's record to 4-13 and give the Maulers their fifth win of the season.

The Valley Merchants clinched third place in the China Lake Softball League with a 13-4 shelling of NAF. Hyles fifth and sixth home runs of the year and Rick Carle's fourth powered the Merchants to a come from behind victory.

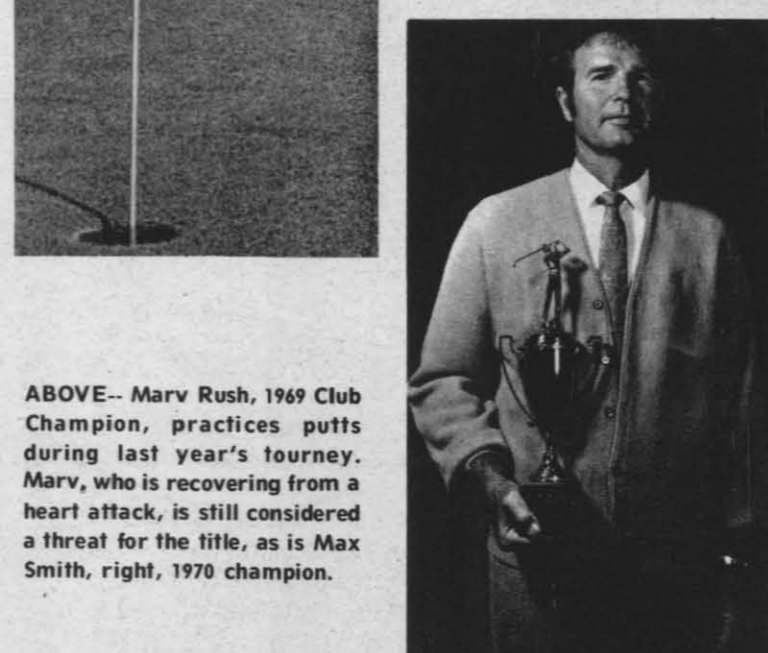
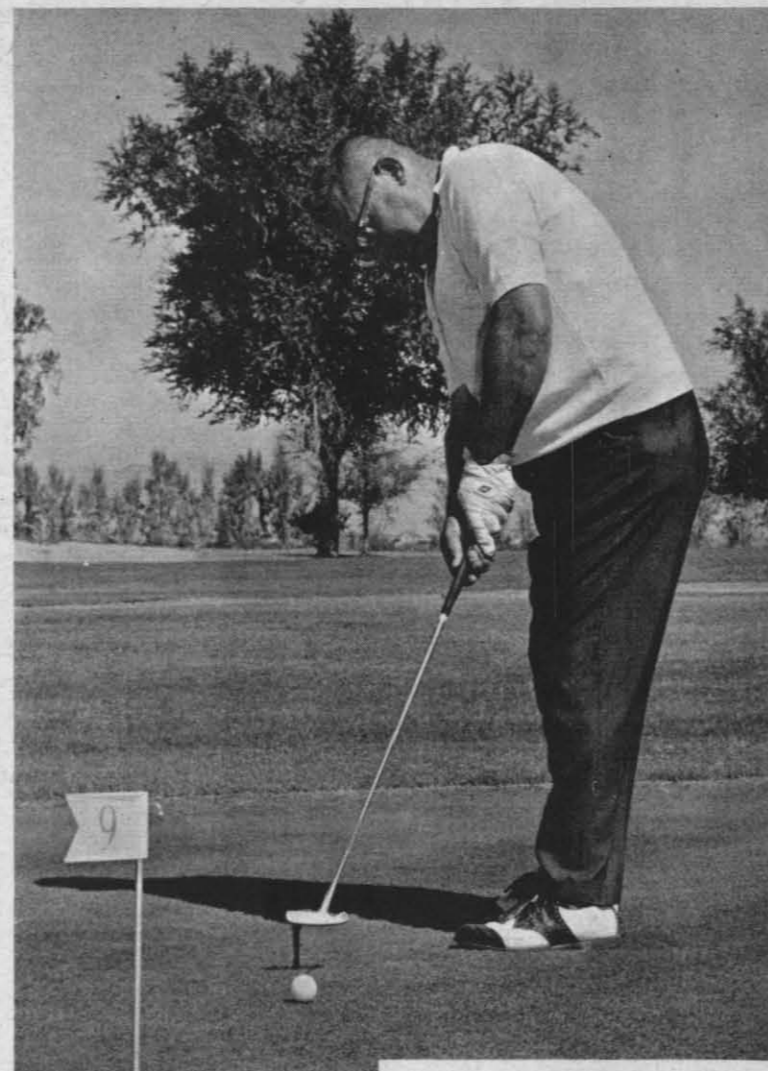
NAF jumped to a 2-0 lead in the second, but three runs in the third, five in the fifth and five in the seventh gave Hyles all the support he needed on the mound.

In the game that decided who escaped the cellar, A & L Tire came through with its first win since June to defeat the Maulers, 5-1.

The Maulers took a 1-0 lead in the first, but a four-run rally in the second gave A & L the runs Andy Gilpin needed for his only win of the season.

THE SCHEDULE			
Monday, Aug. 30			
7 p.m.	NAF vs. Ace TV		
Wednesday, Sept. 1			
7 p.m.	Title playoff (if necessary)		
THE STANDINGS			
	W	L	GB
Bud Eyre	19	4	—
Ace TV	18	6	1/2
Valley Merchants	13	11	5 1/2
NAF	10	13	8
A & L Tire	7	18	12 1/2
Maulers	5	18	13

Valley Merchants and Maulers played to 6-6 tie. NAF and Ace TV played to 12-12 tie.



ABOVE-- Marv Rush, 1969 Club Champion, practices putts during last year's tourney. Marv, who is recovering from a heart attack, is still considered a threat for the title, as is Max Smith, right, 1970 champion.

**ROCKETEER SPORTS**

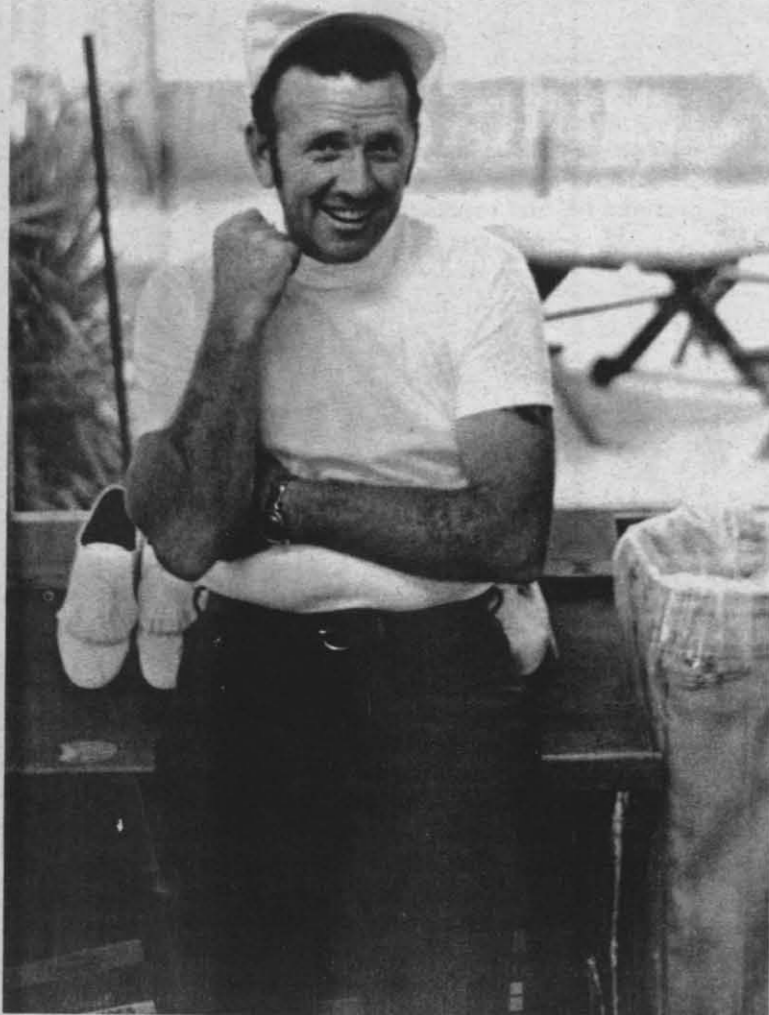
## Championship Tourney Planned by Golf Club

The China Lake Golf Club's annual championship tourney will be held Sept. 11-12 and 18-19 with a return to the traditional match play format. The number of flights will be controlled by the number of entrants with a maximum of 16 entries per flight.

The championship flight will consist of golfers with handicaps 0-NAF and the Club Champion will be determined by scratch play. All other flights will be played at handicap differential.

Golfers with handicaps of 6 to 10 may choose to enter either the championship flight or the president's flight. Closing date for entries will be Sept. 9 at 6 p.m.

MDISL STANDINGS		Points
Title Contenders		
Max Smith won the title last year from Curt Bryan in a sudden death playoff after a very exciting come-from-behind charge by Bryan. The contenders for this year's tourney		
Norton AFB	Edwards AFB	93
29 Palms	Nellis AFB	85
Nellis AFB	Los Angeles AFS	79
Los Angeles AFS	Barstow	74
Barstow	China Lake	71
China Lake	George AFB	70
George AFB		64
		60



BEFORE THE STORM—Jim Kincheloe, a member of the NAF Golf Team, relaxes inside the clubhouse during the brief rainstorm Tuesday prior to the disaster which befell his team. NAF dropped 3.5 points to the Duffers and slipped to third place in the Intramural Golf League.

## Duffers Hot; Take Over Lead In Golf League

The Duffers rose to the occasion and waxed a helpless NAF squad 3.5 points to .5 to slip by an idle Code 551 and take over undisputed first place in the China Lake Intramural Golf League.

With one week of play remaining, The Duffers hold a slim half-point margin over Code 551 and are two points ahead of NAF. The stage is set for a thrill-a-minute finish as all three teams play strong teams next Tuesday.

The Duffers will play Code 3532 while NAF takes on the NWC Officers. Code 551 will play Central Staff. Code 5563, who won four points from the Iron Men to stay in the running, takes on a strong Transportation team which is only 3.5 points out of first place.

Points Won	
Duffers	40
Code 551	39.5
NAF	38
Code 5563	37.5
Chaparrals	37
Code 30	36.5
Transportation	36.5
NWC Officers	32
Central Staff	31.5
ROCKETEERS	30.5
Code 3532	29
Gen'l. Engineers	27.5
Sandbaggers	24.5
Bat Chiefs	24.5
Titlelists	21
Code 3563	18
Iron Men	8.5

# Candidates May File For School Board Election

A resolution setting the wheels in motion for holding a special school trustee election was adopted at last week's meeting of the China Lake Elementary School District board of trustees.

The election, which is necessary to fill the vacancy left by the departure of Dr. June Amle, will be held on Tuesday, Nov. 23, and the person who is elected will serve out the remainder of Dr. Amle's term, which will expire on June 30, 1973.

Prospective candidates for election to the China Lake School Board have until Thursday, Sept. 30, to file declarations of candidacy using forms that can be obtained either at the local school district office at Murray School, or from the office of the Kern County Superintendent of Schools in Bakersfield.

Anyone who is a registered voter living within the boundaries of the

China Lake Elementary School District is eligible to seek election to the vacant school board post.

Sept. 30 also is the deadline for persons not now registered to do so in order to be able to vote in the special school board election on Nov. 23.

Persons 18 years of age and over are eligible to vote, but are required to register or re-register if they failed to vote at the last General Election in November, 1970; have changed their name, or moved here from another area of the state or nation.

Registered voters moving here from another precinct in Kern County need only file change of address cards, obtainable from deputy vote registrars or at the Kern County fire station in Ridgecrest, with the county clerk's office in order to retain their registered voter status.

## Registration Dates Set For Bakersfield College Classes

Employees of the Naval Weapons Center and other interested China Lake residents who intend to enroll in classes offered by the Bakersfield College Desert Campus this fall are reminded that the dates for open registration are as follows:

Tuesday, Aug. 31, from 5 to 8 p.m.; Thursday, Sept. 2, from 5 to 8 p.m.; and Friday, Sept. 3, from 9:30 a.m. to 3:30 p.m.

Instruction will begin on Tuesday, Sept. 7. A late registration will be held in the college office for classes not filled to capacity by enrollment from Sept. 7 to Sept. 17. The last day to change audit to credit or credit to audit in adult education courses is Sept. 17, and Oct. 15 will be the last day to apply for a credit-no credit grading.

Oct. 22 is the last day to drop a course without a recorded grade. The fall semester ends Jan. 28.

Some courses which might be of interest to Center employees include Computer Science 1; Computer Science 18; Data Processing courses 1, 4 and 56; Electrical Technology 50sp, 54A, 57A, 61, 64A, and 59A; Engineering

36; Fire Science 57; Industrial Drawing 30B; Machine Shop 53A and 53C; Mathematics 53A, 54; Metal 41; Police Science 61 and 62; Welding 53A and Wood 1.

## Military Pay Allowances To Remain Same

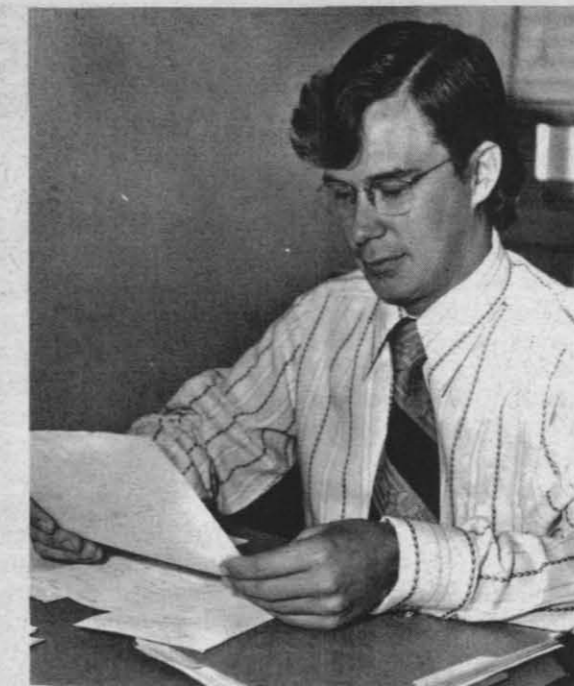
Effect of the wage-price freeze imposed by Executive Order of President Nixon upon military pay and allowances entitlements is explained in an ALNAV Instruction received this past week.

The wage-price freeze neither denies nor suspends any military pay and allowances entitlements that are authorized by law and implemented by the Department of Defense pay and allowances entitlement manual and joint travel regulations.

On the contrary, all entitlements such as longevity increases, promotions, re-enlistment bonuses, proficiency pay, hostile fire pay, special and incentive pay, and such things as basic allowance for quarters will continue to be authorized and paid.



NEW DESERT COUNSELING CLINIC STAFF MEMBERS—Dr. Ralph Armstrong, left, of Burbank has recently joined the staff of the Desert Counseling Clinic as a consulting psychiatrist. He will fly here in his own plane each Thursday to consult with other staff members on clinic cases and will also work with Clinic clients. He is a graduate of UCLA Medical School and did his psychiatric residency at Camarillo State Hospital.



On the right is Stan Hershey, new Clinic business manager. Hershey graduated from Chico State College with a BA in Sociology. He has been a resident of the Indian Wells Valley since 1969, and taught educationally handicapped students for the IYW School District until joining the DCC staff (one year at Inyokern School and one year at James Monroe). —Photos by PH1 Don Manderscheid

# Promotional Opportunities

(Continued from Page 2)

College level courses in Police Science or advanced in service courses in police techniques are desirable. Will be required to maintain a government driver's license and meet qualification standards with firearms. File above applications with Pat Gaunt, Bldg. 34 Room 202 Phone 2723.

Accounts Maintenance Clerk, GS-520-3-4 PD No. 7130114. Code 30924—The incumbent of this position will provide a clearing point for all AGILE Missile System procurements, and maintains the expenditure accounts needed for the management of the AGILE Program. Also provides procurement validation, maintenance of accounts and prepares special statements or expenditure charts as required. Qualification Requirements: GS-3 - 1 Year experience or 1 year education above high school. GS-4 - 1 Year General and 1 Year specialized as outlined in X-118. Job Relevant Criteria: Ability to work relatively independently in performing duties of the position.

Clerk-Typist, GS-322-3, PD No. 7130109, Code 3013—Incumbent performs clerical and typist duties for the AGILE Program Management Branch. Duties include typing from rough drafts, dictating machine tapes; letters, memorandums, work assignments, contracts, work requests, travel orders, and occasional reports. Qualification Requirements: 1 Year experience or 1 year education above high school, as outlined in X-118. Job Relevant Criteria: Must be a qualified typist capable of typing official correspondence. Advancement Potential: GS-4.

File applications with Dora Childers, Code 657, Room 210, Phone 2514.

Detective GS-083-7, Code 843 PD No. 7140111—The primary functions of the position are to conduct follow-up investigations into matters initially investigated by patrolmen, to initiate investigations into matters requiring the application of specialized investigative techniques, to conduct crime scene investigations, collect and preserve evidence, interrogate suspects, arrest suspects, write reports, and testify in court proceedings. Qualification Requirements: 5 years experience which has given the applicant a broad knowledge of police operations, practices and techniques. Must demonstrate possession of or potential to develop qualities of successful supervision. Job Relevant Criteria: Must have proven leadership qualities and abilities, and be very knowledgeable in all aspects of police work. College level courses in Police Science or advanced in-service courses in police techniques are desirable. Will be required to maintain a government driver's license and meet qualification standards with firearms. File above applications with Pat Gaunt, Bldg. 34 Room 202 Phone 2723.

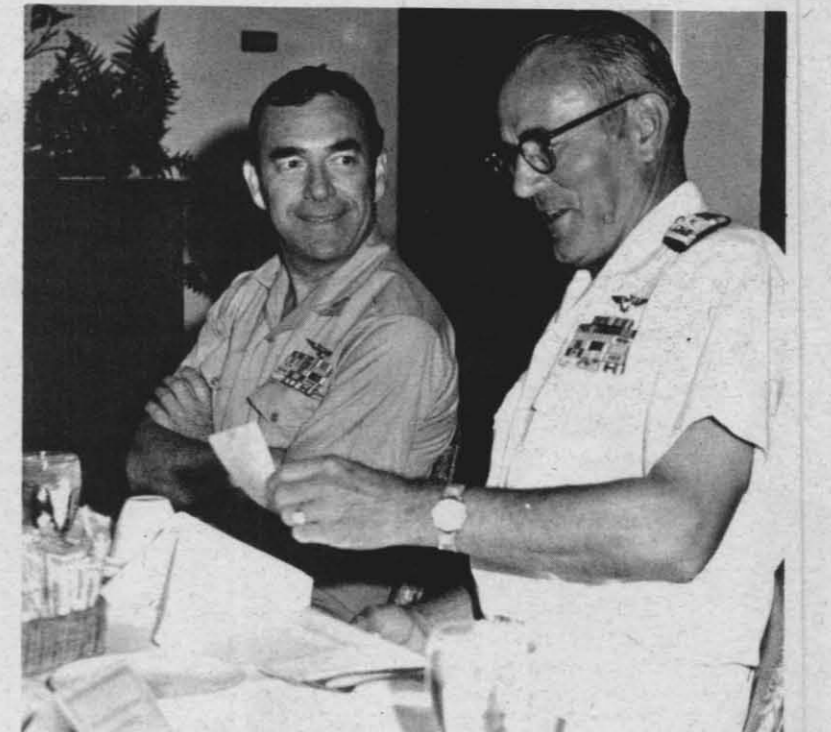
Clerk-Typist GS-322-3-4, Code 501 PD No. 44194—This position is located in the Fuze Department, Advanced Systems Division. Incumbent types memoranda, reports, manuscripts, letters of a technical nature, procurement actions, etc. from handwritten drafts and verbal instructions. Duties also include preparation of travel orders, itineraries, time cards and maintenance of a variety of alphabetical, numerical or chronological files. Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Must be a qualified typist.

Clerk-Typist GS-322-3-4, Code 505 PD No. 7130331—This position is located in the Fuze Department, Electromechanical Division. Incumbent provides clerical services for professional and technical personnel of the Electromechanical Division. Duties include typing, time keeping, personnel and leave records, travel orders, mail collection and distribution, etc. Qualification Requirements: As defined in CSC Handbook X-118. Job Relevant Criteria: Must be a qualified typist. This position is located at Salt Wells.

File above applications with Pat Gaunt, Bldg. 34, Room 202 Phone 2723.



VISITORS FROM KOREA—A briefing on the organization and technical programs of the Naval Weapons Center was presented Monday for three Korean Army officers during their visit to China Lake. The visitors were (from left) Col. Ahn Jae Soo, a research associate; Lt. Gen. Shin Eung Kyun, director, and Brig. General Sohn Khung Wook, assistance director for technical intelligence, all from the Agency for Defense Development. During a tour of Michelson Laboratory, the Korean Army officers were briefed on the Research Department, computer facilities and machine shop functions, and were then taken on a tour of NWC's ground range facilities.



RADM. LAKE LUNCHES WITH COMNWC—RADM. J. S. Lake, Project Manager, REWSON, Naval Material Command, is shown at lunch with RADM. W. J. Moran, (right), Commander, NWC during his one-day visit to the Center. RADM. Lake received briefings on current NWC programs.

GOING ON A TRIP? DRIVE SAFELY

# Desert Survival Tips Topic of Seminar Held for Game Wardens

(Continued from Page 1)  
Public Works Officer, acting on behalf of the Commander, NWC, and information on the various services available to the visitors during their stay at China Lake was given by Jack Mussler.

The introductory phase of the course continued with a film slide presentation, given by Dr. Austin, that was designed to show the varied types of weather and terrain travelers in the desert may expect to encounter, and the effect of such factors on travel conditions.

**Weather Patterns Discussed**  
Other speakers during the first morning of the course were Royal Gould, who discussed weather patterns, including temperatures and flash flooding, and Gary Peek, who outlined the reactions of people to hot weather and the desert, drawing largely upon examples of recent search and rescue operations in which he has

been involved.  
It was Peek's contention that man, because of his fears and foolishness, can be his own worst enemy when he encounters difficulties on the desert.

An introduction into the subject of water needs of those traveling on the desert was begun by Peek, and this led into Dr. Austin's commentary on how to store and transport water and food in desert areas, as well as pointers on the use of protective clothing.

### Flight Surgeon on Panel

Human reaction to heat and dehydration, and first aid measures for the desert were covered in a presentation by Dr. W. H. Dunbar, flight surgeon assigned to the Naval Air Facility, whose comments touched off lengthy discussions and comparisons of experiences among the DFG personnel who attended the course.

As a prelude to the final activity

of the opening day sessions of the desert safety course, Dr. Austin, who is an NWC research geologist, discussed how to go about finding water in the desert and showed film slides of typical seeps, springs and areas where water could be expected to be found, and Peek demonstrated how to make a desert still—an emergency procedure for producing water from moisture in the soil in the event of a vehicle breakdown or airplane crash.

Armed with this information, the students headed into a section of the Naval Weapons Center range area to put into practice what they had learned by constructing a series of desert stills in various kinds of soil.

The sites chosen for the desert stills were an area of salt grass with shallow alkaline ground water, a sector where dry lake mud and shallow salt water was

found, an area of drifting blow sand, as well as areas where creosote bushes were growing and a dry wash with a gravelly bottom.

### Desert Stills Constructed

The stills, which were constructed between 4:30 and 7 p.m., were examined the following morning by students of the desert safety class to see if any of them had begun to collect water. It was discovered that those at the first two sites were working well, and another was beginning to work, but it was concluded that some of the sites would never be water producers.

Returning to the classroom from the range area for the second day of the desert safety class, discussion turned to various modes of travel on the desert. Dr. Austin and Peek covered the use of highway and off-road type vehicles on the desert, to which was added information from Major Ben

Rinehart dealing with helicopters and light, fixed wing aircraft. Specific areas covered by Major Rinehart were problems of landing zone selection and the effect of weather and turbulence upon aircraft.

Continuing with further information on modes of desert travel, Everett A. Long, Sr., president of the Valley Riders, local equestrian group, talked about the use of horses for travel on the desert. Long stressed the need to have the animals well acclimated and in proper physical condition.

The second day's class session was concluded with remarks by Peek on the subject of foot travel on the desert.

### Aids to Navigation

During the morning sessions of the final day, DFG personnel attending the desert safety class heard from Dr. Austin on the use of

maps and aerial photographs as aids to navigation, while Chief John Sally provided information on the kinds of scrap ordnance that is common to desert areas, and reviewed the hazards of such materials.

Mine rescue missions and the hazards created by the many old, abandoned mines that are to be found on the desert were discussed by Sam Wyatt, captain of the Indian Wells Valley Search and Rescue Team. There also was a report given by Dr. Bill Stronge, of the NWC Research Department, who is active as a member of the China Lake Mountain Rescue Group.

Peek again returned to the speaker's rostrum to provide his listeners with information on how to find and construct shelters on the desert, and how to make best use of available resources. Peek, who was joined by Dr. Austin in laying out a shelter construction exercise, also listed supplies and equipment those traveling on the desert should carry with them.

### Field Shelter Built

The final field exercise for DFG personnel attending the desert safety class took them out the

Randsburg Wash access road where their first assignment was to construct a two-layer shelter in the center of a valley floor beyond the Spangler Hills.

When they reached the spot chosen for this exercise, the students found that the ground surface temperature was 127 degrees, but at a height of 3 ft. off the ground the air temperature was a bearable 106 degrees.

The students found that under the double shelter which they erected, the comfort level was much greater, and by scraping away 18 in. of loose soil they exposed ground that had a temperature of only 80 degrees.

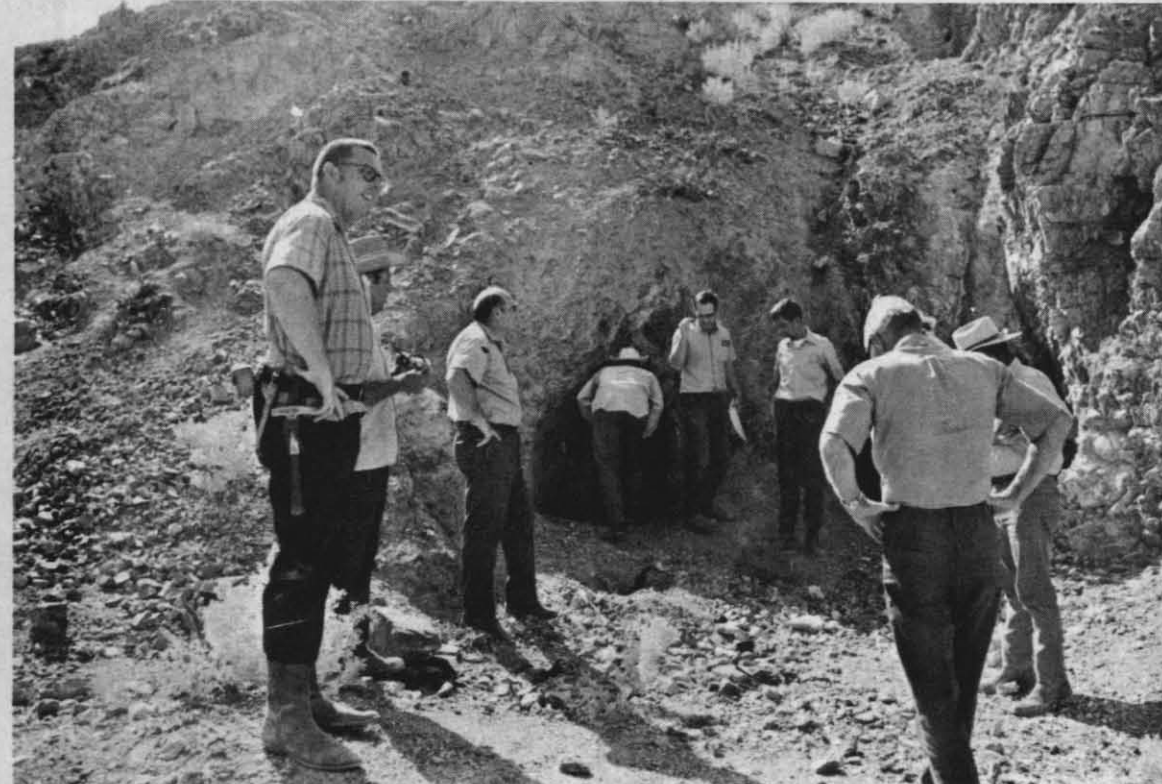
### Old Mine Examined

This training also took the students to the Christmas Canyon area, where members of the desert safety class examined an old gold mining shaft in which the interior air temperature was found to be in the low 80s.

The type of shelters that can be built in conjunction with a stranded vehicle also were discussed and tried out before the students held their final critique and then headed for home.



**FIREMAN GARY PEEK** instructs the visitors in desert survival. Knowing what to look for in desert environments to keep alive, and learning how to protect themselves from the elements were primary concerns of the seminars varied group of lecturers.



**DR. AUSTIN** points out the dangers of exploring old mines. Dr. Austin, who is a member of the IWV Search and Rescue Team, is very knowledgeable in both survival and mine exploration. He has been

called on many times in the past to help in the rescue of persons trapped in mines located in the desert region. More than 30 DFG personnel attended the seminar.



**SHELTERS** to protect the men from the heat of the day were erected under the supervision of Dr. Carl Austin. The shelters were constructed of two-layers of parachutes.



**A SOLAR STILL** is checked for moisture by the game wardens. The above photo was taken at 7:30 a.m. and the bottom photo shows two wardens checking at 4:30 p.m. In some places, the stills filled overnight with water enough to keep a person alive in the desert's heat.

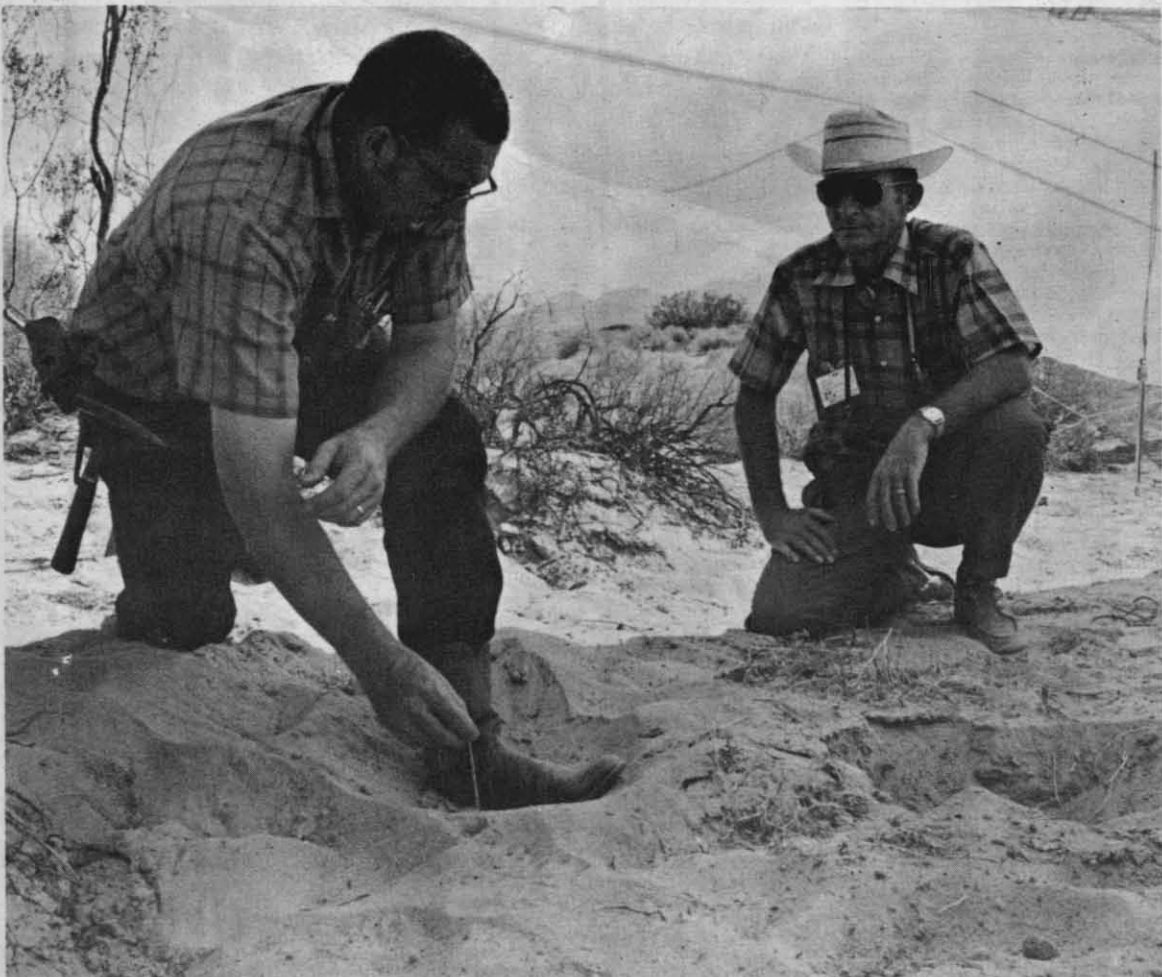


**THE MEN** check a solar still located on a dry lake bed, one of many areas in which stills were

built during a portion of last week's desert safety seminar.

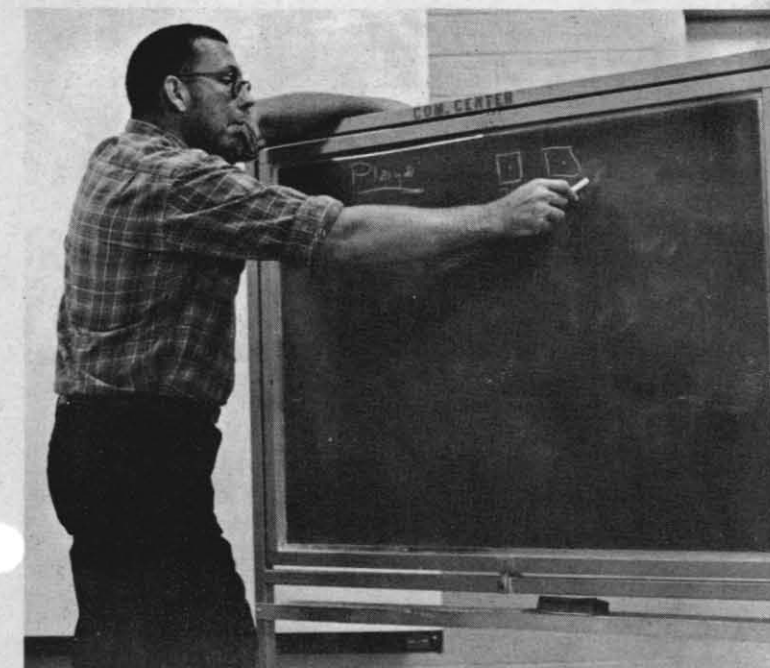


**NOT ALL SOLAR STILLS** work. Here DFG men survey a dry hole. It was found that holes dug in deep sand generally do not produce water. Stills dug in shallow alkaline areas (where dry lakes were found) produced the best results.



**THE GROUND** still gets pretty hot under a two-layer parachute shelter, but the protection afforded by the 'chute is enough to keep a person

alive. Here Dr. Austin records the temperature beneath the make-shift shelter while a member of the game warden class looks on.



**THE SIMPLE SKILL** of reading a map can be a complicated thing on the barren desert. Here, Dr. Carl Austin, Head, Petrodynamics Branch, Detonation Physics Division, Research Department, instructs Department of Fish and Game men on use of maps while in the desert. This classroom instruction was part of the three-day seminar which included lectures, demonstrations and field practice.



**THE BASIC** construction of a solar still is explained to the Department of Fish and Game visitors. According to Gary Peek, a member of the IWV Search and Rescue Team and an instructor of

the seminar, solar stills such as this one may be used to supply guzzlers (water holes for wildlife on the Center) with water enough to sustain the birds through the summer's dry spells.