Answer to Previous Puzzle CROSSWORD PUZZLE 6-Iron 11-Cutting reply 13-Stew measure 21-Diving bird 22-Totals 24-Ox of Celebes 26-Agreement 28-Openwork fabric -Rip -Lampreys 43-Tolled 44-Saint (abbr.) 46-Preposition 48-Web-footed birds 69-Peer Gynt's 29-Make 55-Printer's méasure nickname 67-Poem DOWN 1-Anglo-Saxon

Day Nursery, Child Care Center in Co-op Confab

A clarification of local poli-meeting held this week with of cies affecting the operation of ficials of the Command present the China Lake Day Nursery and he commented.

of our facilities can provide es- 10 years of age. sential services to the commuident of the Day Nursery.

standing concerning the operating policies of both the facilities were eliminated during a fifteen per cent discount.

the Navy Exchange Child Care | The Day Nursery, located on Center was issued this week fol-lowing a joint meeting of the lowing a joint meeting of those will lower rates for daily child

eligibilities of children beyond are to be announced within the ray School. infancy, registered at the Navy next few weeks, a child may be Teacher and student-teacher-Exchange Child Care Center registered at the Day Nursery aid positions are available in the for child care from 7:00 a.m. to program which will run from "There is an atmosphere of 5:00 p.m. daily for \$60.00 a July 8, 1963 to August 9, 1963.

Discounts of ten percent will Mr. Grant Pinney, Assistant Sunity," said John A. Donnan, pres-be extended to families register-Several areas of misunder- ing two children in the Day Nur- 1, 1963.



MORE FASHIONS IN THE FUTURE-Theresa Valenteen, Alene Morgan and Mona Johnston (left to right) give us a preview of some of the latest styles to be modeled at the WACOM Spring event, "Bonus in Fashion," at the Officers Club, March 30.

"RUSSIA AND ITS PEOPLE"

7:30 p.m. Traveloque filmed and narrated in perso by Raphael Green on Russian people at work at play, and on collective farms. A must fo life is like in the Soviet Union. MAR. 16

-MATINEE-"ANGRY RED PLANET" Gerald Mohr 1 p.m. (out at 2.43 p.m.) SHORT: "Swallow the Leader" (7 Min.) "Zombies No. 10" (13 Min.)

-EVENING-"SAIL A CROOKED SHIP" Robert Wagner, Dolores Hart, Ernie Kovacs

7 p.m. ,out at 8:45) Ambitious employee reverse boss's order to scrap an old ship and instead calls a company to refit it. Safecracker a swers call and plans use of ship as ban day of sheer nonsensical fun. (Family SHORT: "Bunnies Abundant" (7 Min.) "Hip Shooters" (10 Min.)

MAR. 17-18 "PERIOD OF ADJUSTMENT" Tony Franciosa, Jane Fonda

7 p.m. (out at 9 p.m.) (Comedy) Tennessee William's laugh-fes bout newlyweds who take honeymoon in hearse and visit a war budy who has marite SHORT: "Fast Buck Duck" (7 Min.) rouble of his own. It's a wow!

TUES.-WED. MAR. 19-20 "TWO FOR THE SEESAW" Robert Mitchum, Shirley MacClaine 7 p.m. (out at 8:59)

No synopsis available MAR. 21-22 "SWORDSMEN OF SIENA"

Stewart Granger, Sylvia Koscina 7 p.m. (out at 8:54) (Action in color) Dashing professiona ordsman is hired as bodyguard to the Governor's betrothed lady but he shifts alnce to the underground in this swashbuckling tale of intrigue and blazing ad-

SHORT: "Mexican Cat Dance" (7 Min.) COMING ATTRACTIONS Mar. 23-"FOLLOW THAT DREAM" MAR. 24-25-"A COMING OUT PARTY" MAR 26-27-"BUTTERFIELD '8' '

Summer School **Applications**

Applications for employment two facilities with Command of care, effective April 1, Donann in the China Lake Elementary School Program are available in Restrictions concerning age Under the new policies, which the school district office at Mur-

joint cooperation in which both month. Children must be 2½ to The deadline for the return of the application to the office of

Application forms have been distributed to all China Lake Schools and Burroughs High School. Applicants may pick up a form at any one of the schools.

The China Lake Summer Program includes academic and recreational courses. Children eligible for grade one in the fall of 1963 will be eligible for the program. The program includes all elementary grades with depart-

Retirement Fund

soon will ask Congress to approve The nationally known speaker whose last names begin with A ernment contributions to the Civ- munity Church and will address salad for 6 to 8 people. Those which provides retirement and survivorship benefits for most to which everyone is invited.

agenda of speaking engagements bring desserts for 6 to 8 people. All should bring their table servwhich provides retirement and federal employees.

ute 6.5 per cent of their base pay to the retirement fund. Agencies contribute a matching 6.5 per cent from their own appropriations.

This agency contribution, however, is less than the amount government has pledged to maintain the financial stability of the fund. The result is that its "deficit" - as computed by actuaries — is increasing at the rate of roughly \$1 billion per year.

Past approaches to the problem have varied.



GET TENDERFOOT PINS-It's a memorable moment for Scouts Danny Finstad, Jack Leslie and Eddie Kile (I to r) as they stand before candle-lighted symbol of the Scout oath and are awarded their Tenderfoot pins at Troop 414 ceremonies at Murray School.

Community News

PHOTO SOCIETY MEETS IN NEW QUARTERS

The March 20th meeting of the China Lake Photographic Society will be in the new quarters at 361 McIntire St. at 8:00 Members and friends who have 35mm color slides of Death Valley are being asked to bring them. From these slides a show is to be assembled and offered for showing to member clubs in the Photographic Society of America. This club project may tour the country. The club now has a slide show on wildflowers of the Mojave Desert being shown to many P.S.A. clubs as far off as Florida.

RED CROSS BOARD MEETING MONDAY The next board meeting of the American Red Cross will be held Monday, March 18, at 7:30 p.m. in Room B of the Community Center.

CLUB AND ORGANIZATIONAL LISTING INFO Local groups interested in being included in the revised edition of the Club and Organizational Listing issued by the Community Relations Office are asked to send a current listing of officers, meeting times, places, mailing addresses and local contact points, to Code 1131 before April 15.

WESTERN DANCE AT COMMUNITY CENTER Starting the Spring Dance Program for Adults off with a bang will be Wayne Paisano and the Sundowners. Dust off your dancing boots and break out your plaid shirt for this evening of western fun at the Community Center, Friday, March 22, from 9 p.m. to 1 a.m. For reservations of eight or more please call 7-2010.

ST. ANNE'S ALTAR SOCIETY FASHION SHOW

A pre-Easter Fashion Show luncheon, sponsored by the St. Anne's Altar Society, is scheduled for March 31 at 1 p.m. in the East Wing Chapel. All mothers of teenaged daughters are especially urged to attend to see some 25 ladies and teen models show Easter frocks, patio wear, beach wear and late-day apparel. Tickets are available from general chairman Mrs. B. Arthur Breslow, co-chairman Mrs. Leroy Doig or ticket chairman-Mrs. F. R. Phillips.

INTERVIEWERS NEEDED BY NAVY RELIEF SOCIETY

The Navy Relief Society is in need of experienced interviewers. Anyone who has worked in this field or who is interested in taking an interviewer's training course, please contact Rhea Blenman on Ext. 72200; Maureen Davidson, 72838, or Chaplain Fenning, 72247

mentalized instruction above the Community Church Hosts Rev. Collins third grade level. The Rev. Dean C. Collins, ex-mond School Cafetorium, Rev.

ecutive secretary of the Amer- Collins will discuss his tour of ican Bible Society, will pay his Alaska and will show slides of eighth visit to China Lake on our 49th state. The Kenendy Administration the weekend of March 23-24. Families attending the potluck

a new method of financing gov- will be the guest of the Com- through L are asked to bring a il Service Retirement System, both adults and youth in a full from M through Z are asked to

On Saturday, March 23, at a 6 ice and beverage for their chil-At present, employees contrib-p.m. potluck dinner in the Rich-dren.

> PLACE STAMP HERE

Pilot, Crewman Uninjured in Crash-Landing

OMAR KHAYYAM TO BRAHMS . . . CRAZY, MAN!

(See Page 3)



FIRST TWINS OF THE YEAR

BORN AT STATION HOSPITAI

Boy and Girl

They ran up the double-diaper flag over the Station Hospital last Saturday. And at 307 Cisco, too, in the Wherry area.

The reason for the big event was a blessed one . . . no, two of 'em . . . for twins — a boy and a girl — were born to Mr. and Mrs. Joseph J. Rosso, the first twins born at the Station Hospital since last May 16.

Mrs. Rosso — Doris — and the newborns are doing just fine, thank you. And so is daddy, who immediately applied for and was granted leave so that he could help take care of the other Rosso children, five of them, at home.

All were eagerly waiting to welcome David Joseph, who was born at 10:44 a.m., and Raeann Denise, who arrived at 11:16 a.m. They weighed in at 6 pounds, 12 ounces, and 5 pounds, 61/4 ounces, respectively. The other Rosso children are

Marie, 15; Paul, 12; Roseann, 5; Roxann, 4, and Ruthann, 2. Plenty of mouths to feed, but

then, Rosso, MM2, is well experienced along those lines. He's assistant manager of the Commissary Store.



tells the happiness of Mrs. Joseph Rosso as

... AND THE TWINS MAKE SEVEN—Smile she cuddles David Joseph (left) and RaeAnn Denise, born last Saturday at Station Hosp.

Engine Conks Out on NAF 2-Place T-28

Lt. David F. Callahan Jr., an NAF project pilot, crash landed his two-place T-28B on Mirror Lake shortly before noon on Wednesday following an engine

He and his passenger, Jim Dossey, an aviation mechanic, walked away from the slightly wrecked plane without a scratch.

Lt. Callahan was in the normal traffic pattern for aircraft landing at NAF, a 1500 ft. corridor between "B" Mountain and the housing area, when his engine first began to sputter.

When his engine failed completely, he took quick action, making a 180 degree turn and headed his plane for Mirror Lake to avoid crashing in the housing area.

The six-year veteran pilot set his plane safely down on the lake bed but the momentum of his craft carried him off the lake bed into soft sand dunes. As a result, his plane nosed down, damaging the propeller.

He was on a routine flight when the mishap occurred.

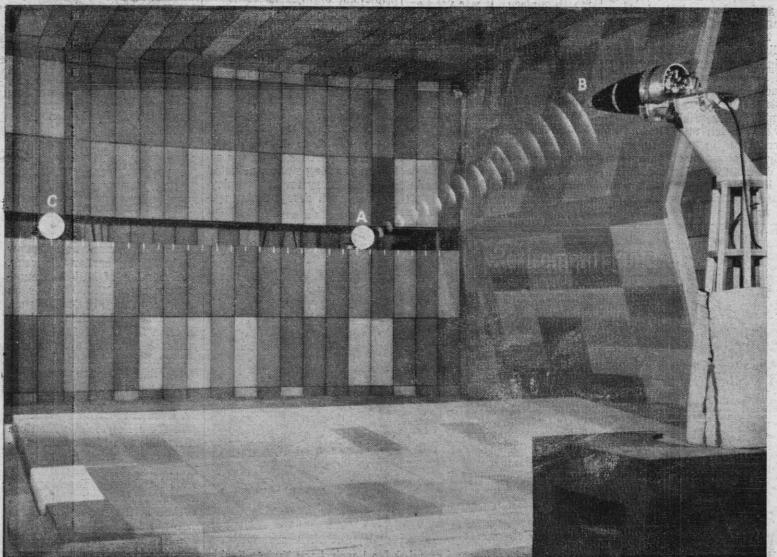
Lt. Callahan reported to the Naval Air Facility last December from the Lemore Naval Air Station where he served as administrative officer of Attack Squadron 112.

A graduate of the Massachusetts Maritime Academy, Lt. Callahan was commissioned an ensign in 1955.

He and his wife, Polly, and their three children live at 1807-A Withington Rd.

Unique Device Simulates Flight Conditions

Anechoic Chamber Puts Missiles On Target



ANECHOIC CHAMBER - 'SHOOTING GALLERY IN RE-VERSE!-Instead of the "gun" shooting at the targets, the "targets" shoot at the gun. The white discs (A) and (C) are

dipole transmitters which beam signals to the microwave seeker head (B) in a NOTS missile mounted on a pedestal. Measurements determine if the seeker will lock on target.

By BUDD GOTT

NOTS is meeting the challenge of developing supersonic radar homing missiles for national defense through a program of applied research using as its tools two co-facilities, an anechoic chamber and an antenna range.

The facilities are located in Area ER directly south of the Thompson Aeroballistic Labora-

Both were conceived and designed by Weapons Development Department's scientists, engineers and technicians.

With the advent of supersonic aircraft, these men realized the need for more precise radar frequency measurements of microwave seeker heads and guidance antennas for today's missiles if they were to be effective.

The men also wanted a quicker and more economical way of measuring the accuracy of a missile's guidance system without resorting to actual firing of the missile from an aircraft and tieing up ranges during tests.

Room Free From Echoes A method was needed to make measurements of the microwave seeker and its response to a target or multiple targets.

The answer was the Anechoic Chamber, a room free from echoes, 25-ft. wide by 50-ft. long, and 14-ft. high, lined with microwave absorbent material, in which the performance of a missile could be evaluated.

(Continued on Page 5)



PATENT AWARDEES-Peter Firsht, patent consul (I), and Capt. J. A. Quense (r), met with NOTS inventors Tuesday for a patents award ceremony. Recipients (front row, I-r) are: Norman Rumpp, Louis Alpert, Joseph Hanzel, Arnold Adi-

coff, Steve Herzog, and William Woodworth. Back row (I-r) are: Cecil Glass, Emery Bowers, David Kermode, Harold Cook, Jack Pakulak, John Nicholson, and Sydney Shefler. Not present was another awardee, Guy Leonard.

nah Bernard last Monday after- awards

Hannah has to go through treat- employees received six awards.

right elbow when she attempted to play with the cat. She thought and Weapons Development numbers of the ejection seat has reached and a \$150 check for heat shield and nozzle seal for rocket sufficient heighth for a safe and nozzle shield and nozzle. it was her own pet, also a black bered one recipient each. one, which had disappeared the A new change in the NCPI tors release the pilot from the seal is being used on Sidewinder. Dr. Alvin Gordon

Hannah has been under treatment by the family physician awards is completed. who said that this is the "off following: season" for rabies, and that there is a good chance the first-grade Norman Rumpp for the fabristudent at Richmond school is cation of properly designed segnot infected. However, he added, ments of propellant grains and articles to be coated is minisign stress. This method has

kept under observation for 14 using an elastic adhesive mate- perimentally for the 2-inch rockdays as required by law.

live at 515 Ticonderoga. Bernard and Aerojet. is in the Propulsion Development

Jack Pakulak and Guy Leongenerator having a saw-tooth and precipitants. This process current waveform for causing a is now being used at the Naval

Study Programs

Original and extension appli- ing used for analyzing propel- races of the unbalanced mass tem. cations with departmental recommendations for the Off-Station Advanced Academic Study Program deadline is drawing near, according to Dr. Charles Wiley, Education Director.

Applications must be filed with the Education Office, Room 1004, Michelson Lab, before April 1.

Dr. Wiley also announced that applications should be submitted for the BuWeps sponsored Graduate Study Program. The Station is eligible for two representatives to this program.

The program provides for full salary, tuition, books and travel expenses.

Applications must have been in the upper 25 per cent of their graduating class and be acceptable to an accredited college for graduate study.

Deadline for applications is April 1. Further information may be obtained from the Education

Girl, 6, Bitten, Local Inventors Receive Seek Stray Cat For Rabies Test Recognition for Patents

Station Security Police and Kern County Rabies Control of ficers continued the search today for a stray cat, possibly rabid, which bit 6-year-old Hancel Fourteen Station employees shared the spotlight Tuesday when Peter Firsht, Station Patent Consul, and Capt. J. A. Quense, Station Executive Officers, presented them with patent with a uniform thickness of bulk page 1. Let a support bearings are oscillated as small increment in opposite districtions with a force equal to or slightly greater than the frictional force of the bearings. The control of shared the spotlight Tuesday when Peter Firsht, Station Patent Peter Fir Fourteen Station employees lants. Each received \$50. cer, presented them with patent with a uniform thickness of bub- inclinometer has been used for R. W. Bjorklund, Head, Central

They hope to pick up the black Department topped the five defeline and check it out before partments receiving awards. Its nent for rabies.

Engineering employees received three awards, Aviation Ordnance three awards, Aviation Ordnance three awards, Aviation Ordnance three awards Research

Engineering employees received three awards, Aviation Ordnance three awards Research

Engineering employees received three awards awards Research

Since the biting incident, the received. Their inventions were automatically.

checks when the processing of

Patents were granted to the

assembling them into a compos- mized and the coating has a been in use five years on Zuni The cat should be found and ite grain of the desired shape smooth surface. It was used expropellant grain. rial to seal the mating surfaces et and has also been used for Arnold Adicoff for a method Hannah and her parents, Mr. Modifications of this segment the 2.75 rocket. and Mrs. Charles W. Bernard, grain have been used by UTC

Cecil Glass for an upward di-check. rected aircraft ejection seat with parachute escape, delay initia- motors. Heat shield and nozzle raised the amount the inventors seat and his parachute opens Harold Cook and John Nichol

improved apparatus for the con-

forming differential thermal and time linear sweep of the electron Propellant Plant, Indian Head. alysis which utilizes shunted beam in a cathode ray tube. This Md. He received a \$100 check. thermistors in a differential invention was used in missile Sign Up Now for thermistors in a differential invention was used in missile bridge network for obtaining lin
flight test work. He received a Louis Alpert for an inertia ac-

ear increase in thermistor tem- David Kermode for an inclin- by water entry impact, employ- belongs to Dr. Alvin S. Gordon perature. This apparatus is be- ometer in which the bearing ed in a depth charge fuzing sys- of the Combustion Branch of the

ble-free inhibiting material. This inertial platforms for the past Staff. The Propulsion Development invention is being used on flares. two years. He received a \$100

Steve Herzog received a \$250

stray was seen in the vicinity of Ticonderoga and Coral Sea Circle, but escaped capture. For Stray was seen in the vicinity of Ticonderoga and Coral Sea der the new ruling.

Included: Their inventions were all recommended for additional invention incentive awards under the new ruling.

This invention was originally used in the United States in A4D, and is presently being used in are filtered from the gas here. identification purposes, the cat has a chewed right ear.

Eight of the inventors received checks. Six more will receive at least six different countries in F104.

Eight of the inventors received in F104. Emery Bowers for a new and tem in which it is to be used

tinuous extrusion of coating ma- Sidney Shefler for a method terial on the external surfaces of inhibiting, or curbing, or reof pipe or rod-like articles straining internal star perfor-

of preparing vinyltetrazole poly-William H. Woodworth for a sity for large volumes of solvents

Code 40



PUBLIC WORKS 20-YEAR PINS—Thirteen of the 45 Public Works employees who were presented 20-year pins this week are shown as follows: (front row, I-r) Elmer Cox, Lloyd Crowley, Margaret Welch, Lyle MacLaren;

(second row, I-r) Joe Leach, Leon Tudyk, Earl Commer, Marcus Hodges; (third row, I-r) William Mitchell, Wayne McManis, Robert Shaw, John Paulsen, Marlin Shoemaker. Three other men were awarded 30-year pins.

Tech Board **Guides Plans** And Policy

Under instruction from Capt. Charles Blenman Jr., ComNOTS. a new Station Technical Board has been established to provide policy, planning and guidance necessary for the successful pursuit of the Station's mission.

The new board replaces the Research Board.

Meetings will be held quarterly (approximately February, May, August and November) for four consecutive days or for such time as necessary to accomplish the Board's business for the quarter.

The new Board is composed of Capt. Blenman; Dr. Wm. B. Mc-Lean, Technical Director, chairman; Capt. J. A. Quense, Executive Officer; H. G. Wilson, Associate Technical Director; Capt. C. O. Holmquist, Technical Officer; Capt. E. I. Malone, Officer in Charge, Pasadena; Dr. G. S. Colladay, Assistant Technical Director for Plans; Assistant support bearings are oscillated Technical Directors Dr. I. E.

On particular occasions, as the circumstances warrant, other Department Heads will be given special invitations to make presentations and/or participate in

Named to American



Dr. A. S Gordon

The distinct achievement of being elected to Fellowship in ear differential voltage with lin- \$100 check. tuated enabling switch, actuated the American Physical Society Research Department's Chemistry Division.

He received official notification of enrollment as a Fellow of the Society earlier this week. A member of NOTS' scientific team since 1951, Dr. Gordon first was in the Physics Division, but transferred to the Chemistry Division in July of 1954. Three years later he went to London to serve with the Office of Naval Research, and returned to China Lake a year and a half later.

A native of New York City, Dr. Gordon received his B.S. degree from Polytechnic Institute of Brooklyn in 1937 and his Ph.-D. at New York University in

He has been a Teaching Fellow at New York University, worked at the Boyce Thompson Institute for Plant Research in Yonkers, N. Y., was with the National Defense Research Council in Bruceton, Pa., and then with the U.S. Bureau of Mines in Pittsburgh, prior to coming to China Lake.

RIM SHOTS

Walter Alston's new set-up for the Dodgers' infield calls for Tommy Davis to move in from the outfield and play third base where he has had some experience. Davis can take up any slack in his defensive play with the bat that he swung for

Dodger fans may not have forgotten the awful collapse of last season but they seem to have forgiven it The advance seat sales already number 1,250,000 and in that the Dodgers have an insured attendance before a ball is even pitched. This figure is larger than most clubs can boast when the

CASSIUS UNCAUTIOUS, LIKES BEING HATED

Cassius Clay's name went into the record books again this week. The guy has deliberately built his public image so that he will be hated, but he has ability, of that you can be sure. From wrestling, he learned that the guys who are hated the most are the guys who attract the most attention. People come to see him in the hope that he will be beaten.

I'll never understand this thing about people. A guy who really has something on the ball, steps away from the normal, accepted, conservative, non-offensive, organizational way of doing things, and immediately everybody thinks he's a wise guy. However, in this case, Clay is taking advantage of the public's own misconception of themselves and "Cass-ing" in on it. THE SUBTLETY OF PROPAGANDA

Speaking of fighting, the ballyhoo is starting to get to the public in the Liston-Patterson rematch. Liston admittedly is out of shape and weighs well above his fighting weight. Patterson is always in condition. After the fiasco in Chicago, however, I wouldn't give an orange stamp for Patterson's chances in a return match but such is the subtlety of propaganda.

A lot of people are now convinced that Patterson has chance to win back the title. The promoters of the April 10 go don't seem to think much of the fight's possibilities-They've contracted for only half as many theatre seats as the last fight

A LOT OF GRASS SEED!

I caught an item the other day that sort of made me stop and think a moment. The membership fees for the Palm Beach Golf Club in Florida is \$15,000 a year. Ten grand of this is immediately given over to charity but, man, that's still a lot

By comparison, the \$96 coughed up by the paying members of the China Lake Golf Club seems a bit of a free ride, to say the least. Yet, the membership here on the station never exceeds 5% of the total number of those eligible. As a paid-up member of the local putterers, I really appreciate the opportunity I have to play such a nice course for so little money.

I urge all my readers to take advantage of a fine way to get a lot out of livin' by playing golf on the station.

ABOUT THE RUN FOR THE ROSES

There are 129 three-year-old horses nominated for the Kentucky Derby, and as of now, you can throw out 127 of them. Candy Spots, of California, and a sleek smokey boy named Never-Bind seem to be the only two nags in contention However, in the nine weeks remaining, there'll be other pretenders also making their big bid for the race of the roses. For instance, there's a not-too-well known horse around named Chateaugay, who is a showy chestnut and a son of Swaps. The only stud in the country that ranks with the top pair, is a horse named Crewman who beat Never-Bind last year at Garden State Stakes.

Scene and Heard

LAKELAND, Fla.—Know what major league team's farm with a 187-204-203-594 series. (1:35.3) by Antelope Valley; 440 with a 187-204-203-594 series. Campbell of the Detroit Tigers was more than happy to relate that the Tigers were the biggest winners in the Minors last year.

Elevated to G-M this year after serving as farm director last season, Campbell was very pleased with the composite record of the Tigers' farm teams which showed the six teams finished a total of 95 games over the .500 mark.

"And do you know," said Jim, "the nearest team to us in the Minors was Chicago, and they finished 39 games behind

Some checking revealed that the Yankees finished dead last, even behind the Mets, in the Minor League composite standings.

Campbell was quick to add, "This doesn't mean too much unless we can get a winner with the 'big' club at Detroit. "Two of our six teams won pennants," added the Detroit front-office boss, "and two others finished second in their respective leagues. We think some of the boys on these

teams can make the Tigers this year." And then with a smile, bordering on the serious, the Detroit chief said, "Let's not be naive, it only really counts when you win in the Major Leagues!"

Quote of the Week



"I believe that heroes have responsibilities. And boys who are athletes heroes in their towns and their schools and their gangs - carry with them these debts."-Paul Dietzel, football coach at the U. S .Military Academy, West Point, N.Y.



Mather, "B" most valuable player; Gordon Johnson, "B" scholar; Steve Troy, "C" scholar; (Rear, I-r) Jay Carty, guest speaker; John Sienrukos, varsity most valuable; Scot Hall, varsity scholar, and Gordon Erwin, "C" most valuable. Key Club sponsored the event.

Records Tumble at Burroughs Relays

Records fell like sitting ducks in a shooting gallery last Saturday at Burroughs High School's Tenth Annual Invitational

Down Went the coveted Invitational Trophy for Pins-and Up Came the Sun

After bowling from 11 a.m. the C class event. for the City Tourament were con-

and Jay Padgett combined to ert fifth. event. Brady also won a trophy ords set are the Mile and a Half All-Events with a 1731 score. ley; the Mile Relay (3:12.3), Vic- staff in baseball. Harry Bright, week at the Ridgecrest Lanes feet, one inch), Antelope Valley; to to add to the bench strength. with a fine 2981 score.

Some of the highlights of the Antelope Valley. men's 213-203-226-642 series. George Barker had a 182-214- Burroughs; the 3960 (10:14.6) by 201-597 series. Dick Furstenberg Foothill; the 2420 (5:48) by Ante- Biller who won one game while bowled a 240 game. Cliff Mass lope Valley; the one-fourth mile losing 12. patient and weary bowlers for Class C event records were ous Dodger Stadium. Bill will their wonderful cooperation and Antelope Valley's 1:13.6 in the assure them the starting times 660 Medley and Victor Valley's next year will certainly be im- 4:01.7 in the Medley Mile. proved.

Los Angeles Angels pre-season The China Lake Golf Club's come through for them the Dodexhibition games today, tomorbig Nassau Tournament, which gers could finish as low as fifth. row and Sunday. Angel warmup had been cancelled on March 2, It seems to us that there are too goes on the air today at 12:10 gets off the tees (both first and many "Ifs" on this ball club. p.m. and the game with the Gi- tenth) tomorrow, promptly at ants starts at 12:25. Same broad- 7:30 a.m. cast times prevail tomorrow and Pro Paul Someson expects at power in Mays, Cepeda, Alou and Sunday when the Angels meet least 28 foursomes of men and Davenport. Haller, McCovey and the Houston Colt .45s.

Social Security Agent

Clay McMikle, representative for Bakersfield's Social Security Office will be at China Lake on AS I WAS SAYING Wednesday, March 20. He will One of the most irritating be available for consultation at things is people who try to talk the Community Center from 8:30 while you're interrupting. - Nato 11:30 a.m.

Athletic Director Antelope Valley, one of the 13 participating schools, won the

a total of 85 points. The AV athletes also copped the A class event and tied with Victor Valley for the B class trophy. Victor Valley also won

the second year in a row, with

Saturday until 4 a.m. Sunday and Other schools in the exciting

High Jump, 5 feet, 113/4 inches),

tournament were John Strom- The Class B Shot Put record of son, for Bill Skowron and traded

Angels Games on KRCK Nassau Tourney his 1-12 record of last season, but

five foursomes of women to com- Bailey have good punch from pete. This will be a low score the left side of the plate. We minus handicap event. Entry fee think their pitching staff is much

Will Be Here March 20 after play is completed.

tional Safety Council.

SPORTS By Chuck Mangold

It seems we blew up a storm last week with our predictions on the outcome of the American and

National League baseball race.

We had quite a few calls from Dodger and Giant fans asking where we got the big idea the Cincinnati ball club would win the pennant.

Our reply was that the Redfrom 1 p.m. until 2 a.m. Mon- track-o-rama were Barstow, Des- legs, who finished third last seaday, the Singles and Doubles ert, Tehachapi, Kern Valley, son three games behind the Dodevents at the Anchorage Lanes Lone Pine, Foothill and Burlast winter that will really help cluded with the following re- When it was all over, Antelope their ball club. By trading off Valley was in first place, Victor several minor league players the Frank Grober won the singles Valley in second, Burroughs Redlegs came up with pitchers event with a 692 series. Ray Brady third, Barstow fourth and Des- Jim Owens and Al Worthington. bowl a 1249 to win the doubles Among the new Class A recin the All-Events with a total (6:01.5), won by Bishop; the Spec- Maloney, Bill Henry, Jim Brosscore of 1884. John Dragovich ial Mile (4:40) by Tehachapi; the nan, Dave Sisler and Samy Elwas the winner of the Scratch half mile (1:39.9), Antelope Val- lis, represent the finest pitching The Navy Exchange feam won tor Valley; the 660 (1:08.4), Ante- who can play first base or third the Team Event, bowled last lope Valley; the Pole Value (12 base was acquired from Washing-

The Dodgers gave up Stan Wil-

We don't think Skowron will be a ball of fire in the spa find it a lot tougher hitting a ball out of O'Malley's Park than he did at Yankee Sta-

Miller will certainly improve the Dodgers at the moment don't Radio Station KRCK in Ridge-crest (1360) will broadcast the Is On Tomorrow have a fourth starting pitcher, and if Sandy Koufax doesn't

> As for the Giants, this team has fine righthanded hitting too thin. Billy Hoeft and Jack There will be a potluck buffet Fisher, a couple of pitcher acquired from Baltimore, have to win for the Giants to keep them in the race.

> > P. S. We don't intend to wait in New York for a week for the Dodgers to show up as we did last October.

go unnoticed.

through his office wekly.

gers are locally based personnel

enroute to or returning from San

Clemente Island, San Diego or

other Southern California areas,

McClure states that the terminal

NOTS Pasadena News

Red Cross Drive Ships to Host Assistant SecNav Begins March 22 General Visiting Visits Pasadena

By Eldon Dunn

There's good news for NOTS Pasadena income-tax sufferers! Taxes may be drastically reduced in 1963 by the simple expedient of making a substantial contribution to the Red Cross fund drive.

As this year's Red Cross Compaign Chairman, I am anonuncing that the opening day of the drive is March 22 and will continue for two weeks. With regard to the income-tax angle, contributions up to 20 per cent of the donor's gross income will be cheerfully accepted by any so-

We're all aware of the activities of the Red Cross in aiding victims of domestic and international disasters. Just as important are the classes given in first aid, nursing, water safety to remember the Maine, Plymand swimming.

icemen obtain emergency loans, when called upon. sponsors the activities of the Junior Red Cross, and organizes volunteers to work in local hospitals. SHINY PLATES

Pasadena employees are urged tional Safety Council.



outh Rock, their 1963 income The Red Cross also helps serv- taxes, and help the Red Cross chinist.

Last year more than 5,000 pints Indiana will distribute 180,000 of blood were donated in the light - reflecting plates in six Pasadena and Altadena areas, counties this year to test their under Red Cross auspices, to the night time visibility. The acci-Los Angeles Regional Blood dent records in these counties will then be compared with sim- Parker, Electrician; Frank A These activities take time, en- ilar records in six other comergy, blood and money. NOTS parably-sized counties. - Na- UOD - Wilhelmina Brown,

Beach Area during the month of March from 1-4 p.m.: March 16-17 — Destroyer USS

Brush (DD 745). March 23-24—Fleet Oiler USS

Chemung (AO 30). March 30-31 — Landing Ship Dock USS Belle Grove (LSD 2).

Personnel Statistics

New Employees Supply - Mary R. Mahan, Clerk Typist; Hazel L. Manley, Stock Control Supervisor; James A. Garrett, Clerk Typist; Barbara Anderson, Clerk Typist.

Public Works - Jared T. Clevenger, Plumber; Melvin R. Martin, Rigger.

UOD - Frederick S. Otto, Ma-

Terminations Supply - Amanda C. Rothschild, Procurement Clerk.

Administration - William Pursglove, Guard.

Public Works - Eldredge R. Boyer, Machinst; Norman F Marett, Machinist.

Secretary-Stenographer.



-Photo by Ron Tharp, FA THE HONORABLE JAMES H. WAKELIN, JR., Assistant Secretary of the Navy (Research and Development) paid his first visit to NOTS Pasadena on Thursday, March 7. The distinguished visitor was accompanied by his staff-Capt W .J. Moran, USN, Naval Aide; Capt. S. N. Anastasion, USN, Staff Asst., and Maj. H. E. Roland, Jr., USMC, Marine Aide. Dr. Wakelin viewed station facilities on a tour conducted by Capt. Charles Blenman, Jr., ComNOTS, China Lake; Dr. Wm. B. McLean, Technical Director, China Lake; Capt. E. I. Malone, Officer in Charge, NOTS, Pasadena; D. J. Wilcox, Head, Underwater Ordnance Department; and W. E. Hicks, Associate Department Head, UOD. Throughout the tour the Secretary conferred with Station technical personnel on current projects. He is shown above (at left) in the Simulation and Computer Center.



-Photo by Ron Tharp, FA

CURRENT NON-TECHNICAL PROGRAM-Taking time out from official duties, Dr. Wakelin (shown on left) expressed a profound interest in the little "Horseless Carriage" that loomed into view as the group approached Bldg. 7. Carl Nisewanger, proud owner, obliged the visiting Secretary with a spin around the Station.

They've Done It Again



SMILES OF VICTORY — Proudly displaying trophies, the NOTS Pasadena basketball team winds up another season. Shown (kneeling, 1-r) are Jim Herndon, John Grove, Larry Gray, Ron Robertson and Ray Brooks. (Back row, I-r) are Manager Tom McKinney, Lee

-Photo by Art Block. Haynes, Dick McCarthy, Don Robinson, Ben Long and Roger Morehead. Not present for picture are Bob Matthews, Bob Shaddock, Don Brooks, Coach Norm McDonald and six trophies. Coach McDonald is to be commended for the fine sportsmanship of the team.

NOTS Pasadena Hoopsters TakeFirstPlace in Play-offs is April 1.

ball team wound up the 1962-63 The four top teams winding Bob Matthews, consistently gram must be received by the pal League, B Division.

Play-offs. In 1961 they won the ionship qualities were showing for victory.

season victorious in the Play- up the season were Jet Propul- high scoring man throughout the Executive Secretary for the Ed- Mechanical or General Engineer, GS-11 or offs with the four top contending sion Lab II, Consolidated Electro- season, racked up 69 points in ucation Committee for Ordnance 12 (2 vacancies); Code P7111 - Complete teams in the Pasadena Munici- Dynamics, Electro-Data Corpora- the play-offs - 41 against JPL Sciences (ECOS) prior to April 1 Nance planning stoge through field investition and NOTS. NOTS edged out and 28 in the NOTS-Dynamic for the '63 fall semester. This marks the third champ- JPL 79-76 in an overtime game. final. Applications for the Pasadella Annex Graduate Academic Promen preparing the fighted drowings. Promen preparing the That year they were League tro-Data, then faced the final on Coach Norm McDonald for a gram (GAP) must be received scope, directing A&E thrus responsed in preparation of coach Norm McDonald for a gram (GAP) must be received scope, directing A&E thrus response in preparation of coach Norm McDonald for a gram (GAP) must be received scope, directing A&E thrus response in preparation of coach Norm McDonald for a gram (GAP) must be received scope, directing A&E thrus response in preparation of the scope of the s

Champions and also won the play-off with NOTS. NOTS cham- job well done and hard-fought- by Code P659 prior to April 1 arction of contract plans and Play offer the 162 fall semaster. for the '63 fall semester.

Education Program Deadline Date Near

NOTS Pasaden a personnel

To apply for positions, contact Nancy
wishing to apply for the Off-Station Advanced Academic Study

Study tion Advanced Academic Study mitted when applying. Program and training under the Pasadena Annex Graduate Acappasadena Annex Graduate Acapp. 2P80115; Code P8096 — The position is

demic Program are reminded that of senior photographer and head of the that the deadline for applications | Photographic Section. This section provides Original and extension applications with departmental recommendations for the Off-Station the NOTS sea ranges. As senior photographer Advanced Academic Study Pro-

Applications for the Pasadena gineering loyouts and supervision of drafts-

PROMOTIONAL **OPPORTUNITIES**



MADAME ANGIE TAMBINI'S 'BIRDCAGE' Mrs. Harman, One of the Judges of the WACOM Show, Measures the 'Prettiest Crazy Hat'

THAT Hat Show!

'ANDRE'S CHOICE'

Madame Mona Johnston

'CRAZIEST CRAZY HAT'

By Madame Jane Allen

Friday, March 15, 1963

From Omar Khayyam To Johannes Brahms . . It Was Crazy, Man!

By GWENN EVA

A loaf of bread, a jug of wine-A bird in a white crepe paper cage—Days of Wine and Roses and Brahms Lullaby were the top four on the Crazy Hat Hit Parade last Tuesday afternoon.

Ingenuity, hidden talent and subconscious desires burst forth as 150 lovely WACOM ladies let their millinery imaginations run wild at the Commissioned Officers Mess. Chapeaus of every possible description bobbed, ducked and gracefuly milled about as a most listinguished guest viewed all with an experienced, k n o w i n g

A sparrow in a gold cage chirped wildly as a sidewinder in a tumbleweed slithered by. A pigtail was startled as a tribe of "Wildflower Indians" approached. Mary, Mary, Quite Contrary,

went about her business. Food Hat-Shaped, Too

The appropriate table delicacies were all done in various hat forms and shapes of chicken salad ala Mr. John, Jello by Hattie Carnegie and potato salad creed by Miss Dior

Finally the "judgment" moment arrived. The guest of honexpert on millinery artistry, "Monsieur Andre Caspard Homard" rose to address the audience. After a few "chic" Parisian stories Monsieur Homard announced the winners.

The Four Winners Madame Mona Johnston's en-

try - "Days of Wine and Roses" - which was composed of beautiful red roses placed around a tiny glass of red wine, was picked as the "Chapeau M. Homard would like to take back to

Madame Angie Tambini's lovely white birdcage perched atop her crown was chosen as the "prettiest crazy hat." Madame Jane Allen came forth

with a baby blue drum complete with bells, bottle and bootie to be awarded the "craziest crazy hat," all of which she will be putting to good use next June.

The Chapeau to end all chapeaus was worn by Madame Bert nith. Judged as the designer of "Most Original Crazy Hat," (Continued on Page 5)



FLIGHT SCHEDULE DESK-Terry M. McClure, ACAN, flight scheduling yeoman, says nearly 200 passengers log through his office weekly. The 2500th should be soon.

is serving a substantial number of civilian contractors who em-

Await 2500th Passenger

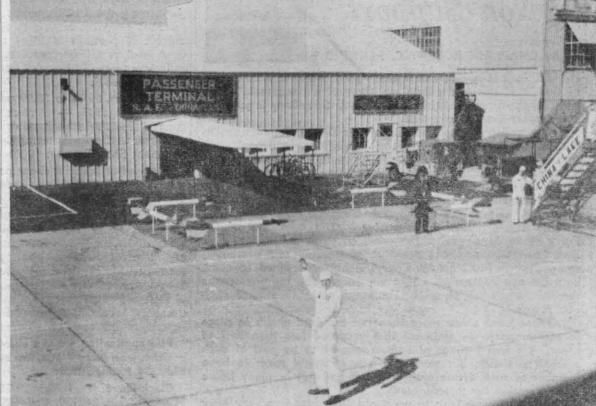
dreds of compliments from those who've been in and out of here who've been in and out of here entrance leaves no doubts about pitality represented by the terthrough the years. They're ex-tremely pleased with the new entrance leaves no doubts about pitalit the identification of China Lake, minal. facilities," adds McClure.

gers embarked or debarked in noted. uncommon for a visitor to spend with a wide range of food and eration.

his first few minutes trying to beverages provided by vending ploy company planes for trans- get his bearings, according to machines, is kept open 24 hours one of the line crewmen. for passenger convenience.

"We've received literally hun- An arrangement of Sidewinder And a lounge area for passen-

and its functions in the weapons Three departments at NAF, Until last December, passen- development field, Cdr. Abele Operations, First Lieutenant and the Line Service unit, are refront of Hangar One. It was not A coin-operated snack bar sponsible for the terminal's op-



-Plane director signals pilot into position where hospitality awaits travelers.

or, a most reknowned Parisian 'PARK YOUR PLANE RIGHT HERE, SIR' in front of the NAF Passenger Terminal



'MOST ORIGINAL' Madame Bert Smith

Teachers Select Top Educator And Lay Person Harley E. Tillitt, assistant head

for development, Test Department, will be the master of ceremonies, and Dorothy M. Jackson, Richmond School third grade teacher, will be awards chairman when selections for the Outstanding Educator and Lay Person of the Year are announced next Thursday, March 21, by the East Kern Division of the California Teachers Association.

The announcements will b made at the association's Public Relations Banquet at White's Cafe in Mojave.

Dr. Lawrence E. Vredevoe, De- Ranges.' sity of California at Los Angeles cal teachers groups.



DR. L. E. VREDEVOE

will speak on "Beyond the partment of Education, Univer- Tickets are available from lo-

Family Counseling Service Dinner Scheduled March 25

The Annual Dinner of the Desert Area Family Counseling service will be held Monday, March 25, at 7 p.m., in the Community Center. The dinner will feature a nationally known sitions listed below: Applications

speaker, Howard J. Clinebell, Jr., |_ Ph.D., who is presently Associate Professor of Pastoral Counseling 16 New Fire Alarm at the Southern California School Boxes Installed of Theology in Claremont, Calif. Dr. Clinebell will speak on the In Wherry Area

task of counseling and working

was selected as the book of the Fire Chief J. A. Davis announced ial services for branch. month by the Religious Book this week. question the best book on this of the alarm boxes: and is one of the best books on No. 1511), 214 Segundo St. (1512), and solutions. alcoholism in general which has 310 Segundo St. (1513), 119 Car-

Service officer, Ext. 72714, or by Bonita St. (1518), 315 Dorado St. solutions. mailing checks to the office (1521), Corner of Robalo and prior to March 20. Due to space Arondo Sts. (1522), 226 Robalo

gin at 8:30 p.m.,

CHAPLAIN'S MESSAGE

A Case Of Non-Support

By CHAPLAIN ROBERT C. FENNING

An ancient saying has it that "good music is a handmaid of God." If this is so, then we know of a "handmaid" who, from all appearances, is being neglected. Somebody is guilty of non-support-and it isn't God.

The well publicized concert of our Desert Community Orchestra on Monday night, in the James Monroe School auditorium, was a cultural event that would do credit to any American community much greater in size than our own. Under the capable direction of Mr Theldon Myers, the orchestra performed in a magnificent manner. It was a balanced program that provided a showcase for some exceptional local talent. The chamber music string quartet consisting of Dr. Perry Stone, Mrs. Marlyn Dempsey, Mr. Bert Schoss and Mrs. Rosa Lee McKay provided a treat in its rendition of a Beethoven composition. Flute soloist Cheryl Robinson seemed to catch both the eye and ear of a rapt audience. The big payoff was the encore number, an original composition by Conductor Theldon Myers.

There were a few more than two hundred chairs in place to accommodate an audience that occupied less than half of them. We had feelings of embarrassment to be part of such a small audience, but wondered how it would seem to be a member of such a fine orchestra that had put in many hours of preparation for this concert?

community. Unquestionably, it is true that many interests compete for our time. Nonetheless, it is our feeling that our and clerical support service to all splendid orchestra deserves much more than we give it. Great credit is due the generous groups such as WACOM, Rotary, to 2:00 (20 hrs. per week). Music Parents Club and individuals who have in the past given

China Lake Citizens, let's take advantage of a great opportunity and support our Desert Community Orchestra.

Lenten Services

On the Station

Catholic Services:

urday at 8:30 a.m.

During the Lenten Season the

following services will be held

in the All Faith Chapel on the

Daily Masses: Monday thru Fri-

Novena: Wednesday evenings

day at 6 a.m. and 4:45 p.m. Sat-



Christian Science (Chapel Annex) Morning Service-11 a.m. Sunday School-9:30 a.m. Nursery facilities available

Protestant: (All Faith Chapel) Morning Worship—9:45 and 11 a.m. Sunday School—9:30 a.m., Groves and Richmond elementary schools. Roman Catholics (All Faith Chapel)

Holy Mass-7, 8:30 a.m. and 4:45 p.m. 6 a.m. Monday through Friday, 8:30 a.m.

Confessions-8 to 8:25 a.m., 7 to 8:30 p.m. Stations of the Cross and Ben-Saturday. Thursday before First Fridayediction each Friday at 8 p.m. 4 to 5:30 p.m.

NOTS Hebrew Services: (East Wing All Faith March 29. Chapel)

Protestant Chapel Services: Every first and third Friday, 8:15 p.m. Sabbath School every Saturday morning. Unitarians: (Parish Hall) Fellowship Meeting-Sundays, 7:30 p.m. Sunday School-9:30 a.m. be "The Cross of Christ."

PROMOTIONAL OPPORTUNITIES

THE ROCKETEER

Present Station Employees are encouraged to apply for the poshould be accompanied by an upto-date Form 58. The fact that these positions are advertised here does not preclude the use of other means to fill these va-

Clerk-Typist, GS-4, PD No. 055039, Code 5562 - Types re-His latest book, Understanding alarm boxes in the Wherry Housand Counseling the Alcoholic, ing area has now been completed, as office receptionist and performs general clerical-secretar-

Club, largest of its kind. Dr. S. For the information and safety Chemist (Analytical), GS-9, PD D. Bacon, of Yale Center on Al- of all concerned, following is a No. 13555, Code 5516 — Provides cohol studies said, "It is without list of the locations and numbers analysis and measurement serv-

Chemist (Analytical), GS-11, ricart St., corner of Toro and Code 5516 - Incumbent is tech-Tickets to the dinner and talk Carricart Sts., (1514), Corner of nically responsible for data obare available at \$3.00 per person. Toro and Prospect Sts. (1515), tained and released on chemical Reservations may be made by Corner of Toro and Searles Sts composition and physical propcalling the Family Counseling (1516), 211 Bonita St. (1517), 315 erties of analyzed materials or

Electronic Technician, GS-9, limitations of the Community St. (1523), Corner of Robalo and Code 502 - Assists in construc-Center, it is suggested that early Nadeau Sts. (1524), 326 Robalo tion and design of atmospheric St. (1525), Corner of Robalo and sounding instruments and bal-The dinner will be served at Sandora Sts. (1526), 215 Cisco loon control devices, field test-7:00 p.m. The program will be- St. (1527), and 315 Cisco St. ing and operation of such instruysis of sounding data.

Electronic Development Technician (General), GS-9 or GS-11, Code 5522 — Designs and constructs laboratory and ordnance electronic equipment, perfoms laboratory testing, installs and operates field test instruments, performs general instrument repair and prepares reports as required. If position is filled at GS-9 level, it will be considered formance level.

Electrician, \$3.13 to \$3.39 per hour, Code 5545 — Performs general electrical repair and construction within Engineering Department Shop Branch.

File applicationss for above positions with Pat Dettling, Room 31, Bldg. 34, Phone 71393.

Electronic Engineer or Physicist,GS-9, 11 or 12, Code 3541 Located in the Missile Guidance

and Control Branch, Development Division IV, Code 3541. Duties may include the performance of all types of micro-wave measurement; development of new instrumentation and procedures. experience.

File application for the above position with Mary Watts, Rm.28, Bldg. 34, Phone 72723.

Clerk-Steno (Part Time), GS-Provides stenographic typing the sand out. branch personnel. Hours: 10:00

File applications for the above position with Jimmy Millett, Rm. line for application is March 22. *******

The Rocketeer

Official Weekly Publication of the
U. S. Naval Ordnance Test Station

China Lake, California Captain Charles Blenman, Jr., USN

"J." "T." Bibby Public Information Officer Jack G. Broward

Editorial Advisor Richard Grueneberg Managing Editor

Budd Gott Associate Editor Chuck Mangold

Special Services Athletic Director beginning March 8 and ending The Rocketeer receives Armed Forces Press

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'DESERT PHILOSOPHER'

To Survive In The Desert

By "POP" LOFINCK

DESERT LIVING

With spring and summer almost here it's time to think about harmonious living with Nature on the desert.

Friday, March 15, 1963

Always wear a hat to keep the heat off your headunless you have very thick hair. Better to wear a hat anyhow. White reflects the most heat-light tan is next best. (Parenthetically-place your hand on a white car and a dark one along side and feel the difference.) A sun helmet, painted white on top is excellent. The air circulates in between the hat and the hat band-it takes a lot of banging around-makes ice for various Station activities a good eye shade and has a chin strap to prevent its blowing phase of alcoholism yet to appear Dorado St. (Fire Alarm Box on numerous types of materials off and rolling a hundred yards or more. A light colored straw hat, with a chin strap is maybe better. It's lighter weight, and the air goes through it.

> But a helmet looks better. The British wear thick pith helmets. That's fine in a tropical desert—but unnecessary in this latitude. And they cost a lot more and don't stand the beating. But they look smart.

It isn't necessary to grab a hat every time you cross the street-but if you're out all day-WEAR A HAT.

I checked on three deaths I heard about in the desert They never wore a hat-rode in open top cars and probably didn't drink enough water.

SUNGLASSES

If you spend a day at the beach or in a bright desert area ments and reduction and anal- it takes your eyes a week to 10 days to regain normalcy. That statement is authentic. Have the darkest type sun glasses available. They should not be worn in early morning or late afternoon. Take them off when you go inside. Save your eyes.

If you don't have glasses—a wide hat brim helps some. Years ago-before dark glasses-some of the old deserteers used to blacken the area under their eyes with charcoalespecially surveyors. It absorbs intense reflection.

You should drink at least 2 quarts a day. That includes water and coffee - beer - everything. It takes that much to keep your body functioning normally and to avoid getting bladder stones. In the dry desert air you don't realize how as training for GS-11, or full per- much you perspire-it evaporates off in the air.

You can get dehydrated without being thirsty. You feel depressed. You take a big drink of water and your depressed

You sometimes hear stories about old desert rat prospectors who don't drink much water—that is pure hooey.

If you're out in 120 degree temperature you should drink a quart an hour to keep normal.

Don't try to save your water-drink it. Men have died of thirst with a quarter-canteen of water left. They saved their water. Lost their lives.

These canvas bags keep water cool, but they lose so much through evaporation-and they wear out quick in the sage brush and thorns, and cactus punches holes in them. Water doesn't have to be cool-the main thing is wet. A gallon metal canteen is better-or a 5 or 10 gallon tank. Water is an absolute necessity in the desert. Don't wait to learn from

A loose shirt keeps you cooler than your bare skin-Try it on and off. You'll find out!

Boots with medium socks are cooler than sandals or low It is of course trite to point out that ours is a very busy 312-4, PD No. 240139, Code4052 shoes—the heat comes up from the sand—and boots keep

SNAKES

Every spring I have to re-educate myself to be snake conscious. I get careless during the winter-when the snakes

The worst thing is to reach up with your hand in climbing a hill—to pull yourself up.

Snakes aren't bad-they want to get away-but they don't hear good. They go to sleep in the shade of a bush in the middle of the day. So if you step over a bush onto a sleeping snake-that's not good.

Kids usually make so much noise they scare the snakes away-but they should be warned every few minutes anyhow.

You can make a good pet of a gopher snake in a few minutes by stroking it with your moist hand—then the kids can get a kick out of carrying the snake around—to get the feeling of being close to Nature.

WALKING

If you are on a long hike—there are places where even a Jeep can't go-sit down or lie down for 5 minutes every half hour. But don't sit long enough to cool off. At the end of the first half hour it takes will power to stop-you're keyed up and want to press on-but stop anyhow. By sticking to this practice I've walked all day without getting pooped.

If your car conks out, stay with it until night and build

There is a safety advantage of having two cars on long ******* And don't forget a shovel.



Guided Missile Division, was assigned the task of securing the equipment and developing the chamber. Mitchell secured a superheterodyne special purpose receiver with a local backward wave oscillator with voltage tuneable over the range of two to four gigacycles. The oscillator signal is

mixed with the source frequency

at the test antenna using a broad-

band shunt diode mixer. The 1,000 cycle output of the oscillator is used to actuate both a rectangular and polar recorder. A pen programmer may be used with either recorder to provide identifying traces on antenna

Two dipole antennas with transmitters are mounted on individual, remotely controlled, self-propelled carts, which move along a circular arc, and beam their signals to the guidance antenna of a missile on a positioner at the opposite end of the

A master console indicates accuracy of the missile to follow its target.

The advantage of the Anechoic Chamber lies in the fact that repetitive tests can be conducted with economy and a multitude of adjustments can be made to the missile during the tests.

Antenna Range The Antenna Range located one-half mile north of the Anechoic Chamber came into being about five years ago. The need for such a range became apparent during NOTS' work on an all weather missile.

"It became increasingly obvious that if we were to do very much development in antenna systems, a range was an absolute necessity," asserted Jim Roseth, the man in charge of both tennas, a rotating 27-ft. fiber- pattern recorded as rectangular the Anechoic Chamber and the glass test tower mounted on a 4- or polar plots. Antenna Range.

tracted all radio frequency sociated measuring equipment. circuitry, we would have not been able to evaluate the components we received except by uses an antenna range as an evalactual firings," the NOTS vet- uation tool," Roseth said. "It's his eran added.

Today's Antenna Range con- "Mathematically on paper he tower is that it operates like an sists of the main building with a may have a working antenna elevator. The source can be elepermanently attached 25-ft. that meets his specifications. His vated from 5 to 28 feet. source positioning tower which actual fabricated model usually The positioner holding the trol panels that operate the test has provisions for mounting exhibits other parameters. radio frequency sources and an- "It's our job to check out his veration axis, and capable of console, and recording equip- with new equipment and new

Crazy Hats . . .

ward as M. Homard lit the candle be tested on the range and its is mounted on a small railway tegrator. This unit is in effect an simulated flight conditions withatop her red checkered table cloth. As the candle glowed brightly there was a meal fit for a king right on top of her

18 Door Prizes

When the initial excitement had died down, a total of 18 door prizes consisting of colognes, lipstick, wallets and imported perfumes were awarded. These lovely gifts were donated by Max Factor, "E" "P" Inc. of New York, S&K Sales Co. from San Francisco, Revlon and John Robert Powers.

While most of the bouquets are normally associated with the millinery talents displayed, the biggest bouquet of all should rightfully go to the committee headed by June Knight whose energetic endeavors and tireless efforts are responsible for the wonderful door prizes. As all were expressing their

compliments and happiness to the elated recipients we hopped into Marsha Donnan's 'Stargazer" gondola and waved a fond



ANECHOIC CONSOLE-Jim Mitchell, Dennis Seegmiller (on phone), Lou Thompson, and Bill Johnson await Joe Francis' word on the ability of a missile to lock on target as he checks the data being fed into the master console.



ANTENNA RANGE CONSOLE - Jim Roseth, the man in charge of the Anechoic Chamber and the Antenna Range, is checking out the pattern of a radar antenna under test as measurements are fed into the Antenna Range Console.

wheel cart for range positioning **Evaluation Tool**

"The antenna design engineer from 100 mc to 70kmc. oscilloscope."

Reflectors used in the tests "Even if we could have con- on its 200 feet of track, and as- vary from 1 to 15-ft. in diameter. sition. This enables the loading adequate sampling of the radi-Antennas can be tested over of an actual missile or large an- ated energy. the frequency range spectrum tennas on the tower without the

Unique Features

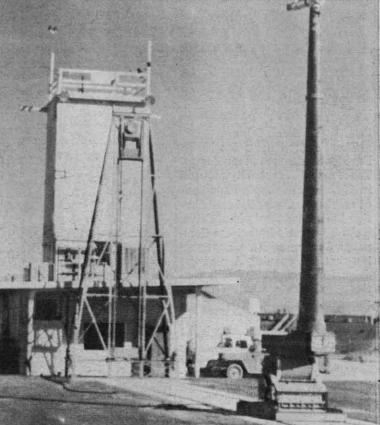
A unique feature of the range equipment source positioning 70 kmc.

source has a polarization and ele-towers on any axis the receiver design, and there are almost as rotating parabolic reflectors ment which plots either rectang- methods," Roseth concluded. many variables in antennas as weighing 1,000 lbs. The position- ular or polar antenna patterns.

Fiberglas Test Tower

Main Tower Building

which is relatively new for the Station money by accurate eval-Madam Smith tilted her head for- Most any type of antenna can The 27-ft. fiberglas test tower Antenna Range is a pattern in- uation of NOTS' missiles under



ANTENNA RANGE TOWERS-In the foreground is a 27-ft. test tower mounted on a small railway cart which can be moved back and forth on a 200-ft, narrow gauge track. In background is the three story main tower which houses antenna measuring equipment. Attached to the main building is a 28-ft source positioning tower. Parameters of virtually all antennas can be measured at the facility.

cart and can be moved back and electronic planimeter. forth on a 200-ft. narrow gauge It provides a digital readout track. Its positioner combines on four decode counters of a asimuth and elevation features number proportional to the plus a transverse axis for shift- power radiated by the antenna ing the center axis of the antenna under test.

the center of the tower with a vides 1,000 samples for each complastic gear at its end to drive plete revolution of the antenna. either a steel head or an all die- A number proportional to the

use of auxiliary hoist equipment.

Located in the three-story main tower building are the con- cies in missile development.

Sampling of the antenna signal A plastic rod runs up through by a servo driven sampler pro-

lectric head in a polarization axis. total power radiated from the an-In vertical position, the tower tenna can be determined by a is rated at 15,000 ft. lbs. and over summation over a number of con-1,000 ft. lbs. in a horizontal po- ical cuts sufficient to provide an

Measure Parameters

"We can measure the para-The range is capable of satis- meters of virtually all antennas," factory operation from 200 mc to Roseth said, "Of course conditions are constantly changing in the field of radio frequency. The trend is toward higher frequen-

> "We are prepared to cope with these trends as they progress

The Antenna Range is serving there are in microwave circuiter are in microwave circuiter and its purpose well. It is saving the out resorting to actual flight

> There are few "off the shelf" antennas that fulfill NOTS needs. The cost of an antenna purchased commercially can run into five and six figures.

The Antenna Range plays an mportant role in assisting NOTS' design engineers in the development and refinement of antennas for the Station.

New Classroom and Study Hall Annex Hinges on Bond Vote

Burroughs High School will get a new classroom building and a study hall addition if voters pass the proposed \$6,930,000 School Bond Issue in an election next May 21.

The amount of \$358,000 for the Burroughs construction is included in the proposal.

Members of the Kern County Union High School District board of trustees set the May 21 election date last Monday during their meeting in Bakersfield.



BOUNDARY PETITIONS - William Hattabaugh, community Council president (left), watches as Dr. Alvin Gordon and Dr. June Amlie show Capt. Blenman and LeRoy Jack-

son citizens' petitions requesting the alteration of the Kern County-San Bernardino County boundary line. The petitions were mailed this week to county supervisors.