

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XIII; NO. 19

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

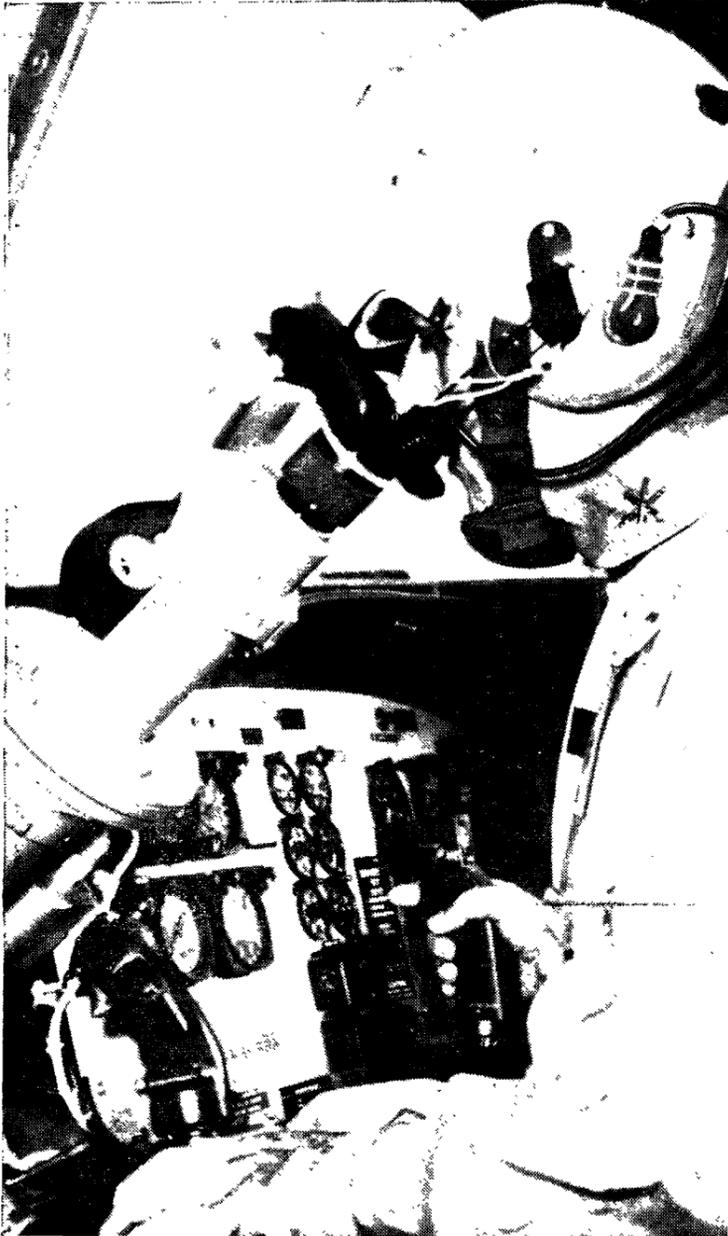
SEPTEMBER 16, 1964

Arsenal-Wide

Spot News

Dial 112

Army Tries Missiles On Chopper



SIGHTS DELIVERED

Experimental sights for helicopter use of two of the Army's newest anti-tank missile systems have just been revealed.

Contractors for the Shillelagh and TOW missiles have delivered the sights to the Army for flight testing and evaluation.

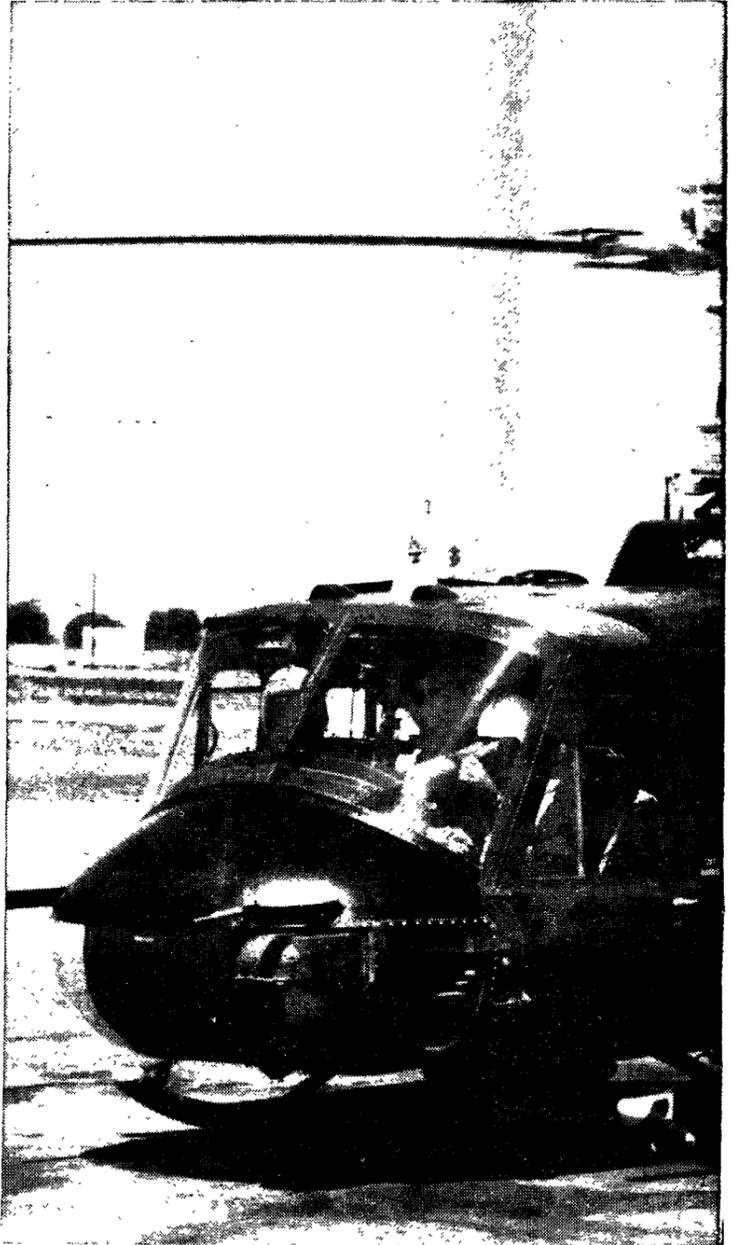
Shown on either side of this column are pictures of the new sights. Stories on each are below the pictures.

DA

STABLE VIEW — Lt. Col. Austin F. Epsaro, of the U. S. Army Aviation Test Board at Ft. Rucker, looks through stabilized sight developed by Aeronutronic Division of Philco Corporation. The helicopter was outfitted with the stabilized sight and turned over to the U. S. Army Materiel Command in ceremonies at Aeronutronic's Newport Beach, Calif., headquarters. The sight isolates a high-power telescope from angular motions and vibrations of a maneuvering helicopter and makes possible the employment of the Shillelagh anti-tank guided missile from helicopters.

AE

'EYE' ON THE TARGET — Helicopter "gunner" (right) peers through experimental sight designed and built by Hughes Aircraft Company for use with the TOW wire-guided missile, which is now in advanced development. Dome shown protruding (lower right) from nose of the UH-1B helicopter houses mechanism which enables gunner to keep tank or other ground target in sight while pilot weaves and dodges to evade enemy ground fire.



Shillelagh Takes Wing

A stabilized sight has been developed for the Army's Shillelagh anti-tank missile, making it possible to employ the weapon from helicopters. The development was announced with delivery to the Army of a specially modified Bell UH-1B helicopter equipped with the sight by Aeronutronic Division of Philco Corporation. Philco is a subsidiary of Ford Motor Co. and is prime contractor for the Shillelagh.

The new sight isolates a high-power telescope from the angular motions and vibrations of a maneuvering helicopter, providing the gunner with a high-resolution blur-free image of the target scene within his sighting optics.

The gunner is also provided with sight aiming controls which permit him to track stationary or moving targets with the same precision as his counterpart in the armored ground vehicle.

The U.S. Army Missile Command last December described the test series as "highly successful," stating that Shillelagh was "literally punching bull's eyes" out of both stationary and moving targets.

The small missile is launched from a closed-breech cannon which also fires conventional rounds.

Operation Shillelagh is quite simple—the gunner simply puts the cross hairs of his sight on the target, presses the button and the

Annual Redstone UGF Fund Raising Begins With Kickoff Next Tuesday

Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, will be the keynote speaker Tuesday when the 1964 Redstone Arsenal United Givers' Fund drive opens with a kickoff rally at the Rocket Auditorium.

The rally will signal the launching of the annual campaign in support of some 35 local and national service and charitable organizations. The drive will extend over a period of seven weeks, concluding early in November.

M. C. Taylor, Executive Chairman of this year's drive, said that campaign literature and materials will be distributed later this week in preparation for the kickoff.

He said that the members of the Executive Committee are striving to post an even greater showing than was registered in the drive last year. Taylor said that the only goal that is being set is 100 per cent participation with a Fair Share contribution from each participant.

Last year over 206,000 was turned over to United Givers Fund agencies in 33 northern Alabama and southern Tennessee counties. Over 99 per cent of the personnel involved in the campaign made a contribution with almost 90 per cent being listed as Fair Share contributors.

It is in the better category that Taylor is hopeful of bettering the 1963 performance.

The efforts to increase the Fair

Share participation will be centered around an all inclusive program of taking the program to the people who are involved.

Along this line, two meetings have already been held with the Agency Chairmen representing ev-

(Photos on Page 3)

ery Arsenal organization and others will be held as the campaign progresses. Another feature of the educational effort will be the showing of the special film that was produced by the Huntsville-Madison County UGF.

This short but excellent production has been scheduled into every major organization of the Missile Command, Support Command, OGM and the Nike-X Project Office. Taylor has urged the Agency chairmen to make every effort to insure that all of their people have a chance to see it.

In addition to Mr. Taylor, the members of the Executive Committee for the 1964 drive are, S. L. Moyers and Howard Andrews, both of the Procurement and Production Directorate, and Al LaGrone, of

the Missile Support Command.

The Agency Chairmen will have the responsibility of conducting the drive within their own respective organization.

They are: Richard J. Shaughnessy, Office of the Commanding General, Office of Chief of Staff, and Supporting Staff Offices; Maj. M. E. King, Deputy Commanding General, Air Defense Systems, and the Project and Commodity Offices under Gen. Persons; Robert A. Malone, Office of the Deputy Commanding General, Land Combat Systems, and the Project and Commodity Offices under Gen. Eifler.

T. R. Scales, Comptroller and Director of Programs; Claud H. Hopkins, Quality and Reliability Management Office; W. C. Cleveland, Procurement and Production; W. P. Burnett, Supply and Maintenance; Lloyd L. Lively, Research and Development; Russell H. Gerbrick, Missile Intelligence.

Leonard M. Brockman, Missile Support Command; Lt. Col. C. D. Nielson, Nike X Project Office; Lt. David E. Bower, Air Defense Fire Distribution Systems Office; Lt. Col. Willard Anderson, Ordnance Guided Missile School;

J. C. Godsey, Thiokol; P. T. Campbell, Rohm and Haas; and Chester A. Hull, Area Engineers.

TOW Sight Tests Set

An experimental sight for launching TOW wire-guided missile against tanks and other ground targets from a moving helicopter has been built for the U.S. Army, Hughes Aircraft Company announced today.

The new device will enable a helicopter missile "gunner" to hold an enemy tank in his sights while the pilot dodges and weaves to evade enemy fire.

TOW, an acronym for Tube-launched Optically-tracked Wire-command link guided missile, is steered by electronic signals sent over trailing wires unreeled behind it as the missile speeds to the target. The line-of-sight weapon, intended for use against tanks, armored vehicles, bunkers and similar hard point defenses, is currently in advanced development.

Hughes designed, built, the experimental sight under a \$1 million contract from the U.S. Army Missile Command. The overall program is under the direction of the Aircraft Weaponization Project Manager, Army Materiel Command.

The experimental device will undergo further flight testing and evaluation at the Edwards Air Force Base in California by the Army. A UH-1B (Iroquois) helicopter, furnished the company by the Army, was used as a test-bed during airborne experiments of the project. This is the same type aircraft being used by American forces in Vietnam.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

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Rocket Ruminations

I had a pleasant time with my mind, for it was happy.
—Louisa May Alcott

In Full Glory Reflected . . .

A hundred and fifty years ago this week a song was born.

The date was Sept. 14, 1814. The author was Francis Scott Key.

A young lawyer, Key wrote only the words to the song. The music was lifted from across the Atlantic Ocean.

The last thing in the world Key intended to do the night of Sept. 13, 1814 was to write a song. He was a virtual prisoner of the invading British and he planned to watch the spectacular battle between the British fleet and the American defenders of Fort McHenry as the British attempted to wrap up the War of 1812.

But the young lawyer was also a poet and his zeal and excitement found expression in words.

After the heat of battle there was silence . . . darkness . . . and long suspense.

Did the Stars and Stripes still fly?

Dawn came at last. Fort McHenry had withstood the siege and the symbol of a fledgling nation still waved triumphantly.

Key hastily began scribbling:

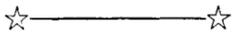
"Now it catches the gleam of the morning's first beam,

"In full glory reflected now shines on the stream.

"Tis the Star Spangled Banner, O long may it wave

"O'er the land of the free and the home of the brave."

Critics have said the finished product was far from perfect. They say the words are hard to remember and the borrowed tune hard to sing. However, "The Star Spangled Banner," our national anthem, continues to outlive its critics and quicken the pulse of American patriots.



It Is Toastmaster Week!

The week of Sept. 13 has been officially proclaimed as Toastmaster Week in Huntsville.

Mayor R. B. Searcy issued a proclamation in commemoration of the 40th anniversary of the founding of the first Toastmasters Club.

During the week members of local Toastmasters Clubs emphasizing the purpose of Toastmasters International and the benefits it offers to individual members.

These benefits offer an opportunity for the individual to:

Meet and join in self-improvement efforts with other conscientious men from a wide variety of professions and vocations;

Hear interesting and informative talks on an unlimited variety of subjects, which often inspire further study;

Gain confidence in himself and increased ability in organizing and presenting his own ideas and thoughts;

Analyze the words and vocal delivery of others and learn to evaluate what you see and hear;

Learn and practice group management and administration.

United Givers Fund Fair Share Guide

CLASS ACT		MILITARY	
GS-18	61.50	W-6	14.00
GS-17	55.50	W-5	13.50
GS-16	49.25	W-4	13.00
GS-15	48.00	W-3	12.00
GS-14	42.00	W-2	11.00
GS-13	36.00	W-1	10.00
GS-12	31.00	O-8	56.00
GS-11	26.00	O-7	49.00
GS-10	24.00	O-6	37.00
GS-9	22.00	O-5	29.00
GS-8	20.00	O-4	23.00
GS-7	18.00	O-3	19.00
GS-6	16.00	O-2	12.00
GS-5	14.00	O-1	10.00
GS-4	13.00	W-4	23.00
GS-3	12.00	W-3	19.00
GS-2	11.00	W-2	12.00
GS-1	10.00	W-1	10.00
WAGE BOARD		E-9	13.00
S-17	38.00	E-8	10.00
S-16	36.00	E-7	6.50
S-15	34.00	E-6	6.00
S-14	32.00	E-5	5.00
S-13	30.00	E-4	4.00
S-12	29.00	E-3	2.75
S-11	27.00	E-2	2.50
S-10	26.00	E-1	2.00
S-9	25.00		
S-8	23.00		
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L-14	25.00		
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L-4	14.00		
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L-2	12.00		
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W-15	25.00		
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W-13	22.00		
W-12	21.00		
W-11	20.00		
W-10	19.00		
W-9	18.00		
W-8	16.00		
W-7	15.00		

CONARC Will Recruit

The Continental Army Command has assumed responsibility for the Army Recruiting Service and will begin operating the program Oct. 1, CONARC headquarters has announced.

Involved in the change are six recruiting districts, 70 regional main stations, and 1,136 local recruiting offices throughout the United States. These offices annually enlist more than 100,000 individuals.

One of the primary effects of the change will be the withdrawal of the recruiting mission from the six U. S. Army commanders and the establishment of direct control links between the six principal recruiting districts and CONARC headquarters. The army commanders will continue to furnish administrative and logistic support to recruiting activities in their respective areas.

COLONEL KAISER GIVEN NEW JOB AT WHITE SANDS

WHITE SANDS MISSILE RANGE, N. M.—New duty assignments have been announced by Commanding General J. Frederick Thorlin for two colonels at White Sands Missile Range, N. M.

Col. Franklin E. Carpenter, acting Chief of Staff and Chief, Logistics, has been appointed Chief of Staff. He will also continue in the post of Chief, Logistics.

Former Chief of Staff, Col. William F. Kaiser, moves to Director of Army Test and Evaluation Directorate (AMTED). The Colonel headed the Control Office, Army Ballistic Missile Agency, and later the same office in the Army Ordnance Missile Command.

Col. Carpenter was assigned to White Sands Missile Range in 1963 following a tour in Korea where he served as Executive Officer 71st Ordnance Group. The Carpenters and their youngest son James reside at White Sands. Their other son, John, is a junior at Cornell and their daughter Amy is a freshman at the University of Colorado.

Col. Kaiser reported to White Sands from Korea in 1963. In Korea he was Commanding Officer of the Eighth Army Ordnance Depot. As Director, ATMED, Kaiser replaces Col. J. C. Bane who held that post in addition to his assignment as Deputy Commander.

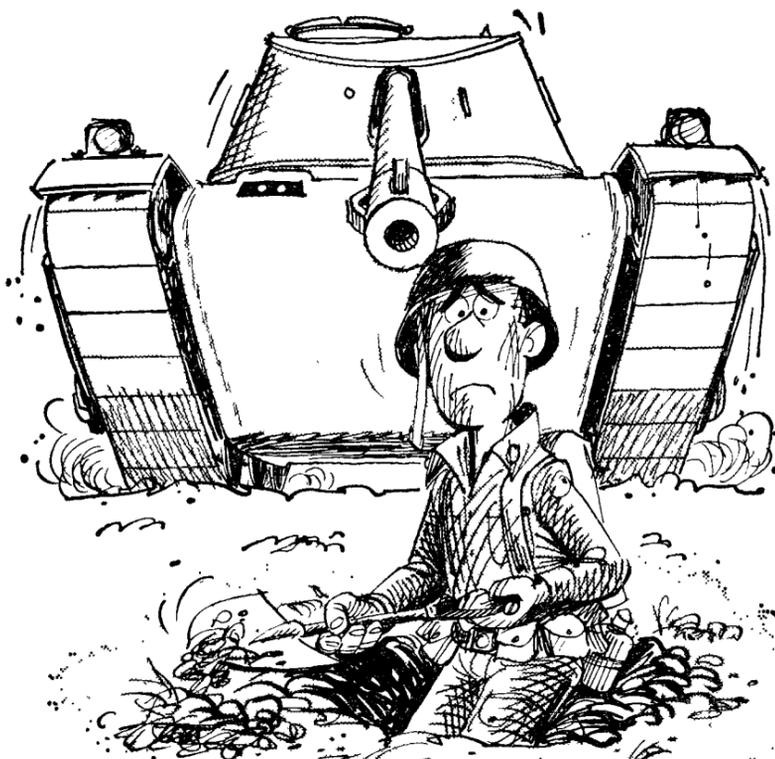
The Kaisers live at 219 Jupiter, White Sands, and their son James W. is a freshman at Purdue University.

Sept. 12, 1789 — Henry Knox appointed the first Secretary of War under the Constitution.

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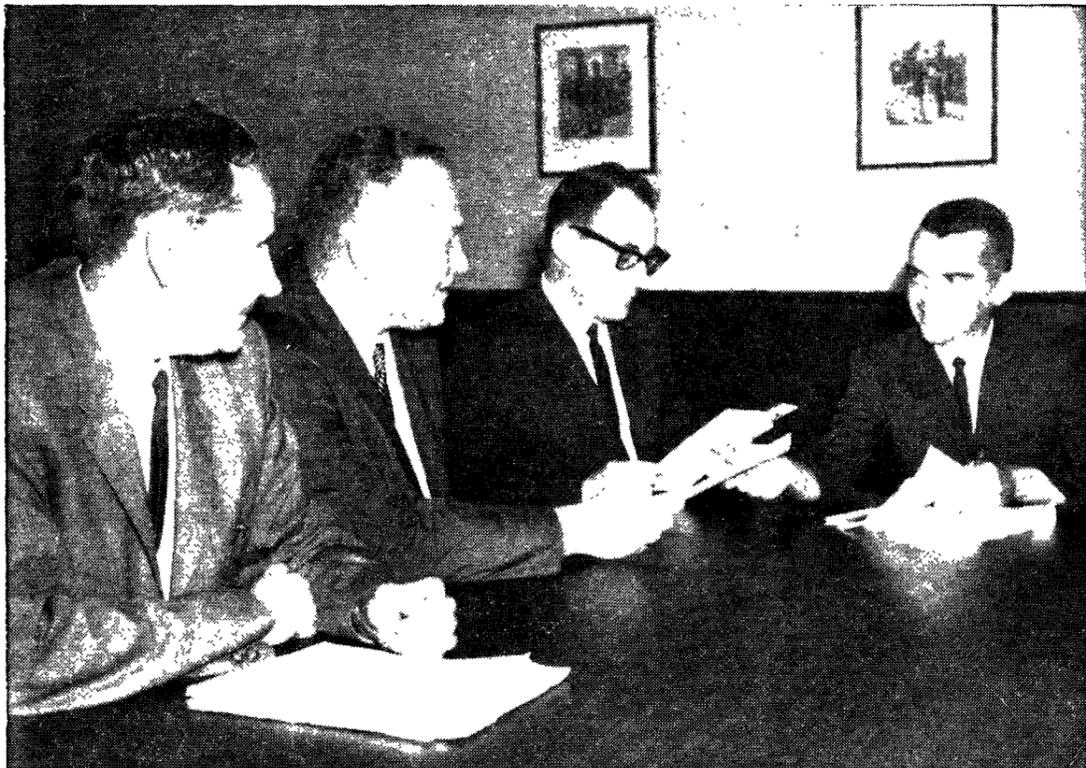
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BRIEFS UGF EXECUTIVE COMMITTEE—M. K. Babin, (right) of the Huntsville-Madison County UGF, briefs members of the Executive Committee for the Redstone Arsenal UGF drive. They are left to right, M. C. Taylor, Executive Chairman, S. L. Moyers, Executive Secretary, and Al LaGrone, Financial Chairman. Babin, who is publicity chairman for the Huntsville-Madison County drive, gave a presentation to the members of the Executive Committee and the Agency Chairmen.



OPENS UGF DRIVE—The United Givers Fund Annual Drive officially got underway last week when Col. William J. Macpherson, (right) commandant at the Ordnance Guided Missile School gave his "fair share" pledge card to Lt. Col. Williard Anderson, (left), chief, Office of Logistical Support, the UGF Coordinator at the Missile School.

SHILLELAGH

(Continued From Page 1)

missile flies with unerring precision to the gunner's aim point on the target.

For moving targets, the gunner tracks with his sight, keeping his cross hairs again on the aim point. No ranging or leading is required."

TEST SCHEDULED

A test is scheduled for Thursday morning on Redstone Arsenal involving a small explosion.

Personnel on the installation may be able to hear the blast and see a resultant cloud of smoke. However, neither should be very noticeable.

The test will be conducted in the Arsenal range area near the south boundary. If the test is not held Thursday it will be rescheduled for a latter date, possibly Friday.

Calibration Center Has Appropriation To Build

A \$2,389,000 congressional appropriation approved for military construction at Redstone Arsenal will be used for a new Army Missile Command Calibration Center and conversion of small steam generating boilers.

The sum was part of a \$1.5 billion military construction appropriation bill signed by President Johnson recently.

The one-story calibration center with some 39,500 square feet of laboratory and office space will be built adjacent to the Army Missile Command's new Research and Development facility at Redstone.

The remainder of the appropriation will be used to convert some of the boilers on the Arsenal from oil to gas fuel.

Sept. 9, 1942 — Japanese plane, launched from submarine off coast, dropped incendiary bomb on mountain slope near Brookings, Oregon, causing small forest fire. This is the sole bombing by plane of continental U. S. during the war.

Col. Macpherson Visits Europe To Gather Data

Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School, is on a two-weeks official visit to several European nations to gather new data for use in missile maintenance training.

Col. Macpherson spent the first part of this week in London where he conferred with Brig. Gen. Charles W. B. Gilbert, commandant of the Royal Artillery School, and Maj. Gen. Leonard H. Atkinson, director of the Royal Electrical and Mechanical Engineers Corps. Both the British officers visited Redstone Arsenal earlier this year.

The itinerary will take Col. Macpherson to conferences with U. S. Military Assistance Advisory Groups in Brussels, Belgium, and The Hague, Netherlands and to U. S. Army headquarters in Stuttgart, Germany.

He is specifically interested in checking on the field effectiveness of U. S. and foreign units trained at OGMS and in further developing the feedback system under which all missile maintenance units deployed throughout the free world supply the school with detailed data on support problems encountered in day-to-day operations. This system enabled the OGMS staff and faculty to update teaching manuals and

techniques to conform with actual field conditions.

Another subject to be dealt with is the role of Ordnance missile maintenance experts in the realignment of combat missile forces under new functional support doctrines and concepts being developed by the Army.

Sept. 4, 1945—U. S. flag was raised again on Wake Island after the surrender of approximately 1,200 Japanese stationed there.



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JAYCEES STAGE PROGRAM FOR FOREIGN TROOPS

The Huntsville Junior Chamber of Commerce has joined several other local organizations in a program to acquaint foreign students at the U. S. Army Ordnance Guided Missile School with various aspects of American life.

The group, which includes many young business and professional men of the community, is awarding two honorary memberships for periods of six months to officers from Europe and Asiatic nations represented at the Missile School. The memberships will be rotated to include all nationalities.

Lester Klein is chairman of the Jaycee committee working with Maj. Monroe Webb and the OGMS Foreign Liaison Office to implement the program.

Organizations now participating in the hospitality program for some 600 foreign students and their families include the Grace Club Auxiliary; five Episcopal churches; Rotary, Kiwanis, Lions and Pilot Clubs; B'Nai B'Rith and dozens of individuals throughout the Tennessee Valley area.

Sept. 9, 1942—Japanese plane, launched from submarine off coast, dropped incendiary bomb on mountain slope near Brookings, Oregon, causing small forest fire. This is the sole bombing by plane of continental U. S. during the war.

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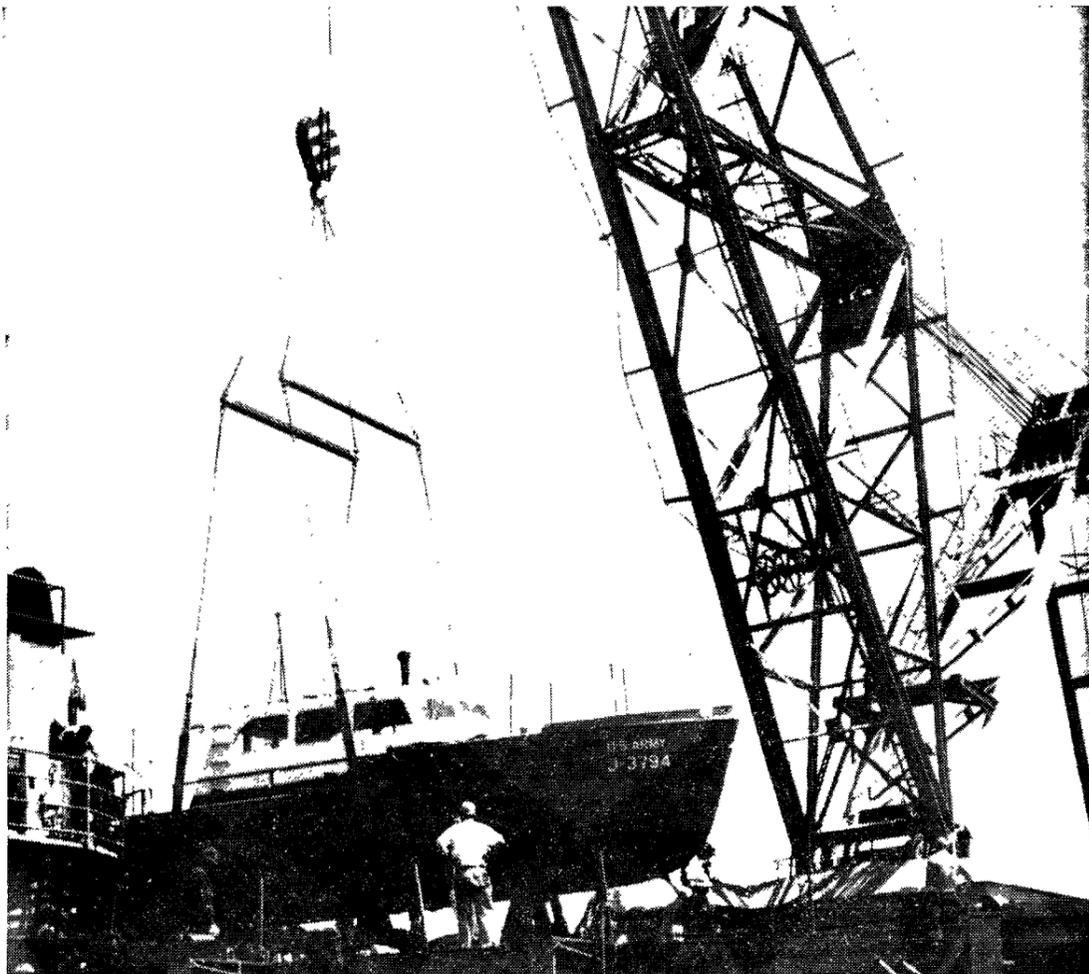
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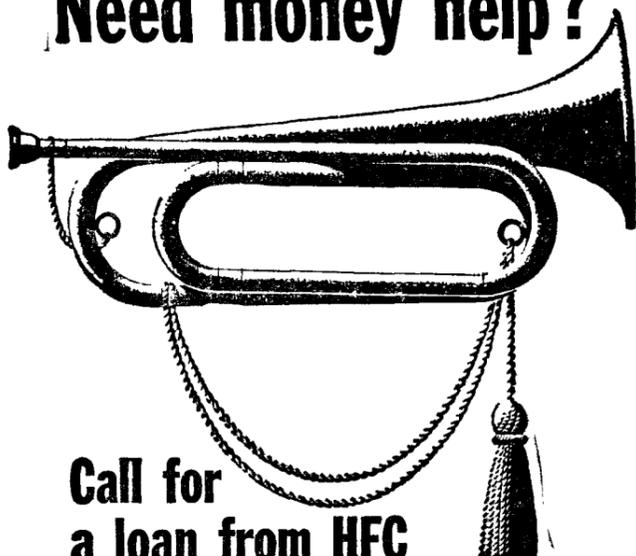
Mrs. Beatrice E. Robinson, Owner



ON WAY TO KWAJALEIN—The Nike-X Project's Kwajalein Test Site is 50 miles long—nearly all of it water. If a test site employee wants to make a 10 mile trip (roughly the distance from one end of Redstone to the other) he has to take a boat. The Project Office on Kwajalein got a shipment of 13 new boats recently, including three Landing Craft Utility (LCUs), seven Landing Craft Medium (LCMs), and three "J" boats. One of the J boats is shown here being unloaded aboard ship at Oakland, Calif. for shipment to the Test Site. The vessels are used to ferry personnel and materials between the nine islands in the Test Site.

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75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 8.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

These payments include principal and interest. Life insurance is available at group rates on loans above \$100.

Cash Repaid \$	MONTHLY PAYMENT PLANS		
	24 Payments	36 Payments	48 Payments
\$500	\$46.81	\$34.78	
700	64.92	48.30	
1000	82.90	62.76	\$80.08
1500	127.80	92.80	69.80
2000	181.96	136.13	78.96

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Decatur Contributes Heavily Toward University Of Alabama Campus Fund

A promise from Decatur to raise \$100,000 for the University of Alabama's Huntsville Campus building fund campaign together with a continuing flow of gifts averaging \$30,000 per week buoyed hopes of campaign managers today.

Pick Hunt, Decatur warehouseman and alumnus of the Tuscaloosa campus, is mobilizing businessmen for solicitation of major industries along the "Magic Mile" in the River City.

Hunt pointed out that the proximity of the four-year undergraduate degree program and the graduate courses would be as valuable to Decatur's heavy industries as to Huntsville's many aerospace firms, from the standpoint of attracting and holding professionally qualified employees.

He also noted that, with the opening of a new high school in Decatur, a higher percentage of its increasing annual output of graduates will be attracted to the new undergraduate program.

Meantime, the total of the fund

drive for \$750,000 to build and equip a new classroom and laboratory building was inching toward the \$600,000 mark.

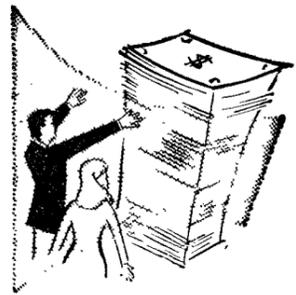
The Decatur drive could well provide the stimulus to put the campaign over the top, University officials declared.

BECOME COMMITTEE MEMBERS

Mrs. Leo Hobbs and Mrs. Stanton Josephson of Redstone Arsenal have recently been selected as committee members for the Women's Guild of the Huntsville Art League. Others from Redstone who are serving as committee members include Mrs. Richard Irvin, Mrs. William Roedy and Mrs. Cyril Sterner.

Sept. 13, 1814 — McHenry Campaign. British attack on Baltimore unsuccessful. "Star Spangled Banner" written by Francis Scott Key following bombardment of Fort McHenry by British ships.

Sept. 16, 1776 — Congress completed "The Articles of War," with the injunction that they be read every two months at the head of each company, troop and regiment.



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Value Engineers Holding Seminar

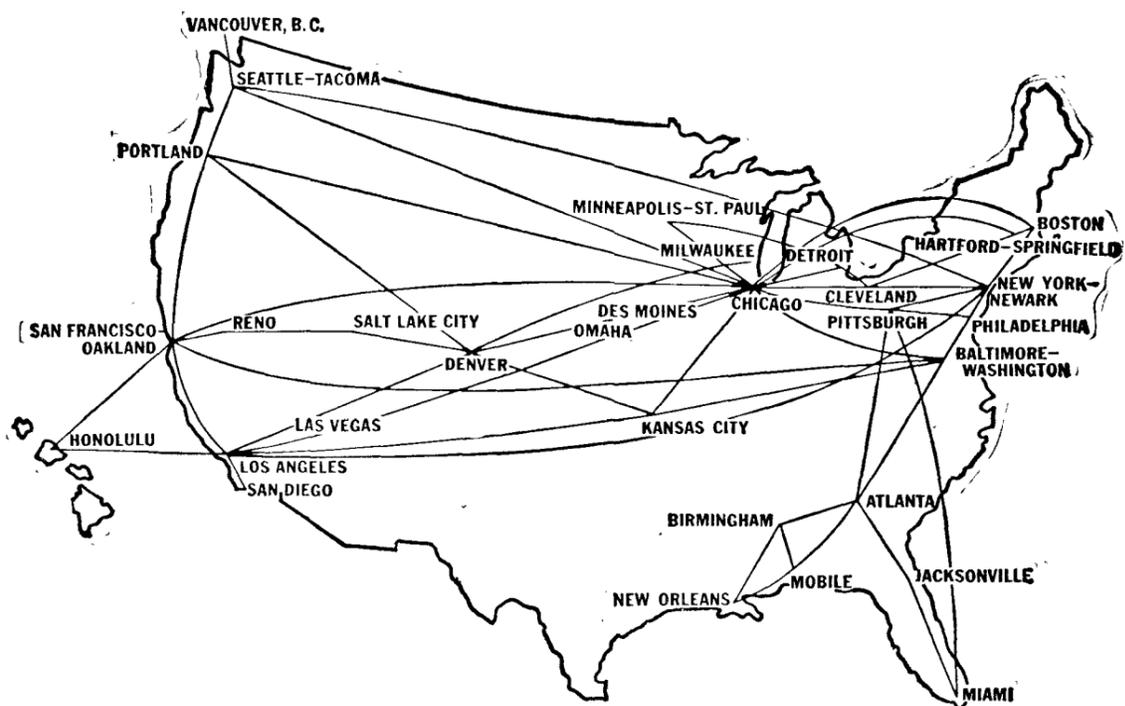
A two-week seminar covering the concepts, mechanics and application of value engineering to Army missile systems began Monday at the Army Missile Command.

Running through the 25th, the Seminar is another in a series which is providing intensive training for Command personnel. Included in the program will be discussion of management and contractual subjects leading to full potential of missile research and development and procurement.

Among those making presentations will be Robert Bidwell, Martin/Orlando; Glen Hart, Aerojet-General; W. A. Heacock, Douglas Aircraft Co.; John R. Morrison, Gries Reproducer Corp.; C. P. Smith, Ling-Temco-Vought; Walter Wiesman, Marshall Space Flight Center; Arthur Harvey, Raymond Weber and W. E. Gibbons of the Missile Command Value Engineering Office.

The seminar is a cooperative effort of the Command's Production and Procurement Directorate and its Civilian Personnel Office. Planning is under Russell Cooper of the Training and Development Division of CPO, and Gibbons of the Value Engineering Office.

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Officers Wives Club Previews Fall Fashions

The Army Missile Support Command officers wives presented a Fashion Show at the September luncheon meeting of the Redstone Arsenal Officers Wives Club to open the Fall season.

The show was presented during a buffet lunch in the Ballroom of the Squirrel Hill Officers Club with Malcolm Tate furnishing the background music for lunch and for the models.

Mrs. William D. Martin, wearing a black sheath with a cutout neckline, not only trained the models with the help of Mrs. Leo Hobbs and Mrs. William Cole, but also commented on the fashions worn by the models.

As always in the Fall, the colors look muted after the flower-hues that greet Spring and Summer.

However, the clothes at last week's showing were filled with unexpected inserts of vivid color such as the two piece navy outlined in strategic spots with wine, and the knits, basically olive drab, with stripes in vivid, contrasting jewel tones.

Most of the clothes were easy, swinging away from the figure and

ready to fit into the occasion for which they were meant. Coats especially were loose. Dresses hung in A-line or shift. Sweaters and skirts were displayed as contrast rather than the mix-match so popular during the recent years.

Sports clothes were crisp though casual and in the same kinds of unexpected shades as the dresses, olive-drab teamed with pineapple, vivid blue against black. The collection also had contrasting fabrics such as knits and suede.

Both Mrs. Hobbs and Mrs. Cole modeled along with Mrs. Jerry Gibbs, Mrs. William Cole, Mrs. Gary Lovell, Mrs. Bill W. McCarty, Mrs. Arnold Milner, Mrs. Leadley Ogden, Mrs. Earl F. Otto and Mrs. Cyril Sterner.

Working backstage were Mrs. Phillip Linlin, Mrs. Frank Howell, Mrs. James V. Z. Mullins and Mrs. W. S. Fellows.

Hair styles were by Grady's Beauty Salon and the clothes were from Rutenbergs.

Mrs. Irvin V. Gulbranson arranged with the club for the luncheon.

Mrs. Samuel E. Tillery was chairman of the decorations committee

which included Mrs. Robert E. Lees, Mrs. Mark Pfenninger, Mrs. Glenn Carrothers, Mrs. Neil Pe-tree, Mrs. John G. Higgins, Mrs. Elvin J. Kidd and Mrs. Harold Zier.

Each of the lunch tables held arrangements of driftwood bases topped by fashion dolls and greenery.

The punch table was decorated

with yellow and gold chrysanthemums and gladioli hung on silver candelabra. The buffet table held fashion pieces, some of them draped on a full-scale fashion dummy.

Tickets For Dance Go Fast

Ticket sales for the Army Distaff Foundation Harvest Ball at the Squirrel Hill Officers Club Sept. 26 has been so brisk that the 600 spaces originally allotted has dwindled to a hand full.

Fred J. Babes, handling the sales for the Headquarters Staff of the Army Missile Command, had twelve tickets left last Friday afternoon. Other ticket sellers include Lt. Kenneth D. Cobb III, Air Defense Systems; R. A. Malone, Land Combat Systems; Lt. Col. H. H. Hewitt, Research and Development Directorate; Lt. Col. Stanley W. Tyler, Procurement and Production Directorate; Capt. James V. Z. Mullins, Army Missile Support Command; Lt. Col. Leonard W. Carlson, Supply and Maintenance Directorate; Lt. Col. Robert A. Robinson, Ordnance Guided Missile School; Hugh R. Watson, Nike-X Project Office; and Capt. H. E. Stubbs, Marshall Space Flight Center.

Individuals who hold tickets have been reminded by the sellers that parties or individuals should be certain that seating reservations have also been made. No tickets will be sold at the door the night of the Ball.

The Ball is one of many Officers Wives Club-sponsored events at Army posts across the country to help support the fellowship assist-

ance fund of the Army Distaff Foundation which is used to assist elderly wives or other female dependents of deceased Army officers who cannot meet all of their personal expenses.

The Distaff Foundation Hall was opened for Army officers wives who have been uprooted so often they have no home community. The Foundation offers life-care and companionship among women with similar backgrounds. Situated in Washington, D.C., it also offers them access to Walter Reed Army Hospital if they become too sick to be taken care of in the infirmary wing of the Distaff Hall.

Col. and Mrs. Hellmers Win Bridge Competition

Only four tables of players competed at Monday night bridge last week at the Squirrel Hill Officers Club.

Col. and Mrs. Johann Hellmers took first and second for the men and women respectively.

Mrs. A. V. Garrabrant had top honors for the women; J. W. Washburn was runnerup for the men.

Mrs. J. N. Crawford handles reservations to play with the group. Her telephone number is 877-5763.



FORMAL GOWN—Mrs. Kenneth Cobb wears a formal gown of pale pink brocade—foreshadowing the coming season of formal balls and other events on the social calendar for 1964. Clothes at the fashion show were from Rutenberg's.

FOXY AND FRESH—Mrs. Bill W. McCarty models a white wool coat featuring a bleached fox shawl collar for the Redstone Arsenal Officers Wives Club fashion show at the September lunch.



PERT AND SAUCY—Mrs. Jerry Gibbs chooses a salt and pepper tweed jumper for her daytime chores and informal visits. She was a model in the Redstone Arsenal Officers Wives Club fashion show.

TWEEDY AND WARM—Mrs. Earl Otto chose a herringbone tweed in black and white as a buffer between her and the wintry blasts to model in the Wives Club fashion show at the Squirrel Hill Officers Club last week. Her hat is reminiscent of carpet bag colors and patterns.

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Mayor Declares Toastmaster's Week

More than one thousand Huntsvillians have learned to listen, think, and speak more effectively since the first Toastmasters club was established here in 1955, and area toastmasters feel the surface is barely scratched at fulfilling the demand.

In recognition of the nine years work of Huntsville's Toastmasters, Mayor R. B. Searcy has proclaimed Sept. 13 through 19 as Toastmasters Week. Searcy is an honorary member of the Redstone Club.

The Redstone is the oldest of the four Huntsville area clubs, established as the missile and space boom began at Redstone Arsenal. Current president is Frank Britt, who will pass the gavel to a successor next month after twice-a-year elections are held.

Largest of the Huntsville clubs is the Mason-Dixon Club, which raised its membership limitation from 30 to 40 last year. The Club is now considering a plan to divide into two clubs.

Mason-Dixon plans to sponsor a speechcraft course beginning next month which will last eight weeks. President Lew Steakley said the

speechcraft participants should furnish enough interested members to form another strong club with Mason-Dixon.

The Huntsville Club was organized in 1956, and is currently led by Foster Esleck. The club now has 28 members, many of whom are employed at Redstone Arsenal.

At least 50 per cent of the area toastmasters are civilian employees of the Army Missile Command or Marshall Space Flight Center, and another substantial percentage are contractor employees. Army personnel are also well represented in the four clubs.

Youngest and smallest of the area clubs is the Jubilee Club, formed earlier this year with 11 charter members. President Don Martin hopes to double this figure within a year, and then work for 30.

Toastmasters was founded in 1924 by Dr. Ralph C. Smedley of Santa Ana, Calif., as a step toward a solution of the everyday problems encountered in spoken communication. Since then, clubs have been organized on every continent,

SAME To Hold Regional Meet

The Society of American Military Engineers begins the new season with a flurry of activity.

The first meeting for the local chapter is tomorrow night at the Squirrel Hill Officers Club with guest speaker William A. Davis, Jr., of the Research and Development Directorate delivering a paper on "High Energy Laser".

A social hour begins at 6:30 with dinner at 7:30 p.m.

Lt. Col. John H. Weaver will be installed as the new president. Other new officers are: Col. James

and now total more than 3,600. New clubs are being formed worldwide at the rate of two per day.

Bill Moss, past president of the Huntsville Club, is governor of Area 5, which includes the four Huntsville clubs. Charles Quarles, past president of Mason-Dixon, is governor of the Northern Division, which includes nine clubs in North Alabama.

Moss said all area clubs now have membership vacancies, as both attendance and membership tend to decline during the summer vacation months.

B. Leslie, vice president; Joseph E. Kirshtein, secretary; Norman E. Waldrop, treasurer; Ralph A. Conaway, assistant treasurer; Arthur J. Matthews, first director; Robert D. Ramsey, Jr., second director; and Edward Sebastian, third director.

In addition to the installation William E. Courtney will present the annual audit report.

Friday night SAME will hold the Southeastern Regional Conference at the Arnold Engineering Development Center at Tullahoma.

Maj. Gen. R. H. Curtin, Air Force Director of Civil Engineer-

Command Coffee

The Army Missile Command Officers Wives will hold a Coffee in the Redstone Room of the Squirrel Hill Officers Club at 10 a.m. Sept. 22.

Reservations deadline is Friday at noon. Handling reservations are: Mrs. Alfice Cutts, 877-5377 and Mrs. M. Degan, 877-4864.

ing will be speaker at the conference banquet. This year's theme is "Defense Facilities for Tomorrow".

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Historians Write About Present, Preserve Past

Editor's Note: This is the first of a series of articles about the Army Missile Command's Administrative Office where Fred Babes is the chief.)

History usually calls to mind events that happened years or even centuries ago, but the people in the Historical Division of the Army Missile Command Administrative Office realize they are living while history is being made.

"That's one of the most exciting parts of this job," Helen Joiner, head of the division, said.

"We were particularly aware that we were playing a part in world history in 1958 when the Explorer I was launched, and we know development of missiles and rockets are not routine affairs," she continued.

"The purpose of our work," Helen says, "is to preserve the data for use by planning officials, and to inform the public of the contribution of the Army to national defense."

GOOD HISTORY

A speaker at a historian's conference best described the way

her people try to write history. He continues to hold, with the Army Missile Command.

"A good history is like a woman's skirt—short enough to be stylish and interesting, but long enough to cover the subject."

Even the Army regulation which covers historical missions is easy reading, and even entertaining.

The Army's historical program had its beginning during World War II, but didn't become a permanent program until during the Korean conflict.

ABMA HISTORIAN

It was during this time that Helen started her career in Federal Service (1951) when she was elected to fill a position as historian for the Air Materiel Command at Wright-Patterson Air Force Base, Ohio. After three years in Ohio, she returned to her native Alabama (she's from Birmingham) to work as publications editor at the Air War College, Maxwell Air Force Base.

She was appointed Chief Historian for the Army Ballistic Missile Agency at Redstone in 1956, and two years later named to the same position at the Army Ordnance Mis-

sile Command.

Helen is a graduate of Birmingham's Ramsay High School and Bir-



HELEN JOINER . . . The Boss

mingham-Southern. Her majors were history and political science. She received a master's degree in political science from Vanderbilt University, and was an instructor in the Political Science Department at Memphis State University until she started working for the Air Force.

Right now she is on her way to

the University of Virginia for work toward a doctor's degree, as a result of receiving a Career Educational Award of the National Institute of Public Affairs.

She feels that the government offers good careers for women, and that her field of effort is especially rewarding as it is a combination of her academic interests and is a practical application of her talents.

CAGLE ACTING BOSS

While Helen is gone during the school year, Mary Cagle is acting chief of the office. As long ago as 1953, the Redstone Rocket said that "Mary Cagle is a famous name at Redstone." She came to work here in 1943, left in 1944 to join her husband while he was in service. When the Cagles returned to Huntsville in 1946, Mary worked at Huntsville Arsenal. She moved over to Redstone in 1949. By late 1953 she had been assigned as a historical clerk and thus started her career as a historian.

Mary is another who feels that the government is a fertile field for women's careers. She pointed out that she now makes nine times as much as she did when she first started to work!

When anyone wants Redstone historical data that goes "way back," Mary is a prime source since she was here when it happened and recalls multitudes of

events just out of her own experience. If she can't answer questions immediately, she knows where to find the records.

DEVOTION TO DUTY

Mary has always had an avid devotion to duty no matter where she was assigned. She once brought her own electric typewriter from home in order to do better and faster work, and has put in many hours of overtime on her own.

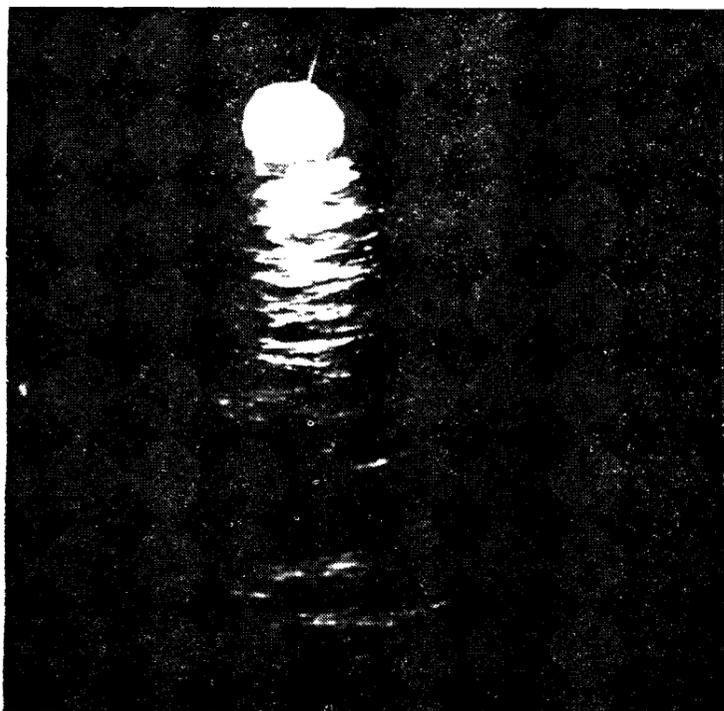
From 1958 until 1961, Mary was the historian for the Army Rocket and Guided Missile Agency. In 1962 she entered her present office.

There are two other historians in the Historical Division. One is a newcomer, Mrs. Elva McLin who came here from Birmingham. Her husband is an employee in the Procurement and Production Directorate. She taught English for two years at Brooke Hill Girls School in Birmingham, and taught in the dependent schools in France and Germany where the McLins were before coming to Alabama.

This isn't Elva's first duty in a historical office. She was the public information officer for the Ordnance Officer in the U.S. Army Europe Headquarters and was once the historian and assistant information officer at Benicia Arsenal in California.

STUDIED IN KANSAS

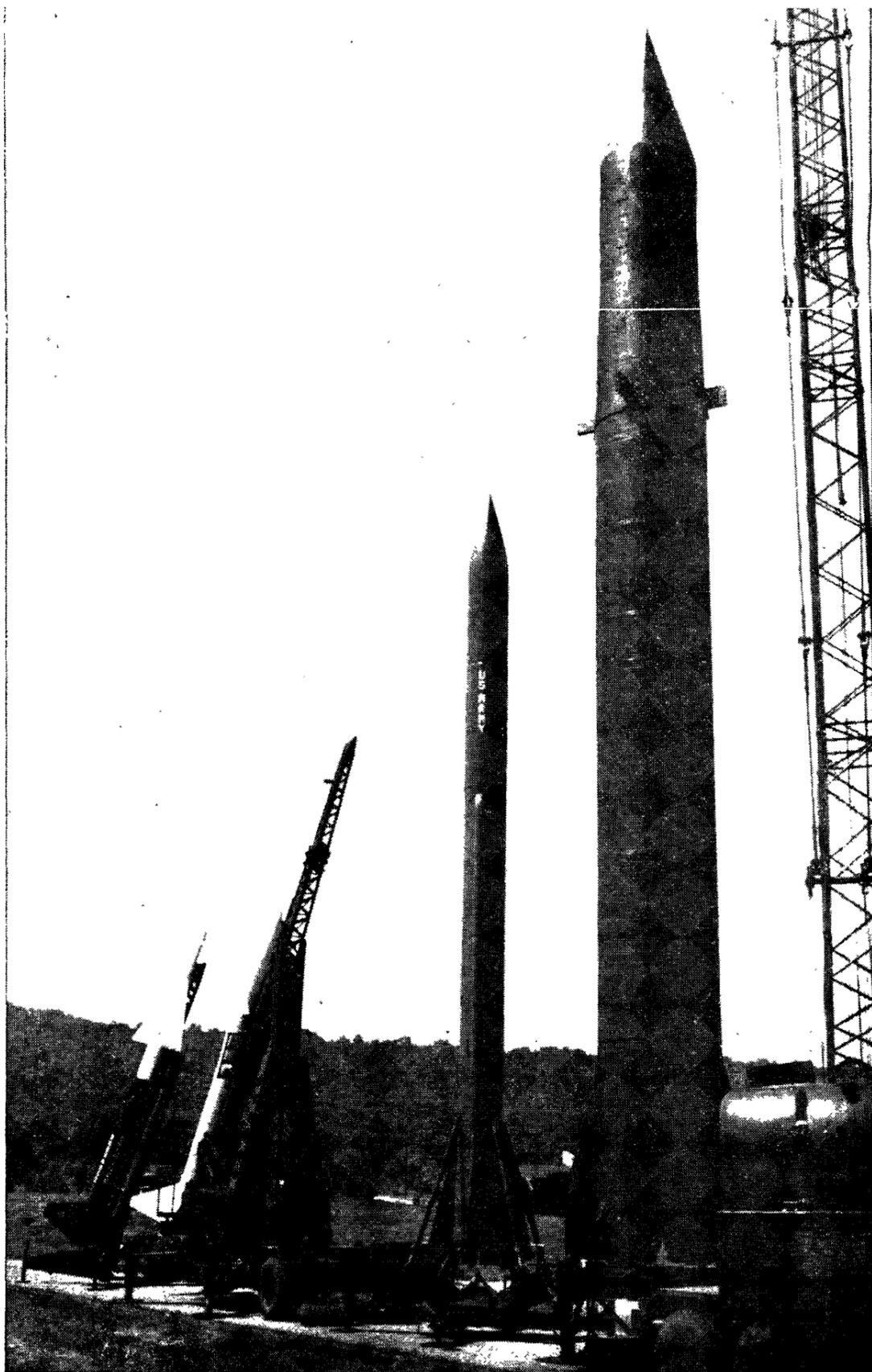
Elva holds both bachelor of arts (Continued on Page 9)



THE HISTORIANS REMEMBER WHEN—The Army was the first to demonstrate a solution to the aerodynamic heating problem of ballistic missile reentry. This balloon carried the scaled down Jupiter C nose cone which was recovered intact from the Atlantic in August 1957. It was the first man-made object to withstand a trip into space and survive the searing heat of a reentry into the earth's atmosphere. The nosecone is suspended under the balloon.



REMEMBER HER? THE HISTORIANS DO—She's one of the first primates sent into space and recovered alive. Two monkeys, Able and Baker, rode the nosecone of a Jupiter missile into space from Cape Canaveral on May 28, 1959, and were recovered alive in the Atlantic after a trip that took them more than 300 miles high and 1,500 miles down range.



THE HISTORIANS REMEMBER WHEN—Once these four were the only Army missiles and rockets. They are the Nike Ajax, Honest John, Corporal and Redstone.

Redstone's Activities Are At Their Fingertips

HISTORIANS

(Continued From Page 8)

and bachelor of science degrees in education from Kansas State Teachers College with majors in history and English, and a masters degree from the University of Alabama. She studied one summer at the University of Birmingham in England.

The McLins have rented an 183-acre farm at Madison. They have four children, two daughters and two sons. The older daughter is married to an Army captain presently attending the Army Language School at Monterey, Calif., and the younger one is attending the Madison elementary school. Their sons both will be University of Alabama students, Huntsville campus, this year.

ONLY MAN

John Bullard, the other historian, has the distinction of being the only man in the division. He majored in political science at Sam Houston State College, Huntsville, Texas, and did one year of graduate work in history toward his masters degree at the University of Texas, Austin.

John feels it would be of immeasurable assistance to men actively engaged in some of today's missile projects to make use of the histories and monographs that are available within the Command. He points out that they may find that history has recorded counterparts to their problems.

Personally, he recommends that before the award of an Army R&D contract, everyone (from the project manager, right down the line) who will be occupying a decision-making position in the project should: first, determine whether or not the contractor has conducted an R&D project for the Army before; secondly, if the contractor has, then check on the availability of a history of the project; and lastly, if the history is available, obtain a copy, read it, and in some instances retain it for future reference purposes.

John doesn't recall the exact quote or who said or wrote it, but there's one that goes something like this, —"He who refuses to read and attempt to understand history is doomed to repeat."

He looks on the history written here as a significant contribution to the national scene, and says that 30 to 40 years from now, people are going to find it valuable reading. "After all," John said, "the birth of the space age was an Army event made possible by the employees at Redstone. The event which Redstone helped bring about is a major turning point in the history of the world. There is no possible way that fact can be ignored. For example, the social, economic and political histories will be totally different because the world we live in now, and the one our children will inherit, is not the world we knew as children. That world, in all its ramifications, is just as extinct as the Dodo."

The lone male historian has been in his present position since January 1963. He formerly worked

for the Civil Service Commission Investigation Division in Huntsville, but he was alert for an opportunity to get into the history field.

EDITORIAL ASSISTANTS

Ruby Putman and Frances Strowd, editorial assistants, edit the historians' work and put it in final form.

They receive all kinds of requests for information and obligingly write answers when required.

Ruby is from Lexington, Ala. and attended Florence State where history and English were her main subjects.

She saw a poster one day recruiting people to work in Washington, D.C. and thought that sounded like a worthwhile adventure, so she applied. Two weeks later she was on her way. She worked there for the Navy in the early '50s, then came back South to Nashville General Hospital where she was the librarian. She's been in the Historical Division since 1959.

HORSES ARE HOBBY

Ruby's hobby is horseback riding. She keeps her horse "Blue Boy" on a nearby farm and spends weekends riding and attending horse shows and riding events.

"Blue Boy" has appeared in shows, but Ruby doesn't ride him herself in the show ring.

Frances, a native of Alabama, has really spent most of her career in Texas, but she was thinking for some time about coming back "home" before she made the change. Some of her varied assignments were while working for the Air Force when organizational changes took her from Louisiana to Illinois and Texas.

She wanted to return to Ala-

bama since her parents were elderly, and Texas was a little too far away for her to see them often. She joined the Historical Division in 1960 after working as an editor for the Air Force in publications.

The six people in Historical carry the responsibility for making a valuable contribution of specialized knowledge unavailable through any other source in the Army. Their advice to all is "read history and learn." It's the best way to gain experience.



YOU MAKE HISTORY, THEY WRITE IT—The staff of the Historical Division, Army Missile Command Administrative Office, decides how to approach one of the projects that office undertakes. Looking over the shoulder of Mary Cagle, acting chief of

the Division, are, left to right, John Bullard, Ruby Putman, Elva McLin and Frances Strowd. Helen Joiner, Division chief, is on her way to the University of Virginia for graduate study.

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Brockman Teaches Course At University Of Alabama

The University of Alabama in Huntsville has announced a special non-credit course in Labor-Management Relations which will be given at Morton Hall on the Huntsville Campus. Instruction will begin on September 23, 1964.

Labor-Management is a three phase course for use of supervisors and managers at all levels of government and private industry. Phase one will be taught in the Fall quarter; phase two in the Winter quarter; and phase three in the Spring quarter of the 1964-65 academic year. Application deadline is Sept. 21.

The instructor is L. M. Brockman, Personnel Management Officer and Special Assistant for Labor Relations, Army Missile Sup-

port Command. Brockman has earned bachelor of arts and master of arts degrees from Pennsylvania State University. He did advanced work at the University of Cambridge, England, University of Pennsylvania, and Pennsylvania State University. Brockman has 22 years of experience in personnel relations and training.

Emphasis will be placed on adequate orientation of supervisors and managers in handling management problems.

German Air Force Cadre Given OGMS Farewell Salute

Officers and men of Cadre 15 of the German Air Force said farewell to the Ordnance Guided Missile School in a farewell ceremony at the school. Col. Hobart V. Smith, assistant commandant, congratulated the unit on completion of its work.

Lt. Col. Johann Hellmers, German Air Force liaison officer, also addressed the unit.

Maj. Verne C. Wolfe, director of unit training, and Lt. Col. Hans Finck, German Army liaison officer were guests at the ceremony.

Music was provided by the 55th Army band.

At The Service Club

By Brenda Hanson

This week, we are going to experience what is known in scientific circles as the Autumnal Equinox. The Autumnal Equinox occurs when the sun crosses the equator on its way South for the winter, and to us this means that our half of the world will be getting a bit more chilly from now until the Vernal Equinox next March when ole Sol makes the return trip.

Chilly weather means that those who have been swimming, water-skiing, playing tennis and golf, and picnicing out-of-doors are going to seek entertainment inside warm buildings. Put the Service Club at the head of your list. The indoor fun starts here Wednesday night.

Tonight we'll hold a Junior Hostess meeting to plan the October programs. We urge each of you to attend the meeting.

Thursday night the bridge club will meet. If you are interested in learning to play or joining the club, this is an excellent time. More information may be obtained by calling 876-4531 or 876-5492.

Friday night, we have a versatile group of melody makers, the Harmonettes, will appear at the club. This is their second appearance. Make plans to hear them.

Saturday, we start with a watermelon cutting at 3 p.m., on the patio.

Sunday Coffee Call will be held at 9 a.m. The Platter Parade begins at 8 p.m. The dance ends at eleven.

Monday game night starts in the Main Lounge at 8 p.m. We'll award prizes to winners.

The annual Post Wide Pool Tournament is scheduled Sept. 22-23. These tournaments are usually highly competitive, so we are warning you now to dig out your cue and practice.

The recent Ping Pong Contest was won by Choe Hu Yong of 3 ETC. Choe is talented and a chal-

lenge to anyone who plays the game. Congratulations Choe.

More entertainment is in store for September. Attractions in the offing are a dog show, tackey party, and a Hootenanny. Plan to attend these events.

Until then, see you at the Service Club.

Movie Schedule

WEDNESDAY, 16 September
 "55 Days at Peking" (F)
 5:45 and 8:30 p.m.
THURSDAY-FRIDAY, 17-18 Sept.
 "Muscle Beach Party" (M-YP)
SATURDAY, 19 September
 "Ring of Treason" (M-YP)
SUNDAY-MONDAY, 20-21 Sept.
 "Soldier in the Rain" (M-YP)
TUESDAY, 22 September
 Walt Disney's "The Three Lives of Thomasina" (F)
 Two shows nightly at 6:00 and 8:30 p.m. except as noted above.
 Saturday matinee at 1:00 p.m., and Sunday matinee at 2:00 p.m.

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Redstone Is Runnerup In Third Army Tourney

Stymied by a pair of heart breaking losses to Ft. Bragg, Redstone was forced to settle for second place in the Third Army Softball tournament played at Ft. Rucker last week.

The locals had little trouble in racing to wins over Ft. Benning, Ft. Stewart and Ft. Jackson to reach the finals against the powerful Bragg nine. However, the North Carolinians took a 4-3 win in ten innings and added a 2-1 decision over eleven innings to capture the title.

The final game was played on Sunday afternoon after having been held up for two days because of heavy rains brought on by Hurricane Dora.

The two extra-inning losses overshadowed a brilliant pitching exhibition turned in by Paul Bennett who was on the hill in each of the games played by Redstone.

A fire-balling righthander, Bennett twirled a total of 40 innings over a span of seven days allowing just 21 hits and striking out 78 would-be hitters.

After drawing a first round bye, Redstone got into action on Monday with a 6-3 win over Benning. Bennett allowed Benning five hits in getting Redstone off to a winning start.

Home runs played a big part in the game as all of the scoring was accounted for by four homers. Manny Flores connected twice with Dave Rosado and Troy Keys each hit one circuit clout.

Bill Huber started against Ft. Stewart but Bennett took over in the third and was credited with an 8-3 win, with five innings of one-hit relief pitching.

Over the five-inning span Bennett struck out 14 of the 18 hitters that he faced and

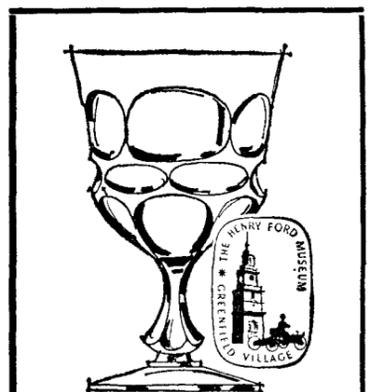
Golf Group To Begin Tournament

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club begins the annual club tournament with qualifying rounds today and tomorrow.

The tournament is a 54-hole medal play tournament.

Last week's competition was a dogfight with Team two the winners. Captain was Mrs. Frank Napper playing with Mrs. John Miller, Mrs. Stanley Tyler, Mrs. Lloyd Deppensmith and Mrs. G. W. Bowers.

Runnersup were on team four: Mrs. E. I. Donley, captain; Mrs. C. D. Sterner and Mrs. W. D. Lewis.



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An elegant flint glass reproduction from the Henry Ford Museum collection.

MANY OTHER PATTERNS TO CHOOSE FROM

A. L. HIPPI

JEWELER

"OUR 62ND YEAR"

Washington St.

Downtown Huntsville

helped his own cause with a three-run homer.

Redstone tasted defeat for the first time in their third encounter when the eventual winners from Ft. Bragg pushed across a run in the tenth for a 4-3 win.

Later the same day the locals earned the right to meet Bragg for the championship by trouncing Ft. Jackson, 7-1, behind the 2-hit, 16-strike-out pitching of Bennett.

The Redstone hitters broke out in another rash of homers in this game with Rosado, Huber and Bill

Kingree each connecting for a circuit clout.

Faced with the necessity of winning two games on Sunday against Bragg, Bennett once more took the mound and after permitting a run in the first inning, turned in nine straight shutout innings. Redstone pushed the tying run over in the fifth.

In the 11th two hits sandwiched around an infield error loaded the bases with Bragg runners with just one out.

When the next hitter tapped to third, the lead runner was retired at the plate but in trying for a double play, the catcher threw into left

field permitting the runner from second to race all the

way home with the winning run.

The Redstone Rocket

Sept. 16, 1964

Page 11

HOME LOANS

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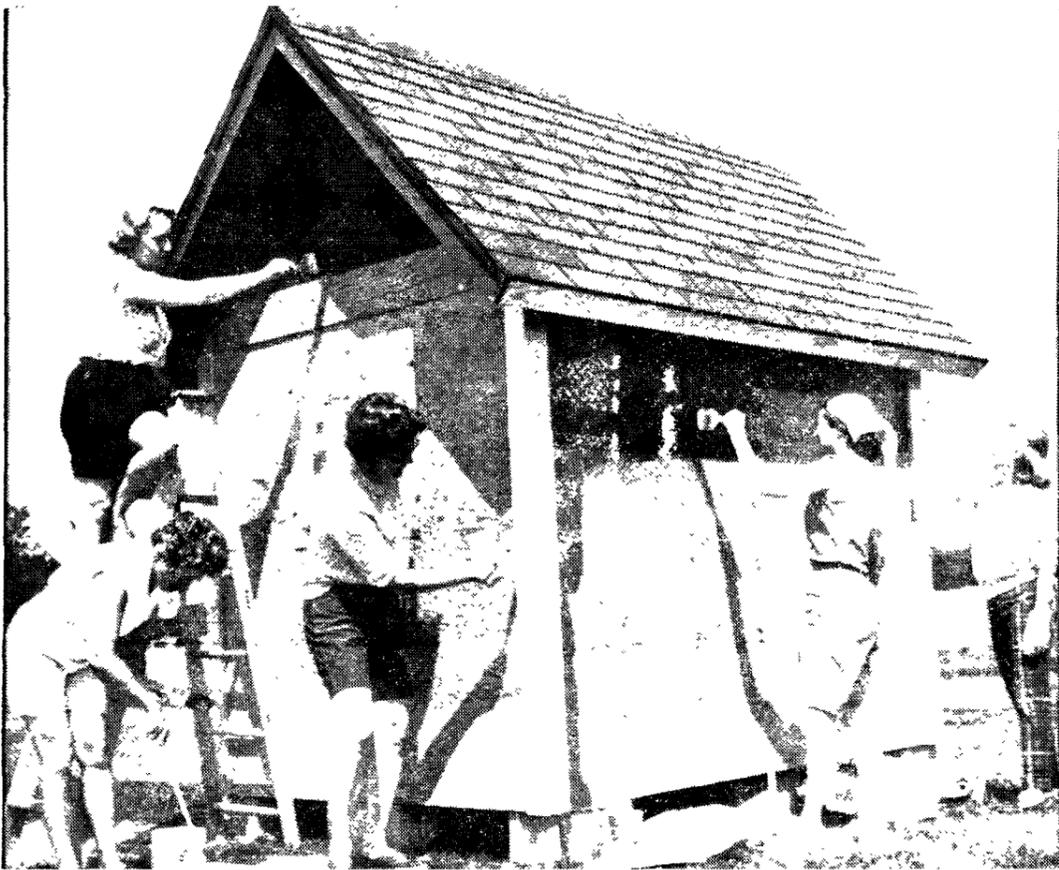
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106 Jefferson Street — Downtown Huntsville

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IT'S TURNING RED—The Little Red Schoolhouse on Redstone Arsenal gets a fresh coat of paint through the diligence of five members of the Redstone Arsenal Officers Wives Club. They are, left to right, Mrs. Howard P. Persons, Mrs. Reuben W. Mundy, Mrs. Alfred Holston, Mrs. Rawlins M. Colquitt, and Mrs. William H. Roedy. Mrs. Roedy is chairman of the Wives Club Special Projects and Joint Activities committee and recruited the other ladies to assist her in painting. The Schoolhouse is on Goss Road next to the filling station, and is part of the Christmas Charities Service in Huntsville. Repairable items of clothing, toys and household equipment left in the Schoolhouse are collected and taken to the Service's headquarters for refurbishing and distribution to the needy. Items too large to take to the Schoolhouse will be picked up at quarters by calling 852-1721.

Little Red Schoolhouse Receives Shiny New Coat

The Little Red Schoolhouse on Goss Road glistens with a new coat of paint and is ready to receive repairable items of clothing, toys and household equipment as part of the Huntsville program called Christmas Charities Services. The organization is a year round functioning service to the needy people of the community. In spite of what its name implies, they plan to change their name in the near future to Community Charities Service because they provide along with their well known toy distribution service to needy children at Christmas, clothing for needy school children, adult clothing to the Salvation Army, hos-

pital clothing to the indigent who are in the TB Sanatorium and

other local institutions, baby clothes to the Welfare and Madison County Health Department, items for Boy and Girl Scouts, bathing suits to the local YMCA, and school books.

Large items can be picked up at family quarters by calling 852-1721.

Anyone who would volunteer Christmas wrappings and/or their time to wrap packages from the Schoolhouse should call Mrs. William H. Roedy, 877-5973, Chairman

of the Special Projects and Joint Activities committee for the Redstone Arsenal Officers Wives Club.

The JANGOS will help with the wrapping, they and those who volunteer to assist will do the wrapping in the Chapel Clubroom early in December.

Christmas Charities needs volunteers to help sort and repair clothing, and toys, and to help fit school children each morning so they can attend school.

Cool
refresher
...ice
cold milk



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A B C**

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Although specific instructions may vary with the type of equipment, these basic steps will acquaint you with the principles involved:

- A. Set temperature of wall thermostat at lowest temperature setting. Check to see that main valve is open.
- B. Turn control to OFF. Wait at least five minutes. Turn control to PILOT. Depress pilot control and light pilot. Hold pilot control down approximately one minute or until pilot remains lighted.
- C. Turn control valve to ON. Reset wall thermostat to desired temperature.

By carefully following specific pilot lighting instructions printed on YOUR gas furnace, you should experience no difficulty. However, if pilot fails to relight, call your Huntsville Utilities Gas Department . . . they will be happy to clarify instructions or give assistance when needed.

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UNIVERSITY OF ALABAMA IN HUNTSVILLE

FALL SCHEDULE — 1964

REGISTRATION: SEPT. 21-22 — 1 p.m. - 7 p.m.

SCHEDULE OF CLASSES

COURSE	TITLE - PREREQUISITE	DAYS	LABS	SEM. HRS. CREDIT
FIRST PERIOD (8:00 - 10:05 A.M.)				
COURSES FOR FULL-TIME FRESHMEN STUDENTS WILL BE OFFERED AT THIS PERIOD. SUBJECTS WILL BE SCHEDULED AFTER COUNSELING SESSIONS WHICH ARE REQUIRED OF BEGINNING FRESHMEN.				
HY 21	The United States to 1865—none (not open to beginning freshmen) M-W			3
PY 1	Introduction to Psychology - none (not open to beginning freshmen) T-Th			3
SECOND PERIOD (10:10 a.m. - 12:15 p.m.)				
COURSES FOR FULL-TIME FRESHMEN STUDENTS WILL BE OFFERED AT THIS PERIOD				
PHL 31	Philosophy of Art - none (not open to beginning freshmen) T-Th			3
THIRD PERIOD (1:30 - 3:35 p.m.)				
COURSES FOR FULL-TIME FRESHMEN STUDENTS WILL BE OFFERED AT THIS PERIOD				
EH 5	English Literature - EH 1, 2 T-Th			3
FOURTH PERIOD (3:50 - 5:55 p.m.)				
EE 178	Advanced Communications I - EE 134 or equiv. M-W			3
EE 181	Electromagnetic Fields and Waves - EE 134 or equiv. M-W			3
EE 201*	Transients in Linear Systems - EE 134 or 104 or equiv. T-Th			3
EE 210*	Analog Computer Techniques - EE 104 or 134, MA 53 - T-Th (To be Arranged)			3
EE 213*	Antenna Theory - EE 182 or 221 or equiv. - M-W			3
EE 307*	Nonlinear Control Systems - EE 255 or equiv. - T-Th			3
GES 221*	Graduate Engineering Analysis I - MA 53 - T-Th			3
IE 212*	Theories of Organizations - Perm. of Instr. - T-Th			3
IE 255*	Statistical Methods for Engineers - MA 51, Perm. of Instr. - M-W			3
MA 122	Advanced Calculus - 17 hrs. MA Inc. MA 53, 98 or equiv. - M-W			3
MA 127	Vector Analysis - 17 hrs. MA - M-W			3
MA 130	Analytic Projective Geometry - 17 hrs. MA - T-Th			3
MA 170	Metric Spaces - MA 91 - M-W			3
MH 161	Advanced Mechanics of Materials I - MH 64 - M-W			3
MH 251*	Mechanics of Continuous Media - MH 64, MH 80, MA 53 - T-Th			3
MH 257*	Advanced Dynamics I - MH 251 - M-W			3
PH 103a	Elementary Quantum Mechanics - PH 53, 72, 85 - M-W			3
PH 105	Modern Physics II - PH 103 - M-W			3
PH 231*	Electromagnetic Theory - Perm. of Instr. T-Th			3
FIFTH PERIOD (6:00 - 8:05 p.m.)				
ACC 1	Principles of Accounting - none - T-Th			3
ACC 53	Intermediate Accounting - ACC 3 - M-W			3
ACC 101	Cost Accounting - ACC 3 - T-Th			Cert. Cr.
AE 125	Fundamental Aerodynamics - MH 80, ME 95 - M-W			3
AE 160	Aerodynamics I - MH 56 - T-Th			3
AE 171	High Speed Aerodynamics - AE 132, GES 131 - M-W			3
AE 182	Advanced Structural Analysis - AE 155 - T-Th			3
Art 7	An Introduction to Design - none - T-Th (6:00-9:00)			2
BIO 1	General Biology (Plant) - none - M-W - F. 6-10 p.m.			4
CH 1	Introductory Chemistry - none - M-W - Th. 5-8 p.m.			4
CH 11	General Chemistry - See Footnote - M-W - F. 6-9 p.m.			4
CH 242*	Advanced Physical Chemistry - Perm. of Instr. - M-W			3
CHE 221*	Diffusional Operations - Perm. of Instr. - T-Th			3
DR 5	Engineering Drawing - none - M-W - F. 6-10 p.m.			2
ED 61	Foundations of Education in U.S. - Soph. Standing - T-Th			3
EE 104	Electronics - EE 54 or EE 95 - T-Th (To be Arr.)			3
EE 134	Electric Circuits III - EE 113, 133, MA 53 - T-Th			3
EE 177	Automatic Control Theory - EE 134 - T-Th			3
EE 395-396*	Seminar - T			0-1
EE 395-396*	Seminar - Th			0-1
EH 1	English Composition - See Footnote - M-W			3
EH 2	English Composition - EH 1 - M-W			3
EH 2	English Composition - EH 1 - T-Th			3
EH 6	English Literature - EH 1, 2, 5 - T-Th			3
EH 51	Fiction Writing - 9 hrs. EH - (To be Arr.)			3
FR 4	Intermediate French - FR 3 - M-W			3
GES 77	Nature and Properties of Materials - CH 15, PH 6, MA 49 - M-W			3
GN 1	Elementary German - none - M-W			3
GN 2	Elementary German - GN 1 - T-Th			3
HE 30	Introduction to Child Development - none - T-Th			3
HY 1	History of Western Civilization - none - T-Th			3
HY 21	The United States to 1865 - none - M-W			3
HY 73	Foreign Relations of the United States through 1898 - 9 hrs. of HY - T-Th			3
IE 159	Introduction to Operations Research - IE 56 or MA 113 or Perm. of Instr. - T-Th			3
IE 206*	Principles of Human Engineering - Perm of Instr. - M-W			2
LS 80	Library Operations and Management - 60 hrs. of college work - M-W			3
MA 01	High School Algebra - none - T-Th			NC
MA 9	College Algebra - See Footnote - T-Th			3
MA 11	Introductory College Mathematics - See Footnote - T-Th			3
MA 25	Analytic Geometry and Calculus - MA 9 or 11, MA 15 - M-W			3
MA 25	Analytic Geometry and Calculus - MA 9 or 11, MA 15 - T-Th			3
MA 49a	Calculus and Analytic Geometry - MA 25 - M-W			3

COURSE	TITLE - PREREQUISITE	DAYS	LABS	SEM. HRS. CREDIT
MA 51	Calculus - MA 49b - M-W			4
MA 76	Solid Analytic Geometry - MA 51 - M-W			3
MA 123	Series and Special Functions - MA 122 or 155 - M-W			3
MA 142	Introduction to Higher Algebra - 17 hrs. of MA - M-W			3
MA 155	Introduction to Complex Analysis - MA 91, 53 or 122 - T-Th			3
MA 245*	Higher Algebra - Undergraduate major - M-W			3
ME 95	Thermodynamics - PH 5, MA 51 - T-Th			3
ME 140	Heat Transfer - ME 95 - M-W			3
ME 163	Principles of Propulsion - ME 136 - M-W			3
ME 201*	Fundamentals of Thermodynamics I - M-W			3
ME 203*	Heat Convection and Mass Transfer - T-Th			3
ME 295-296*	Seminar - T-Th (one day only)			0-1
MH 55	Statics - MA 49, PH 5, Parallel MA 51 - T-Th			3
MH 160	Mechanical Behaviour of Engineering Materials - MH 64 - T-Th			3
MH 280*	Compressible Fluid Flow - MH 80, ME 136 - M-W			3
MH 356*	Vibration of Continuous Elastic Bodies - MH 155, MA 125, MA 155, or equiv. - M-W			3
MH 371*	Theory of Plasticity - MH 251 - T-Th			3
MH 395-396*	Seminar (Solid Mechanics Students only) - T-Th (one day only)			0-1
PH 6c	Technical Physics (Heat, Light, Sound - PH 5c - T-Th - W. 5-8 p.m.			3
PH 59	Methods of Theoretical Physics - MA 51, 8 hrs. PH - T-Th			3
PH 141	Geometrical and Physical Optics - MA 51 and 14 hrs. PH - M-W			3
PHL 3	Problems of Philosophy - none - M-W			3
PSC 283*	Problems in American National Government - T-Th			3
PY 7	Psychology of Adjustment - PY 1 - T-Th			3

SIXTH PERIOD (8:10-10:15 p.m.)

ACC 2	Principles of Accounting - ACC 1 - T-Th			3
BL 51	Introduction to Business Law - Perm. of Instr. or Jr. Stand. - M-W			3
DR 11	Engineering Drawing - MA 25 or previous Instr. of Mech. Dr. M-W - F. 6-10 p.m.			2
EC 1	American Economic History - none - M-W			3
EC 11	Principles of Economics - none - MW			3
EC 12	Principles of Economics - EC 11 - T-Th			3
EH 03	Fundamentals of English - none - T-Th			NC
EH 1	English Composition - See Footnote - T-Th			3
EH 41	English Composition for Engineers - See Footnote - T-Th			3
EH 5	English Literature - EH 1, 2 - M-W			3
EH 9	American Literature - EH 1, 2 - M-W			3
EH 95	Shakespeare - 9 hrs. of EH - T-Th			3
EPY 63	Educational Psychology - PY 1 - T-Th			3
ES 2	Fundamentals of Earth Science - none - M-W - Th. 5-8 p.m.			4
FR 1	Elementary French - none - T-Th			3
GN 3	Intermediate German - GN 1, 2 - M-W			3
GN 10	Scientific German - GN 9 - T-Th			3
GY 2	Physical Geography - GY 1 - M-W - S. 9-12 a.m.			4
HU 104	Problems of Thinking and Knowing - Jr. Standing - M-W			3
IE 53	Manufacturing Processes - Sophomore Standing - T-Th			3
IE 55	Introduction to Engineering Statistics - MA-49, conc. MA 51 - M-W			3
MA 01	High School Algebra - none - M-W			NC
MA 02	Plane Geometry - none - T-Th			NC
MA 9	College Algebra - See Footnote - M-W			3
MA 15	Analytic Trigonometry - MA 9 or 11 - M-W			3
MA 15	Analytic Trigonometry - MA 9 or 11 - T-Th			3
MA 49a	Calculus and Analytic Geometry - MA 25 - T-Th			3
MA 49b	Calculus and Analytic Geometry - MA 49a - T-Th			2
MA 53	Applied Differential Equations - MA 51 - T-Th			3
MA 91	Introduction to Real Analysis - MA 51 - T-Th			3
MGT 51	Principles of Administrative Organization - EC 11, 12 - T-Th			3
MH 56	Dynamics - MH 55, MA 51 - T-Th			3
PH 5c	Technical Physics (Mechanics) - MA 25 or parallel recommended parallel MA 49a - M-W - Th. 5-8 p.m.			3
PH 53	Introduction to Modern Physics - MA 49, 8 hrs. PH - M-W			3
PH 85a	Electricity and Magnetism - PH 59 - T-Th			3
PSC 1	Principles of American Government - none - M-W			3
PSC 3	Functions of American Government - PSC 1 - T-Th			3
PY 1	Introduction to Psychology - none - T-Th			3

COURSES WITH SPECIAL SCHEDULES

Undergraduate Education

ED 90	Principles of High School Teaching (Semester Course) ED 88			3
ED 97	Secondary School Teaching (Semester Course) ED 80, Sr. Standing, concurrent with ED 90			9

Graduate Education

CGP 211*	Principles of Guidance (Semester Course) - T - 6-9 p.m.)			3
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SPECIAL NON-CREDIT COURSES

COURSE	TITLE - PREREQUISITE	Days	Time
ART	Art Painting Workshop - none	T-W	9:00-12:00 a.m.
CS	Current Affairs Seminar - Focus on Emerging Africa - none	F	8:00-10:00 p.m.
DCF	Digital Computer Fundamentals - none	T-Th	6:00-8:05 p.m.
DCF II	Digital Computer Fundamentals - DCF 1 recommended	T-Th	8:10-10:15 p.m.
GDC	Government Defense Contracting - none	T-Th	6:00-8:05 p.m.
INV I	Investments - none	Th	8:10-10:15 p.m.
IP	Industrial Purchasing - none	Th	6:00-8:05 p.m.
LM I	Labor Management Relations I	M-W	6:00-8:05 p.m.
RI I	Reading Improvement - none	Th	8:10-10:15 p.m. (14 wks.)
RI II	Reading Improvement II - RI I		(To be Arr.)

FOOTNOTE: Students are placed in appropriate sections of beginning English, chemistry, and mathematics depending on scores made on placement tests. Such tests will be given during regularly scheduled counseling sessions for beginning students.

NOTE: Boldface symbols indicate Graduate Study Program Courses. The * indicates that graduate standing is required before a student may take this subject.

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Page 14 The Redstone Rocket — Sept. 16, 1964

1. For Rent

APARTMENTS FOR RENT—in Athens Ala. One bedroom, living room, kitchen and bath apartments (new). From \$60.00 to \$67.50 per month. Athens, Alabama. Immediate occupancy. (1 year lease required). Have one furnished efficiency apartment at \$60.00. See David U. Patton, P. O. Box 366, phone 232-2610, Athens, Alabama. 9-23-c

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NIGHTS 852-3641

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3. Miscellaneous

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Fact Sheet Explains Project TECSTAR

lems in matrix theory.
Dr. Lehnigk has been at Redstone Arsenal since 1959, and is a steady contributor of mathematical articles in technical journals. He received the PhD degree in mathematics from the Technical University of Braunschweig, Germany, in 1957.

In answer to questions about Project TECSTAR (Technical Career Structure of the Army), the Office of the Chief of Information issued the following fact sheet:

The Department of the Army, on March 1964, initiated a comprehensive study to codify, clarify and define as necessary the Army-wide pattern of technical missions, activities and functions and to develop a career system to provide properly trained and motivated personnel to perform them.

The project is titled TECSTAR, since it concerns the technical career structure of the Army. It will operate under the supervision of the Comptroller of the Army.

The overall study has as one objective a thorough examination of the present officer career systems. It will determine what changes, if any, are needed to meet the modern Army's requirements. TECSTAR does NOT have as an objective the elimination or consolidation of the present technical service branches. Nor does TECSTAR envision any major reorganization within the Army.

from the technical service branch support structure previously followed. This change has continued into the ROAD division and into CONUS Army Headquarters and Army posts. Despite these changes, officer branch career patterns are still being used and officer careers being managed by branch elements within the Department of the Army Headquarters.

The Army recognized the career implications of these streamlining changes and established the TECSTAR committee to monitor and draw together numerous Army wide efforts related to technical officer career development. All Department of the Army general staff agencies and the Office of Personnel Operations are represented on the group. The major Commands, CONARC, Army Materiel Command, Combat Developments Command, and Army special staff agencies will provide information and support for the project.

TECSTAR will attempt a solution which provides incentive for technical officers. It will seek to make the best and broadest possible use of the talents of technical officers and give the Army a strengthened supporting technical structure. It will develop a solution to the problem of grouping and using officers in a way that offers challenging, rewarding career patterns while providing maximum effectiveness in technical missions, activities, and functions of the Army.

The study is divided into three general tasks, as follows:

1. Identifying, defining and cataloging organizational and functional areas, to include tasks and

Paper Being Presented In Austria

REDSTONE ARSENAL, ALA.—A scientist from the Army Missile Command will present a paper at the International Meeting of Mathematicians which began Sept. 13 at Graz, Austria.

Dr. Siegfried H. Lennigk, a research physical scientist from the Physical Sciences Laboratory of Directorate of Research and Development will discuss the mathematical theory of linear and nonlinear control systems which apply to missile stability problems. Title of the paper is "Structurally Hurwitzian Polynomials."

While in Europe, Lehnigk will also discuss details and future

skills, which comprise technical missions.

2. Further definition of positions in terms of an MOS system which describe the qualifications for the positions in terms of the training and experience required.

3. Developing the career system to provide the properly trained and motivated personnel to discharge the technical activities and functions of the Army.

TECSTAR seeks an enduring solution to problems, rather than a temporary cure, and is expected to confirm that the future holds greater opportunities than ever before for technical officers. The aim of TECSTAR is to take advantage of these opportunities in such a way as to benefit both the officer and the Army.

The TECSTAR project is a long-term undertaking with no completion date yet determined. Every effort will be made, however, to complete the study as rapidly as possible so that doubts and uncertainties can be removed from and important segment of the officer corps. Information concerning the progress of TECSTAR will be made available as a major task of the study are completed.

plans of research contract the Army has with the University of Basel in Basel, Switzerland. Purpose of the contract is to make special investigations of stability prob-



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Accountants Will Meet

The Huntsville Chapter of the Federal Government Accountants Association will hold its first meeting for the new year tomorrow, at the Redstone Officers Club beginning at 6:30 p.m.

Guest speaker will be Brig. Gen. C. W. Eifler, Deputy Commanding General, Land Combat Systems, Army Missile Command. His topic will be "Financial Irresponsibility."

Chapter officers for the new year are:

Clyde Franklin, president; Dean Elder, vice president; Jim Jones,

secretary; and Tom Whiteside, treasurer.

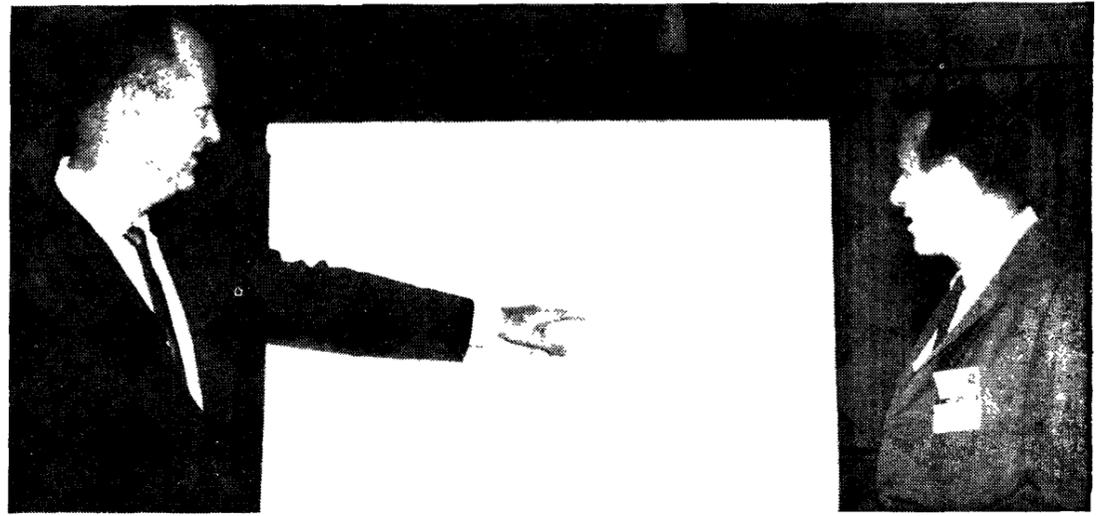
Committee chairmen are: Attendance, Jim Mobley; By-laws, Walt Parker; editorial and research, Sam Huffstetler; education, Dave Hudson; finance, Dean Elder; membership, George Hall; publicity, Hoyt Johnson; parliamentarian, Ted Kromis.

GRINER REMAINS AFGE PRESIDENT

Local Lodge 1858 cast the largest single ballot in the 34 year history of the American Federation of Government Employees at the union's 19th convention last week in Dallas, Texas.

The lodge, composed of Army and NASA employees at Redstone Arsenal, cast a solid block of 2,092 votes to give a major boost to John F. Griner's successful bid to remain president of the national organization.

The number of votes permitted each lodge is based on a computa-



TELSTAR MAN VISITS—Hugh P. Kelly (right), head of the Ground Station Design Department for Bell Telephone Laboratories, talks research and development with John L. McDaniel, Technical Director for the Army Missile Command's Directorate of Research and Development. Kelly was here to speak to a meeting of the Institute of Electrical and Electronic Engineers about Telstar, in which he played a key role, and other methods of global communications.

RESERVES GIVEN SPECIAL TRAINING

A team of Army missile and rocket experts from Redstone Arsenal brought reserve officers from all branches of the Armed Forces up to date on the Army's missile and rocket program at a special training session in Birmingham Thursday night.

More than 200 area reserve officers attended the first of several Reserve Officer Educational Training Sessions. The program featured briefings on the Army's land combat, air defense, and anti-missile missile programs and the missile maintenance training program for more than 5,000 military personnel annually from the U. S. and 16 foreign nations.

Representing the U. S. Army Missile Command, Nike-X Project Office and Ordnance Guided Missile School, the team was headed by Col. John T. O'Keefe, Chief of the Development Division of the Missile Command's Directorate of Research and Development. Major William A. Cole, Special Assistant to the Sergeant Project Manager, represented the land combat systems. Col. Richard Irvin, Jr., represented the air defense system.

Capt. John S. Farrington told the group about the latest developments in the Army's Nike-X ballistic missile defense system development program. Lt. Col. James M. MacDonnell, Chief, Office of Operations and Security at the Ordnance Guided Missile School, told how the Army trained both U. S. and foreign military students.

The same team from Redstone Arsenal briefed Naval Reserve Officers at a special training session in Huntsville Wednesday night.

tion involving the average number of dues paying members for the past two years.

Griner, put in the lead to stay by the Lodge 1858 vote, defeated

Adrian Roberts of Washington, D. C., to retain the national presidency. A total of 108,583 votes were cast.

Dennis Garrison, president of

Lodge 1858, was installed at the convention as vice president for the union's Fifth Region which includes all states in the south-east.

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