

SNORT Tests Artillery Shell Recovery

Track Sled Air-Snatches Projectile In Army Ballistics 'Baseball' Game

"We've got 'em both!" Just four, casual little words emanate from 1st Lt. William S. Fiske, U. S. Army project coordinator, as the two holes, created by the captured artillery projectile, appear at the rear of the recovery sled. But the placid tone of his voice does not conceal his exuberance as months of intricate mathematical calculations and precise timing click to complete the third in a series of successful "double-shots" of the CATSHELL project here on February 10, 15, and 24.

The "Catshell" program, a name coined at NOTS for the Army's unique method of "soft-recovery" of an artillery shell, has been under way at the Station's Supersonic Naval Ordnance Research Track (SNORT) since January, 1960, with the assistance of and for Picatinny Arsenal. Bill Moore, general engineer in the Supersonic Track Division of Test Department, is the local project engineer.

Due to Picatinny's lack of supersonic track facilities, NOTS has supplied the use of SNORT to test the newly devised "double-shot" application of the program which was conceived, engineered and refined by Picatinny Arsenal, the Army's Research and Development Center for ammunition and special weapons at Dover, N.J. The new concept will cut down the cost of the study by some \$300,000.

Since the tests started here last March, 22 shell firings, most of which were single shots, out of 26 sled runs were successful. The four failures were due to poor sled performance which, in turn, prevented the guns from firing. Earlier successful "single-shot" tests were conducted on the rocket sled track at Holloman Air Force Base near Alamogordo, New Mexico.

Although on Temporary Additional Duty at NOTS, Lt. Fiske is assigned to the Experimental Test and Evaluation Section of the Technical Services Laboratory at Picatinny. A detailed article on Catshell, based on information compiled by Lt. Fiske, appears in the February, 1961, issue of the Western Aviation, Missiles and Space publication under the heading "Artillery Shells Snagged in Flight by Rocket Sled May Aid Missile Research."

Army Uses Baseball Tactic

The Army's version of the nation's favorite sport, baseball, is reflected in their soft-recovery technique of retrieving fired missiles for further study. The "ball" is a live 155 mm artillery shell. The "glove" which catches it is a rocket sled traveling at Mach 1.4 and the "pitcher" is a millisecond triggering system which fires the Howitzer.

The idea for this novel project originated as an answer to the requirement placed on Picatinny to find a means by which special artillery shells could be recovered after firing, intact and undamaged. Conventional methods were unsuitable for use in recovering the 155 mm artillery shell because an extremely low predictable deceleration catch was required. Several new methods were considered as feasible but the rocket sled method proved to be the most promising.

This method was predicated on the theory that it would be possible to intercept and capture an airborne projectile with a rocket sled moving in the same direction. A sled, filled with suitable soft recovery material, was designed by Aircraft Armaments, Inc., with the aid of NOTS engineers, for use as the recovery vehicle. The basic theory proved to be more than just feasible with a series of 16 highly successful single "catches" at China Lake.

From Theory to Actual Practice

Enroute to proving their theory, and in going from feasibility studies to actual practice, the project engineers met and overcame many problems.

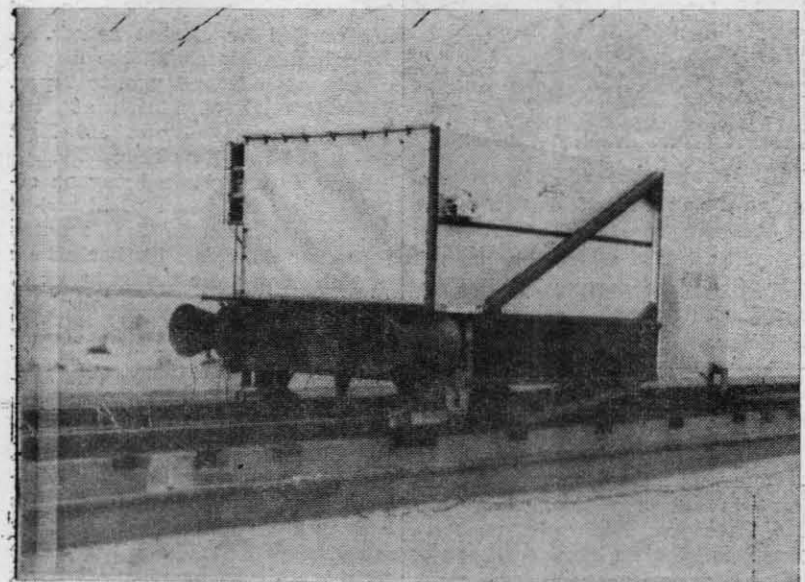
The sled itself was the first unknown. Specially designed and built for this project, the sled is 23.5 feet long and weighs 13,000 pounds. It rides on steel shoes and maintains a metal to metal contact with the track at all times. Could it be made to attain the desired peak velocities? At Holloman, the testers began by using three rocket motors but the present set-up requires five rocket motors which develop a combined thrust of 250,000 pounds.

"Glove" Is Ensolite-filled Box

The box used for the catch and capture of the shell is mounted on the sled and is filled with sheets of Ensolite, the material finally selected as most suitable for recovery. Other materials tested include polyurethane celotex and foam rubber but these were discarded due to requirements for a flameproof cushioning material.

The box is made of ribs of structural steel covered by sheet aluminum, except in the rear, where the shell goes through a thin sheet (.0018") of steel before its capture. The recovery box is ten feet long, and presents a target area at the rear of four feet by five and one-half feet.

After solving the problems presented by the catch vehicle, the project coordinators from Picatinny were faced with problems inher-



CATSHELL SLED—The Army's "soft-recovery" vehicle is composed of three parts: the main wedge in the forefront; the recovery box filled with Ensolite, a sponge rubber material, mounted on five 50,000 lb. thrust motors which are separately primed but simultaneously fired.

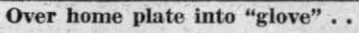
Army's Double Pitch



First "ball" down the slot . . .



Over home plate into "glove" . . .



Here comes the double "pitch" . . .



Right in the "mitt" . . .



They're both in the pocket!



ent with the ballistics of a 155 mm Howitzer shell.

Characteristics of the "Ball"

A shell fired from a Howitzer normally flies high along a curved trajectory. In order to be suitable for this project, the 155 mm Howitzer used in the testing was sunk into the ground alongside of the track so that the muzzle of the gun was 0.8 feet below track level. Maximum height of shell trajectory is now just below the highest limit of the recovery box.

The size of the target area at the rear of the sled is fixed because of limitations of the track, and weight and aerodynamic limits on the sled. Since the target area is relatively small, steps had to be taken to insure that no damage would be done to the costly track facilities in the event the "catcher" muffed the "ball." To satisfy this end the gun is fired from one side of the track, and its line of sight to the target is on a slight diagonal. This means that the shell and the sled must come together at a precise moment or they will never meet.

Precision Timing Throughout

Since the shell had the most predictable peak velocity, a triggering system had to be set up to insure that the sled reached the correct velocity and was at the right place at the right time for intercept. Two electrical triggers were set-up 500 ft. apart.

As the sled passes over the first trigger the electrical power to fire the gun is turned on and this power is applied to the gun firing circuit when the sled passes over the second trigger provided the sled has attained the required speed.

The sled starts 3000 ft. behind the gun and reaches its peak velocity just prior to passing the gun. The intercept occurs 1000 ft. from the gun muzzle. At the time of the catch, the shell is traveling at 1625 ft. per second and the sled is traveling at 1450 ft. per second, giving a velocity of 175 ft. per second.

Although the track is 4.1 miles long, it is necessary to use a water brake to prevent the sled from running off the end of the track. This was the outcome of the "ball games" have always been highly successful. It seems the Army has the game rigged in its favor.

The Army stresses that the artillery shells under test are new including new fuzings, casings and in some instances new designs.

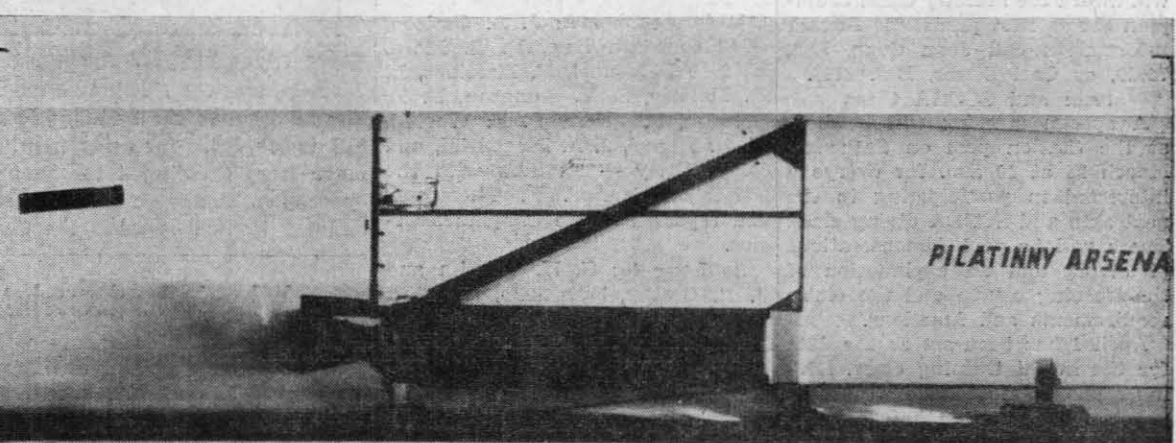
Many of the new components had never been tested for dynamic loadings even though the materials themselves had undergone tensile and yield strength tests.

This in-flight laboratory, as it were, eliminates all loadings except those of the firing device itself.

There were two other proposals for accomplishing the same objective, but they proved too costly in terms of both money and time.

The idea for the rocket sled recovery was conceived in March, 1958. First attempts at Holloman took place the next month. Work in New Mexico led to a re-design of the entire technique which is now in use at China Lake.

The Catshell project is considered an open-end one and a new phase will begin late this year. Anthony Gogliucci is the Army arsenal's project engineer.



CAMERA STOPS FLIGHT ACTION—This extraordinary photograph taken with a 70 mm "ballistic synchro" camera, which revolves at same relative speed as sled, shows projectile overtaking rocket sled at SNORT. At time of catch, 118 lb. shell is traveling at 1,625 ft. per second and the sled at 1,450 ft. per second. Intercept occurs 1,000 feet from Howitzer's muzzle to recover an undamaged projectile. The shell's blunt nose is only a test feature to reduce catch velocity.



PROJECT COORDINATOR—1st Lt. William S. Fiske, U.S. Army project coordinator assigned to the Catshell test program at NOTS, turns from the 25-powered binocular in the fire control booth at SNORT after tracking a successful double-shot sled run.

Huge Detection Unit Being Built by Navy

One of the world's largest transmitters is being built to plug the gap in the Navy's silent satellite detection system.

Located 35 miles southwest of Wichita Falls, Tex., the 560,000 watt transmitter will be five times as powerful as the largest television transmitter. It will "feed" one of the world's longest antennas.

The mile-long antenna will have nine sections, each 576 feet long by 24 feet wide, arranged so that one can be inoperative without affecting the others.

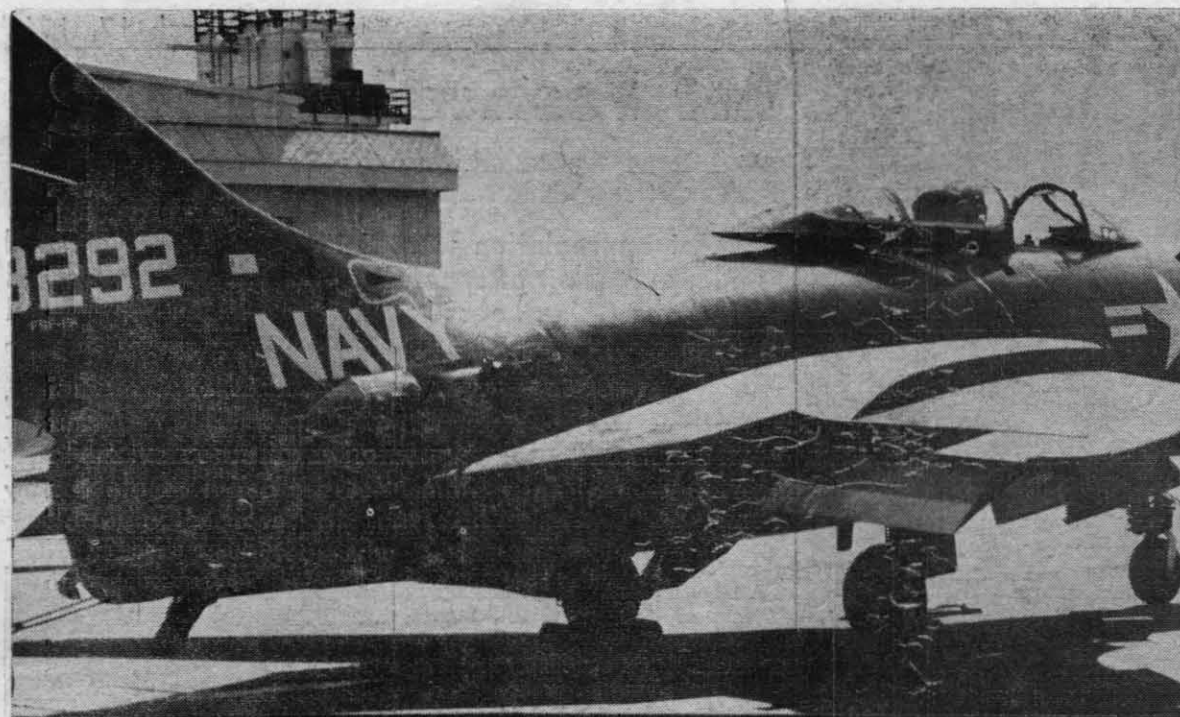
The Navy Space Surveillance System (SPASUR) has been operating for two and a half years. It has two complexes, one extending from Georgia to the Mississippi River, the other from California to New Mexico with a blind spot between. The gap will be closed this year by the new transmitter.

Each complex of the system consists of a transmitter midway between two receivers spaced 500 miles apart. Data from the two receivers, picking up signals bounced off a satellite, are automatically sent to the Space Surveillance Operation Center at Dahlgren, Va.

The new addition in Texas will extend the range of the system by increasing signals reflected to each receiver. The receivers in one complex normally receive only those signals from their own transmitter.

English Class Starts

A new English class for foreign born will start next Monday night at 7 p.m. at Burroughs High School. Enrollments will be taken at BHS office Monday through Thursday from 6:30 to 7:30 p.m. Instructor will be Miss Ann Clerley.



NAF landed this drone with a gash 8" x 8' long in its tail section.

ROCKETEER

BUDD GOTT, EDITOR PHONES 71354, 72082, 71655 OFFICE, HOUSING BLDG., TOP DECK

Vol. XVII, No. 11 NAVAL ORDNANCE TEST STATION, CHINA LAKE, CALIFORNIA Mar. 17, 1961

Tomorrow —

Science Fair Will Reveal BHS Student Capabilities

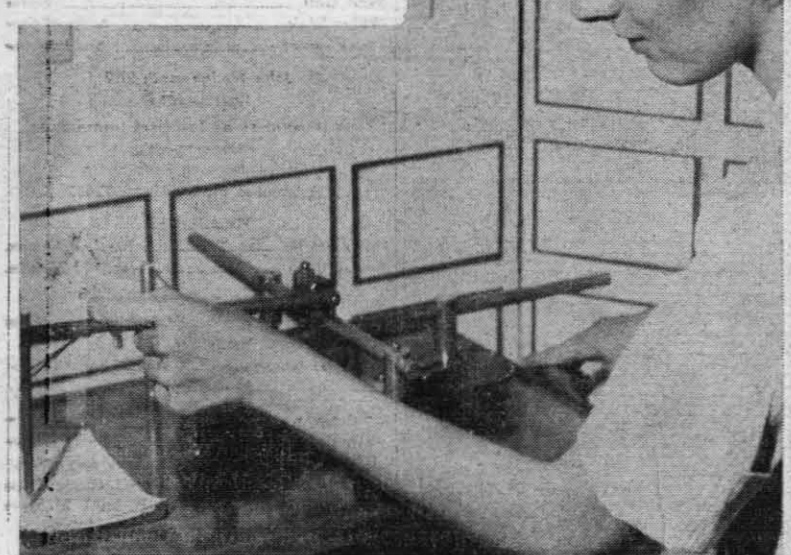
The fifth annual High School Science Fair, to be held from 9 a.m. to 6 p.m. tomorrow on the Burroughs Campus, will demonstrate the ingenuity and creativity employed by students interested in the sciences.

Exhibits in the fields of biology, chemistry, physics, mathematics, photography, and home economics will be displayed in the chemistry, physics, and photography rooms. As an added attraction this year, high school art exhibits are mounted in the library.

Exacting Preparation Projects are developed and explored according to the age and ability of the students, and interest is further stimulated by the distinctive aura of inquisitiveness which dominates the modern world. These young people perform a variety of scientific experiments and thus give impetus to the learning-teaching relationship.

John Trent, Burroughs physics instructor and general chairman of the 1961 Science Fair, states that the exhibits will again be judged by NOTS scientists. High School entries are competitive and eligible for cash awards which are provided by local civic groups. Winners will be entered in the Kern County Science Fair which

SCIENCE FAIR PROJECT — Karen Plain, Burroughs High School senior, demonstrates her contribution to the annual Science Fair. The mechanical Lissajous Figure Generator, which compounds two simple harmonic motions at right angles, is one of the many projects to be displayed this weekend. Karen was a recent recipient of the Bank of America and the 1961 ReSA Student Awards for her outstanding accomplishments in the fields of science and mathematics.



China Lake Players To Stage 'Everyman' As Area Gift

This weekend's highlight in entertainment will be the China Lake Players' production of the English morality play "The Summoning of Everyman" in the All-Faith Chapel Sunday night, March 19, at 8:15.

Due to the generous contributions of friends and patrons of the China Lake Players and the support of Chaplain Jones and Monsignor John F. C. Ryan the colorful drama will be offered as a gift to the community for the Lenten season and no admission charges will be required. "Although the play has religious significance, it cannot be considered sectarian in any way," states Mary C. Wickendon, director of the play. The theme, which is the loneliness of a man's soul when he realizes that he must die and his search for some enduring values in his life, is one which has the greatest significance for the confirmed believer, for those of little faith, or for those who have found no faith at all, the director added.

The cast will wear colorful, medieval costumes which will be enhanced by the beautiful setting of the All-Faith Chapel. A full gamut of human characteristics will be enacted by the following cast: Everyman — Robert Pinney; Fellow — Ed Romero; Death — Ralph Claassen; Good Deeds — Betty Kruk; Knowledge — Marge Pezzuto; Goods-Strength — Gary Wydra; Kindred — Norm Van Zandt; Messenger — Rosalie Lindblom; Beauty — Ruth Schuyler; Malice — Ruth Kekosh; Cousin — Alan Fouse; Confession — Jim Rhodes; Evil — Joan Lepnik; Faith — Joan de Groot; Deceit — Mary Wickendon; Cowardice — Martine Brown; Conscience — Betty Hughes; Voice of God — James Bray.

On the second approach McIlmoil had solved the difficulties — he counteracted the hard right turn tendencies with a steady left turn — and brought the drone onto the runway. It landed on the left side of the runway and angled to the right for a distance of 7,000 feet before it came to a stop. Thanks to the skill of these men — a drone was saved to fly another day. At the present time, NAF has ten flyable F9F-6K jet drones, seven Ryan KDA-4 Firebees radio controlled drones, and five Beechcraft KDB missile target drones, and four F6F Grumman Hellcats drones which are prop jobs.

A task committee of Community Council members has compiled and distributed 600 questionnaires this week to a random selection of Station tenants in all types of houses.

All questionnaires must be completed and returned by next Thursday, March 23, in the enclosed self-addressed envelopes to the China Lake P.O. Box 200. The return of all questionnaires will supply the committee with the information needed to submit an accurate report to the Rental Board by April 1. The task committee consists of Bob Biller, chairman; Joe Dinsmore; Dr. Herb Larsen; Cal Fallgatter; Dick Felton; Clara Erickson; and Hazel Coleman.

Bibles to be Displayed This Sunday in Chapel

Both modern and ancient Bibles, some of them printed in other than English and some brought to the desert by early California pioneers, will be part of a display in the East Wing of the All-Faith Chapel this Sunday.

This display will be open to the public after both morning worship services.

Attend Annual Science Fair Tomorrow	TEMPERATURES	
	Max.	Min.
Mar. 10	71	58
Mar. 11	71	58
Mar. 12	73	57
Mar. 13	76	42
Mar. 14	79	47
Mar. 15	60	47
Mar. 16	58	40

Damaged Drone Saved By Skillful NAF Pilots

Last week veteran NAF pilots LCDrs. Walt Henning, Andy Berthelson, and NAF drone aircraft controller LCDr. John McIlmoil, saved the taxpayer and the Navy an estimated \$100,000 by their quick thinking and skill when they safely landed an F9F-6K drone aircraft after it was hit by a missile over G-Range which damaged the drone's rudder controls.

\$100,000 is the estimated cost of an F9F and its conversion to radio control.

The drones are controlled from on the ground during the take-off period from a small control cart, known as a Foxcart, but once the pilotless craft is aloft its control is transferred to a control plane.

What was just another routine drone flight for ground controller McIlmoil last Wednesday as he lifted the F9F off the runway was to end two hours later in moments of anxiety for he and pilots Henning and Berthelson.

Things began calmly as the F9F was airborne and the two FJ-3 jets chase planes piloted by Henning and Lt. Bill Chaney took over control of the drone and began their climb to 26,000 feet above G-Range.

After the firing, Henning, who was flying as Charlie 1, closed in with his chase plane to bring the drone down to a lower altitude. It was then that he discovered the extensive damage in the tail area section.

Henning radioed Chaney, Charlie 2, and they started bringing the drone down to the 10,000 foot level, checking the drone's controls during the descent. At 10,000 they had checked it out satisfactorily and turned it over to Berthelson, Charlie Alpha, in a landing condition with wheels and flaps down for the approach.

Berthelson brought the drone down from 10,000 to 200 feet and at two miles from runway turned control over to McIlmoil for the landing.

McIlmoil made a control check and found that the drone instead of centering had a hard right tendency. He waved it off and called Berthelson to take control and bring it in again.

On the second approach McIlmoil had solved the difficulties — he counteracted the hard right turn tendencies with a steady left turn — and brought the drone onto the runway. It landed on the left side of the runway and angled to the right for a distance of 7,000 feet before it came to a stop.

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TOUCHING MOMENT—Everyman (Robert Pinney) pleads with Death (Ralph Claassen) for one more day in a dramatic scene from "The Summoning of Everyman" set for 8:15 p.m. Sunday night in the All-Faith Chapel. The drama is not a church service. —Bob Bellis Photo



TOURNAMENT WINNERS—Capt. W. W. Hollister presents the "Hollister Cup" to Earl Roby and Garry Stevenson, winners of the annual "Best Ball of Partners" tournament, with the approval of Golf Club proxy John Machowsky. Roby and Stevenson

won over field of 70 entrees in the 36-hole event which was played on the local course last weekend. The China Lake Golf Club Association established the "Hollister Cup" to honor Capt. Hollister for his dedicated support of golfing in this area.

Sports Slants

Roby-Stevenson Take Station's Golfing Title

Putting together four rounds of 32-31-32-32, Earl Roby and Gary Stevenson paired to demonstrate their supremacy over the local links. This marked the first running of the "Hollister Cup," a partnership event over 36 holes. They were followed by the teams of Billy Herron-Mel Morrison and Chuck Fritchman-Bob Kochman with the best ball scores of 128.

Saturday's round found the eventual winners playing a steady game two strokes off the pace set by Fritchman-Kochman who turned in the best round of the first day at 61. Five strokes off the pace was Herron-Morrison with a 66. Morrison turned in the best single effort of the day by earning a birdie on number 1 with a 135 yard chip into the cup.

The second day's play found Roby-Stevenson scrambling to overtake the leaders as Bob and Chuck continued their superlative golf for the next nine holes. However, the law of averages made its move and their score soared to 36 as they tied for second place with 128. Turning in the day's best round, Herron-Morrison earned a tie for second.

Volunteers Needed Progress on the nine hole extension is approximately one month ahead of schedule. The mains are now in and work is starting on the smaller piping. Water has been run through the main pipes and all appears satisfactory. There is still quite a bit to do and more volunteers are needed in order to take advantage of the time element.

Ladies Golf Doris Sarge won the March putting contest with fifteen putts. In the odd hole event, the winner was May Machowsky. Tied for second place were Reggie Hibbs and Jay Mueller. Nina Maxwell and Bernice Rice took top honors in the Hidden Partners tourney.

Volleyball Schedule Tuesday, March 21 Redeye vs Test Dept. 6:30 p.m. VX-5 vs Marine Barracks 7:30 p.m. AOD vs Bounders 8:30 p.m. Thursday, March 23 NAF No. 2 vs NAF No. 3 6:30 p.m. NAF No. 4 vs Personnel 7:30 p.m. AOD vs Test Dept. 8:30 p.m.

Women's Bowling Tourney Entries from Shina Lake and Ridgecrest seem to have fared equally well in the Women's Annual City Tournament. Final standings were tabulated in the following order: Team Event — Bud Eyre Chevroletettes, Hildreths, Hi-Lo's, and Kirby's. Doubles — Eileen Rivers and Nancy Banister, Pat Maddux and Ruth Huber, Jean Brown and Jeanne Thornburg, Jeanne Krausman and Betty Hart. Singles — Bette Guth, Virginia Owens, Marie L'Hommedieu, Ernie

Art Festival Attracts Keen Competition

Art appreciation was at its height last weekend as a large number of spectators visited the Art Festival held at the China Lake Community Center. Supported locally by the Desert Art League, the event was sponsored by the Kern County Parks and Recreation Department. County-appointed judges were Vivian Tucker, Chester Amyx and Norma McClure. The colorful array boasted some 600 paintings, thought by many to be the finest selection ever displayed. A beautifully set stage displaying objects of creative talent, including sculpture and mosaic crafts, divided the professional and non-professional entries.

Professional Exhibits In the professional gallery, visitors viewed contributions by some of our top talent. Displaying items from their collections were Elizabeth Anderson, Frank Breitenstein, Frank D'Leon, John Drow, Marcelle Engle, Elinor Field, Bruce Haig, Ed Hammerberg, Russ Huse, Richard Nazareth, Hazel Porter, Ruth Samons, Adeline Williams, Bruce Conner and Sylvia Winslow. Awards for distinguished work were presented for the first time by the Desert Art League. Winners were Merle Rivette, Henry Dubin and James Howell. Judges were Adeline Williams, Frank Breitenstein, and Marcelle Engle. The pictures voted most popular in the show were Pam Jacobsen's "Sun Dancers" and Barry Schilberg's "Footfalls."

County Festival Selections The first place winners in each division will compete in a county-wide Art Festival to be held in May at Bakersfield. Selected for this competition were the following entrants: Adult Division Barry Schilberg and Dolores Hoffman. High School James Freeman, William Lewis and Nancy Curtis. Elementary Hope Dietrichson, Jenny Reyes, Neil Ruben, Gay Austin, Gary Pittman, Ann Gates, Tonya Davis, Linda Anderson, Steven Schrieber.

AAUW Book Review Study Group will meet at the McAllister home, 510-A Essex next Monday at 1:30 p.m. Ruth Ohler will review "Out of Africa" and "Shadows on the Grass," both by Isaac Dinesen. The Social and Economic Problems Study Group will hold their meeting next Tuesday at 8 p.m. in the Zilmer residence, 501-B Lexington. Carolyn Lindberg will review "Escape From Freedom" and JoAnn Milburn will review "The Sane Society." Both books were written by Erich Fromm.

23 Foreign Students Tour Here Monday Twenty-three foreign students will tour NOTS Monday as guests of the Station and the China Lake Rotary Club. The students are from 14 countries which include Chile, Republic of China, England, France, West Germany, Holland, India, Kenya, Nigeria, Greece, Japan, Panama, Jordan and Argentina.

The tour is being sponsored by the Pasadena Rotary Club and hosted by the China Lake Rotarians. The students will be accompanied by Mr. and Mrs. G. Wyman Crane and Mr. and Mrs. Elwood Crane. Local Rotarians L. G. Garman and Clarence Weinland will act as guides during the students tour here.

Commissary Store Closes For Inventory The Commissary Store will close for inventory beginning March 28 at 12 noon and all day Wednesday, March 29. Business will be resumed at 10 a.m., Thursday, March 30.

Driving Tip of the Week When serving as a relief driver on a long trip, be sure you know the handling characteristics of the car. Get the "feel" of the car in turns, try the brakes and learn the positions of the wipers, lights and other controls before trying to maintain highway speeds.

THE ROCKETEER OFFICIAL WEEKLY PUBLICATION of the U.S. NAVAL ORDNANCE TEST STATION China Lake, Calif. Captain W. W. Hollister, USN Station Commander

Advertisement for Girl Scouts featuring a photo of a girl and the text 'GIRL SCOUT ROSE GARDEN'. Includes contact information for the station commander and staff.

What's Doing in Recreation Famous Hypnosis Expert Accepts Station Booking

By Jean Cone, Recreation Director Dr. Zarro, one of the world's leading authorities on hypnotism, is bringing his exciting stage show for a one day run to the Station Theatre on Saturday, March 25. A matinee will be staged for the youngsters at 1 p.m. The 10 cent charge will also include a movie. The evening performance is scheduled for 7 p.m., admission per person will be 25 cents. The internationally famous hypnotist will present his remarkable



Dr. Zarro

and hilarious demonstrations in hypnotism in which any persons in attendance may participate in the experiments. Dr. Zarro claims his feats are 100 percent authentic and offers \$10,000 to anyone proving that he used confederates in any of his tests.

New Policy Instituted In accordance with the recommendations made at the last Navy-Civilian Recreation Council meeting, a charge of 75 cents per person will be made for Station dances sponsored by Special Services. The charge was formerly \$1 for men. The new policy will be in effect at the adult Station dance to be held at the Community Center on Friday, March 24, featuring the 10-piece COMCRUDESPAC band. Reservations for groups of eight or more are being taken at the Community Center, Ext. 72010.

Cribbage Champs Winners of the Station-wide Cribbage tourney held last Monday were "Prissy" Williams, two-time champ from Test Department, and Chief R. M. Tims, NAF. Competing in the final play-offs were Don Strietzel, Propulsion Lab, and George Harrigal from Engineering. These tournaments are open to all Station personnel and are played the second Monday of each month.

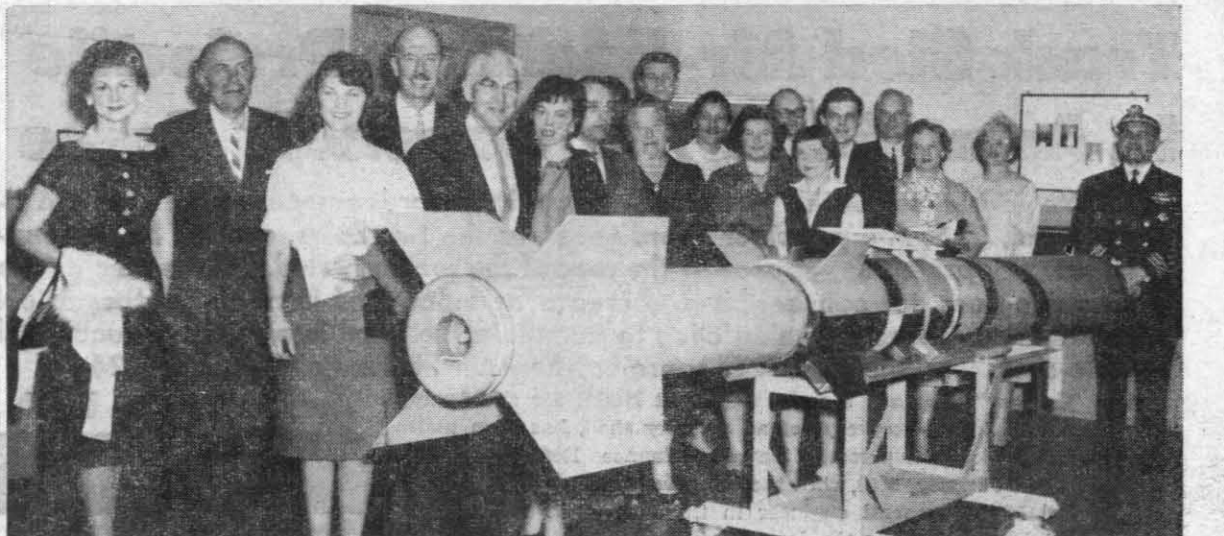
Chess Tournament In anticipation of the 1961 Armed Forces Chess Championship tournament, the China Lake Chess Club is sponsoring a local tournament for all military personnel. Tournament play will begin on April 6. However, all prospective players are urged to attend and participate in the weekly meet, in order to prepare for the coming competition. The Club meets each Thursday evening at 7 p.m. in the Community Center lounge. No entry fees or dues will be charged and assistance from experienced tournament players will be available.

In addition, the local Chess Club will award the military chess champion \$10 as first prize. For further information call Jean Cone, Ext. 72010, or Carl Bitzer, Ext. 8423. Skin and SCUBA Class A special meeting will be held at the Station pool on Saturday, March 25 at 10 a.m. for everyone interested in participating in the next skin and SCUBA diving class. There will be pool demonstrations of diving and an explanation of the training course and the club's requirements and functions.

April 1 has been set as the date for the initial training class. Diving students must have a current physical examination before being accepted. Physical exam forms will be available at the March 25 meeting. Classes are open to everyone 16 years old and over; minors must have non-responsibility forms signed by their parents. For further information contact

Advertisement for 'SHOWBOAT' featuring a list of shows and times for Friday, Saturday, and Sunday. Shows include 'Passport to China', 'Shorby Sherlock Orsh', 'Alpine for You', 'Capt. Marvel No. 11', '1001 Arabian Nights', 'Fanny Four Legs', 'The Grass is Greener', 'G.I. Blues', 'Hoppy Daze', 'Secret Partner', and 'Touche Pussycat'.

News From Pasadena



B-I-E DAY TOUR — Business-Industry-Education Day, sponsored by the Pasadena Chamber of Commerce, was observed at NOTS Pasadena last Friday with 18 teachers touring facilities and learning of our future occupational needs. School representatives shown standing by the ASROC missile are: Linda Cade, San Rafael Elementary School; Donovan Ballard, John Muir Senior High; Yvonne Engholm, Edison Elementary; William Glenn, Education Center; Donald Hill, Jackson Elementary School; Marion Hallickson, Elliot Junior High; Paul Trivers, Pasadena High; Dorothy Zimmerman, John Marshall Junior High; Doris Josephson, Education Center; Ralph H. Bush, Education Center; Aleen Plagge, Webster Elementary; Helen Williams, Cleveland Elementary; Frank Welch, Education Center; Jean Clark, Roosevelt School for Handicapped Children; Robert Carter, Wilson Junior High; Jack Davis, Pasadena High School; Rosalind Minnifield, George Washington Elementary; and Mildred Redford, Lincoln Elementary. Cdr. E. P. K. King, Technical Officer, greeted them and outlined activities and type of personnel needed in the future. Meeting with the teachers in the morning to discuss the role education plays in our society were Roberta Jogensen, Andrew Fabula, and Glenn Carley.

Victim Receives First Aid Treatment



FIRST AID INSTRUCTION—Bob Gratton is the victim whose broken leg is being treated in the final session of a First Aid Training Course at Foothill. Mrs. Lois Crosby instructs the class. Another class started last week under the supervision of Edward Sorver. Each class runs five weeks and each session runs for two hours. The classes and instructors are courtesy of the American Red Cross—one of many services provided by that organization.

New Building at Foothill Set For Occupancy

NEW QUARTERS—Chief Fred VanDenBrouck, Head of Physical Security, sees the finishing touches go on the exterior of his new office. The addition to the building, located West of the Main Gate at Foothill, is scheduled for completion within the week at which time he will move from Building 4 to the new location. The move will facilitate operations. The fence has been rerouted with the entrance to the new building located opposite the Credit Union.

Virginia Banister Leaves Station

After a total of 17 years with NOTS, Virginia Banister of Supply terminated last Friday, March 10. She was a Supervisory Procurement Agent with the Buying and Order Branch. Virginia first joined the Station as a WAVE at China Lake. On discharge from the Service, she switched over to civilian employment and was with China Lake in that capacity for five years. She was married at China Lake and in February 1951, transferred to Pasadena. Active in employee services, she has been Chairman of the Canteen Service Board for the past several years. With her husband, Arthur, and four-year old son Steve, Virginia resides in Covina. The display in Pasadena is under the sponsorship of the U.S. Naval Reserve Training Center.

Recent Emergency Brings Red Cross With 3-Hour Help

The Red Cross Blood Bank and First Aid Classes are well known to many. There are, however, many other areas in which Red Cross services are not so well known. For instance, right here in our own back yard Red Cross help was of invaluable service just two weeks ago. The case involved an enlisted man at San Clemente Island whose father had passed away. Within three hours of notification of the emergency, Red Cross had arranged for a flight from Los Angeles to Chicago and a connecting flight to Detroit. By the time the young man had gotten in from the Island, Red Cross had a check waiting for him at the Los Angeles International Airport. Fast action and there when needed!

The once-a-year fund drive for the American Red Cross will be held here at Pasadena next Friday, March 24 and Monday, March 25—two days only. Don't you take this opportunity to there when needed! You . . . You . . . and You!

Navy Combat Art Goes On Display To General Public

On display for a week beginning next Wednesday will be the Navy's famed traveling display of combat art, created during World War II and the Korean conflict. The public is invited to attend this free exhibit. Called "Operation Palette," the display consists of about 120 paintings, selected from 3,000 works of art created by combat artists. Beginning March 22, the display will be open from 1 p.m. to 9 p.m. daily through 30 March at the Singer Stores, 526 and 528 East Colorado Blvd., Pasadena. Plans to bring into being an official Navy collection of historical art were started in the months preceding the Pearl Harbor attack in 1941. Soon after the outbreak of war, the Navy commissioned a small number of ranking professional artists as the nucleus of what is now the Combat Art Section of the Navy Exhibit Center. These combat artists landed on the beaches with the first troops, lived in sub-zero climates, underwent strafing and bombing attacks and sweated in jungles as they graphically recorded military life from the viewpoint of the fighting man. Their work tells the story of the Navy in action. The display in Pasadena is under the sponsorship of the U.S. Naval Reserve Training Center.