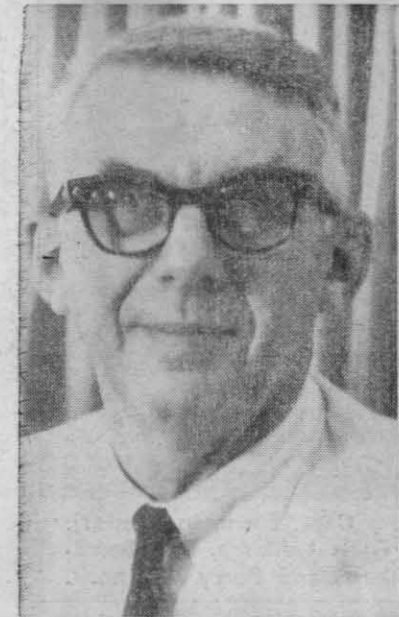


# 9th Year As Consultant For Tulane Professor

This is the ninth consecutive summer that Dr. Hans B. Jonassen, professor of chemistry and chairman of the chemistry department at Tulane University has served as a summer consul-

Ellen, 13, who are at China Lake with their parents. The family makes use of their leisure time during the summer at China Lake by deep sea fishing and hiking.



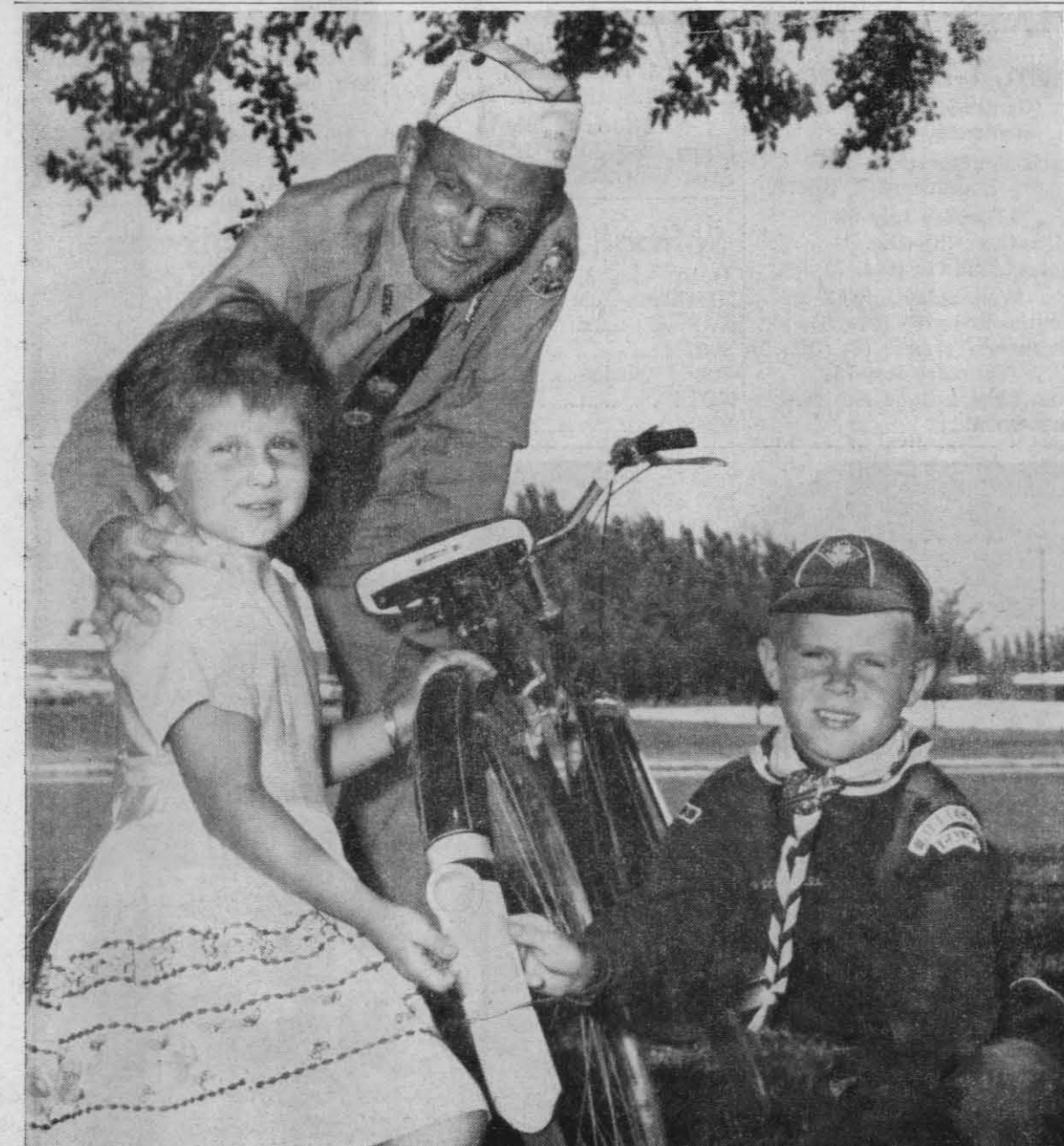
DR. HANS B. JONASSEN

tant to the Research Department. The Tulane professor was born in Norway and served with the Norwegian Merchant Marine from 1931 to 1940. He held both a captain's and mate's license. He became a naturalized citizen in 1943.

Jonassen received his B. S. degree in chemistry from Tulane in 1942 and his Ph. D. degree from the University of Illinois in 1946.

His wife, Fannie, a native of New Orleans, holds a B. A. degree in Latin from Newcomb College as well as an M. S. degree in medical social work from Tulane.

The Jonassens have three children, Hans, 22, who received his B. A. degree from Tulane and is now in the Army; Ida, 14, and



BIKE SAFETY STICKERS will be attached free as a service to local children by members of VFW Post 4084 on Saturday, July 20 in front of the Station theater. Endorsed by

the National Safety Council, the program is sponsored throughout the nation by the VFW. Police here say there are 6,000 bikes registered on Station.

## SHOWBOAT

FRIDAY JULY 12  
"Operation BIKINI" (80 Min.)  
Tab Hunter, Scott Brady, Jim Backus  
7 p.m.

(War Drama) American submarine picks up a demolition team to destroy a sunken sub's mate. Frankie sings in dream sequence. (Adult)

SHORT: "Upswept Hair" (7 Min.)  
"Eventful Britain" (16 Min.)

SATURDAY JULY 13

- MATINEE -  
"THE MAGIC SWORD" (79 Min.)  
Basil Rathbone  
1 p.m.

SHORT: "Wet Paint" (7 Min.)  
"Iron Horse No. 3" (16 Min.)

- EVENING -  
"TROUBLE WITH HARRY" (99 Min.)  
Shirley Maclaine, Edmund Gwenn  
7 p.m.

(Comedy in Color) Vermont community is upset as a body is discovered and various residents fancy themselves involved. So the trouble is that the corpse just won't stay buried. Hitchcock here!

SHORT: "Sheep Stealers" (7 Min.)

SUN.-MON. JULY 14-15  
"I COULD GO ON SINGING" (99 Min.)  
Judy Garland, Dirk Bogarde  
7 p.m.

(Drama with Music) Famed American singer packs the London Palladium on tour and attempts to retrieve her young son from his English father. Judy sings her best. (Adult)

SHORT: "Chill Weather" (7 Min.)  
7 p.m.

TUES.-WED. JULY 16-17  
"THE MAN WHO KNEW TOO MUCH" (100 Min.)  
James Stewart, Doris Day  
7 p.m.

(Suspense Drama) Hitchcock does it again! Doctor and wife learn of assassination plot to their son, kidnapped to silence them. Chase leads all over Europe at fast pace. (Adults and Young People)

THURS.-FRI. JULY 18-19  
"COURTSHIP OF EDDIE'S FATHER" (103 Min.)  
Glen Ford, Shirley Jones  
7 p.m.

(Comedy Drama) Hilarious and heart-warming film results from efforts of a young son to "choose" a new mate for his widower father from a pretty divorcee, a shy beauty queen and a ritzy fashion consultant. A laugh-fest special. (Adult and Young People)



SCHOLARSHIP WINNERS — Pat Holmquist before her departure from the Station this week rehearses China Lake Ballet Society scholarship winners Leanne Lippincott, Janie Evans, and Michele Reck. The ballet trio leaves Sunday for an intensive two-weeks at the Carmel School of Classical Ballet. Jane Bachinski will accompany the girls to Carmel.

## July 20 Will Mark Solar Eclipse Here

(Continued from Page 1)

culating dry nitrogen gas across the panes.

The specially equipped DC-8 is now being prepared for its flight at Long Beach.

Seats along the right, or sun side of the plane have been removed and a special floor installed for mounting equipment. Some of the standard plexiglass windows will be replaced by glass lenses, ground optically flat.

The plane will carry a special flight recorder to permit reconstruction of the location, altitude and attitude history of the flight and to correlate all astronomical observations with Universal Time.

Astronomers say the eclipse will be the first visible from the northern Japanese island of Hokkaido. The moon's shadow will

then speed eastward across the North Pacific and Bering Sea, striking islands across, Alaska, Canada and Maine, before disappearing over the Atlantic Ocean.

The flying observatory will start on its historic journey from Edmonton, Canada.

Thirteen agencies, in addition to NOTS, including representation of France and Italy, are participating in the project.

The Naval Ordnance Test Station, China Lake, Calif., will conduct seven experiments as the DC-8 races along the dark corridor of the total eclipse.

NOTS research includes photo-

graphing the inner and outer corona, the solar limb (sun's edge) and the zodiacal light (caused by scattered light from dust particles between the earth and the sun). Certain spectral wave lengths will be selected by means of filters during these observations.

NOTS will also measure the intensities of the airflow, a faint luminescence caused by the release of energy in the upper atmosphere, normally best visible at night. The intensity of the sun's infrared radiation during eclipse also will be recorded with a radiometer.

### CROSSWORD PUZZLE

ACROSS: 1-Brewer's yeast, 5-Highest point, 9-Minor form, 11-Blemishes, 13-Pronoun, 14-Baton, 18-Symbol for tellurium, 17-Pigeon, 19-Dined, 20-Insect, 21-Part of foot, 22-Equality, 24-Gull-like bird, 25-Shore birds, 27-Approaches, 29-Beam, 30-Inlet, 31-Append, 32-Liquefies, 35-Entrately, 36-Guido's high note, 38-Places, 40-Total, 41-Pair, 43-Used for portrait, 44-Note of scale, 45-Wise, 47-Parent (colloq.), 48-Hosts, 50-More rapid, 53-Cook slowly, 55-Vervet. DOWN: 1-Improve, 2-Near, 3-Ethiopian title, 4-Rodents, 5-Solar disk, 6-Vehicle, 7-Note of scale, 8-Goes in, 9-Plate, 10-Jumps, 11-Strict, 12-Observed. Answer to Previous Puzzle: MESA, HERD, AAR, SPAT, TISTLE, POSERS, CLEEPS, ARISE, COEDS, RAM, SORT, APSE, PASTE, SNAPS, TALC, TAILSPIN, ACER, ESNE, ATE, WERE, REND, LES.

Grid for crossword puzzle with numbers 1-55. Distr. by United Feature Syndicate, Inc.

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

## SOLAR ECLIPSE JULY 20

# Flying Laboratory to Chase Moon's Shadow

A team of China Lake scientists will be aboard the high-flying jet laboratory scheduled to chase the shadow of the moon as it speeds across North America during the total eclipse of the sun July 20.

Personnel from Research and Aviation Ordnance departments are scheduled to join some of the world's notable scientists in making the historic flight.

When the earth, moon and sun align themselves for a total solar eclipse, observations will be made from a convenient "sky-hook" — a DC-8 turbofan jet airliner.

The "Quiet Sun" Flying at 42,000 feet over Northern Canada, the National Geographic Society Douglas Aircraft Company expedition will con-

duct Project APEQS (Aerial Photography of the Eclipse of the Quiet Sun).

From the airborne solar observatory, scientists will train their equipment, much of which has been developed here at China Lake, on the sun's mysterious corona and its chromosphere.

In the past, many ground-based solar eclipse expeditions were hampered by clouds or haze obscuring the sun at the time of total eclipse, those fleeting seconds when the moon is directly between the sun and earth.

Provides Stability The eight-mile-high aircraft provides a platform above 85 per cent of the earth's atmosphere and 99 per cent of the water vapor absorption that reduces in-

frared radiation and interferes with certain instruments.

Length of the eclipse observation period will be increased from 100 seconds as observed from a stationary platform in the moon's narrow shadow, to 144 seconds from the jet.

Flying at speeds up to 520-miles-per-hour, the plane will literally chase the shadow as it speeds across the North American continent at about 1700 miles-per-hour.

Previous eclipses have been observed from airplanes, but effectiveness of the data measurements was restricted by limited altitude, vibration, window fogging and icing and cabin pressurization problems.

Overcome Problems Devices have been developed

which prevent any vibration from being transmitted to mountings of the sensitive astronomical instruments. Engineers learned how to seal a gimballed opti-

cal window against cabin pressurization. And moisture condensation on interior window surfaces is guarded against by cir-

(Continued on Page 8)

## No 'Safe Way' to Watch Sun's Eclipse

There is no "safe" way to observe the sun's eclipse on Saturday, July 20, according to a message released this week by the Navy, which called the phenomena, "a serious threat to the eyesight of all persons, both adult and children, who watch it directly."

The entire North American continent will be covered by the eclipse of the sun, aligning the sun, earth and moon simultaneously.

Pointing out that smoked glass, exposed photographic film (negatives) or dark glasses would not afford adequate protection in watching the eclipse, the message recommended the following "safe" method.

"A simple, safe way of observing the eclipse is by the use of two pieces of white cardboard. Make a pin hole or pencil hole in one. Face away from the sun and hold cardboards so that sun's rays shine through the hole, focusing on second cardboard.

"A clear image of the eclipse may then be seen on the second cardboard."

The message stated that infrared rays, filtered or unfiltered, can burn the eye retina which is insensitive to pain.

ROCKETEER FROM UNDER THE SEA TO THE STARS

Vol. XVIII, No. 27 NAVAL ORDNANCE TEST STATION, CHINA LAKE, CALIFORNIA Friday, July 12, 1963

## Home Improvements Scheduled

Two major home-improvement projects involving nearly a thousand China Lake dwellings are scheduled to begin within the next thirty days, according to local Public Works officials.

Capehart, Old Normac and LeTourneau houses are involved in the projects which are to be completed before winter.

Insulation of hot and cold water piping in Capehart dwellings and insulation of new furnaces in Old Normac and LeTourneau housing are the objectives.

Removal of sections of roofing, material, sheathing, relocating portions of piping, installation of insulation and roofing to match existing materials, is involved in the Capehart project.

A San Diego firm, McMann Bros. Construction Co., won the low bid contract for this project for \$92,472, according to the Southwest Division, Bureau of Yards and Docks.

The removal of 490 old furnaces and replacement of new ones in 414 housing units of the Old Normac and LeTourneau models, will be completed by the H. R. Provin Co., Downey, Calif.

The \$149,407 project will require carpentry, electrical, mechanical, painting and miscellaneous work in each of the units.

Commander John A. McAllister, assistant Public Works Officer, said the Capehart project will be completed with minimum

interruption to household activity.

"There will undoubtedly be a need on the part of the contracting firms and those performing the work involved, for an attitude of patience from the tenants," he said.

Work of a more extensive nature, involving removal of old furnaces from inside the Old Normac and LeTourneau units will "be completed as rapidly as possible," assured McAllister.

Both of the projects, he pointed out, are for the comfort this winter of tenants.

Captain C. A. Reilly, the local Public Works Officer, will be resident Officer-in-Charge of construction.

## Fast Work Nets Com-11 Praise

Praise for the role played by NOTS personnel during the visit of President Kennedy to China Lake in early June was still being received here this week.

The latest commendation, originated by Rear Admiral Almon K. Loomis, Commandant, Eleventh Naval District, was issued to members of the Motion Picture Processing and Documentary Motion Picture Sections.

The letter of commendation, naming eleven local personnel, pointed out that television movies shot on arrival of President Kennedy, had been processed and made available for distribution to press representatives prior to his departure, less than two hours later.

"As a result of this efficient performance, every major television network projected the Navy film to millions of viewers on their early news shows of 7 June 1963," the letter commented.

Named as recipients of the commendation, were: Motion Picture Processing Section's Raymond Becker, Richard Hitt, Arthur Farrell, William Bewley, Clyde Parker, Bernice Rogers, Richard Zurn and James Forrester, AN.

William Miller, Verla Pfeifer and James McFarland, members of Documentary Motion Picture Section were included in the group commended.

## China Lake's Annual Attraction



SCENE FROM PAST will be repeated next Tuesday at China Lake Ice Cream Social. One of year's biggest community events, sponsored by the Protestant Women's Guild, the social annually attracts several thousand

for an afternoon and evening of family outdoor fun on the lawn at the All Faith Chapel. Music, entertainment and game booths are on the bill of fare as highlights of the program.

## Station Gets R4Y In Swap For R4D

Last week, NAF China Lake received a C-131F "Samaritan" from Naval Air Development Center, Johnsville, Pennsylvania. The "Samaritan" is a replacement for a C-117D "Skytrain" which was returned to NADC Johnsville.

The C-131F is a more modern aircraft capable of transporting 40 passengers in addition to the crew. This is twice the capacity

of the older C-117D. Other advantages of the "Samaritan" include a pressurized cabin with air conditioning, higher altitude capability, and cruises at 220 nautical miles an hour. The "Samaritan" also has more modern electronic equipment and added passenger comfort. The new aircraft will be utilized for logistic support of the station.

## Annual Ice Cream Social

One of the Station's biggest annual events, the "Ice Cream Social," will be held next Tuesday evening from 6 to 9 p.m. at the All Faith Chapel.

Presented by the Women's Guild of the Protestant Congregation, the program this year has an "All State" theme.

Tables will be designated by state signs, "so that those in at-

tendance may spend the evening with others from their home state," according to officials.

An evening of entertainment and game attractions has been scheduled, with a Dixieland band comprised of local musicians, square dancing and an appearance of the Barbershop quartet.



EDITORIAL

How Many of Us Know Time's Value

Ever wonder where all the time goes? It is such a busy world we live in today that often we simply cannot find the time or energy to do work properly.

CHAPLAIN'S MESSAGE

Scandal a Concern To Young People



According to the morning newspaper, the people of Great Britain are worried lest their younger generation draw same dangerous conclusions from this season's scandals that have rocked the foundations of government.

Foreigners Find English Difficult

Foreigners find English difficult not only because of the way words are spelled, but because many words that sound alike are spelled differently and have different meanings.

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.

Safety Assistant, GS-018-5 or 7, PD's 985-002 or 185001, Code 2022 - Driver Training and Traffic accident investigation.

File Application for above with Mary Morrison, Bldg. 34, Room 34, Phone 72022.

Mechanical Engineering Technician, GS-7, Code 5521 - Assists in design problems pertaining to servo systems work.

Electronic Engineer, GS-12, PD 155032, Code 5522 - Performs check-out and handles production problems related to semiconductor, video and circuit analysis of the SHRIKE guidance receiver.

Clerk, GS-3, PD 370007, Code 707 - Maintains and operates a complete scheduling system related to preventative maintenance program on all automotive, construction, materials handling and allied equipment assigned to this activity.

File Applications for above with Pat Delling, Bldg. 34, Room 31, Phone 71393.

Clerk (Stenography), GS-5, PD 18539, Code 17 - Responsible for the daily telephone communications with the NOTS Liaison Office in BuWeps.

File Application for above positions with Wilma Smith, Bldg. 34, Room 26, Phone 72723. Deadline for filing applications is July 19.

COMPETITIVE EXAM

A competitive promotional exam will be held at China Lake for Leadington, Engstrom (Hoisting and Portable) - \$8153.60, \$8486.40, \$8819.20 per annum.

Card Form 4155-AB and a Form 57 should be filed with the China Lake Civil Service representative, Bldg. 34, Ext. 72657, not later than July 29.

OFF-STATION JOB

A vacancy exists for a Facilities Inventory Assistant, GS-7, at Point Arguello. File Form 57 with Code 752, US Naval Missile Facility, Point Arguello, Lompoc, Calif. Open until filled.

Leaves for Peru



JANET LONG

Janet Long, daughter of Test Department's Ernest T. Long, left recently for 10 weeks of missionary work with the Methodist Wesley Youth Fellowship group in Lima, Peru.

A junior at Whittier College, Miss Long left by bus from Pomona for Mexico City where she will spend five days at the University of Mexico, then fly to Lima.

The 1961 Burroughs High School graduate has spent her Christmas and Easter vacations working with youth groups from Whittier College in Mexicali.

Two drunks were walking down a railroad track. First drunk: "Oh, these stairs are killing me!"

Second drunk: "Aw, they don't bother me show mush, it's the blasted low bannisters that get me!"

Of nearly \$99 billion that consumers spent in 1960 for food and clothing, about 35 per cent went to farmers and 65 per cent for marketing services.

'DESERT PHILOSOPHER' Beware Summer Desert Hazards



By "POP" LOFINCK

So here are some comments about survival in traveling across the desert in the summer time, away from the main highways.

If your car stalls, don't start walking—that's the worst thing you can do! Newspapers have carried accounts of people who had left their stalled car on the desert and were found dead, a few miles away.

Some people, either from panic or poor judgment, want to start walking.

CAR CAN BE LIFE SAVER

Authorities agree that it's best to stay with your car. It's a life saver — for many reasons.

First—It is more easily seen than an individual walking. Somebody will spot your car from another vehicle or from an airplane.

Your car furnishes shade in the middle of the day. A few inches below the surface of the desert the ground is much cooler. That's why the desert denizens stay underground in the daytime.

If you don't have a shovel, use a hub cap to dig with. Next time carry a shovel, always. These little army trench shovels are ideal — that fold up for carrying or bend down like a hoe for digging.

MIRROR, LIGHTS ATTRACT ATTENTION

During the day your rearview mirror is a good reflector to attract attention of an airplane or another car. At night remove the screws from your headlight and beam it upward toward the sky.

Or your spare tire makes a good smoke signal by day, and by night—a fire signal, which will burn for hours. And sometimes the nights get pretty chilly on the desert. To light the tire use sticks or pour oil over it. Creosote bushes and sage brush make a good fire.

If you run out of matches use your cigarette lighter. Or if you're a rockhound you must have a magnifying glass with you—that will start a fire quick.

WATER, WATER, WATER, WATER

Bring plenty of water. Some very intelligent individuals who are new to the desert don't realize the importance of carrying plenty of water, nor realize the distance between places where you can get more water.

The water in your radiator is NOT drinkable. This statement is on the authority of P. R. Cuykendall—Industrial Hygienist. He states that Prestone and all anti-freeze contain glycol which is toxic. Rust inhibitors are toxic. Oil added to the radiator to lubricate the water pump is toxic.

Even though you drain your radiator in the spring—enough toxic stuff remains in the radiator to make the drinking of it dangerous.

DON'T USE OLD PAINT CANS

Some people carry extra radiator water in old paint cans. That's bad, because you may want to drink that water and paint is toxic. Better carry your extra radiator water in clean cans.

If you have room, carry ten or 20 gallons. Someone else might need water.

And take a drink frequently. You can get dehydrated without being thirsty. Men have died of thirst with water in their canteens—trying to save their water—they lost their life. The idea is to take plenty of water with you.

There are some wonderful Thermos jugs on the market. Canvas water bags keep water cool by evaporation, but you lose so much that way. And the canvas bags wear out from rubbing on the brush. When you need water, warm water is just as wet as cool water.

TELL WHERE YOU ARE GOING

You should always tell somebody where you're going—so they will know where to look for you, if you don't return.

The best policy is to have two or three cars on your safari—in case one stalls or slides into a canyon.

A loose shirt is cooler than your bare skin. Wear a hat in the sun. To summarize on desert travel in the summer: Take plenty of water—a shovel—survival knife—matches—magnifying glass—snake bite kit (snakes are out at night)—and maps.

You can get the latest Geodetic Survey maps at the Book Corral—319 Haloid St., Ridgecrest, and a master map showing what maps you want.

I don't spend all my recreational time in the desert. I like the forest, too, for a change. The forest is soothing—the desert is a stimulating challenge.

TRY THE MOUNTAINS IN SUMMER

Why don't you folks at NOTS, China Lake visit the nearby Sierra in the summer—places you can't get to in the winter on account of the deep snow. For example—the Kern County Greenhorn Camp ground above Kernville is a perfect place. 6000 ft. elevation—concrete stoves and tables—plenty of water—dead limbs you can drag down the mountain for a campfire. A paved road most of the way. And a store.

From there you can go down a canyon where the trees are so thick in places—there isn't room for any more trees to grow.

And many more places I'll tell you about later. I'm always amazed at what a difference in temperature a little altitude makes. For instance a thousand yards on the level isn't much—a little over a half mile—about the distance that four telephone poles are apart. And the shade of the forest and a mountain creek make for coolness.

RIM SHOTS

By BILL VALENTEEN



Better than 600 kids are playing in some form of organized baseball around the Indian Wells Valley. Sometimes, it's a shame that there are so many playing, simply because of the impossible task of trying to enjoy all of it from a spectator's point-of-view and to get anything else done, besides.

I get a kick out of some of my friends who approach me with something like "Why don't you put something in the paper about Little League?"

The feeling is, generally, that with a bit more publicity, more people would come out to see the kids play. The kids would still play the game if no one came out to watch them.

T-BALL AND FARM LEAGUES

If you stop and consider the extent of this kind of activity in the valley, it should not be difficult to understand why more people find it impossible to attend. First of all you've got the T-ball league. The kids play in this league every night and games start awful early. Then there's the Farm League. The schedule in this circuit looks very much as full as all of the others.

LITTLE LEAGUE HAS FULL SCHEDULE

Then we have Little League, which is the largest of all the organizations and is divided into two age groups which are noted as the Major League and the Minor League. Each of these leagues play two games each per night. In addition to the Little League activities here on the Station, similar activity can be found on at least two baseball diamonds in the Ridgecrest area.

PONY AND COLT LEAGUES

Next, there is the Pony League. This group plays two games each evening at Snackenburg Field and they've got a mighty spirited bunch of ball players. At Schoeffel Field, you can also catch a Colt League game each evening.

Besides all of this activity, the Beer Hut diamond is the scene of some of the most fascinating softball games ever to come down the pike. This activity is interrupted occasionally with even more fascinating softball, an All-Star game.

PROBLEM TO FIND TIME TO ATTEND

Now, when you consider that the average individual has his regular job to be responsible for, and perhaps he belongs to one of the 300 service clubs and organizations in the valley (that all meet at night incidentally). He also has to spend some time with his wife and kiddies.

You've got to admit that squeezing in just one game of baseball, just one night a week, gets to be one heck of an organizational problem. And even if you could find the time to attend, which game would you choose?

DODGERS LEAD GIANTS

Something else, at this writing, the Dodgers are four games in front of the Giants in the Big, Big Leagues and I've got a feeling that interest in the game of baseball is going to get more intense much before it gets tiresome and "old hat."

DESERVE PRAISE

May I say, however, that the grown-ups and kids that are responsible for the tremendous effort required to run just one of the aforementioned programs should not be sorry because their games are not being better attended.

The work that you are doing, and the time that you put into such work is very much appreciated by all even though they cannot participate as well as they'd like to, as evidenced by the fact that the program exists at all.

So, keep a stout heart, all ye who sharpen your spikes for the next evening's outing. We're with you in spirit, at least! And keep smilin', Sport! See you next week!

Weapon's Nine vs. Engineering Tonight

Duane Goff's Weapons Development Dept. team has challenged Grant Gorman's Engineering Dept. nine to a "grudge softball match" tonight at 7:30 on the Beer Hut diamond.

An innovation of having girls for base and outfield umpires should add entertainment for the softball buffs. Crissy Williams, Marguerite Young, Mary Ann Michel, Lillian Flew, and a "dark horse" yet to be named, will serve as umpires.

A public address system has been obtained for the game which will keep the fans informed on each play.

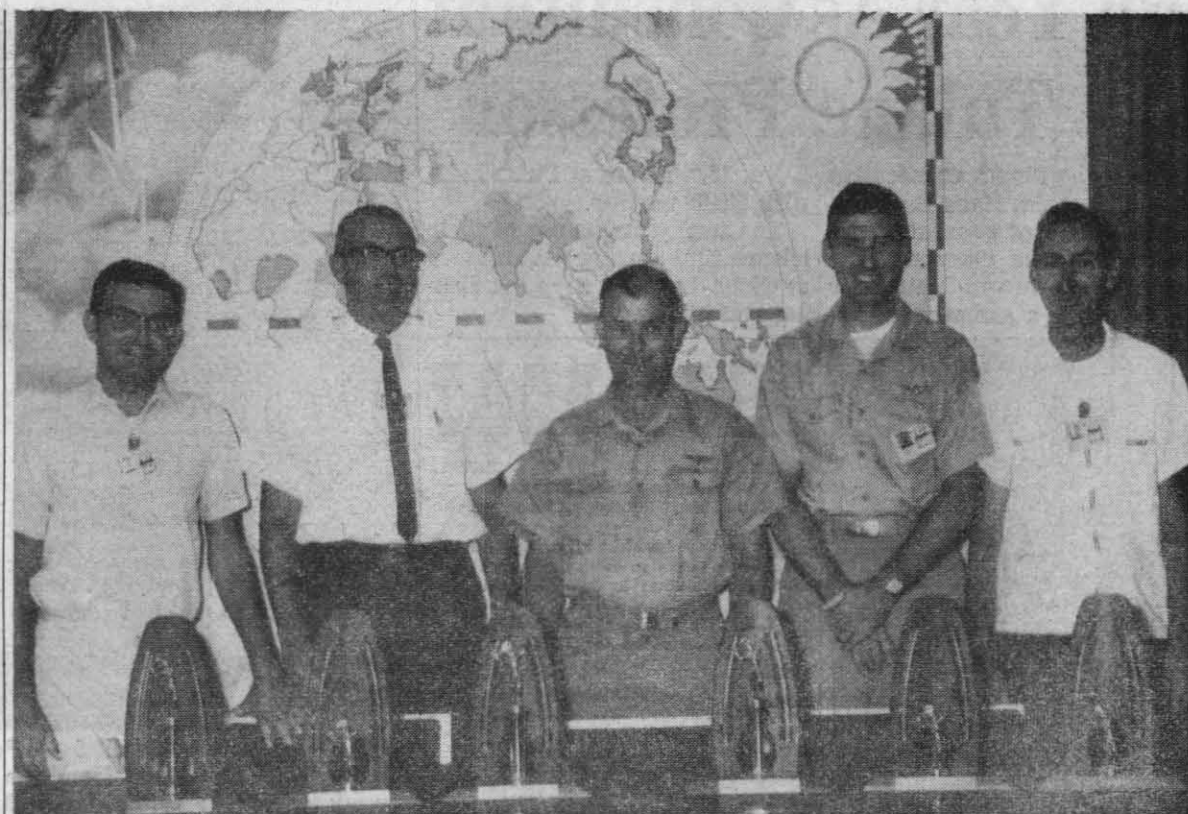
Old time "Rocket Team" players Frank Sima, Gus Mead, Eddie Weiser, Bobby Kochman, Howard Grant, Leonard Barke-meyer, and Dave Newman will be in action for the Engineering nine.

Pony League Ends First Half-Season

The Indians ended a first half-season of play in Pony League baseball as champs with a 7-3 record, with the Reds and Tigers tied for second place.

The Cubs were in third slot with the Yanks and Cards tied for fourth. With more than 35 innings played, the top 10 batters in the League are:

Table with 3 columns: Player Name, Team, and Statistics. Includes names like Campbell, Smith, Smith, Baxter, Read, Martin, Baumann, Calladay, Roth, Weber, Ward.



TENNIS CHAMPS—NOTS racquetees who made a clean sweep of the China Lake Tennis Club championship tournament receive their trophies from Capt. Blenman (center). Winners (l-r) are Gene LaMarca, Don Beresford, Cdr. Stan Abele, and Gerry Whitnack.

Little League Tournament Playoff Slated Thursday

The China Lake Little League will host the California District 51, Area 2, Little League Tournament, here on July 18, 19 and 20.

The play off here will determine the team which will represent Area 2 in District 51 competition at Lancaster on July 25, 26, and 27.

Area 2 teams include Boron, Edwards, Ridgecrest-Inyokern, and the host league, China Lake.

China Lake will play Boron on July 18 while Ridgecrest-Inyokern will face Edwards on July 19. On July 20 two games played to determine the consolation winner which will be followed by the top teams in a play off for the Area 2 championship.

Farm, T-Ball League

(Games Start at 6 p.m.) Monday July 15 Angels-Mounties (F) (Dia. 1) Senators-Buccaneers (T) (Dia. 2)

Tuesday July 16 Padres-Cubs (F) (Dia. 1) Orioles-Lions (T) (Dia. 2)

Wednesday July 17 Mounties-Reds (F) (Dia. 1) Buccaneers-Terriers (T) (Dia. 2)

Thursday July 18 China Lake League Hosts Area Tournament

Minor League

(Games Start at 8 p.m.) Monday July 15 Braves-Athletics (Dia. 1) Cardinals-White Sox (Dia. 2)

Tuesday July 16 Cardinals-Indians (Dia. 1) Eagles-Athletics (Dia. 2)

Thursday July 18 China Lake Little League Host Area Tournament

Softball Standings

Table with 3 columns: Team, Won, Lost. Includes Merchants, NAF, Staff, Public Works, NOTS, VX-5.

NOTS Nine Drops 11 Inning Game to Prison Team, 5-4

The LCdr. "Mike" Miner coached NOTS military team dropped a heart breaking 11 inning game 5-4 to the prison nine at Tehachapi last weekend.

Saturday night, the Barstow Marine Corps Supply Center team downed the Public Works ball club by a score of 7-3 here.

Public Works employees earned the plaudits of the local players by getting the diamond in shape for the game. Employees who worked all day Saturday on the diamond were Pete Zamarrro, Curt Logan, Frank and Manuel Amprano, Don and John Padgett, Bob Hooper, and Don Danford.

Tomorrow night the Kernville Merchants meet the NOTS military nine on the Beer Hut Diamond at 7 p.m.

On Saturday night, July 20, the Bishop ball club will play the Ridgecrest Merchants here.

Major League

Table with 3 columns: Team, Won, Lost. Includes Red Sox-Pirates, Dodgers-Yankees, Tigers-Yankees, Red Sox-Giants.



PONY LEAGUE CHAMPS for the first half-season of play, the Indians, are (front row, l-to-r) Don Peters, Richard Phillips, Dave Baxter, Mike Baxter, Dene Smith, Terry Ivory, Danny Mangopit and Manager Tom Baxter. (Second row, l-to-r) Bill Bassett, Richard Castleman, Danny Fuller, Mike Sorge, Lonnie Miller, Dale Dowd, John Lager and Coach Chief Mangopit. The Indians won seven out of ten games played.

The Rocketeer Official Weekly Publication of the U. S. Naval Ordnance Test Station China Lake, California. Captain Charles Blenman, Jr., USN Station Commander.

DIVINE SERVICES Christian Science (Chapel Annex) Morning Services—11 a.m. Sunday School—11 a.m. Protestants (All Faith Chapel) Morning Worship—8:30 a.m. and 11 a.m. Sunday School—9:30 a.m., Groves and Richmond elementary schools.



# NOTS Pasadena News

Virginia E. Lane — Ext. 481

## Distaffer Named President Of VFW Auxiliary Post

Madam President will be term of address to Mrs. Mary L. Harrison tonight as she presides over the monthly meeting of the Private Alex Berger Auxiliary Post 1013, Veterans of Foreign Wars.



Mary L. Harrison

Mary, clerk-typist in Administration Division, was installed as President on May 3. She previously held positions as Senior Vice President from 1959 to 1961 and as Color Bearer from 1961 to 1962.

Her husband, Bob, presently serves as Senior Vice President and as a Past Commander of the Post located at 830 South Hicks Avenue in Los Angeles.

The Harrisons are now making plans to attend the Golden Anniversary of the National Auxiliary to be held in Seattle, Washington in August. Local Auxiliary 1013 was established in 1937 in Los Angeles.

Originally from Taunton, Massachusetts, the Harrisons came to California in 1955, lived in Montebello for two years, and since 1957 have resided in Azusa. Their son, Bobby, will enter the first year of high school in the Fall.

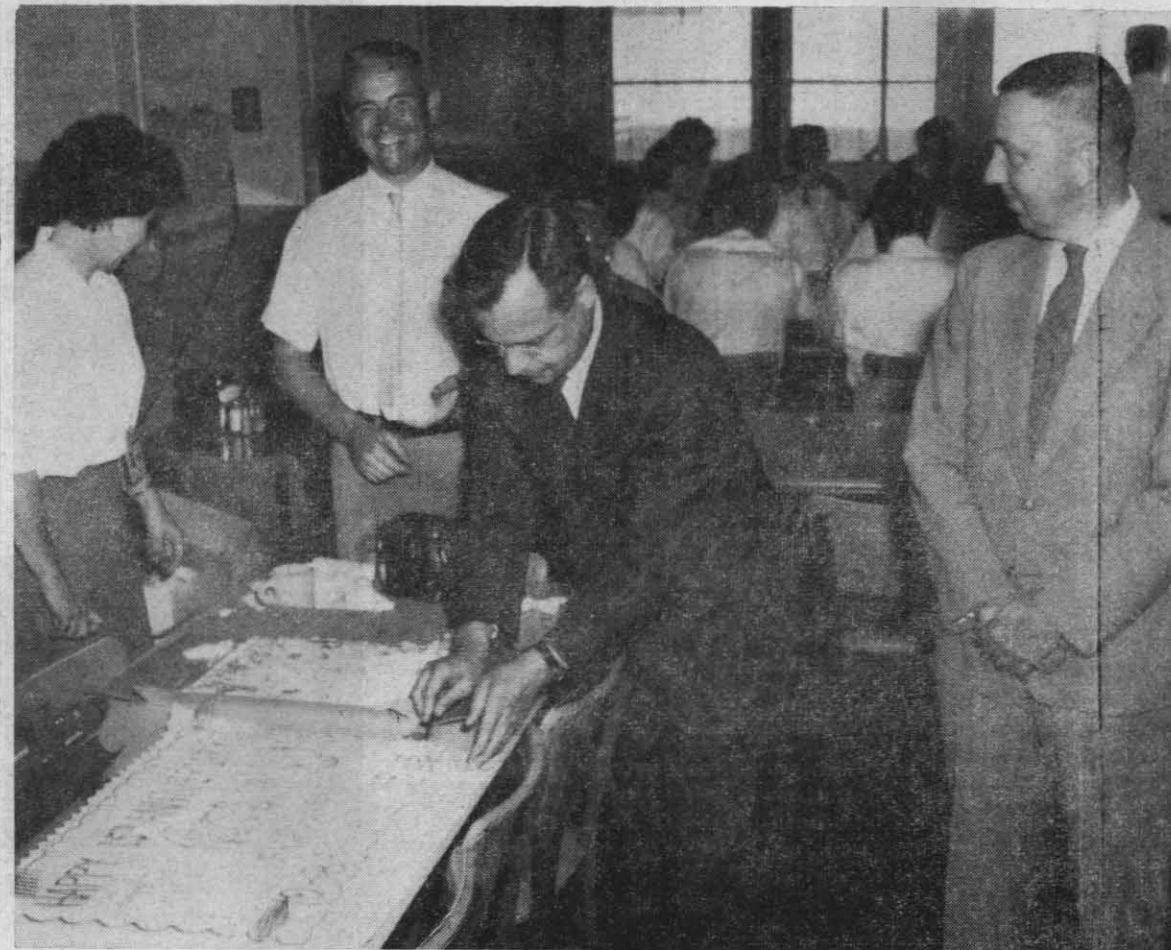
Mary has been with NOTS Pasadena for five years.

## Thirty-Year Pin



LEO BRENNAN of Public Works smiles happily as lapel emblem denoting 30 years of federal service is pinned on by Cdr. J. A. McAllister, Assistant Public Works Officer, China Lake.

## Pasadenans Celebrate Birthday



15TH ANNIVERSARY—Celebrating the 15th anniversary of conversion from General Tire and Rubber Company to Civil Service for 430 employees on July 1, the first piece of cake is cut by D. J. Wilcox, Head of Underwater Ordnance Department. "Carving" instructions are furnished by W. E. Hicks (left), Associate Department Head, and John J. O'Brien, Officer in Charge at NOTS Pasadena during 1956-1958. Decorations on the huge cake read "Happy 15th Anniversary NOTS Pasadena 1948-1963."

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## Pins for Service, Awards Presented

Four employees this week received honors at Pasadena—one for completion of thirty years federal service, two for twenty years service, and one for Outstanding Performance and Superior Accomplishment.

### 30-Year Pin

Leo Brennan, Head of the Maintenance Control Division, Public Works, received the coveted lapel emblem from Cdr. J. A. McAllister, Assistant Public Works Officers, China Lake, here for the occasion.

Leo, with NOTS for 14 years, is originally from Vallejo. His previous government service was with the Mare Island Naval Shipyard.

Leo and his wife, Luwaine, have been residents of Monrovia since 1949.

### 20-Year Pins

Receiving 20-year pins were Lillian Peterson and Pauline M. Richards, both with Central Staff's General Accounting Liaison Office.

Lillian has been with NOTS ten years, previously serving with Patterson Air Force Base in Ohio and the Federal Housing Administration.

She and her husband, Carl, reside in Altadena. Their son, Thomas, is a Captain in the Air Force stationed in Okinawa. They have two granddaughters.

Pauline, with NOTS 17 years, heads the General Accounting Liaison Office. She was at China Lake for two years before transferring to Pasadena.

Other federal service has been with the Air Force. She resides in Pasadena.

### Double Award

Irene Brown, recipient of an Outstanding Performance Rating and a Superior Accomplishment Award, is the Time and Leave Supervisor in Central Staff's

## Superior Accomplishment



DOUBLE AWARDS of Outstanding and Superior Accomplishment are presented to Irene Brown of the Cost and Analysis Office, Central Staff. Jack Petroff makes the presentation.

## Long Beach

### Ships to Host General Visiting

The following ships will host general visiting in the Long Beach area during the month of July from 1-4 p.m.:

13-14 — Landing Ship (Dock) USS Belle Grove (LSD 2).

20-21 MINDIV 73.

27-28 — Destroyer USS A. J. Isbell (DD 869).

### Cost and Analysis Liaison Office.

She has been with NOTS for 15 years — four at China Lake and the past 11 at Pasadena. She and her husband, Walter, reside in Arcadia.

## Personnel Statistics

### New Employees

Public Works — Olga A. Neumann, Clerk Steno.

Supply — Kirk Dyer, Contract Assistant.

UOD — John P. Bott, General Engineer; Alan M. Nakashima, General Engineer; Edward R. John, General Engineer; Robert G. Thompson, General Engineer; David A. Elkins, Mathematician; Susan de F. Hills, Administrative Management Intern; Frank Johns, Apprentice Machinist; Jeffery R. Olmstead, Physicist; Mark A. Ruzszycky, Mechanical Engineer; John A. Mayr, Physicist.

## Texas Naval Officer Commands NOTS Unit

LCdr. Lewis Brandon Shults has reported aboard to take over duties as Commanding Officer, NOTS Enlisted Personnel.

He replaces LCdr. P. F. Mohr, now Head, Command Administration, succeeding Cdr. C. W. Heck who retired.

LCdr. Shults, of Brownsville,



LCdr. Lewis B. Shults

Texas comes to China Lake from Staff, CincPacFlt, Pearl Harbor, where he was assistant personnel Fleet Readiness and Training Officer, and Training Officer for POCOM military assistance program countries.

Prior to that duty he was aide and flag secretary for Commander, Naval Forces in Korea, headquartered in Seoul. LCdr. Shults served there from Aug., 1959 to May, 1960.

In the service since Oct., 1935, when he enlisted as an apprentice seaman, LCdr. Shults was commissioned in Oct., 1948. He attended enlisted classification school and amphibious warfare indoctrination.

His military decorations include American Defense, Asiatic-Pacific (3 stars), American Theater, WWII Victory, China Service, Asia-Europe occupation, National Security, Philippine Liberation (one star) and the Philippine Presidential Unit Citation.

LCdr. Shults holds an AA degree from Texas Southmost College in Brownsville.

He is married to the former Lucia Asbury. They have three children, Roy, 15; Lucia, 12, and Brandon, 2.



FIFTEEN YEARS of safety for pair of NOTS employees, both attached to Public Works, was recognized this week by Station Commander during brief ceremony in his office. Fred C. McMillen (left of Capt. Blenman) and Frederick S. Mills (right), were presented

safety certificates. Supervisors of both men, Lyle McLaren (far left) and Jim Greenfield (right) witnessed presentation. Awards were issued by Station's Safety Department head, Kit Scaar. Certificates were signed by Fred Korth, SecNav.

## AOD Branch Equips T-39 With Infra-red Gear

The Radiometry Branch, Code 3521 of the Aviation Ordnance Dept., has launched its most ambitious infrared-radiation measurement project to date.

An Air Force T-39 aircraft has been instrumented with special equipment to make aerial radiometric measurements and infrared-tracking studies.

It will operate in conjunction with Code 3521 activities on a continuing basis.

The T-39, built by North American Aviation, Inc., is a small swept-wing, twin-jet, utility trainer.

In addition to a crew of two, the T-39 can carry four passengers in its pressurized, air-conditioned cabin. Two of the passenger seats have been removed to

allow space for the special equipment and operators.

### Team Effort

This project is truly a team effort. In addition to NOTS personnel, the project has active participants from Navy and Air Force military groups and from several different contractors.

Lt. William Guyton of Wright Patterson AFB is the Air Force Project Engineer.

Capt. H. J. Royer of Wright Patterson AFB is the pilot permanently assigned to the project. Missions have also been flown by Capt. B. L. Langley, H. D. Colwick, and L. D. McClain of Wright Patterson AFB.

### Arriola Coordinator

William Arriola of Code 3521 is responsible for the coordina-

tion of the complex flight schedules of the many types of aircrafts involved in the present phase of the measurement operation.

Arriola also designed and supervised the construction of the infrared-tracking equipment used on this project. In addition he supervised the installation of the tracking equipment on a specially-designed mount in the T-39.

The mount was designed by John Creclius of Code 3521.

### Modified

The escape hatch of the T-39 was modified to include a quartz window through which the infrared-tracking equipment can "see" the targets. Jim Mills, a Code 3521 engineer, designed

and supervised the construction of the modified door.

During the month of June, the modified T-39, with the infrared-tracking equipment installed in front of the quartz window, was flown to make infrared-tracking studies of various Navy, Marine, and Air Force aircraft.

### Tracking Operators

In flight, the tracking equipment was operated by Joe Shannon, a Navy enlisted man MT-2, and Louis Hockman, a contract employee.

The flight took place over Pt. Mugu, Edwards, Oxnard AFB, and China Lake. This extremely complex operation could not have succeeded without the cooperation and help of many personnel at these bases.

### Future Modification

At present, another door modification is being made. A 15 in. turret will be installed in this door. The turret will be equipped with a 5-in. diameter synthetic sapphire window.

A special miniaturized radiometer designed by Wayne Claunch of Code 3521 will be mounted in this window.

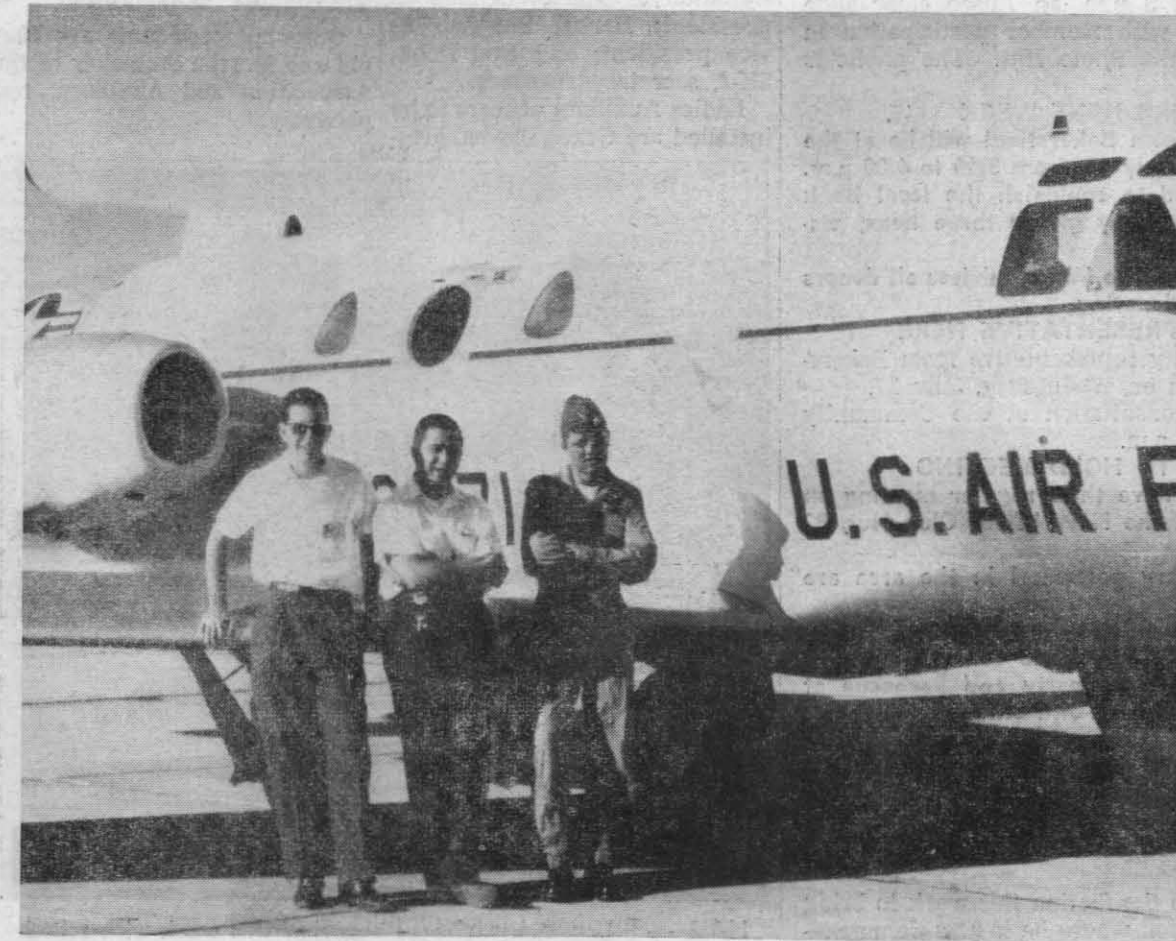
From this platform, air-to-air infrared radiation measurements can be made of a variety of "targets."

The speed and performance of the twin-jet T-39 provides Code 3521 with the capability of making measurements of high-performance targets with a high degree of efficiency and reliability.

## Twenty-Year Pin



CONGRATULATIONS go to Lillian Peterson (left) and Pauline M. Richards on completing 20 years of federal service. Both are in Central Staff's General Accounting Liaison Office.



INFRARED EQUIPPED T-39—Joe Shannon, MT-3, Bill Arriola, and pilot Capt. L. D. McClain, USAF, pose in front of the T-39 aircraft which was outfitted with infrared measurement equipment by Code 3521 in a joint Navy-Air Force project.



OPERATES EQUIPMENT—Joe Shannon, MT-2, is operating Radiometry Branch-developed infrared tracking equipment in the T-39 during test flights here.



# Civil Defense Exercise Planned Sat.

A communication exercise, aimed at testing the effectiveness of coordination between the various divisions of the Indian Wells Valley Civil Defense organization will be held Saturday, starting at 10 a.m. and continuing for approximately 1 1/2 hours.

The imaginary condition around which the drill is based is two hours after a nuclear burst on Vandenberg Air Force Base.

Since this is a staff exercise, there will be no actual communications to the general public. Instead, communications — primarily by means of radio — will be established between civil defense headquarters and the five operating divisions of the local CD organization.

Headquarters for the exercise will be located in the basement of wing No. 2 of Michelson Laboratory, where H. G. Wilson, civil defense coordinator, and members of the Indian Wells Valley Civil Defense Advisory Council will assemble.

**CAP To Operate Radios**

The headquarters message center will be staffed and operated by members of the Civil Air Patrol who are versed in this work, and there will be a team of CAP radio men at the Hatton-Carlson mine, located just west of the junction of Highway 6 and 395, which has been designated a community fallout shelter for residents of the Inyokern area.

All other radios used during the communication exercise will be operated by various civil defense divisions that will be involved in the training activity. These include the fire, police, transportation and medical divisions, as well as the atomic, biological and chemical warfare (A-BC) division.

Kit Skaar, head of the ABC division,

## Bakersfield College To Establish Choir

A college choir, open to all interested residents of the Indian Wells Valley community, will be established at the China Lake Division of Bakersfield College this fall.

The choir will meet on Wednesdays from 6:30 to 9:30 p.m., beginning Sept. 4, and may be taken by those without previous choral experience.

### College Credit Given

One unit of college credit will be given for participation, Omar H. Scheidt, dean of the local division of Bakersfield College, said.

A wide variety of choral literature will be studied during the semester, and the college plans to present a concert featuring the choir.

Two other music courses will be offered — public school music and class piano.

### Other Music Courses

The public school music class, Music 9, stresses development of basic skills and fundamentals necessary to the teaching of music in the elementary school. Emphasis is on musicianship, voice development, singing and conducting appropriate to the needs of the elementary school.

One semester of piano is recommended as a prerequisite to the course, which will meet Tuesdays and Thursdays from 6:30 to 7:53 p.m.

The course in class piano, Music 5A, is open to all students beginning the study of piano and is recommended for elementary teaching majors. It is to be given on Tuesdays from 5:30 to 6:23 p.m., beginning Sept. 3.

vision, will direct the activities of radiological fallout detection teams from the civil defense headquarters in the basement of Michelson Laboratory.

**Other Headquarters**

Other division heads will be at their division headquarters, which will be at the civil defense emergency hospital site in the Salt Wells area for Cmdr. R. B. Speaker, head of the medical division; at fire station No. 1 on the Naval Station for James A. Davis, head of the fire and rescue division; at the Naval Station main gate for Howard Bodwell, head of the police division; and at the public works compound for Thomas W. Boyd, head of the transportation division. The civil defense communication

division, headed jointly by George Sutherland and Henry Wair, will coordinate the work of providing the necessary communication links between the civil defense headquarters and the various operating divisions.

Early this week, members of the Indian Wells Valley Civil Defense Advisory Board and heads of the CD division were notified of the simulated situation that will form the framework for the communication exercise.

**Messages Prepared**

Each of the division heads and members of the advisory council who are responsible for certain phases of local civil defense operations will receive "canned" messages in sealed envelopes marked with the time on Saturday that they are to be opened after the exercise has started.

The message related to realistic events, and will call for supplying the answers needed at headquarters on the status of simulated operations being carried out by the different civil defense divisions.

The matter of communications between the various operating divisions during the drill will be left up to the discretion and desires of the individual division heads. The number of "canned" messages prepared in advance by planners of the civil defense communication drill will be held to a minimum in order to allow each division to prepare messages related to its own participation in the exercise.

To avoid misunderstanding or interference with normal traffic being handled by the radio networks that will be in operation for the civil defense exercise, all messages will be prefaced and followed by the phrase, "This is a civil defense exercise message."

In addition to Wilson, the civil defense coordinator, and the heads of the civil defense divisions, members of the Indian Wells Valley Civil Defense Advisory Board who also will take part in the drill are John L. Cox, J. Elliott Fox, James A. Marsh, Harold F. Metcalf, Mrs. Carolyn Lindberg, Don Rogers and Burke West.



**SERVICE AWARDS** earned by NOTS employees attached to Propulsion Development Department were presented last week, recognizing 25-year periods of Federal service. (Front row, l-to-r) Donald G. Giberson, James Blackwell, Goodloe G. Dustman, Dr. G. W. "Bill" Leonard, who presented awards,

Armin I. Wiebke and John H. Hieber. (Second row, l-to-r) George W. Schoor, Hubert M. Ross, Jr., Art F. Pfeifer, Albert D. Tedrick, Monroe E. Trimble, Jack R. Warren, Thomas C. Short and B. Arthur Breslow.

## Community News

### CHINA LAKE PHOTO CLUB PROGRAMS

The Elder H. Bartels will show color slides of their recent trip to South America on Tuesday, July 16 at 8 p.m. in the Community Center.

On Wednesday, July 17 at 8 p.m. an Anso color slide program, "Judge the Judges," with member participation in the judging, will be shown at the Photo Hut. The public is invited to attend.

### BLOOD BANK HERE NEXT WEEK

The Houchin Blood Bank from Bakersfield will be at the Elks Lodge Hall on Wednesday, July 17, from 3:00 to 6:00 p.m. Donors are urgently needed to replenish the local Bank which has been depleted recently by giving three heart victims needed blood.

Local blood bank chairman, Willie Miller, advises all donors not to eat for four hours before donating.

### SOCIAL SECURITY REPRESENTATIVE HERE

Clay McMikle, Social Security representative from Bakersfield, will be aboard the Station on Wednesday, July 17. He will be available for consultation at the Community Center from 8:30 a.m. to 11:30 a.m.

### NAVY WIVES CLUB TO HOLD MEETING

The Navy Wives Club will have their regular meeting on Monday, July 15 at 7:30 p.m. at the Navy Wives Club Hut, 83 Halsey Ave.

Wives of all enlisted Military personnel in the area are invited and urged to come.

New arrivals on the Station will receive invitations but we hope those who have been here for a while will join us also.

We are planning a family swim party and barbecue at NAF pool. Come help us plan for this and other social events to come.

### FAREWELL PARTY FOR HOLMQUIST'S & CLARK'S

A farewell party for Capt. C. O. Holmquist, former Technical Officer, and Lt. Col. L. E. Clark, Air Force Liaison Officer, was held at the Commissioned Officers' Mess last Wednesday evening.

Capt. Holmquist returned to the Station this week to bring his family back to Port Washington where he is now Commanding Officer of the U. S. Naval Training Device Center.

Lt. Col. Clark has received orders to report to Griffiss Air Force Base, Rome, N. Y., at the end of this month. Col. Clark will be ending a three year tour of duty here when he departs.

## Fleet Reserve Assn. To Install Officers

A joint installation of officers of the Fleet Reserve Association and the Ladies Auxiliary will be held tonight at the VFW Hall, 117 Alford St., Ridgecrest.

The event will mark the installation of Tim McLendon as president; Harold Simpson as vice president; and Don Dobb, SK-2, secretary-treasurer.

Ladies Auxiliary officers to be installed are Grace Driver, president; Shirley Schneider, vice president; Phalba Hatzenbuehler, secretary; and Dorothy Strands, treasurer.

Installing officer will be Terry Driver, Chaplain R. C. Fenning will conduct the Invocation.

Outgoing presidents are Harold and Martha Stalaker of the Association and Auxiliary, respectively.



**HAIL — FARWELL** exchange occurred this week with scheduled departure of Cdr. Ken Williams, legal officer for new duties at Headquarters, 12th Naval District. Newly reporting local legal officer, Cdr. Harold E. Byrd (left) joins NOTS command from duties with the Naval Receiving Station at Treasure Island.

## Hail 'Miss Little League'



"OLD GLORY" never flew more proudly than over the Little League park at China Lake on Independence Day. And, though there were no brass bands or patriotic speeches, the day was as American as peanuts and soda pop could make it.



**THRONGS OF** parents and youngsters too young to play Little League cheered favorite teams to victory during the early evening last Thursday. It was a day for leisure,

except for those fathers who manage or coach teams. Sponsor certificates were awarded during program of events, followed by "Miss Little League" coronation ceremony.

**NEW QUEEN** of China Lake Little Leaguers, Diane Boyack, beams as retiring queen Rita Payne places crown on her head. The selection of a new queen and her coronation was the final event under lights at Little League diamond. A brilliant display of fireworks rang down the curtain on Independence Day here. Observing crowning of queen (l-r) are Jo Ellen Cox, Delite Braspeninckx, and Terry Andreasen.

## July Fourth A Smash Hit Here

You had your day, Little Leaguers. And what a day it was!

Exhibition ball games, presentation ceremonies on the pitcher's mound, a queen coronation . . . topped off with a brilliant display of fireworks that rang down the curtain on Independence Day 1963 at China Lake.

These were the main elements in the day. But, some of the more important qualities couldn't be put into the program. Such as the smell of soda pop and peanuts. And, the shouts of jubilation as your team scored another run.

Aside from the flag-raising that started the annual program, the significance of the celebration was hardly mentioned. Maybe it wasn't necessary.

This was America, and its patriots, celebrating their country's birthday in true American fashion. This was the Fourth of July!

## — San Bernardino Visitors —



**NAVY LEAGUERS** from San Bernardino, together with wives, arrived on Station Wednesday afternoon for overnight stay and tour of Station facilities Thursday. The group was feted to a reception Wednesday evening, and departed Station Thursday following extensive visit to Station's facilities.



**SAN BERNARDINO SCIENCE STUDENTS** toured Station as Navy Guests last week, learning of the work being performed by NOTS. Weather Modification, Digital Computer programs, and tour of Michelson Laboratory were included in visitor's stay here.