



VISIT IS REPAID — Dr. Franticek Lukes, (r), a professor of physics at the University of Brno, Czechoslovakia and his wife Dr. Milena Lukesova recently repaid a visit to Dr. B. O. Seraphin of the Physics Division who visited Brno in late 1965. Dr. Lukes was invited by the Penn. State University to spend a year as a Senior Research As-

sociate. His work involves the optical properties of materials. His wife is a neurologist specializing in the early diagnosis and treatment of brain tumors in children. She joined her husband, who arrived in the States last October, only three weeks ago. She will return to Brno in the middle of July. —Photo by PH1 Jerry Williams

### Museum Journey Planned To View Bristlecone Pines

K. H. Robinson, director of the Maturango Museum, will again lead the summer trek to the Bristlecone Pines on Saturday, July 8. This year the guided tour will be followed by optional overnight camping and a rockhunt in Deep Springs Valley the next day, with field-trip chairman and mineralogist Royal Gould in charge.

Members and their guests are to meet at the Bristlecone Pines sign just north of Big Pine at 9:30 Saturday morning. They will then proceed in caravan to Schulman Grove, the Forest Service Center, where they will hear a talk on the history and characteristics of the "oldest living thing."

After the family-type picnic, hikers can take the "Methuselah Walk" to and from the oldest living tree. Robinson will accompany the hikers, answering questions and pointing out interesting features.

Those who wish to return home will be able to get back to Ridgecrest - China Lake in daylight. Any intending to camp should provide their own water, as well as food for four meals.

Robinson advises that the drive up Highway 14 to the meeting place can be made easily in two hours, and that any passenger car in good condition can negotiate the entire route.

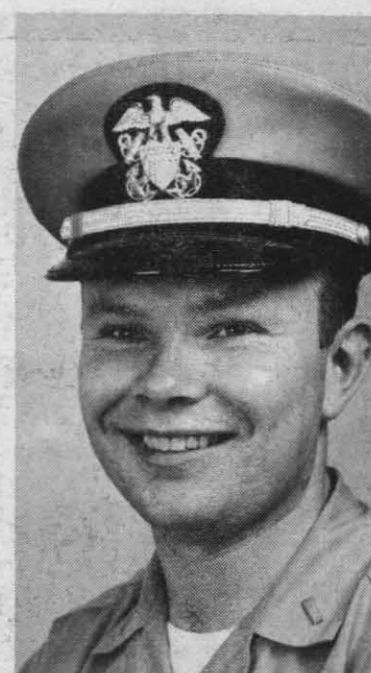
Memberships are available by writing the Museum at P.O. Box 5514, China Lake, or by dropping in during open hours between 2 and 5 p.m. every Saturday and Sunday.

### GEBA Assessments 132-60 Now Due For Death of S. E. Smith

Members of the Government Employees Benefit Association and the China Lake Mutual Aid Society are reminded that Assessments Number 132 and 60 are now due.

Assessments have been levied due to the death of Sidney E. Smith, an automotive equipment operator, who succumbed in the Ridgecrest Hospital where he was taken following a car accident in Ridgecrest on Thursday, June 22, 1967.

Payments of \$1.20 may be mailed to Joseph M. Becker, Secretary-Treasurer, 77-B Renshaw, China Lake, Calif.



ENS. HARRY L. AUNES, Jr., reported aboard NAF this week to become the Squadron's First Lieutenant in addition to his new primary duties with communications and security. Ens. Aunes received his commission in April this year through Officer Candidate School, then studied at Communications School at Newport, R.I. A bachelor from Framingham, Mass., Ens. Aunes graduated from Cornell University with a B.S. degree in hotel-restaurat administration.

### SHOWBOAT

FRIDAY "GEORGIE GIRL" (99 Min.) James Mason, Lynn Redgrave  
7:30 P.M.  
(Drama) The search of a homely girl for love and affection leads her to share her apartment with a promiscuous, pretty roommate and to later become mother to the girl's baby. Not risqué, but frank and modern. (Adult, Mature Youth.)  
Short: "Pink Panic" (A Pink Panther) (7 Min.)

SATURDAY "CLARENCE THE CROSS-EYED LION" (92 Min.) Marshall Thompson  
1:00 P.M.  
Shorts: "Downbeat Bear" (7 Min.) "Frank & Jesse James" No. 3 (13 Min.)

—EVENING—  
"HOT RODS TO HELL" (101 Min.) Dana Andrews, Jeanne Crain  
7:30 P.M.  
(Drama) Family on their way to take possession of a newly purchased California desert motel is harassed by a group of wild drivers in souped-up cars. It doesn't pay to try these thrills. (Adult.)  
Short: "Bad Luck Blacky" (7 Min.)

SUNDAY-MONDAY "IS PARIS BURNING?" (137 Min.) Leslie Caron, Kirk Douglas, Glenn Ford, Anthony Perkins, Orson Wells  
7:30 P.M.

(War Drama) The massive adventure story of the attempts of the French underground to save Paris from total destruction by the Germans as the Allies approached its limits. Kirk as Gen. Patton and Glenn as Gen. Bradley highlight a superb cast in the exciting account. Don't miss! (Adult, Youth.)

TUESDAY-WEDNESDAY "THE ALAMO" (162 Min.) John Wayne, Richard Widmark, Linda Cristal  
7:30 P.M.  
(No synopsis available.)

THURSDAY-FRIDAY "SECRET AGENT SUPER DRAGON" (99 Min.) Ray Danton, Marisa Hall  
7:30 P.M.  
(No synopsis available.)  
Short: "Mouse Menace" (7 Min.)

GO FOURTH SAFELY!



### FEDCO Operated Service Station Now Pumping Gas

In NOTS Notice 12790 published on June 21, Station Command announced that an Automotive Service Station would start operation in the Bank parking lot today. The Notice stated that under previously announced policy the U.S. Naval Ordnance Test Station has been converting the commercial services on the Station from Navy Commissary and Exchange operation to private enterprise operation under the Employee Services Board.

The Fedco Service Station, which opened at 7 a.m. today, is the last commercial facility to be converted under the program. The operating hours of the new station will be from 7 a.m. to 7 p.m. Monday through Saturday.

The Navy Exchange Service Station on Byrnes Avenue will continue to operate but at the close of business yesterday its service was restricted to only military personnel and their dependents.

Construction of the new facility will not be completed for several weeks but the pumps will be in operation and essential services will be available.

FIRST FREEDOM SHARE — James J. Campbell of Code 306's Optical Instrumentation Br. buys the first "Freedom Share" issues at NOTS from Barbara Kasal, Disbursing Officer. Campbell has been buying savings bonds since he came to China Lake 21 years ago. "It's a form of savings for me," he says "The bonds come in very handy when I need to spend a large sum of cash with little advance notice." He and his wife Eleanor make their home at 600-B Kearsarge. Two of their three children, Susan and Julie, are college students, and their son Robert, a Notre Dame graduate, is an engineer in Code 40.

### STATION LIBRARY LISTS NEW BOOKS

A complete list of new books is available in the library.

- Fiction
Arch—The Deathstones
Bond—The Other World
Caldwell—No One Hears But Him
Charteris—The Saint Magazine Reader
Cummings—Explorers Into Infinity
Holly—The Gray Aliens
Long—Mission to a Star
Maloney—The Great Bonacker Whisky War
Trevor—The Love Department
Turnbull—The Wedding Bargain

From \_\_\_\_\_ PLACE STAMP HERE
TO \_\_\_\_\_

### PROMOTIONAL OPPORTUNITIES

(Continued from Page 2)

Clerk (Typing), GS-5, Code 1712-1713—Performs secretarial and clerical support to members of Organizational Behavior Group and Management Science Group. Duties involve a wide variety of functions, including, typing of reports, memoranda, arrangements for conferences, special meetings, data collection for studies, assemblies and summarizes information, etc. Qualifications requirements: Extensive knowledge of NOTS organization, functions, and positions. Must be thoroughly familiar with management communication tools, policies and philosophy. At least three years of general secretarial experience.

File application for above with Sue Proslawicz, Bldg. 34, Rm. 26, Phone 71577.

Safety Assistant, GS-5-7-9 (1 vacancy), Code 20 — Experience requirements are three years to qualify for a GS-5, four years for a GS-7, and five years for a GS-9. Experience must have included the ability to deal effectively with people in the observance of safety rules.

File applications for the above with Carole Cadle, Bldg. 34, Rm. 28, Phone 71648. Supply Clerk, GS-3-4, (1 vacancy), Code 2573 — Controls levels and movement of stock through analysis of IBM listings. Or-

ders stock, ensures that excess stocks are not accumulated and takes immediate action to dispose of such excesses as do develop; makes proper substitution of stock material. QUALIFICATIONS: One year general clerical experience for the GS-3 level, plus one year specialized experience in supply-clerical operations for the GS-4 level. Supervisory General Supply Specialist, GS-2001-7-8, (1 vacancy), Code 254—Position is that of Head, Inventory Division. Incumbent works for and is directly responsible for the accomplishment of accurate and reliable inventories, consisting of approximately 40,000 stock items valued at over \$4,500,000.00, located at China Lake and Pasadena Annex. Applicants must have had three years of progressively responsible experience in administrative, professional, investigative or other responsible work which has provided the applicant with a general knowledge of one or more aspects of the supply field, and one year of specialized experience for the GS-7 level and one and one-half years of specialized experience for the GS-8. File applications for the above with Naomi Campbell, Bldg. 34, Rm. 28, phone 72218.

ROCKETEER FROM UNDER THE SEA TO THE STARS

Vol. XXII, No. 26 Naval Ordnance Test Station, China Lake, California Fri., June 30, 1967

## Personnel Researchers to Try Creativity Method: 'Synectics'



OPEN HOUSE MARKS REBIRTH — The newly refurbished and updated Experimental High - Explosive Mixing and Casting Facility at Code 45's Salt Wells complex was filled with technical and administrative visitors Tuesday, June 20, as its open house marked the start of a new life of R&D service. One of the oldest facilities at NOTS, it

was built with Atomic Energy Commission funds and performed AEC work, sometimes around the clock, in its early years in the late 40's. The original crew included Stan Mutchler, project manager for the recent updating work, who retired from Civil Service last week. Above is mixing room, with remotely controlled 40-gallon mixing kettle.

By JOHN R. McCABE

People - researchers of the NOTS Personnel Department are looking into a newly "discovered" system of inventive thinking that shows promise of helping groups of professional problem - solvers tap the pre-conscious powers that propel the genius.

The method is called by the Greek - derived name "Synectics," also the name of the invention research company in Cambridge, Mass., that leads work in the new method. The man behind the method is Dr. William J. Gordon, and his newly coined term "Synectics" means, roughly, the joining together of remotely related and seemingly irrelevant ideas or mental images to form a novel solution to a problem.

The man who is studying how this can be applied to the myriad technical problems of the laboratories and ranges here, is Robert W. Stephenson, head of the Applied Behavioral Sciences Research Group. He and Clarence Weinland, consultant in Code 45's Explosives and Pyrotechnics Division, attended a

(Continued on Page 3)

TEMPERATURES AT CHINA LAKE
Table with columns for date, Max, and Min.
June 24: 99, 62
June 25: 99, 65
June 26: 98, 64
June 27: 100, 65
June 28: 104, 61
June 29: 106, 66
June 30: 107, 65

### Fireworks Set For Glorious 4th By Little League

The China Lake Little League, with the coordination of the Community Council, will sponsor its annual 4th of July celebration next Tuesday night at Diamond No. 4 beginning at 7 p.m. Diamond No. 4 is located on the corner of Richmond and Halsey.

On the agenda for the evening will be a brief presentation, followed by an exhibition ballgame between the league's 12-year-olds and the managers.

Immediately following the ballgame at 9 p.m., a spectacular fireworks display, donated by the Bermite Powder Company, will take place over the dry lake, located at Richmond Road. The public is invited, and the NOTS main gate will be open to those who wish to attend.

On July 10 the China Lake Little League will have a drawing for \$150 and \$50 gift certificates, donated by the Triangle Sport Shop.

## Four NOTS Employees Get WEPCOSE Awards

Four China Lake employees, Henry F. Blazek, Arthur A. Duke, Jr., Stuart G. Fields and Edward L. Jeter, will pursue graduate studies this coming year under the Weapon Control System Engineering (WEPCOSE) training program.

For more than a decade the WEPCOSE program has been helping to meet a continuing need for engineers qualified in weapon control systems engineering. With the disestablishment of the Material Bureau and the formation of the Air

and Ordnance Systems Commands from the elements of the former Bureau of Naval Weapons, sponsorship of the program has been assumed by the Chief of Naval Material. Graduate training in this program is offered in either Operations Research or Systems Engineering.

HENRY F. BLAZEK will attend the University of California, Santa Barbara, and plans to work toward a Master's Degree in Electrical Engineering. Blazek came to NOTS as a

Junior Professional in July, 1963, after receiving his Bachelor of Science Degree in Physics - Engineering from the University of Michigan. He is a Physicist in the Electronics Branch, Electromechanical Division, of the Engineering Department.

He and his wife, Janet, have four daughters. They live at 346 Bonita in Ridgecrest.

ARTHUR A. DUKE, JR. will continue his studies in Mathematics at the University of California, Los Angeles, during the

1967-68 academic year. He has been at UCLA this past year on Educational Leave Without Pay, pursuing a course of graduate study for his Master's Degree in Mathematics, which was awarded this month.

Duke came to NOTS in June, 1963, after his graduation from the Missouri School of Mines at Rolla where he received his Bachelor's Degree in Mathematics. He is a member of the Aviation Branch of the Aviation Ordnance Department.

He and his wife, Judy, have

recently returned to the Station and will be here for the summer.

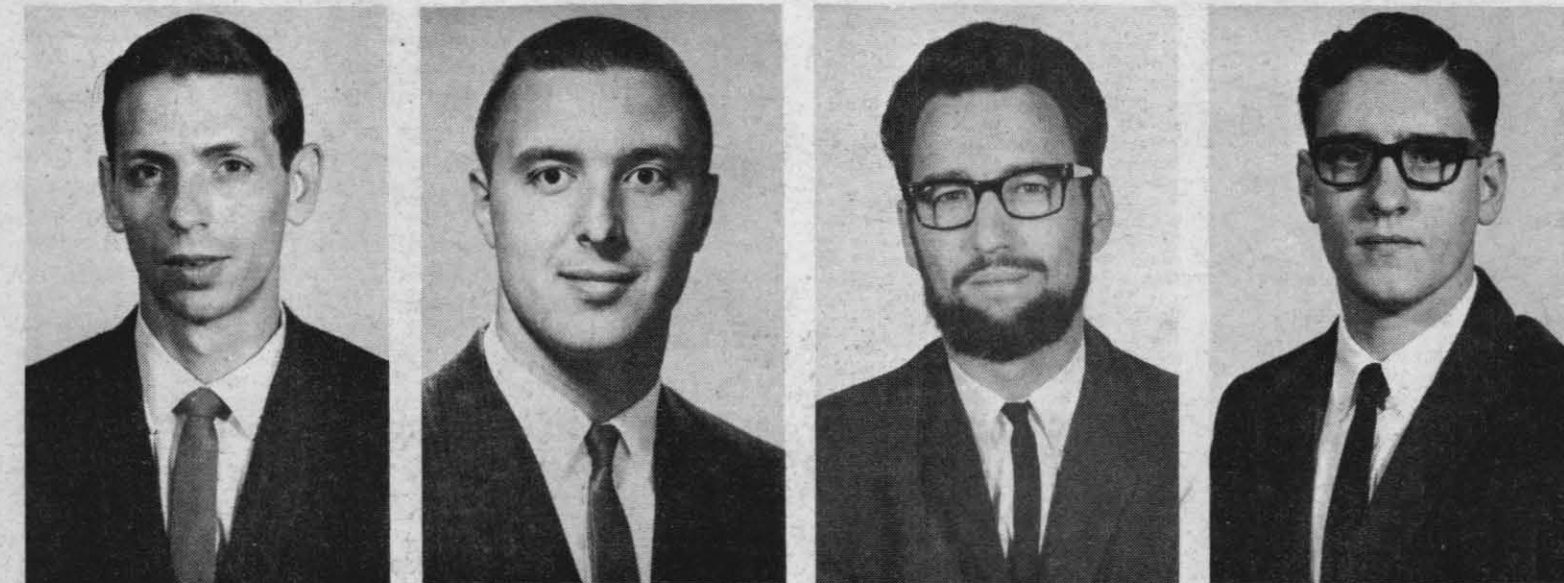
STUART G. FIELDS, an Electronic Engineer, came to NOTS in June, 1965 as a Junior Professional. He is in the Electronic Systems Branch of the Systems Development Department.

He received his Bachelor of Science Degree in Electrical Engineering from Chico State College in June, 1965. He plans to attend the University of California at Berkeley this fall to pursue graduate study toward a Master's Degree in Electrical Engineering (Information and Communication Theory and Electromagnetic Theory).

Fields and his wife, Diane, reside at 106-B Ellis.

EDWARD L. JETER will attend Stanford University this fall to work toward a Master's Degree in Applied Mechanics. He was awarded a BS in Mechanical Engineering in January, 1964, from the University of Oklahoma.

Jeter worked at NOTS during the summers of 1962 and 1963, and returned to the Station on a full-time basis in February, 1964. He is a Mechanical Engineer with the Structural Mechanics Branch of the Weapons Development Department.



HENRY F. BLAZEK

ARTHUR A. DUKE

STUART G. FIELDS

EDWARD L. JETER

Go 4th Safely—We Need You Back at NOTS

# Commercial Services Now Under Employee Services Board

## New Operations, Remodeling Give Greater Service

The NOTS Employee Services Board has now completed the transition from the former Navy Exchange - Commissary Store commercial activities to either Board operations or private enterprise. With the guidance of ComNOTS the Board assumed the operation of the Child Care Center and the Station Barber Shop. All other activities were opened for public bid under the competitive free enterprise system.

From the fees paid to the Board from its various operations the Board provides support to the Station Recreation Council. All monies in excess to the Board's needs are presently being directed to the support of the recreation program. Funds for operation of that program had formally been gained through the civilian patronage of the Navy Exchange facilities.

**Major Activities**  
Pictured on the opposite page are two of the Board's major activities: Shopping Bag Market (formerly VONS) which opened last August in the old Commissary / Exchange building at Bennington Plaza, and an interior view of the Station Restaurant located on Blandly Street at Lauritsen. Managed by Randy Breedlove, the Shopping Bag Market operates in an area of 18,000 sq. ft. and employs 65 people who receive an annual payroll of \$400,000.

**Food Service**  
Burt Collie operates not only the Station Restaurant as owner / concessionaire, but a cafeteria in Michelson Laboratory, CLPL Cafeteria and the Station Malt Shop. He has recently installed a popular buffet which is served each weekend at the Station Restaurant.

**ESB Business Manager**  
Art Rutherford came to the Board last August as ESB Business Manager and has served in an outstanding manner through all the trials and tribulations of bringing to the Station the conversion of the Navy Exchange facilities to private enterprise.

His broad background of business experience includes four years as manager of the famous Santa's Village at Skyforest. Rutherford's new office is located next to the Station Pharmacy in the Plaza area, affording close contact with the Station's commercial group.

**Beauty Salon Service**  
Senn's Coiffures opened last December under the operation/ownership of Tom Senn. Present plans include new equipment and furniture in the newly redecorated shop. In addition to the latest in beauty salon services Senn's also offers individual coiffure styling and a complete selection of wigs and wig care.

**Barber Shop**  
New back bars, planters and a carpeted entrance area are in the process of installation at the Station Barber Shop as part of the continuing plan to up-grade the service being provided.

Joe Perry was selected as manager of the shop when it was turned over to the Board

for operation the first of this year.

**Station Pharmacy**  
The Station Pharmacy provides a complete apothecary service for the Station. It is managed by its concessionaire /owner Clyde Campbell and is located at the Plaza area next to the Barber Shop. Campbell assumed operation of the Station Pharmacy in 1964.

**Child Care Center**  
Mrs. Marjorie McDermott is the manager of the Child Care Center. This center is designed primarily to be used by Station personnel as a baby sitting service. Working mothers may also leave their children during the work day. It is one of the "service to Station employees" enterprises of the ESB and is operated on this basis for patrons' convenience. Mrs. McDermott was selected as manager by the Board.

**Dental Services**  
China Lake's Doctor of Dental Surgery is Earl Karner. Dr. Karner is a long time Station resident, and introduced the necessary dentistry services to the base in August, 1946. In addition to his long time dental services Dr. Karner is well known for his fishing and hunting exploits. He is a past president of the local Rotary and Shrine Clubs.

**The Sign of Service**  
Lynn Nowles, head of the Graphic Arts Branch in TID designed the ESB insignia on this page. Mrs. Nowles is a member of the Employee Services Board and serves on the Professional Community Services Committee.

The design gained Board approval for its artful appearance and for emphasizing the Board's function to the Station

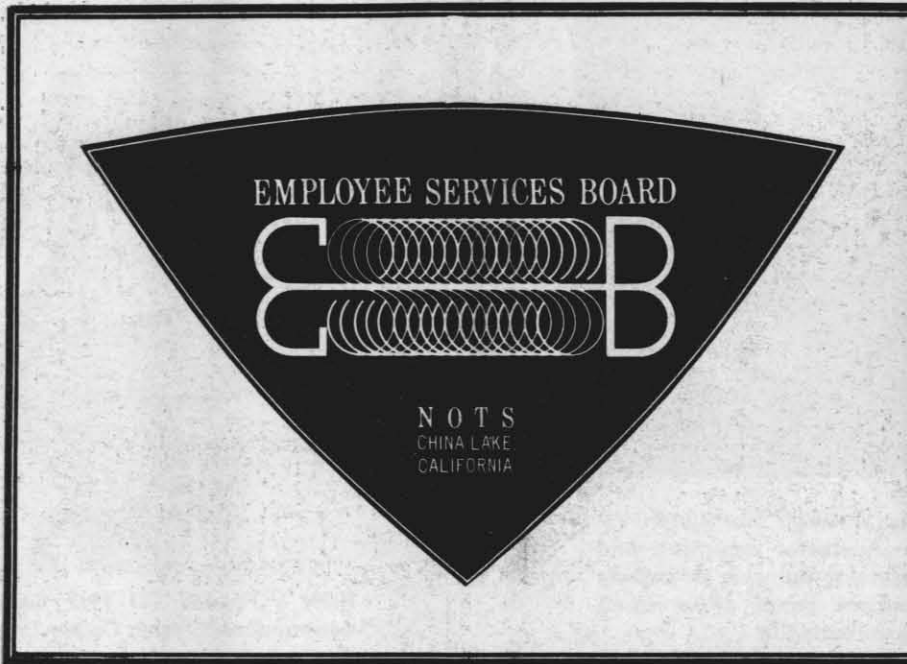
as a "SERVICE" oriented organization.

Replicas of this logo will soon be placed at Board activities and on Board suggestion boxes in the Plaza commercial complex where patrons may submit their ideas for improvements of the Board's services.

**Laundry, Dry Cleaning, Shoe Repair**

Some of the Board's other activities not pictured here include the operation of the Laundry/Dry Cleaning service under a concessionaire agreement with the Antelope Valley Cleaners of Lancaster and of a "drop-off" shoe repair service provided by the Thompson Shoe Shop of Ridgecrest. This service operates out of the office of the ESB Business Manager, next to the Station Pharmacy, with drop-off services available from 8 a.m. to 6 p.m. Monday through Friday.

**Service Station**  
Last of the commercial enterprises to be assumed from the Navy Exchange was the Service Station facility. An all new, four bay modern station is nearly completed on the southwest corner of the Bank of America parking lot.



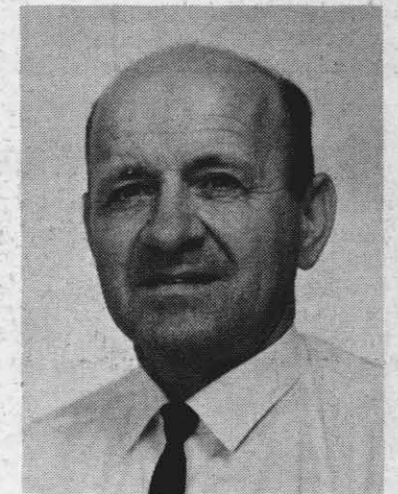
BENNINGTON PLAZA takes on more shopping center look than ever.



SHOPPING BAG market ranges from prime cuts to sport clothes in volume operation.



RANDY BREEDLOVE Shopping Bag Market



BURT COLLIE Food Services



ART RUTHERFURD ESB Business Manager



WADE SMITH Laundry - Cleaning



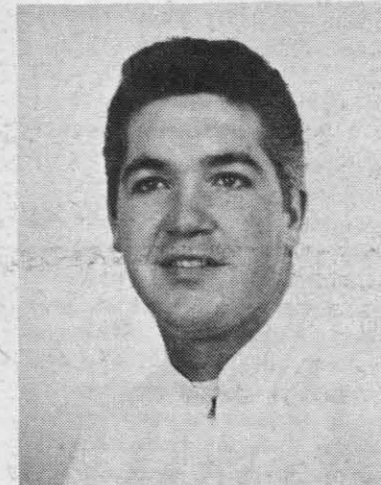
STATION RESTAURANT was recently remodeled, menu received boost Saturdays, Sundays.



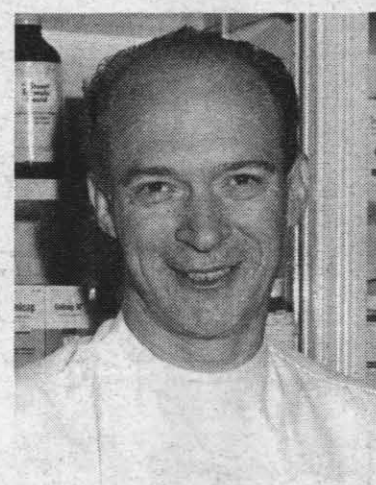
DR. EARL KARNER Dental Services



MARJORIE McDERMOTT Child Care Center



TOM SENN Beauty Salon



CLYDE CAMPBELL Station Pharmacy



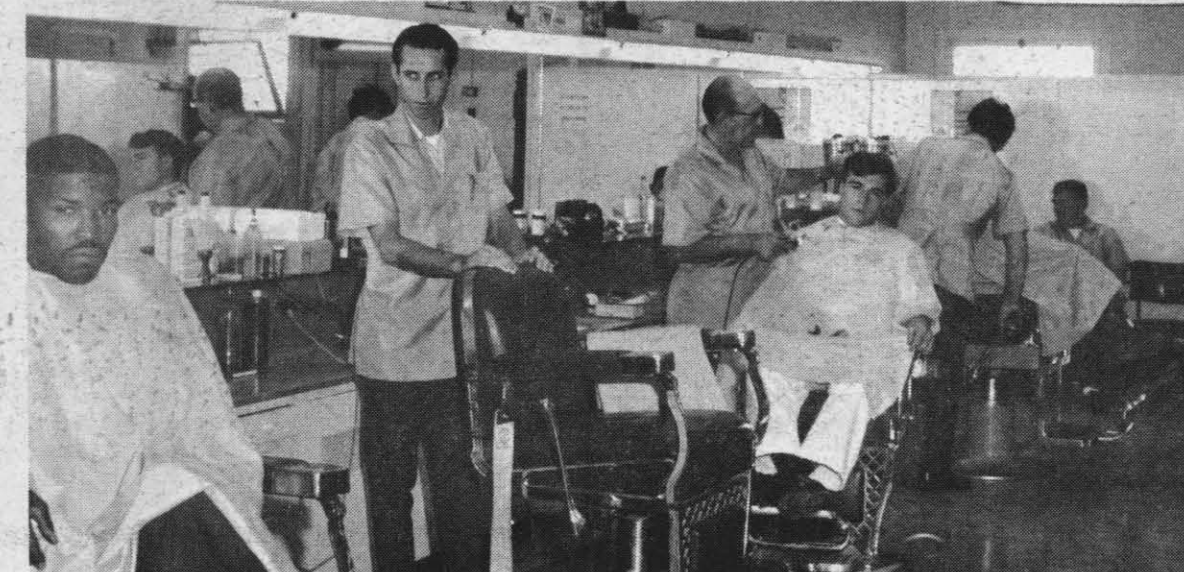
JOE PERRY Barber Shop



GEORGE WOOD Service Station



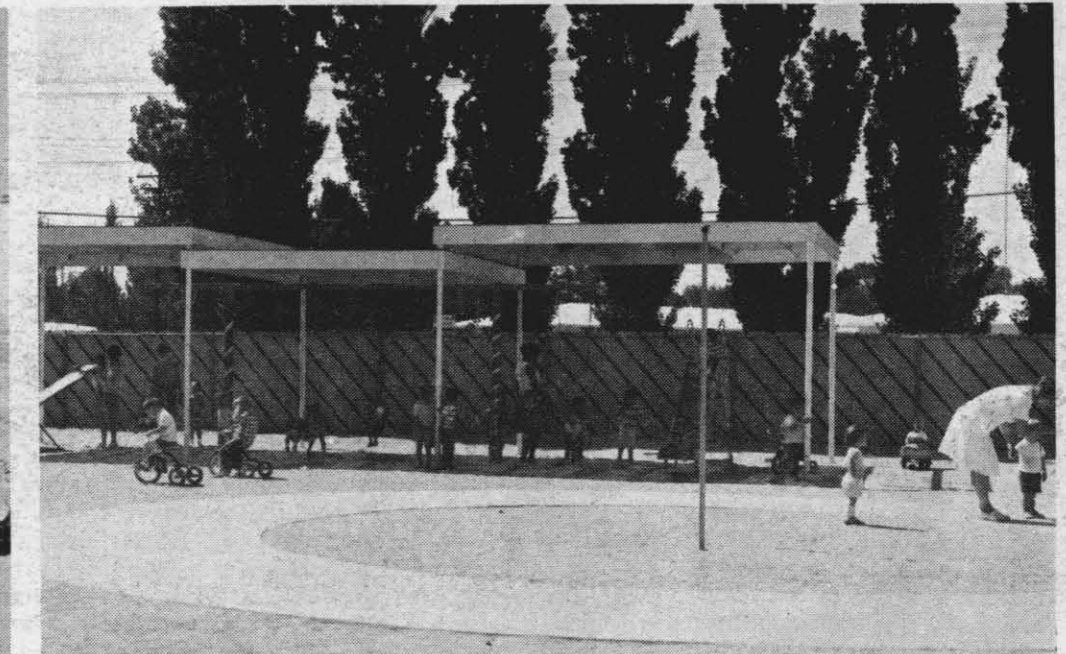
BEAUTY SALON is newly redecorated, is to get new equipment, furniture to serve ladies.



BARBER SHOP features all new fixtures, expanded operating schedule for Lakers.



SERVICE STATION rises at shopping center; FEDCO will operate it.



CHILD CARE CENTER provides recreation, pre-school learning for tots.

# NOTS Pasadena

VIRGINIA E. LIBBY — EXT. 638



**NAVY LEAGUE** — Major participants in a recent meeting of the Navy League, Hollywood Council, were (l-r) newly elected President, Dr. Edward S. Lamont; Cdr. H. H. Schleunig, Jr., NOTS, Pasadena Technical Officer; Tom Frandsen, prominent TV personality and Captain in the Naval Reserve, and Jack Kenaston, retiring Council Presi-

dent. Highlight of the meeting was Cdr. Schleunig's program on CURV (Cable-Controlled Underwater Research Vehicle) and the part it played in the recovery of the H-Bomb off the coast of Spain. The event was held at Don the Beachcombers in Hollywood.

—Photo by PH2 Ralph Robey

## Credit Union Extends Scope of Loans

The NOTS Pasadena Employees Credit Union has changed its policy on security for loans to include such items as house trailers, mobile homes, airplanes, and boats, according to Educational Committee Chairman, Gerald Mosteller. Now members whose basic needs have long since been secured may purchase "luxury" items at the same low interest rate as is required on car loans; 3/4 of one percent per month on the unpaid balance for long periods of time.

Of course, the usual check

must be made on the borrower's credit rating and on his ability to pay. On used items whose "blue book" value is not listed, such as on a used airplane, the prospective borrower will be required to pay for an appraisal by a broker or agent approved by the Credit Committee.

So, if you are thinking in terms of owning such a luxury item as a boat, house trailer, camper, etc., contact the Credit Union office or a member of the Credit Committee for more information.

## Gopher Brokes Pursue Saints

BY RAY HANSON

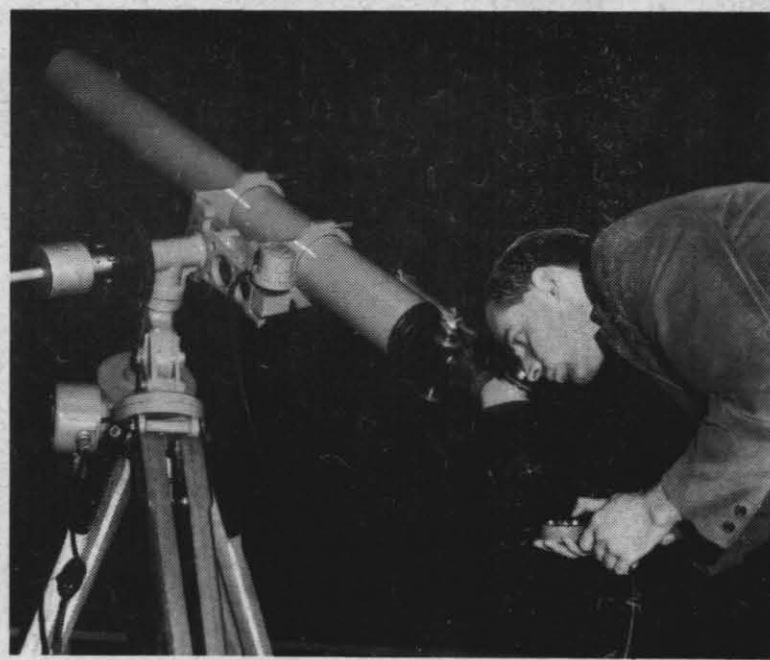
Sam's Saints continue to lead the NOTS summer bowling league, but the Gopher Brokes are in dogged pursuit, and it's anybody's championship. The Saints have won 16 and lost eight, while the Gophers have racked up a 15 and nine record. Third place is snarled between Team No. Four and the Tanglefoots, each with 13 wins, 11 losses. High scores for the sixth week of play are as follows: team series, El Primos, 2308; team game, Sioux, 782; men's series, Ray Hanson, 622; men's game, Jim Henry, 232; women's series, Judy Cowell and Peggy Sheldon, 618 (tie); women's game, Phyllis Henry, 227.

## NOTS Blood Bank Seeks Volunteers

Virginia Olson, Foothill Dispensary Nurse, announces the next opportunity to donate to the NOTS Blood Bank. Blood donations will be taken on Thursday, July 6, between the hours of 1 to 5:30 p.m. at the Stuart Company, 3360 E. Foothill Blvd., Pasadena. To make an appointment, call the dispensary nurse by 12 noon, Wednesday, July 5. Transportation will be furnished for those desiring it.

The dispensary reports that our present withdrawals have exceeded our deposits by 19 pints.

Aircraft carrier John F. Kennedy, christened recently at Newport News, Va., is the third carrier since the end of World War II to bear the name of a man. Its only companions are named for Franklin Delano Roosevelt and James V. Forrestal.



**STAN SEEBERG** observes the sky through his 4-inch refracting telescope, equipped with equatorial mounting and a clock drive that keeps the instrument pointed at objects being viewed. Buttons on the control panel allow small changes in direction to be made automatically.

## Stargazing As A Hobby

BY STAN SEEBERG

With the advent of the space age, people are becoming more aware of the heavens above. The fascinating discoveries in the field of the space sciences have stirred the curiosity and enthusiasm of millions of people. In the last few years amateur astronomy has captured the interest of an increasing number of people who wish to find out first-hand about the mysterious and wonderful universe in which we live.

Amateur astronomy is a field open to everyone, and, unlike the majority of scientific studies, requires no special training or ability to understand complicated technical material. The basic concepts and information about the myriads of celestial objects around us may be clearly understood by a little careful study.

Many people begin their study of astronomy by first learning how to identify some of the brighter stars and constellations visible in the night sky. From this they study about the individual objects in space such as the sun, moon, planets, satellites and comets in our solar system, and about the realm of the stars and galaxies whose distances from us are simply incomprehensible. Many excellent books and magazines are available for study.

### A Sight to Behold

Few people have not experienced the thrill of seeing the sky on a clear moonless night away from city lights and haze, when the stars seem to resemble diamonds embedded in a curtain of black velvet. With an ordinary pair of binoculars the thousands of stars invisible to the naked eye may be seen, and in the Milky Way, our own galaxy, clusters of stars and great glowing clouds of gas called nebulae make their appearance. After a few casual glances, the next step taken is usually the acquisition of a telescope which will enable a much closer view.

There are many opinions regarding what would be the best choice for that first telescope. Basically, two types of instruments are up for consideration. The reflecting telescope employs a concave mirror at the bottom of the tube to collect the light from objects viewed,

and, in the Newtonian form the light rays are intercepted by a plane mirror at the upper end of the tube which directs the rays out to the side of the tube where they may be viewed with an eyepiece. In the refracting telescope the light from objects viewed passes through a lens, called the objective, and is focused at a point down the telescope tube at the end of which an eyepiece is placed.

It is the opinion of this writer that a small lightweight refracting telescope with an objective of two to three inches would be an excellent choice. In general, refractors are more convenient to set up and easier to use than reflectors. There are some very good instruments of about 2.5 inches in aperture available for the nominal cost of about \$50.

Large department stores as well as telescope manufacturers carry a selection of instruments. Sometimes a good second-hand telescope can be picked up at reasonable cost. It would be well for a person with some knowledge of optical and mechanical performance to check the new or secondhand instrument prior to purchase, since qualities vary considerably and price is not always an accurate indication of how well it will perform.

### Wonders of the Universe

The observer equipped with a small telescope will be astounded at his first view of celestial objects. Craters, mountain ranges and other features on the moon's surface stand out in startling detail. The cloud bands of Jupiter and its four brightest satellites are clearly seen, as are the phases of Mercury and Venus, and Saturn's ring system. Hundreds of other objects including distant galaxies can be glimpsed.

Here then is a new and fascinating entrance into the boundless universe. Amateur astronomy is an activity that may be enjoyed by the whole family, one which encourages each individual to look upward and outward, away from this commonplace life, where for a brief moment he may contemplate his relationship to the Power which guides the universe.



**BON VOYAGE TO THE GLENDENNINGS.** Dennis, former commodore of the China Lake Boat Club and his wife JoAnn, club secretary, were relieved of their offices at a special meeting June 22 because of their moving to Ft. Walton, Fla. Assuming their duties are Earl Heart as commodore, and Cheryl Preul secretary. Programmed for the next scheduled meeting on July 6, at 6:30 p.m., 355 McIntire is boat-of-the-month display, pot-luck dinner, and films on "Courtesy Afloat." The public is invited to attend. Pictured above (l-r) Dennis Glendenning hands over the gavel of office to Earl Heart.

## Most Facilities to Close July 4

All Navy Exchange and civilian facilities will be closed in observance of the Fourth of July.

The Library, Ceramic Shop and Community Center will also be closed, however, the rest of the Special Services facilities will observe regular hours.

## Synecotics: Using Fantasy to Invent

(Continued from Page 1) Synectics group training session back East four years ago and have been mulling it over since.

"Clarence and I tried it out here in 1964," Stephenson relates. "At that time, we thought it was a kind of wild, way-out system, but we've learned much more about it since, while it's been developing. It is difficult and challenging for the conference leader, but a Synectics session can be very exciting, once it gets going."

### Find Novel Approach

In a Synectics session, a small group of professionals in varied disciplines gathers with at least one person familiar with the problem to be solved, and they elect a group leader or moderator.

The members begin with a statement of what is called the "problem as given" (PAG) such as "Eliminate the bulk and complexity of tracking and control equipment from present remote guided aircraft missiles."

Then, in order to eliminate the restrictions of such a statement, aimed only at the mechanical difficulties of a present system, the group works up a broad statement calling for a new idea. The "problem as understood" (PAU), as it is called, might be "How can a missile find, track and follow a target by itself?"

### Fantastic Voyages

From this point, the mem-

bers talk, one after another, about what the elements of the problem seem like to them personally, making an effort not to talk too close to the problem itself. They call up free associations by making far-fetched analogies, then combing through them to select promising ideas, which brings the group back to the problem.

Out and back, out and back they go, using the imagination to conjure up novel analogies. The expert in the problem area keeps a rein on the discussion to keep ideas within a useful range. Dr. Gordon believes this group experience approximates the style of productive, inventive thinking characteristic of the inventive genius — whether such a man may be aware of how he arrives at his ideas or not.

Such a group might, for example, have suggested the case of the desert rattler called Sidewinder, a kind of missile of the animal world who catches small animals on the run, with the help of its own special seeking system, a heat-sensitive organ in its head.

It didn't happen this way, group-fashion — one man, Dr. William B. McLean, conjured up the idea for the Sidewinder missile on his own. But Robert Stephenson believes many technical people at NOTS, both producers in shops and researchers in labs, can



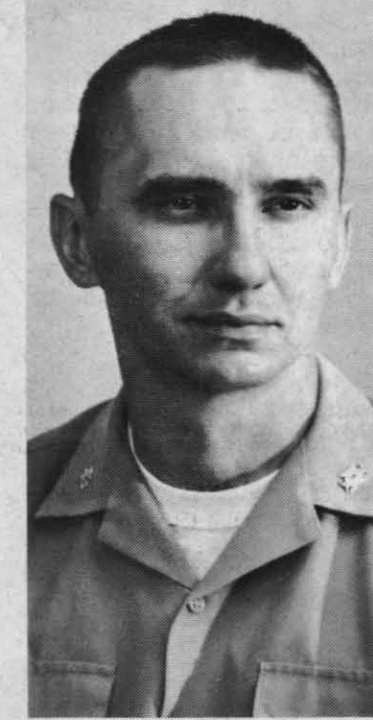
**IN HIS ELEMENT** — Will Forman of Code 55's Fleet Engineering Div. explains the operation of the deep submersible Deep View to an interested viewer in front of the NOTS booth at the recent Marine Technology Society Meeting in San Diego. Working models of submersibles Hikino and Deep View were shown together with static models of Deep Jeep, Moray, and CURV. At-

tending the technical sessions from China Lake, in addition to Forman, were Al Berryman, Code 5565, and Gordon Lowham, Doug Murphy, Harry Chalmers, and Bob Flood, all of Code 404. Featured speakers addressing the Meeting were Dr. James H. Wakelin, RADM O. W. Waters, Oceanographer for the Navy, and Governor Ronald Reagan.

## No Rubbish!

Next Tuesday's Independence Day holiday will change rubbish pick-up schedules in the following housing areas: Capehart "B"; Normac; Residential Trailers, and LeTourneau.

Residents of these areas are requested not to put their "GI" cans out for pick-up until Wednesday. No refuse collection in areas normally serviced on Tuesdays will be made on account of the holiday, July 4.



LCDR. JOHN FARBARIK

FROM BANGKOK, Thailand, to China Lake offers a complete change of scenery for new Assistant Public Works Officer LCdr. John J. Farbarik. His most recent assignment was a two-year tour with the Officer in Charge of Construction in the southeast Asian country that lies between Cambodia, Laos and Burma. LCdr. Farbarik calls Steubenville, Ohio, home. He was graduated in 1957 from Carnegie Institute of Technology with a BS degree in civil engineering. In November of the same year he was commissioned in the U.S. Navy. From that time until 1960 he served with the Mobile Construction Battalion on Okinawa. His next tour took him to Indonesia where he was until 1962. Then he served two years as Housing Officer at the 9th Naval District. Before going to Thailand, he was Shops Engineer at the Naval Air Station, Alameda, for nearly a year.

LCdr. Farbarik and his wife Myke have three sons, John N., 5 years; Arnold P., 4; and Raymond, one year.

## Wherry Service

Here is a handy clip-it-repairer for Desert Park (Wherry) residents. Service Calls—763-7177. Emergency Calls—763-72917. After midnight tonight (June 30) Public Works Department will handle all repair and maintenance work for the Wherry housing area. For regular service calls a 24-hour electronic secretary takes requests. Round-the-clock emergency service is also available.

Children grow up fast. Before you know it, the little girl in the frilly feminine dress is a woman in blue jeans.

CHAPLAIN'S MESSAGE

Search for Happiness



By CHAPLAIN PAUL L. TOLAND
Ask an American mother what she wants most for her child. The chances are she will reply: "To be happy."

EDITORIAL

Freedom's Anniversary

JULY 4, the 191st anniversary of the signing of the Declaration of Independence, is a birthday that will be observed by Americans the world over.



For others, America became their haven, their goal, their country. They came in increasing numbers, bringing their families, their religions and their toil.

The Rocketeer

Official Weekly Publication
U. S. Naval Ordnance Test Station
China Lake, California
Capt. G. H. Lowe, USN
Station Commander

DIVINE SERVICES
Christian Science (Chapel Annex)—
Morning Service—10 a.m.
Sunday School—10 a.m.

Christian Science (Chapel Annex)—
Morning Service—8:15 and 11 a.m.
Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) located opposite Station Restaurant.

PROMOTIONAL OPPORTUNITIES

Present Station employees are encouraged to apply for the positions listed below. Applications should be accompanied by an up-to-date Form 58.

Mechanical Engineer GS-830-9, PD No. 435064, or GS-11, PD No. 535036-1 (1 vacancy), Code 3534 — Project engineer for design, test and development of pyrotechnical devices for project TIARA and for the development of rocket warhead target making systems and freefall bomb target making systems. Applicant must be willing to travel.

Mechanical Engineer, GS-830-12, PD No. 735065, Code 3534 — Project engineer for development, design, test, and evaluation of aeromechanical cluster devices for project TIARA. Incumbent must have had extensive experience in project management and be willing to travel.

File application for above with Mary Morrison, Rm. 32, Bldg. 34, Phone 72032. Management Analyst, GS-5, Code 251 Plans, reviews, and coordinates proposed operational programs; conducts special and scheduled surveys and studies; develops solutions to problems and recommends new and improved methods and procedures; drafts correspondence, reports, instructions, charts and forms. Requires three years of experience in administrative, professional or technical work. The person selected must pass or have passed the FSEE.

Electronics Technician, GS-11, Code 5017 — Designs, assembles, and tests electronic and vacuum equipment to be used in the various basic research projects of the Branch. After completion of equipment construction and testing, participates in delicate experiments and equipment maintenance.

File applications for above with Naomi Campbell, Bldg. 34, Rm. 28, Phone 72119. Business Manager, GS-11 or 12, Code 4563 — Position is located in the Weapons Systems Branch, Warhead Division. The purpose of the position is to supplement the technical proficiency of the Division's scientific and engineering supervisory staff with a high level of competency in the field of administrative management. The incumbent participates in all aspects of management, for example, budget, fiscal management analysis and planning. Bachelor degree is a minimum requirement.

File applications for above with Evelyn Moors, Bldg. 34, Rm. 24, Phone 72723. Secretary (DIT), or (Typing) GS-5, PD No. 630004, Code 3008 — Position is that of Secretary to the Head, Infrared Countermeasures Group. Incumbent will provide secretarial services to the Group, handle details pertaining to the Group's Headquarters, contacts, and generally become directly involved in the work of the Group through close association with the day-to-day work activities of her supervisor.

Electronics Technician, GS-11, PD No. 130169, Code 3073 — Head, Sled Instrumentation Unit, Track Instrumentation Branch. Supervises or performs the fabrication, installation, checkout, and calibration of airborne radio-link and landline telemetering equipment and systems used to acquire data at the Station's supersonic tracks — SNORT, B-4, G-4. Responsible for track ranges' calibration, laboratory and for the calibration of transducers and elements applied to track tests. Excellent opportunity to broaden experience by supervision of a small technical group, and to develop competency in electronic data acquisition techniques, systems, equipment, and calibration.

Civil Engineering Technician, GS-802-5, 7 or 9, Code 3023 — Will be responsible for the planning and coordination of the field and office work involved in precise surveying. Develops methods and equipment for precise measurements for alignment of launchers and missiles or other measurements required for operation of the Systems Development Department ranges and range equipment.

Test Mechanic (Experimental Ordnance Equipment), Code 3025 — Position is located in the Range Division of the Systems Development Department. The incumbent assembles, disassembles, modifies, adjusts, repairs, services and operates specialized ordnance equipment used in the experimental testing of rockets, guided missiles, projectiles and high explosive items. All applicants who applied on the previous announcement of Dec. 2, 1966, will be considered for this position.

File application for above with Fawn Haycock, Bldg. 34, Rm. 24, Phone 71514. Personnel Clerk (Typing), GS-4 or 5, Code 4000 — This position is that of Personnel Clerk, responsible to the Head of Department Staff and in addition assists the Head, Department Staff in carrying out his functions in the areas of administrative reports, organization and methods, safety, security, coordination and storage of records. Familiarity with Navy-Civilian Personnel Regulations is desired.

File applications for above with June Chipp, Bldg. 34, Rm. 26, Phone 72676. Employee Relations Specialist, PD No. 465012, GS-230, 7, 9, or 11, Code 651 — Develops programs for the Station in the areas assigned, which include the following: employee services, incentive awards, health and life insurance, retirement, compensation for on-the-job injury, unemployment compensation, fund drives and campaigns, and employee indebtedness.

File application for above with Sue Prosolowicz, Bldg. 34, Rm. 26, Phone 71577. (Continued on Page 8)

'DESERT PHILOSOPHER'

About Coyotes



By "POP" LOFINCK

It's odd how man gets mixed up about animals. Take coyotes, for instance. For many years there was a bounty on coyotes in California and Nevada — because a coyote would get a lamb, now and then.

So the coyote population became so reduced that the jack rabbits got so thick that the rabbits ate up a billion tons of alfalfa (more or less) which was a much greater loss than an occasional lamb or chicken. That was upsetting the balance of nature in keeping the jack rabbits under control.

So now, in large alfalfa areas, if you shoot a coyote, the rancher might want to shoot you. They wish there were more coyotes. So it goes.

The State Fish and Game Department knew all this in advance — but they had a hard time getting the bounty removed on coyotes.

I like coyotes — they make such mournful music when they stick their snout up and sing — especially at moonrise or sunrise in the winter.

COYOTES BECAME FRIENDS

When I lived at Junction Ranch at the north area of NOTS as Security Patrol Officer — GORVIP (Guardian of Outer Ranges and Very Important People) — the coyotes got quite friendly with me — they knew my jeep and knew my voice and I reciprocated their friendliness.

During the day I would shoot a jackrabbit or two and take them to my cabin — so the coyotes could have an easy meal. They got so they expected that — so if I didn't leave a jack rabbit at night they would sometimes bark at my cabin, like a dog. Not the yippy-yik sound, while chasing a rabbit nor the baying at the moon, but a bark. I didn't know before that coyotes could bark.

In the morning when I opened the door and went out — there might be two sitting there waiting for a handout. They weren't afraid, but I could never get close enough to touch one — they wouldn't get that friendly or trusting. I think animals have a telepathy instinct of knowing your attitude toward them.

THEY SERVE A PURPOSE IN NATURE'S BALANCE

Here is what brought on this column about coyotes: Somebody will ask me, "Where is a good place to get a shot at a coyote?"

"Why," I ask? "Do you want a coyote pelt for a rug?" "No," they say, "I just want to zero in on a coyote." "Why?" I ask. "Coyotes serve a purpose in the balance of nature to keep the rabbits under control. Why not zero in on a rock or a gas can or a stump?"

After all my talk about kindness to animals it may sound hypocritical to shoot a poor rabbit to feed my coyote friends. But the coyotes would kill the rabbits anyhow — so I'm just making it easy for the coyotes to have an easy meal. That is still the balance of nature.

Mr. Burt Collie, operator of the station restaurant has a unique hobby. He got a jack rabbit call and a cottontail call. He goes out at daybreak, about 4:45, around the golfcourse area and makes a call like a wounded rabbit — and the coyotes come in looking for an easy meal. He doesn't shoot the coyotes — but it's interesting to watch the coyotes.

I'm told that some fellows call in the coyotes around the Walker Pass and Robber's Roost area, then shoot them and let them lie. There's no law against it — but it's very foolish, because there are not enough coyotes.

Parenthetically there seems to be two breeds of coyotes. The smaller grayish, flatland breed, with big ears and the larger, darker breed of mountain coyote. The latter look like wolves — but the Fish and Game people assure me that they are coyotes — not wolves, which are different. I guess they are bigger because they get more to eat. And nature has given them longer hair to keep warm, at higher altitudes. Their ears appear smaller because of their longer hair. Oddly, coyotes cross with dogs, and wolves cross with dogs — but coyotes and wolves don't cross — so I'm told.

LEGISLATURE STUDYING PROBLEM

The State Legislature made a study of this coyote problem and have removed the bounty on coyotes and mountain lions. That's progress.

To shoot a deer — that's different — that's food — that's like harvesting a crop. The deer population has increased to such an extent that they will overbrowse their area and starve to death.

The State Legislature has taken this problem under consideration and may come up with some new deer hunting legislation. More about mountain lions and deer later.

THE LOCKER ROOM

Don't Watch Crager



By ED RANCK

Although there is an abundance of coaching available these days, the easiest way for a young ballplayer to find out how to play the game of baseball is by watching the big boys do it. It is possible that fellows such as Mickey Mantle, Willie Mays and Sandy Koufax are the most imitated athletes in the world. It is only natural that players like these should be idolized by millions of youngsters around the country, they are the class of the game, and if they can't do it, it probably can't be done.

All good ballplayers however, aren't in the big leagues. There are some in the minors and even a few that have never played the game professionally. It is even possible, if you overlook an occasional fumbled grounder or dropped popup, to see some good ball played at Reardon Field.

The number of parents that bring their offspring to the softball games on the off chance that their kid will learn something that will result in his becoming a 400 hitter in the big leagues isn't exactly known. It is to these parents that we would like to direct this word of caution.

MAYBE A BLINDFOLD

When the Engineers play make sure that the world's first \$200,000 ballplayer, i.e., your kid, stays home. If you must bring him, make sure you cover his eyes when Denny Crager comes to bat. Watching Short, Clayton, Seibold or Buckley may be alright, but when Denny comes up, send the boy out for a hotdog.

Anyone who has ever seen Crager hit knows the reason for this. His style isn't exactly reminiscent of a young Ted Williams, in fact Ted will probably look smoother at the plate when he is past 90. We tried to think of what his style reminded us of, but the only thing that comes to mind is that Crager hitting the ball looks like Crager hitting the ball.

He stands in the front of the batter's box, almost facing the pitcher. Hands spread wide on his bottle bat, he lunges at the ball, never using the wrists and usually hitting to the right of second base. He has even been detected moving his back foot prior to swinging, a habit that has been known to cause little league managers to chew the rug.

Although Denny Crager may never star in an educational movie entitled, "How to be a pull hitter," there are a few facts about his play on the field that can't be denied. He is (a) a very good ballplayer, and (b), an exceptionally good hitter. In fact he has been one of the most consistently good hitters at China Lake in the past 10 years or so.

It is a well known fact that Crager usually hits to right field, therefore many teams in the league have been employing a defensive shift in that direction. The result; Crager is hitting .452, is second in runs batted in, and has provided the key base hit in many of the Engineer's victories.

SMART AND GOOD

Crager is a smart hitter, and one who rarely strikes out. Although everyone in the ballpark knows where he will hit, he is still a hard man to keep off the bases. He is a line drive type hitter who is at his best in a tight situation, as his impressive statistics will testify.

We talked to Denny the other day about his unusual hitting style and about the Station Softball League in general. It was surprising to find out that the batting stance was not something that he developed for softball alone. He says that he has always hit that way, even in his baseball playing days. He was in the Marine Corps before coming to China Lake, and played baseball in the Japan Army League in the early '50's, a league which we know from our own experience is not a soft touch.

Denny has been catching at China Lake for over 10 years now, and was on the Merchant's ball club that dominated China Lake softball for so many years. He caught for the Ridgecrest Tigers last year, then moved on to the Engineers this season. We asked him who was the best pitcher that he ever caught at China Lake and the answer wasn't surprising, Bob Kochman. He also rates Bert Andreason and Don Merritt among the top pitchers here in recent years, but feels that the best he has ever seen is Ace Valenzuela, a familiar name to those acquainted with Navy softball.

YOU DARN RIGHT

We asked Denny one last question: Does the Crager shift bother you? We expected the standard reply such as "No, I don't even notice it," but his answer was refreshing. "Darn right it does," says Denny, "I'm having a hard time finding a place in right field to hit the ball." I guess you can't give a more honest answer than that.

Junior Golf Clinic

Final call for China Lake's Junior Golf Clinic will be held next Tuesday according to golf pro Paul Someson. The clinic, which includes a free five week instruction program, is open to all members of the China Lake area, age 16 years or below. All persons interested in joining the clinic are requested to contact Someson at ext. 72990.

Dotty Duncan Rolls High Score

Summer may be considered the off season in bowling at China Lake, but it would be hard to convince Dotty Duncan of that fact. Dotty, who bowls in the summertime Ball and Chain League, rolled a 210-202-186 for a series of 598 recently. It was the highest women's score ever rolled at China Lake Bowl. Dotty proved that her big night was more than just luck, she rolled a 204-574 series a week later to lead the league once again.

Ken Dalpiaz rolled a sizzling 201-220-257 for a 678 series to take honors in the Wednesday Night Men's Handicap League. Other high scores included Dalpiaz with 222-605, Chuck Albright 220-213-200 — 633, and Paul Lewis with 255 single, tops in the league in recent weeks.

Station Softball League

Table with columns: Team, W, L, GS. Rows include Triangle Sporting Goods, Engineers, Ace TV, Magic Cleaners, Ridgecrest Tigers, VX-5, NAF, NOTS, Genge Industries.

NEXT WEEK'S SCHEDULE
JULY 5—Triangle Sporting Goods vs. Ace TV; NOTS vs. Magic Cleaners.
JULY 6—Ridgecrest Tigers vs. VX-5 Vampires; Engineers vs. Genge.

Colt League

Table with columns: Team, W, L, GS. Rows include Angels 17, Giants 4, Dodgers 0, Giants 8, Colts 6, Angels 7, Giants 13, Colts 1, Angels 6, Dodgers 4.

Table with columns: Team, W, L, GS. Rows include Cubs 9, Yankees 2, Yankees 7, Tigers 5, Indians 3, Angels 4, Indians 8, Yankees 4.

Table with columns: Team, W, L, GS. Rows include Angels 3, Reds 4, Reds 14, Cards 6, Braves 10, Angels 3, Braves 7, Reds 2, Angels 6, Cards 7.

Some Areas Open For Rabbit Hunt Starting July 1

The 1967 hunting season for cottontail, brush, and pigmy rabbits and varying hares opens in Central and much of Southern California Saturday, July 1.

All of the south state except Imperial, Riverside, and San Bernardino counties will be open, as will the coast from San Francisco south and the San Joaquin Valley south of Stockton. The balance of the state will open to hunting for the four species on September 2. Both seasons continue through January 1, 1968, with a bag and possession limit of five rabbits per day in the aggregate of species. There is no closed season or bag limit on jack rabbits.

TENNIS NEWS

Ken Gipson, one of China Lake's top rated tennis players, finished third in the MDJSL singles championships held last weekend at George AFB. Gipson, number five seed in the tournament, won his first four matches before bowing to George's Lt. Tim Gill in the semifinals. Gipson along with Cdr. F. W. (Buck) Bustard, will compete in the 11th Naval District Tournament at Long Beach July 5-7.

The Ridgecrest Tigers came from behind twice to down NAF 6-5 in eight innings. Jim Goforth's two run double in the eighth drove in Bob Brown