

Summer School Program Begins Next Monday

The China Lake Summer School program will begin Monday, July 6, William L. Stokes Jr., Summer School Director, announced this week. The program will continue through Aug. 7.

Classes for pupils who will be in first grade through third grade next fall will be held at Richmond, Groves, Vieweg and Desert Park Schools. Classes begin at 8:10 a.m. and close at 11:40.

All children must have verification of polio immunization. Registration for the elective program on Monday in Murray School cafeteria will be as follows:

Fourth grade: 8 to 9 a.m.
Fifth and Sixth grades: 9 to 10 a.m.

Seventh and Eighth grades: 10 to 11 a.m.

There will be an additional registration from 11 to 11:30 a.m. for students who missed registering earlier in the morning.

Actual classroom work will not begin until Tuesday morning.

Registration for remedial classes has already been completed.

Bus Schedule

7:30 a.m.—Wherry to Murray School (Remedial Students) pick-up points: Wherry Office, Prospect and Toro, Sandara and Dorado.

7:45 a.m.—Capehart-site "B" to Murray School (Remedial Students) pick-up points: Knox Road and Burroughs Avenue, Knox Road and Stroop Avenue.

8:00 a.m.—Wherry to Murray School pick-up points: Wherry Office, Prospect and Toro, Sandara and Dorado.

8:20 a.m.—Capehart-site "B" to Murray School pick-up points: Knox Road and Burroughs Avenue, Knox Road and Stroop Avenue.

11:35 a.m.—Murray School to Capehart and Wherry drop-off points: Knox Road and Burroughs Avenue, Prospect and Toro, Wherry Office.

12:15 p.m.—Wherry and Capeharts to Murray School pick-up points: Wherry Office, Prospect and Toro, Knox Road and Burroughs Avenue.

3:35 p.m.—Murray School to Wherry and Capeharts drop-off points: Knox Road and Burroughs Avenue, Prospect and Toro, Wherry Office.

Propulsion Department Employee Awarded Ph. D. from Purdue U.

Richard J. Zabelka, an aerospace research engineer with the Propulsion Development Department, has been awarded a Ph.D. degree in mechanical engineering from Purdue University. Thesis engine to fly.

In addition, he conducted the initial design for the RAPEC I, II, and III catapults, NOTS' successful Rocket Assisted Ejection Catapult.

Holds M.S. from UCLA
Zabelka also holds a Master of Science degree in Engineering from UCLA which he acquired through study under the China Lake-UCLA off-campus program.

skin diving, hiking and camping, research, design, and development of high-speed planing boats.

He married Sally Birge of Seymour, Ind., in 1955. They now have two children, Steven Paul, 3, Karen Elizabeth, 14 mos., and reside at 213-B Wasp Rd.



DR. RICHARD J. ZABELKA

From _____ PLACE STAMP HERE TO _____



HONORED BY NAVY RELIEF — Chaplain R. C. Fenning presents Rhea Blenman a Navy Relief Society Certificate of Service signed by CNO, Adm. David L. McDonald as Capt. Blenman and Carrie Reck, chairman of local NRS interviewers, beam their approval. In addition, Rhea received the Gold Meritorious Service pin, the Navy's highest award given to Navy Relief volunteers. Presentation was made at "O" Club reception following Change of Command ceremonies.

Community News

MUSEUM SUMMER YOUTH PROGRAM REGISTRATION For those children who were unable to register last week for the Summer Youth Program sponsored by the Maturango Museum, a supplementary registration period has been scheduled for Monday evening, 7 to 8 p.m., in the Museum building. Applicants for the free eight-week program, beginning July 10, must be accompanied by their parents. For more information, call Barry Boyer at FRontier 5-2107.

TERREBONES TO LEAD FLEET RESERVE ASSN. HERE Retired Chief T. L. D. "Terry" Terrebonne has been elected president of the Fleet Reserve Association's China Lake Branch 95 for the coming year. His wife, Moneta, will lead the Ladies Auxiliary Unit.

Other officers to be installed with them on Sunday, July 19, at a 4 p.m. buffet dinner at the Acey Deucey Club, are Jake Porter, vice president; Thomas Creasey, secretary; George E. "Tommy" Thompson, chaplain; Terry Driver, master-at-arms; (in the auxiliary) Verna Wheeler, vice president; Grace Driver, secretary; Dorothy Stands, treasurer; Phalba Hatzenbuehler, chaplain; Martha Stainaker, sergeant-at-arms, and Nancy Bizon, parliamentary.

ASTRONOMICAL SOC. 'OPEN HOUSE' AT NEW CLUBHOUSE Everyone is invited to an "Open House" meeting of the China Lake Astronomical Society next Monday as the organization "dedicates" its new clubhouse at 401-A McIntyre. The meeting, starting at 7:30 p.m., will include screening of movies of the five smallest planets in the solar system; plans for trips to Griffith Planetarium and Mt. Wilson Observatory, and the presentation of pictures of a galaxy, a nebula, a planet or a cluster of stars.

SHOWBOAT

FRIDAY JULY 3

"DR. CRIPPEN" (98 Min.) Donald Pleasance, Samantha Eggers 7 p.m. (Mystery) Guilty or not guilty? Did he really murder his wife to further his torrid romance with his office secretary? You'll have to decide after hearing this case. Samantha is gorgeous. (Adult) Short: "Cannery Woe" (7 Min.)

SATURDAY JULY 4

MATINEE "SMILEY" (91 Min.) Ralph Richardson 1 p.m. Short: "Tree Sprae" (7 Min.) "Jungle Drums of Africa Chapter No. 9" (13 Min.) EVENING "MAN OF THE WEST" (98 Min.) Gary Cooper, Julie London, Lee J. Cobb 7 p.m. (Western in Color) Former gunman, a card sharp and a dance hall girl are stranded at a train stop and meet this former gang who seek his reluctant help. This is a rough and tough as they come western. (Adult) Short: "Jerry's Diary" (7 Min.)

SUNDAY-MONDAY JULY 5-6

"MUSCLE BEACH PARTY" (94 Min.) Frankie Avalon, Annette Funicello 7 p.m. (Comedy in Color) "Surf's Up" in this frolic about a group of surfers who get crowded by gymnasium musclemen, and a wealthy yachting beauty who makes a play for Frankie. (Adults and Young People.)

TUESDAY-WEDNESDAY JULY 7-8

"CAPTAIN NEWMAN, M.D." (126 Min.) Gregory Peck, Tony Curtis, Angie Dickinson 7 p.m. (Drama Comedy in Color) All the humor and drama of a psychiatric ward in a desert Air Force Base as Greg grounds many men much to the C.O.'s chagrin and Tony promotes nurse, Angie. Don't miss this one! (Adults and Mature Youth.)

THURSDAY-FRIDAY JULY 9-10

"KISSIN' COUSINS" (97 Min.) Elvis Presley, Arthur O'Connell 7 p.m. (Comedy in Color) Pappy won't lease his mountain for a U. S. Missile site so Lt. Elvis is assigned to persuade him. The army moves in and so do the man-starved Kitty-hawk girls. Dogpatch swings. (Adults, Youth and Children.) Short: "Salt Water Tabby" (7 Min.)

LCdr. Lewis Is New ComAd Officer Here



LCDR. W. W. LEWIS

Lieutenant Commander William W. Lewis, Jr., formerly attached to the Guided Missile Cruiser USS Columbus, has assumed duties at China Lake as Command Administrative Officer.

He relieved LCdr. Phillip F. Mohr who was retired in ceremonies here Tuesday morning.

A native of South Carolina who now regards Atlanta, Ga., as his permanent home, LCdr. Lewis was graduated from the U.S. Naval Academy with the class of 1948. His subsequent duties have included tours at the New York Naval Shipyard and the Columbus.

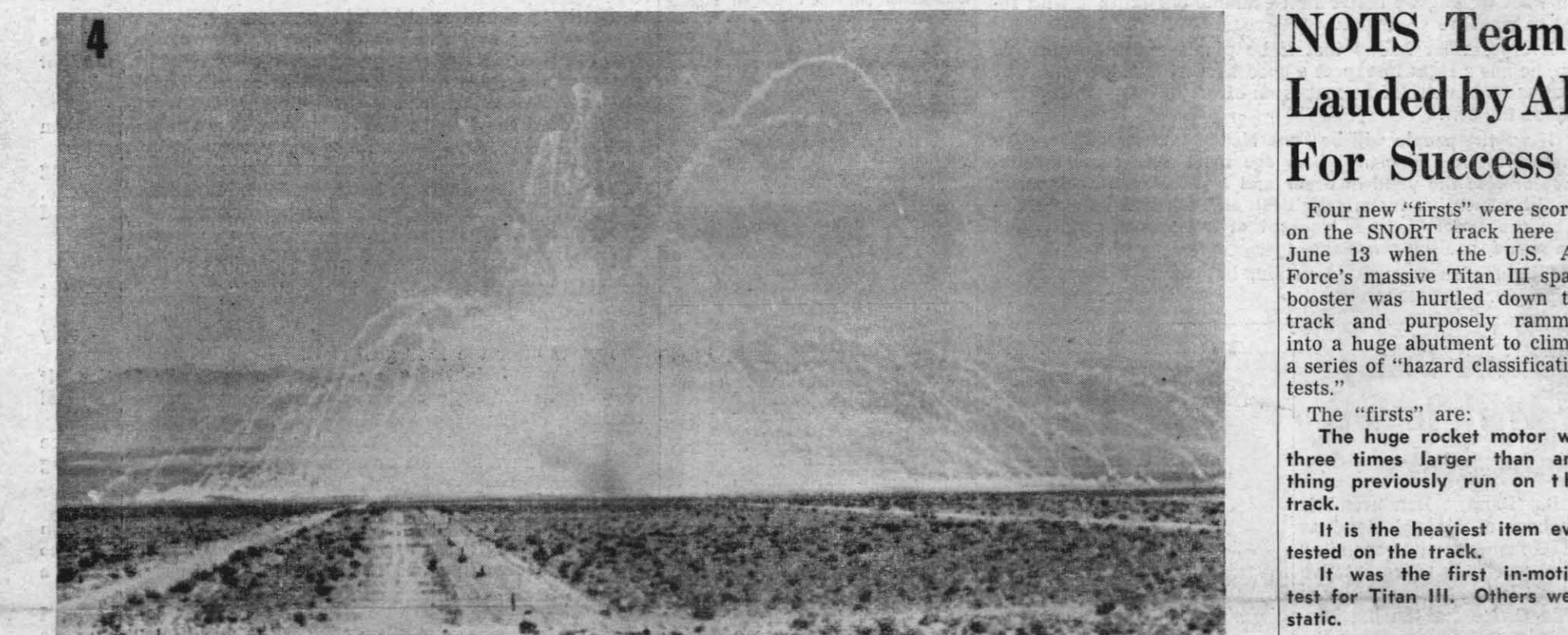
Married to the former Wanda Nesbit, a Naval Reserve Lieutenant Commander, LCdr. and Mrs. Lewis reside at 506-B Essex Circle.

THE TITAN III TEST



IGNITION plus three seconds, Titan III churns up desert as it roars along SNORT toward target. IMPACT sends up spray of burning propellant as the huge rocket motor burrows into target. CHUNKS of propellant spew higher and wider over the desert floor and mushroom cloud forms.

SNORT Sets Four Records



MASSIVE FOUNTAIN of flaming debris arches over the range after the break-up had reached its peak. Distance from left to right edge of picture is about one mile. Pictures were taken from SNORT HQ about four miles from target.

NOTS Team Lauded by AF For Success

Four new "firsts" were scored on the SNORT track here on June 13 when the U.S. Air Force's massive Titan III space booster was hurtled down the track and purposely rammed into a huge abutment to climax a series of "hazard classification tests."

The "firsts" are: The huge rocket motor was three times larger than anything previously run on the track.

It is the heaviest item ever tested on the track.

It was the first in-motion test for Titan III. Others were static.

This was the first time Titan III was sent into free flight after leaving the end of the track.

The Titan III solid propellant motor segment is 10 feet in diameter and 10 feet long. Equipped with forward and aft closures and a nozzle, the 128,000-pound motor roared down the track under its own quarter-million pounds of thrust accelerating to 1.3 times the force of gravity in the first three-quarters of a second.

Formidable Target The segment was anchored to a 9000-pound test sled for the 3850-foot run on the track. It then went another 100 feet in free flight before impacting the formidable, especially built target. The target consisted of a wall of reinforced concrete, six feet thick, 20 feet long and 20 feet high. Immediately behind this was a 20-ft. by 20-ft. steel plate three inches thick. And behind that was a mound of earth fill equally as high and approximately 50 feet long.

At impact the motor was traveling 435 miles per hour. Loaded with approximately 92,000 pounds of propellant at the start of the run, the motor had more than 80,000 pounds unburned at impact. About 10,000 pounds was consumed during the entire run which took 13.2 seconds from ignition to impact.

Examining the target area after the fire department had extinguished small brush blazes, the official observers noted that the thick concrete abutment had been reduced to rock and pebble size, and strewn over a wide area.

ROCKETEER FROM UNDER THE SEA TO THE STARS Naval Ordnance Test Station, China Lake, California Vol. XIX, No. 27 Friday, July 3, 1964

Little League Sponsors Gala July 4th Program

Another gala Fourth of July program, sponsored by the Little Leaguers will escort the China Lake Little League, awaits Station personnel Saturday evening.

The big fireworks display will begin at about 9 p.m., following a series of colorful events scheduled by officials and players of the Little League.

The Independence Day ceremonies will begin at 7 p.m. with the raising of the Colors and playing of the National Anthem at Diamond No. 4 in the Blenman Youth Park, corner of Richmond Rd. and Halsey Ave.

At 7:15 Little League President Jim McGlothlin will welcome the Independence Day crowd.

After which Station Commander Capt. Leon Grabowsky is expected to make a few brief remarks.

Then the vice presidents of the Little League will present certificates to team sponsors.



Federal Pay Hike

Approximately 3000 per annum Federal employees at China Lake and Pasadena can expect a pay raise soon. The Senate was expected to pass the Federal pay hike bill yesterday.

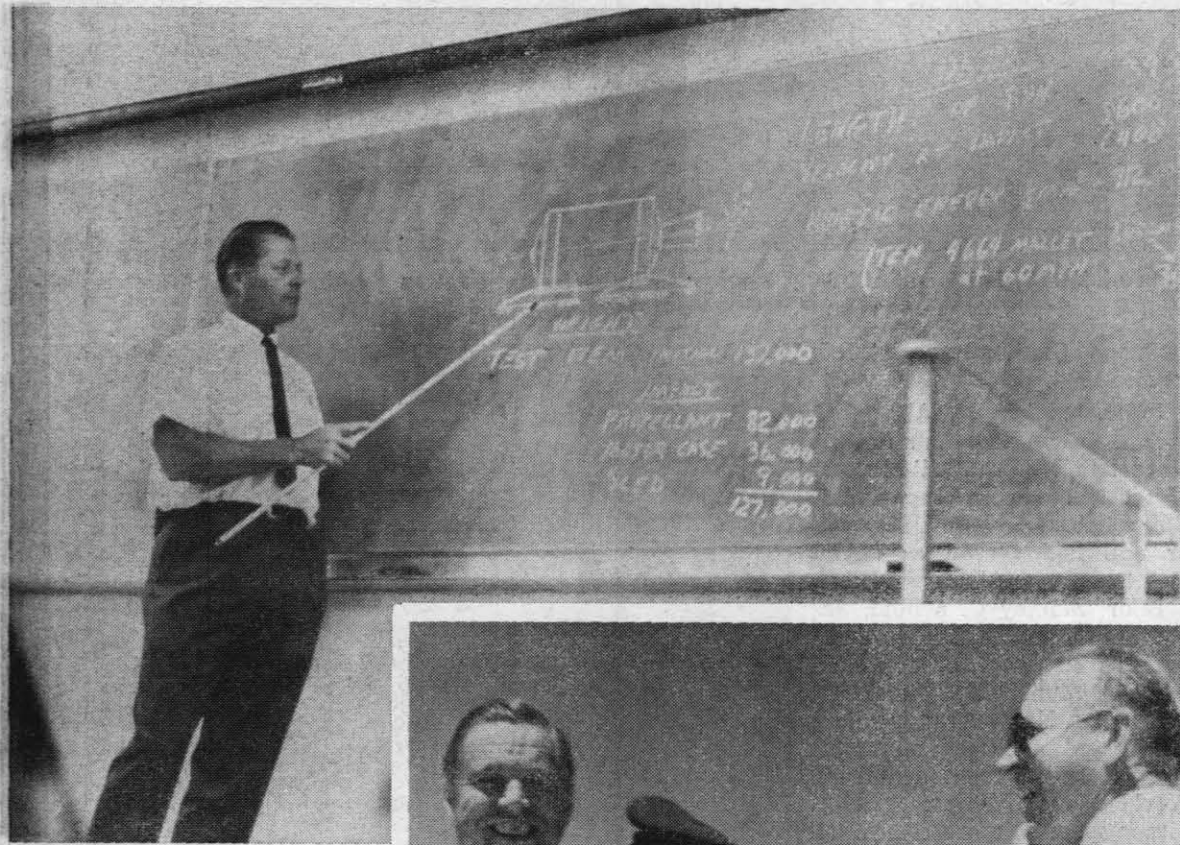
Congressmen will get a \$7500 per year pay raise. But their hikes will not become effective until Jan. 1, after the November elections. Federal workers will get theirs immediately after enactment.

CROSSWORD PUZZLE Answer to Previous Puzzle ACROSS 1-High mountain 2-Near plant 3-Split 4-Flowers 5-Symbol for silver 6-Look fixedly 7-Ordinances 8-On the ocean 9-Indefinite article 10-Father and mother 11-26 II 12-Above 13-Think 14-Note of scale 15-Pronoun 16-Burmeses demon 17-River in Wales 18-Tests 19-Pronoun 20-Again 21-Remainder 22-Cover 23-Visionary 24-Note of scale 25-Parent (colloq.) 26-Sea-precious stone 27-Angry 28-Note of scale 29-New 30-Occupying a chair 31-Mythological spirit 32-A stata (abbr.) 33-Exist DOWN 1-Sea in Asia 2-Theater box 3-Liquid measure (abbr.) 4-Essence 5-Plague 6-Folded 7-East Indian (abbr.) 8-Girl's name 9-Climbing plant 10-Suitcase 11-Conjunction 12-Steamship (abbr.) 13-Tear 14-Sinian 15-Wild buffalo of India 16-Bishopric 17-Flower 18-For fear that 19-Leave out 20-Object 21-Simple 22-Conjunction 23-Insect 24-Have on one's person 25-Bitter vetch 26-Put in position 27-Collect 28-Matched 29-Danish measure 30-Hebrew measure 31-Broad 32-Conjunction 33-Wooden pin 34-Babylonian deity 35-Symbol for nickel 36-Symbol for tantalum 37-Conjunction 38-Wooden pin 39-Babylonian deity 40-Symbol for nickel 41-Symbol for tantalum

THE TITAN III SNORT RUN - 13.2 SECONDS FROM IGNITION TO IMPACT!



Action starts with photo at far right in this sequence taken with the Test Dept.'s 35 mm. Photosonic camera, 1100 feet from target, at about 4500 frames per second.



AT BRIEFING prior to the run, Hal Richey, NOTS director of the Titan III test, explains various statistics to the official observers.

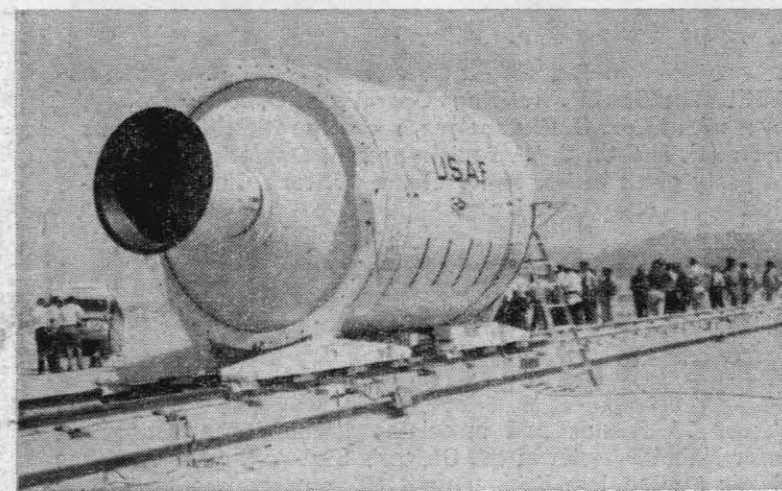


RIGHT: L. G. Garman, Head of the SNORT Division of NOTS Test Dept., is congratulated by former NOTS man, George Todd (left) now with Aerospace Corp., after the successful track run.

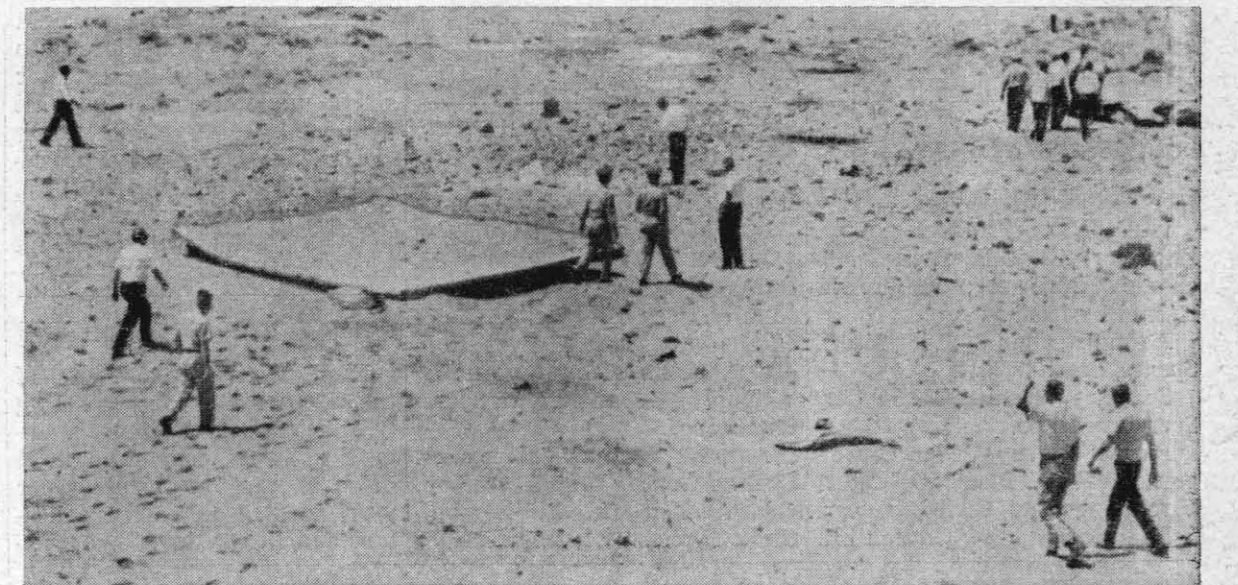


NOTS, Air Force, NASA, contractor personnel and research scientists from throughout the nation line rail of SNORT observation platform to watch the "shoot."

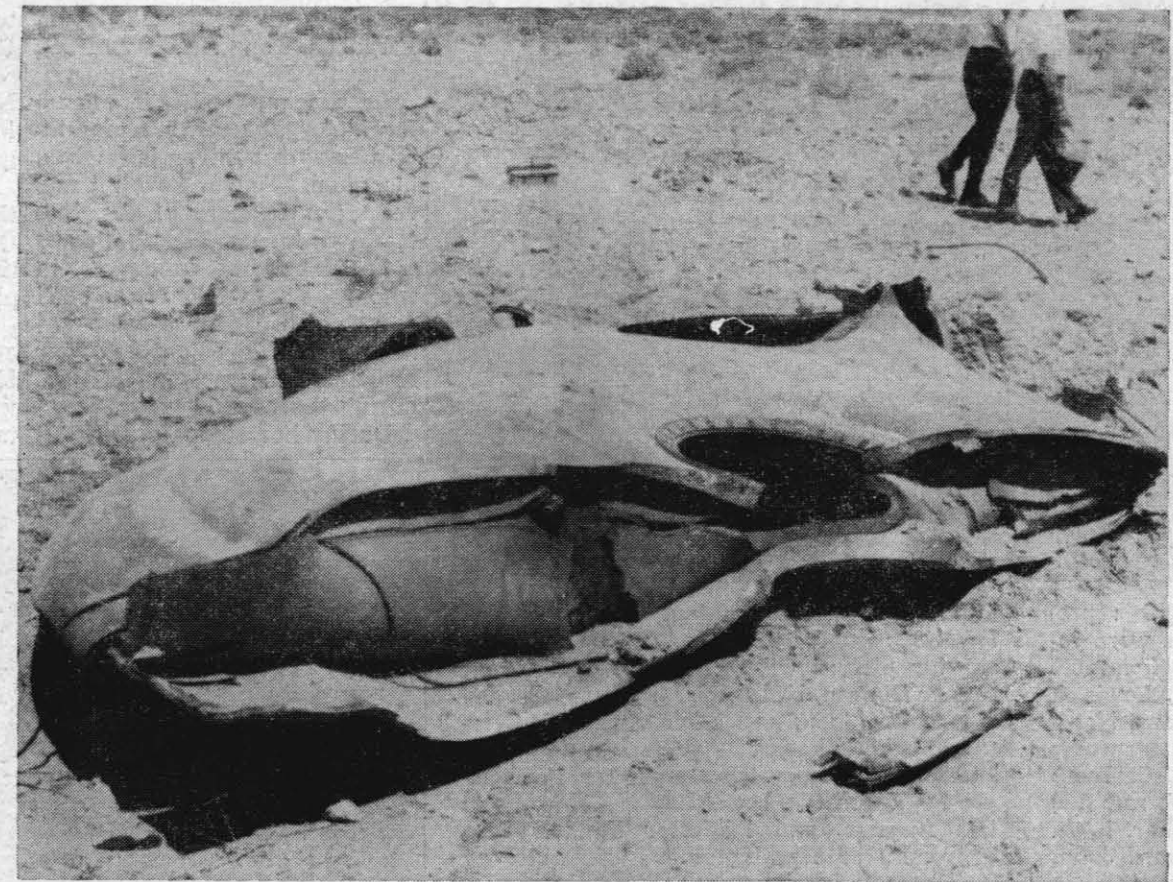
U. S. Navy
Photos by
Seth Rossman, PHAN



FULLY-LOADED Titan III is inspected by observers after the morning briefing.



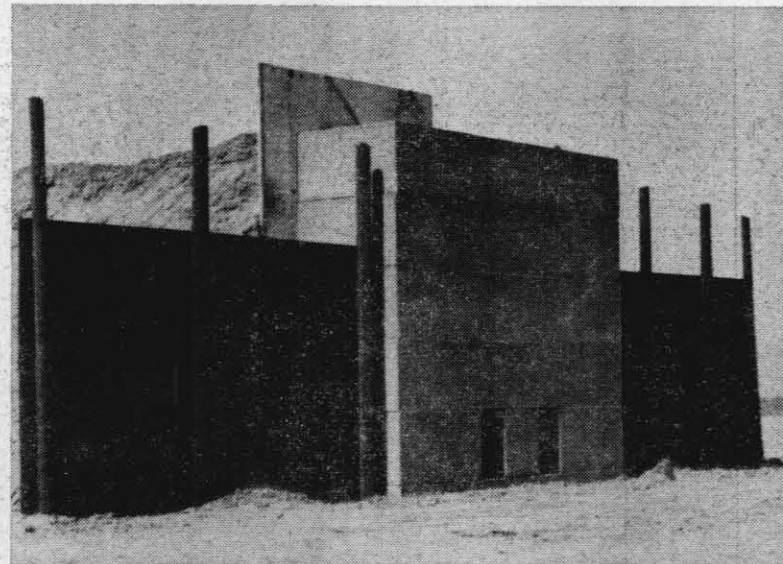
STEEL PLATE, 20-by-20 feet and three inches thick, was hurttled about 200 yards beyond its original target position.



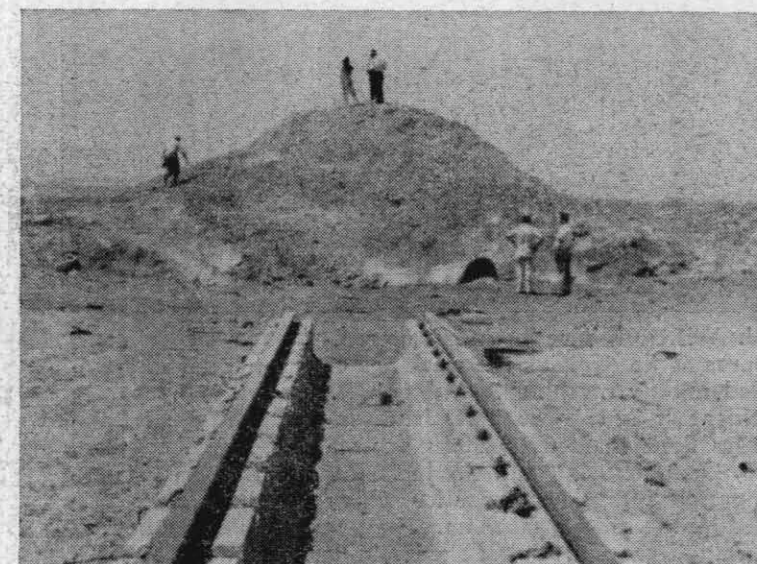
FORWARD WALL of the motor segment landed about 50 yards beyond steel plate, or 250 yards from target site.



DESERT SAND was solidified into glass by intense heat of burning propellant.



TARGET was comprised of 20-by-20 ft. wall of steel-reinforced concrete, six feet thick, backed by 20-by-20 ft. steel plate, three inches thick, and earth fill. Wooden walls flanking concrete were merely to hold back the earth fill.



AFTER the test, only part of the earth fill remains, and a crater contains chunks of the disintegrated concrete target and pieces of the motor segment. Steel plate was thrown over the earth fill. It buckled, but did not break up.



NOZZLE of Titan segment lies in crater created at target site.



EDWARD G. JONES BMI (DV), USN, received oath of enlistment from CWO-4 D. J. McCafferty, Recovery and Salvage Officer, at the NOTS Long Beach Facility. Jones, presently attached to the Diving Division, re-enlisted for six years. He arrived on station in October, 1963, from duty aboard the USS Kittiwake (ASR 13) where he served in a diving billet for five years.

NOTS Pasadena

VIRGINIA E. LIBBY — EXT. 638

\$\$\$ Dollars \$\$\$ Not Pennies For Your Thoughts!

Beneficial Suggestion Awards of \$15 each were recently awarded to two Public Works people. Vickey Hewitt, Fiscal Accounting Clerk, suggested a sign reading, "Caution, Pedestrians and Vehicles," be installed near Bldg. 11 and the transportation area, thereby reducing a hazardous traffic area.

Paul E. Walsh, Truck Driver, H.D., was rewarded for suggesting "Blocks for Hydraulic Hoist." Bumpers were installed on the trucks to protect the equipment and as a safety measure also by preventing the hoist motor starting up and raising the hoist accidentally.

Thorkel H. Jensen, Publications and Photo Branch Head, thought up \$45 worth when his idea on photocopying was put into effect.

PERSONNEL STATISTICS

New Employees
 UOD—Ronald Rodeman, Civil Engineer; Gary D. Drage, Mechanical Engineer; Robert L. Byer, Physicist.
 Administration — Virginia C. Spears, Clerk Typist.
 Supply — Bernice D. Snyder, Secretary-Steno.
 Public Works — Glen C. Geiger, Heating Plant Operator; Virgil Anderson, Civil Engineer; Engineering — Gordon B. Levy, Electrical Engineer.

Terminations
 Public Works — Aubrey V. Burks, Heating Plant Operator; John W. Gray, Electrician; Glenn A. Lindquist, Truck Driver; Robert M. Catlin, Cable Splicer.
 Administration — James A. Cherry, Guard; Bert L. Carlson, Guard; Margaret L. Kendall, Clerk Typist.

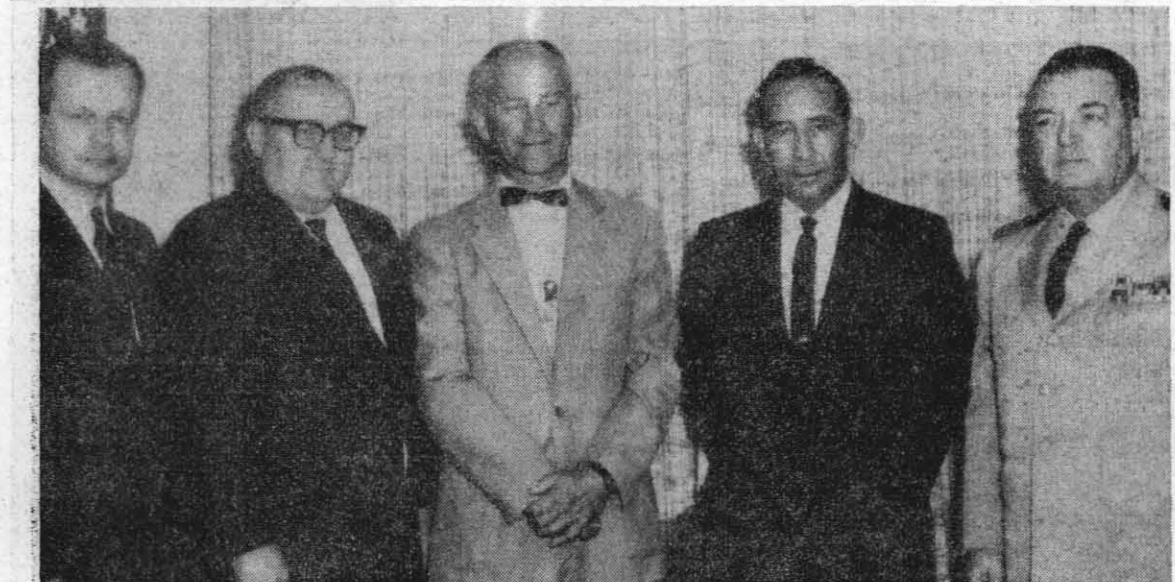
SAFETY STRESSED

Each of the 13 chapters of the Engineering and Grading Contractors Association maintains a safety committee and holds at least one meeting per year devoted to safety education and instruction.



EIGHTEEN SUMMER EMPLOYEES representing 13 colleges and universities were recently conducted on a station orientation tour. Front row (l-r) are Robert Parker, Lewis & Clark; Thomas Bowles and Thomas Nordstrom, L. A. State; Richard Brown, Stanford; Tenny Keil, Whitman; Joel Young, CalTech; and Robert Whelchel, Purdue. Back row (l-r) are James Mann, USC; Leslie Walker, L. A. Poly; Joel Seidman, Stanford; Edward Jahn,

UCLA; Donald Chivens, CalTech; Gerald Tarlow, USC; and John Diebel, CalTech. Not present for picture were Lee Chase, Berkeley; Arthur Duncan, UCLA; Roy Erickson, University of Michigan; and Lynn Garner, University of Utah. The young professionals also visited Morris Dam. Reporting since the tour are Felix Venable, University of California at Los Angeles, and Professor Emmett Day, University of Washington.



LENGTH OF SERVICE PINS ceremonies were recently attended by (l-r) D. J. Wilcox and D. A. Kunz; recipients—Alfred O. Fey and Luis Marquez; and Captain G. H. Lowe. Fey marked his 30-year milestone in federal serv-

ice, having been with NOTS the last 15 1/2 years; while Marquez has been with NOTS for 9 years and now celebrating his 20th year in government service. Both are employed with the Range Branch, UOD.



MABEL DRESSLER, retiring Operations Office secretary, shown with LCdr. O. F. Rapelyea, recently retired Operations Officer (1), and Lt. C. W. Amick, present Operations Officer, at a party given in her honor at the Officer's Club, Los Alamitos.

Officers Host Retirement Party For Mabel Dressler

About 75 friends and associates attended the retirement party for Mabel Dressler at the Officer's Club at the Los Alamitos Naval Air Station last Friday night. The party was hosted by military officers with whom she worked.

While her primary job was Secretary to the Operations Officer, she also made herself assistant to all NOTS military at Pasadena, Long Beach, and San Clemente Island.

Prior to her employment at NOTS in 1949, Mabel was a legal secretary in the Los Angeles area.

During her tour of duty with the Navy, she has received two Outstanding Performance Ratings and three Superior Accomplishment Awards.

For the dedication to duty and the warm friendliness which Mabel has always displayed, she will be greatly missed by military and civilians alike.



D. J. WILCOX, Head, Underwater Ordnance Department, gestures as he explains the workings of the numerically-controlled milling machine to Malcolm P. Ferguson, Corporate President of Bendix, as J. H. Jennison, Head, Product Engineering Division (center) looks on; and Fred A. Anderson, Head, Manufacturing and Products Engineering Branch (extreme right), displays propeller which has just been completed by the milling machine. The machine is controlled by a Bendix Dynapath Unit. Shown in background are C. G. Beatty, Head, Torpedo Development Division; and David H. Brown, General Manager of Bendix, North Hollywood. Other visiting Bendix executives were George E. Stoll, Director and Executive Vice President, and Richard C. Fuller, Vice President and Group Executive, Bendix, North Hollywood.

Service of 8 Officers Spanned Nearly 200 Years

Ceremonies Mark End of Navy Careers

Nearly 200 years of career Navy service drew to a close here Tuesday with the retirement of eight local officers whose assignments in aviation, surface ships and submarines had ushered in an era of nuclear power.

Captain Charles Blenman, Jr., senior member of those ending their Navy careers, completed 34 years, starting at the U.S. Naval Academy in 1930.

His initial sea assignment came in the cruiser, USS Chester and he subsequently won aviator wings at Pensacola in 1938.

BuWeps and Com11ND

Letters from the Chief of Bureau of Weapons and Commandant of the 11th Naval District, read at retirement ceremonies by Captain Leon Grabowsky, Station Executive Officer, lauded the retiring four-striper's many contributions to the Navy and the dedication represented by his long years of service.

Captain Grabowsky assumed interim command here, pending the arrival of Captain John I. Hardy from the USS Hornet in early August.

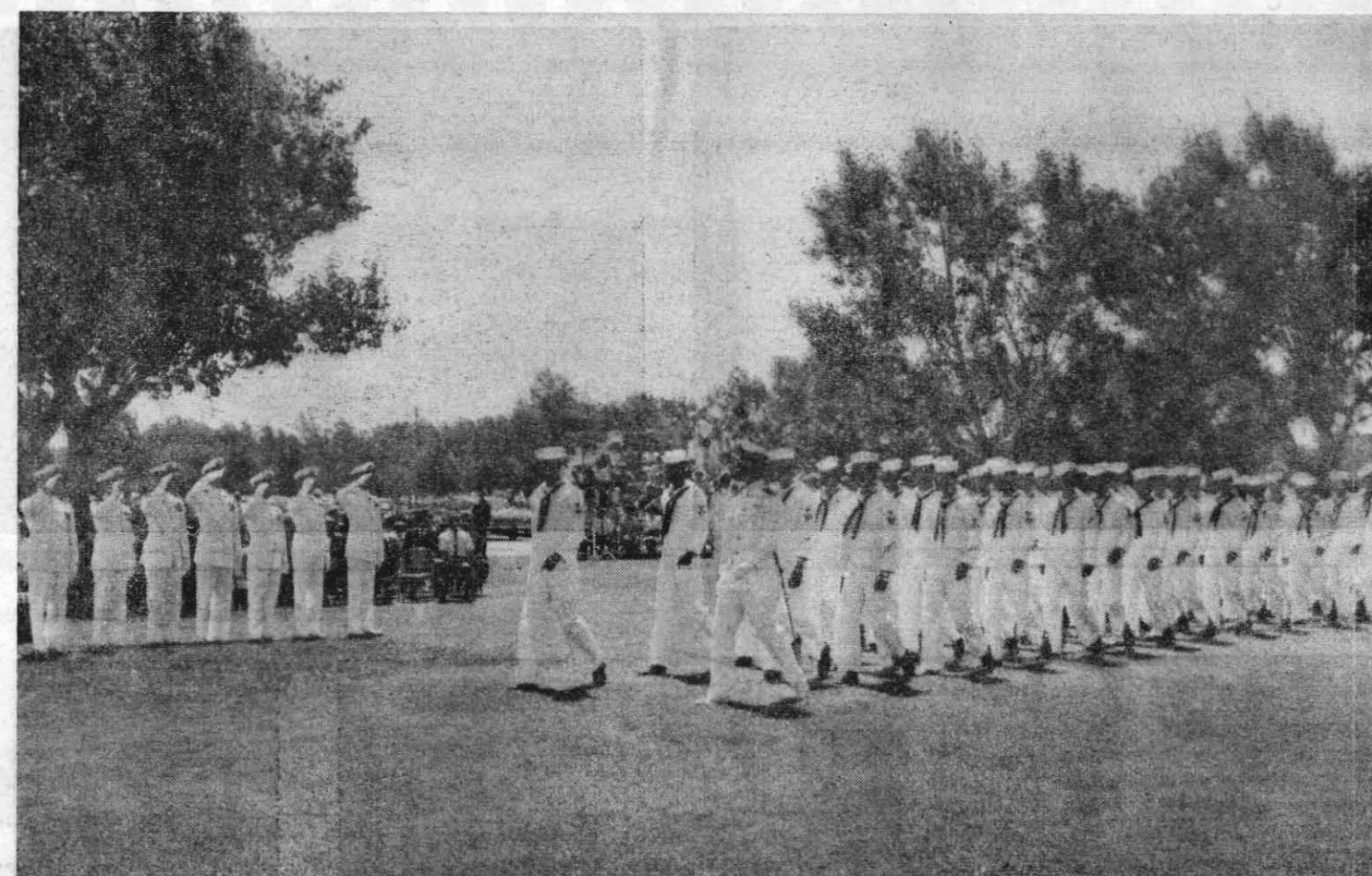
Addressing an audience of military and civilian dignitaries, families of those retiring and formations of China Lake military personnel, Capt. Blenman called his retirement "graduation," thanking those at China Lake who had served him during his tenure since mid-1961.

He called for the "continued support" of China Lake's military and civilian personnel for his successor.

Pass in Review

The final gesture of respect from his command came as a "Pass in Review" by officers and men of NOTS and Naval Air Facility units.

The Navy band attached to Commander, Air Force, U. S. Pacific Fleet played traditional strains of "Auld Lange Syne" and closed the ceremony with "The Navy Hymn."



RETIRING OFFICERS return salute of NOTS, NAF and VX-5 troops passing in review to climax Tuesday's ceremonies on field in front of Administration Building. A reception followed at the Commissioned Officers Mess.

Earlier in the morning Tuesday, LCdr. Adolph Hengl, who came to China Lake to serve with Air Development Squadron-Five as Maintenance Officer until his retirement this week, ended 28 years of service. Ceremonies were held at Armitage Field in his honor.

LCdr. Laurence M. Ellefson, Air-to-Ground Weapons Officer since his arrival here in early 1960, drew special praise from Capt. Blenman, for his "many contributions to NOTS."

"NOTS is fortunate to have the continued services of Commander Ellefson," the Capt. remarked in reference to employment which Ellefson has accepted here.

Ex-Submariner

LCdr. Robert G. Douglas, Military Assistant in Research Department and former skipper of two submarines, had been graduated from Annapolis with the class of 1944.

He had come here from duties with the U.S. Naval Underwater

Ordnance Station, Newport, R.I., in mid-1962.

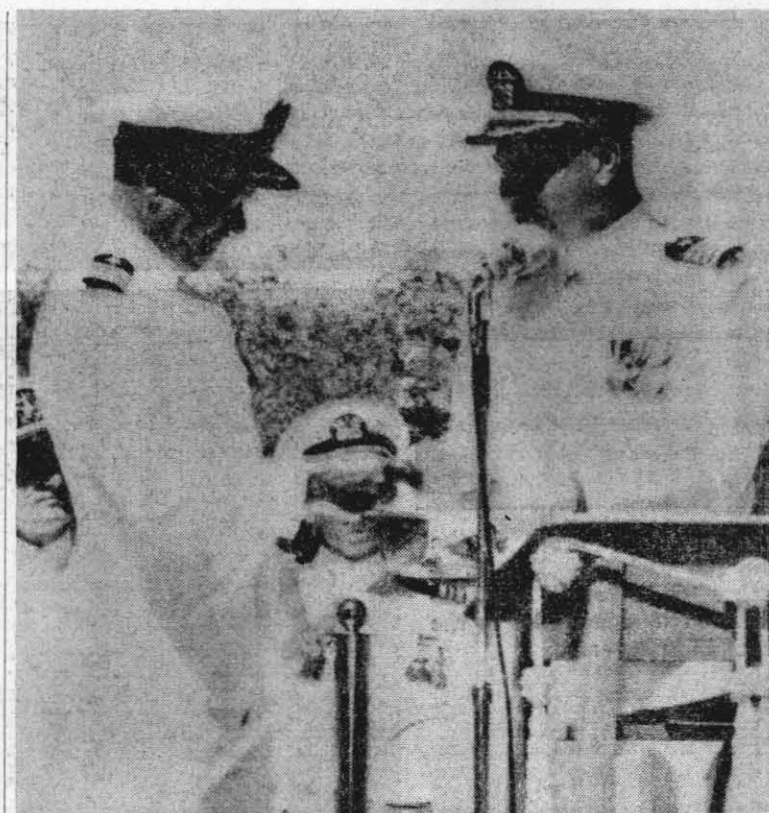
LCdr. William H. Abney, attached to the Naval Air Facility since late 1962, ended 22 years of service. He had reported to China Lake from the USS Ranger and had served as NAF's Maintenance and Safety Officer.

LCdr. Stanley C. Schold, Sr., another NAF officer, had reported here in Aug. 1962 and served as Administrative and Legal Officer. A Naval Aviator whose assignments included numerous Pacific combat missions during World War II, LCdr. Schold's career spanned more than a 20-year period.

ComAd Officer

Former Commanding Officer of the NOTS Enlisted Personnel Division and since 1963, Command Administration Officer, LCdr. Phillip F. Mohr, closed out his 21-year Navy career. He had reported to China Lake from duties aboard the USS Caliente.

Lt. Edward V. English, Spe-



COMMENDATIONS from BuWeps and Com11ND are presented to retiring ComNOTS, Capt. Charles Blenman, Jr. (left) by his relief, Capt. Leon Grabowsky.

cial Services Officer for NOTS since arriving here in mid-1962, had joined the Navy as an enlisted man 24 years ago. A veteran of cruiser-destroyer duties, Lt. English participated in 17 major Pacific theater engagements during World War II. The ceremonies that accompanied the change-of-command and retirement included a fly-over salute by a trio of NAF planes.

Blenman Portrait

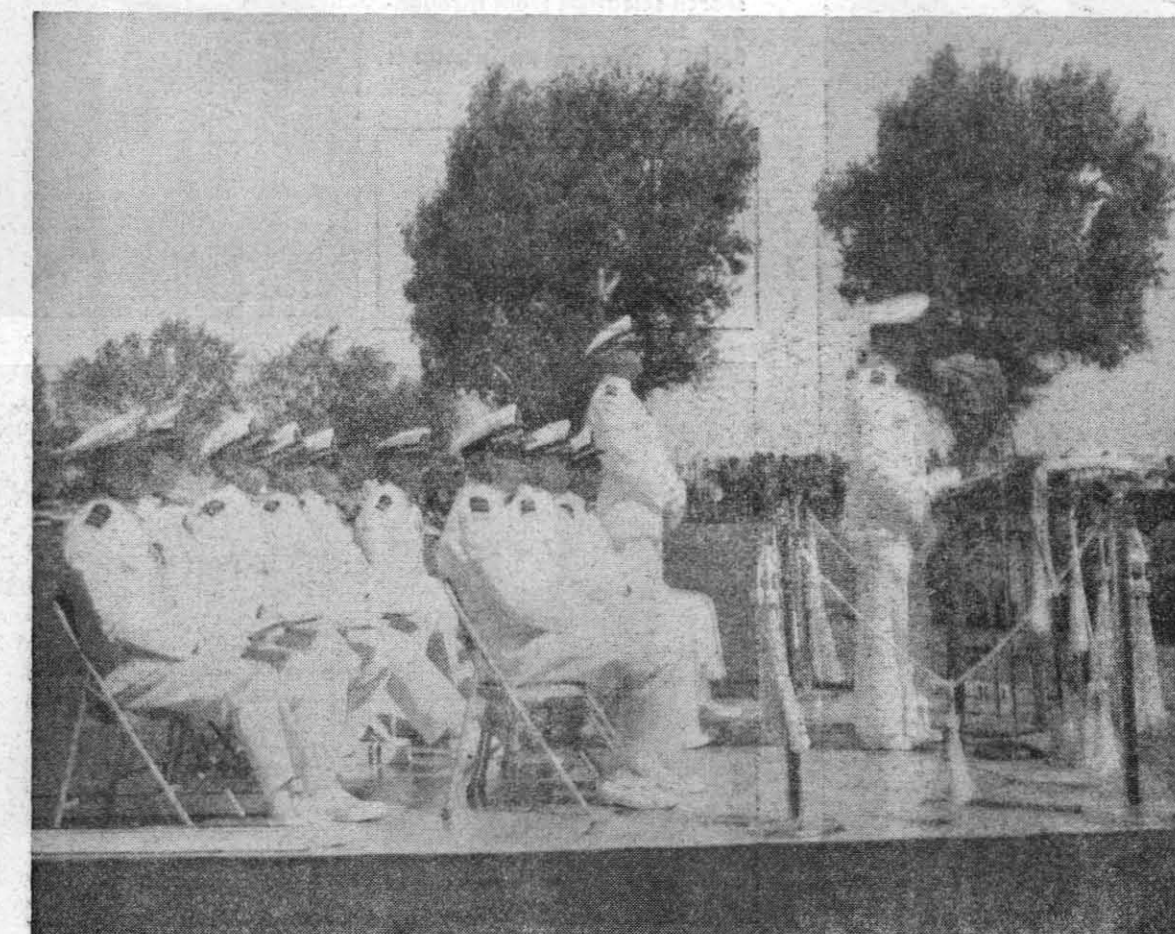
The portrait of Capt. Charles Blenman Jr. which appeared on the front page of last week's Rocketeer was taken by Bill Fettkether of the Presentations Division of the Technical Information Dept.

Will Forman on TV

Will Forman, design engineer of the Engineering Dept., will be interviewed on the CBS-TV show, "Panorama Pacific," next Thursday, July 9. The show is on from 8 to 9 a.m., Channel 2. Forman will talk about the French diving saucer, "Soucoupe."



LCDR. ADOLPH HENGL was retired in ceremonies at Armitage Field.



CAPT. BLENMAN addresses crowd of military and civilian dignitaries attending the retirement ceremonies. In back row seats are other retirees. In front row are Chaplain

Robert C. Fenning, Capt. Leon Grabowsky, Chaplain Joseph A. Costa and Capt. Floyd F. Reck (standing). Each retiree was presented a U. S. flag.