

# GIVE The UNITED Way

# The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

October 16, 1963

## Troops Are Successful In Firing

The Army's Pershing ballistic missile moved a step nearer to operational status Monday with a successful test firing from Fort Wingate, N. M., to an impact point within White Sands Missile Range.

The firing, conducted by troops operating under near tactical conditions, was a service test to determine if the Pershing system meets the desired military characteristics when used by soldiers in the field.

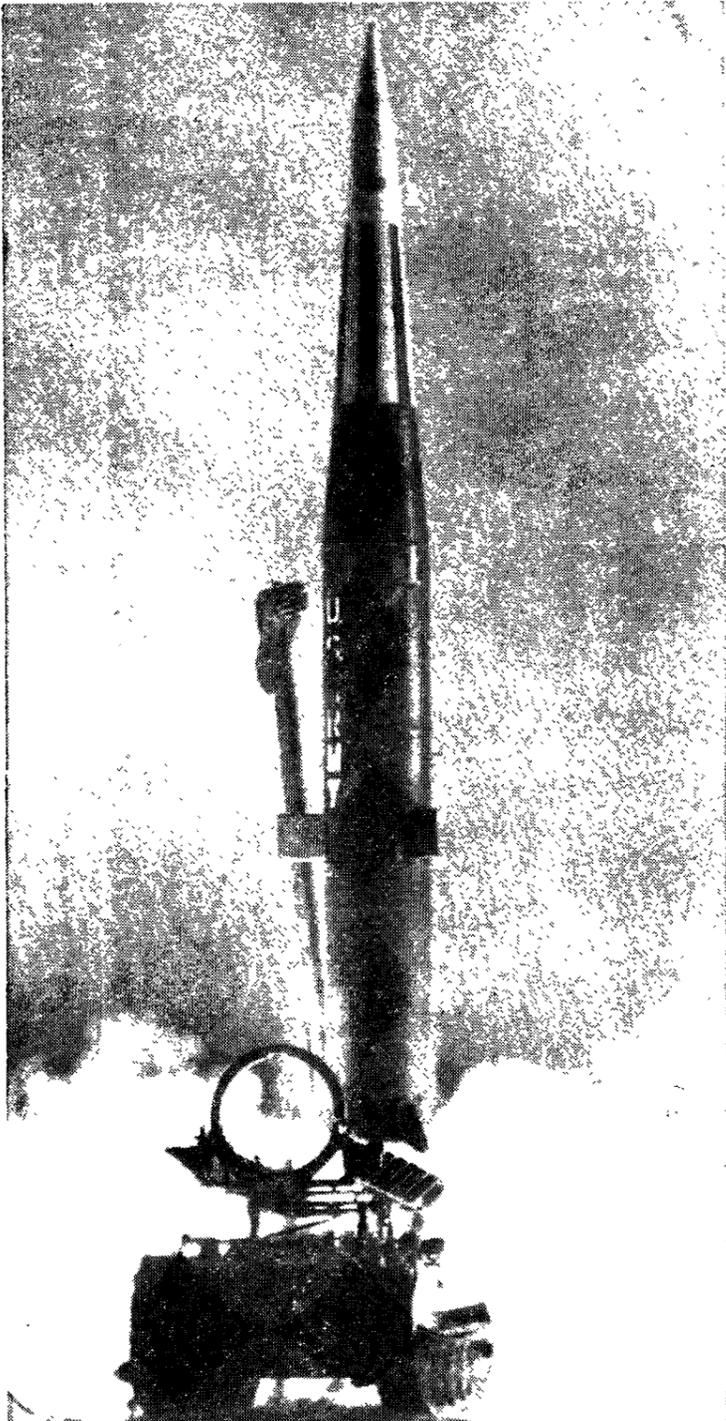
The development of the highly mobile Pershing has been under the management of the Pershing Project Office at the Army Missile Command. Col. Edwin I. Donley is Pershing Project Manager.

The successful completion of Army test and evaluation—such as the service tests at Fort Wingate—will mean an operational status for Pershing and subsequent deployment overseas.

Monday's firing was conducted by Battery A, 2nd Missile Battalion, 44th Artillery from Fort Sill, Okla. Battalion commander is Lt. Col. Pat Powers, and A Battery is commanded by Capt. Donald Phipps.

Battery A has conducted all service firing tests conducted to date, starting at Cape Canaveral, Fla., and later at Hueco Range, N. M., part of the Fort Bliss, Texas, installation.

After a short Hueco firing series to points within White Sands, the 400 men of the battalion traveled 630 miles to Black Mesa near Blanding, Utah, where they put the Pershing system (See TROOPS on Page 3)



**PERSHING AT LIFT-OFF**—The Army Missile Command developed Pershing billows smoke and flame at lift-off from Fort Wingate, N.M., where the highly mobile missile system is undergoing a series of service test firings. The launch moved Pershing another step nearer operational status.

## Gen. Funk Will Speak To AOA

Maj. Gen. Ben I. Funk, who commands the Space Systems Division of the Air Force Systems Command will be the principal speaker at the annual meeting of the Tennessee Valley Post of the American Ordnance Association.

David H. Newby, chapter president, said the dinner meeting has been scheduled for the evening of November 26th in the Redstone Arsenal Officer's Club.

Theme of the meeting will be "Military Space Operations." Newby said about 500 chapter members, their wives and guests will attend.

Tickets will go on sale shortly on the Arsenal and downtown in Huntsville. Chapter membership includes key officials of the Army Missile Command and Marshall Space Flight Center as well as aero-space industrial firms and civilian leaders of the North Alabama area.

Gen. Funk's command, a military-civilian team, centered in Los Angeles, is responsible for planning and developing a military space capability for the United States.

In a supporting role for the National Aeronautics and Space Administration, it provided the launch vehicles for many of the nation's near and deep space programs including Mercury, Ranger and Mariner. Also in support of NASA the Space Systems Division will provide the Titan II space booster for the Gemini two-man space capsule.

## DA CONFERENCE PLANNED HERE

The U. S. Army Missile Command will be host this month to a major Department of Army conference on research, development and testing.

This meeting, the Ninth Conference on the Design of Experiments in Army Research, Development and Testing, will bring to Redstone Arsenal some of the nation's top engineers and scientists in fields related to missiles and space.

Main speaker for the three-day event will be Dr. Craig M. Crenshaw, Chief Scientist of the Army Materiel Command, Washington, D. C. He will speak following the banquet to be held Thursday evening, October 24. The conference will run from Oct. 23 through Oct. 25.

Invited to participate as speakers during the course of the conference are Prof. Solomon Kullback, Department of Statistics, George Washington University; Dr. Frank Proschan, Mathematics Research Laboratory, Boeing Scientific Research Laboratories; Dr. Churchill Eisenhart, National Bureau of Standards; Prof. H. O. Hartley, Institute of Statistics, Agricultural and Mechanical College of Texas; Prof. David B. Duncan who is in Statistics and Biostatistics at Johns Hopkins University and also is Statistical Consultant to the Atlantic Missile Range.

The conference is sponsored by the Army Mathematics Steering Committee at the U. S. Army Research Office, Durham, N. C.

Brig. Gen. Howard P. Persons, Deputy Commanding General for Air Defense Systems, Army Missile Command, will welcome the visitors to Redstone Arsenal. He will be introduced by Col. Daniel F. Shepherd, Director of the Missile Command's Directorate of Research and Development, who will call the conference to order at the Rocket Auditorium.

Wade H. Ewart of the Directorate of R&D is Chairman of Local Arrangements.

Other Missile Command personnel from DR&D on the program are S. H. Lehnigk, Physical Scientist (See CONFERENCE on Page 2)



MAJ. GEN. J. E. ENGLER

## Gen. Engler Will Visit

Maj. Gen. Jean E. Engler, newly-appointed Deputy Commanding General of the U. S. Army Materiel Command, will visit Redstone Arsenal next week.

Gen. Engler was designated Deputy to Lt. Gen. Frank S. Beson, Jr., in September after having been Commanding General, U. S. Army, Japan, for the past two years.

He will arrive at Redstone Monday to start a two-day indoctrination tour of the Army Missile Command and its facilities. The Missile Command is one of seven major commodity commands under the Materiel Command. His present tour will take Gen. Engler to each of the field commands for orientation on missions and capabilities.

While here, Gen. Engler will be briefed by Brig. Gen. John W. Zierdt, Commanding General of the Missile Command. Brig. Gen. Howard P. Persons, Deputy for Air Defense Systems, Brig. Gen. Charles W. Eifler, Deputy for Land Combat Systems, and each of the Command's Project Managers and Directorate heads will present briefings on their areas.

Gen. Engler is a 1933 graduate of the U. S. Military Academy, receiving a commission as second lieutenant in the Infantry. His first assignment was at Randolph Field, Texas, with later service in Wyoming and the Panama Canal Zone.

In 1938 he transferred to the Quartermaster Corps and was assigned to the Holabird Quartermaster Depot in Maryland where he served as Executive Officer and assistant chief of the Engineering Division until 1942.

From there he was assigned to the Desert Test Command at El Centro, Calif., as Commanding Officer and, in (See ENGLER on Page 2)

## P & P Directorate Changes Moves Schaeppi To Deputy

An officer who has spent most of his 21 years of Army service in the field of industrial operations is retiring the end of this month.

He is Col. Edward R. Billings, Deputy Director, Army Missile

Command Procurement and Production Directorate at Redstone Arsenal, Ala.

Colonel Billings is being succeeded by Paul K. Schaeppi who is moving up to the deputy position from Assistant Director, Support Operations in the Directorate.

Col. Billings came to Redstone in June, 1959. During his four years at the center of Army missile development he has held assignments as deputy assistant Chief of Staff and Chief of Staff for Industrial Operations, Army Ordnance Missile Command, then as Assistant Director of Support Operations in the P&P Directorate before becoming the Deputy Director a year ago.

He came to Redstone from Cambodia where he was Ordnance Officer for the United States Military Assistance Advisory Group in a management and technical capacity.

Some of the highlights of the colonel's experience include Ordnance Staff Advisor for the Army Field Forces, Fort Monroe, Va.; Office, Chief of Ordnance, Wash-

ington, D. C., where his duties were procurement and production of ammunition; detail to the Air Force in Wiesbaden, Germany, and an assignment in the Office of the Assistant Secretary of the (See SCHAEPPi on Page 3)



P. K. SCHAEPPi



COL. E. R. BILLINGS

# The Redstone Rocket

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## Rocket Ruminations

"There is more to life than increasing its speed."  
--Gandhi

## Cost Reduction For Us All

The Department of Defense is placing a great deal of emphasis on cost reduction these days. The Army's implementation of the program plus our own efforts here at Redstone prompted some individual reflections on this subject.

All too frequently, perhaps, we think of a reduction program as something which affects someone else—a man who deals in millions, commands hundreds of people, or directs the development of a missile system.

But just as the housewife reduces the grocery bill by cooking four potatoes instead of five when the fifth would not be eaten, so each of us can and must have a part if we are really successful in a cost reduction program.

There are about 10,000 of us here at Redstone who work for the Army. If we each waste one penny every working day, that's \$26,000 a year . . . more than most of us will save in a lifetime.

It doesn't take many wasted sheets of Government bond paper, misplaced pencils or ballpoint pens, sloshovers at the gasoline tank or lost electronic parts to go well above the penny per day per person.

Each of us should stop and think about our daily activities, remembering every time during the day that we handle Government property. No doubt we will find many wasteful practices that are so common they have become almost routine. Recognized, such practices should be corrected, of course.

Applying cost reduction on a personal basis is the only way to really bring the taxpayers bill down as low as we can.

## ENGLER

(Continued From Page 1)

1944, he became an automotive research engineer in the Technical Division at Aberdeen Proving Ground, Md.

For a year Gen. Engler served with the Special Equipment Division in the Office, Chief of Ordnance, in Detroit, Mich., and in July, 1945, he was transferred to General Headquarters in the Pacific as Chief of the Equipment Division.

Early in 1947 he was transferred to the Ordnance Corps and was named Deputy Ordnance Officer in Japan, returning to the Office, Chief of Ordnance, in June, 1948, where he served as Chief of the Automotive Branch of the Industrial Division.

Late in 1952 he was assigned as Chief of the National Production Control Division of the Ordnance Tank-Automotive Command.

In January, 1956, General Engler was named Chief of Ordnance. He served in this capacity until July, 1957, when he was assigned to the Office, Deputy Chief of Staff for Logistics, as Chief of the Procurement Division. Later he was designated Director of Procurement.

Gen. Engler was assigned to Headquarters, U. S. Continental Army Command at Ft. Monroe, Va. in June, 1959, and served as Deputy Chief of Staff for Logistics.

He served two years on this assignment and in May, 1961, went to Japan as Commanding General of the U. S. Army forces there.

Gen. Engler has received the Legion of Merit with Oak Leaf Cluster. He was awarded the Legion of Merit in 1945 for his participation in the development and production of synthetic rubber and high flotation vehicle tires.

In 1946 the then Lt. Col. Engler was cited for the Legion of Merit Oak Leaf Cluster for exceptionally meritorious conduct in the performance of outstanding services in the Southwest Pacific area and Japan.

During the period in which Gen. Engler was assigned to the Ordnance-Tank-Automotive Command, he was commended for his role in planning the combat vehicle production stretch-out program. He was also commended for his planning on the Ordnance Corps Layaway Program, which allowed for a much shorter mobilization in time of emergency.

## CONFERENCE

(Continued from Page 1)

ces Lab; L. W. Kesting, Propulsion Laboratory; Dietrich E. Gudzent, Structures and Mechanics Laboratory; John L. McDaniel, Technical Director; and Henry Dihm, Advanced Systems Lab, Future Missile System Division.

During each of the three days the conference will have general sessions as well as concurrent technical and clinical sessions. Panels will participate in discussing the various clinical papers to be presented.

Prior to the banquet Thursday evening, the visitors will be entertained at a social hour.

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## Our Speakers At Redstone Are Busy Men

With one down and three to go, four Redstone Arsenal speakers step to the rostrum this week.

Heading the circuit was Col. Edwin I. Donley, newly assigned Pershing Project Manager.

Col. Donley was principal speaker at a noon luncheon of the Huntsville Rotary Club at the Rusesel Erskine Hotel yesterday. Topic of Col. Donley's address was Korea.

He recently returned from Korea where he served with the Korean Military Advisory Group (K MAG) as Senior Supply and Maintenance Advisor to the Deputy Chief of Staff for Logistics, Republic of Korea Army.

Dr. David C. Sayles, a chemist with the Propulsion Laboratory of the Missile Command's Directorate of Research and Development, will address the North Alabama Chapter of The American Institute of Chemists tomorrow night. Subject of Dr. Sayles address will be "The Chemist in Military Research and Development Technology."

William B. Howard, a photographic instrument repairman with the Army Missile Support Command's Maintenance Division, will address the Alabama Chapter, Federation for the Blind at Anniston, Ala., Saturday.

Howard, who is blind himself, will talk to the group about his career as a handicapped Government employee.

Post Chaplain (Lt. Col.) Wilmer R. Bottoms will be guest speaker at the evening program at the Cullman, Ala., First Methodist Church. Chaplain Bottoms will discuss the role of Army missiles and

## Five Locals Take Top Supply Course

A quartet of civilian employees of the Army Missile Command are at Ft. Lee, Va., where they are enrolled in the Army Supply Management Course.

This twelve-week course is the most advanced supply management course offered at the Army Logistics Management Center. The local personnel were enrolled for the training under the Command's career development program administered by Civilian Personnel.

Three of the four Redstone Civilians in the Supply course are employed by the Directorate of Supply and Maintenance, while the other works for the Installations and Services Office.

The S & M personnel are William D. Langley, David T. Carr, and Alvin L. Sherertz. Donald J. Southard is attending the training program for I & S.

A new Multipower Army Stereoscope is being tested by the U.S. Army Engineer Geodesy, Intelligence and Mapping Research and Development Agency, Fort Belvoir, Va., for use in study and evaluation of high altitude photography.

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# REDSTONE UGF DRIVE HITS HALF WAY MARK

The Redstone Arsenal United Givers Fund campaign reached the halfway mark this week with an air of guarded optimism prevailing among campaign officials.

After reviewing the latest statistics James J. Fagan, campaign chairman, indicated that the final outcome of the drive will depend upon activity during the next three weeks.

"While we are holding our own at this time," he stated, "we are going to have to work hard during the concluding weeks if we hope to continue the Redstone tradition of thoughtful and generous giving."

In the weekly report released Monday by Al LaGrone, Finance and Reports Chairman, the total amount pledged had reached \$177,250, with \$87,696 of this already collected.

All but two of the 20 reporting agencies had received pledges from at least half of their personnel and only four others had not reached 75 per cent in participation.

At the same time five agencies, including the two largest directorates, counted over 90 per cent of their personnel among the participants.

The Office of the Deputy Commanding General, Land Combat Systems, remains the only agency

UGF SCOREBOARD		
	% Par-	% Fair
	ticipation Share	
Office of the CG	77	57
DCG, Air Defense	82	45
DCG, Land Combat	100	102
P & P	93	81
S & M	94	85
R & D	87	72
Missile Intelligence	42	4
Hawk	51	43
Hercules	89	77
Lance	89	77
Mauler	97	92
Pershing	57	50
Sergeant	69	48
Zeus	90	78
Shillelagh	84	74
AMSC	77	51
OGMS	87	64
Area Engineers	35	19
Thiokol	67	44
Rohm & Haas	82	50
Total Amt. Pladged	\$177,250	
Total Amt. Collect.	\$8,696	

to reach 100 per cent in participation, however, the Mauler Project Office is not far away with 97 per cent.

The Deputy CG Office, Land Combat Systems, is more than 100% Fair Share participation—it's 102%. In addition to being first in the Missile Com-

mand with Fair Share participation, personnel of that office have scored another first by paying all pledges.

Supply and Maintenance has reached 94 per cent, and Procurement and Production is a single percentage point behind. The Zeus Project Office is the fifth organization in the 90 per cent category.

## ADAMS CAPTURES COVETED AWARD

Merle W. Adams captured Technical Publications' most coveted award recently at a special banquet at the NCO Club. The Excellence award has particular significance because a committee of fellow employees select the winner without the advice of supervisors.

Malcolm Tully, Chairman of the Excellence Awards Committee, pinned the solid gold award on Adams' coat and gave a brief outline of the reasons why.

Among the many outstanding phases of work, Tully highlighted Adams' superior work on the Maintenance Digest and his capable direction in the Technical Publications Training Program.

Merle Adams, a son of Lincoln, Neb., is married to the former Lounell Goodwin of Birmingham. They have three sons; Philip 15, Jeffrey 13 and Richard 11. The Adams live at 2401 Evergreen St. S. E., Huntsville.

A 20 year Navy veteran, Adams served in World War II and Korea. He has been in Technical Publications for three years.

Edwin Hart, Chief of Technical Publications, is proud of his Excellence Award winners but stays strictly in the background.

## TROOPS

(Continued From Page 1)

through jarring road tests, long range communications tests, and flight missions to White Sands.

Before the Fort Wingate series service tests are complete, Batteries B, C, and D of the 2nd Battalion also will participate, conducting firings that will double as their "graduations" from the training they have received at Fort Sill.

## SCHAEPPI

(Continued From Page 1)

Army (Materiel) for procurement and production of Ordnance materiel and for other industrial type activities.

While in Germany, he was chief of mortorized equipment maintenance, and staff supervisor of the Daimler Benz rebuild contract. The latter involved directing of a contract with the German plant where local mechanics rebuilt Air Force vehicles.

His earlier experience covers commanding officer of the Weldon Spring Ordnance Works, Weldon Spring, Mo.; executive officer at Milan, Tenn. Arsenal; and New River Ordnance Plant, Pulaski, Va., where he entered active Army duty in 1942 and was concerned with production, inspection and quality assurance of ammunition.

The colonel is a 1933 graduate of Ohio State University with a bachelor of science degree in mechanical engineering. He worked for the General Electric Company in Erie, Pa., until 1936, then transferred to Syracuse, N. Y., with the Carrier Corporation.

He received his commission in the ROTC program at Ohio State. In 1952 he graduated from the Command and General Staff College, Ft. Leavenworth, Kansas.

Col. Billings was awarded an Army Commendation Medal at New River Ordnance Plant in 1945, to which an Oak Leaf Cluster was added in 1959 while he was serving with MAAG in Cambodia.

He is married to the former Miss Doris Seeds of Columbus, Ohio. They have three sons, Jay

C., 22, a 1963 graduate of Lehigh University; Thomas E., 21, now serving in Panama in the Army, and John R., 16, a student at Butler High School.

The Billings' plan to remain in Huntsville. They own a home in Sherwood Park and have a home on the lake near Gunter'sville.

Col. Billings enjoys fishing and "tinkering" around the home where he has a fully equipped shop.

He is a member of the American Society of Mechanical Engineers and the American Ordnance Association.

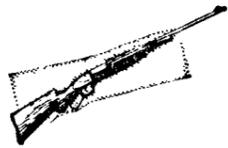
The colonel's replacement in P&P, Paul Schaeppi, has been at Redstone since 1951 when he came from the General Electric Company to accept a position as procurement specialist.

Schaeppi is a native of Schenectady, N. Y. Soon after graduating from high school in Schenectady he went to work for General Electric, and while employed there attended the GE school of Wage Rates and Methods, and the Planning and Production School.

Since coming to Redstone, Schaeppi has served as Procurement Officer and Chief of the Technical Staff, Industrial Operations, Army Rocket and Guided Missile Agency prior to being named Assistant Director, Support Operations, P&P.

In 1960 he was awarded ARGMA's Senior Executive Award in recognition of his work in improving procurement operations and implementing programs that saved the Government thousands of dollars.

Schaeppi is married and has one daughter. The Schaeppis reside at 1705 Mountainbrook Dr., Huntsville.



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**FINAL EXAM TIME** — Students of the 4th Incentive Contract Training Course completed their work the past week at the Directorate of Production and Procurement. Those attending the 12-hour session came from every element of the Army Missile

Command having anything to do with contracts. The training program is a joint effort of the Directorate and the Training and Development Division of the Civilian Personnel Office at Redstone Arsenal.

## T&E Lab Engineer Dies Enroute Home

Funeral services for Albert F. Stapleton, a missile test engineer of the T & E Laboratory, were held last week at Hawkinsville, Georgia.

Stapleton, 35, became ill last Wednesday enroute from his work at Redstone to his home in Huntsville. An ambulance was summoned and he was pronounced dead, apparently from a heart attack, upon arrival at the Post Hospital.

He is survived by his wife, Mrs. Winifred Scarbrough Stapleton, and two sons, Albert and Frank.

Prog. Directorate of Proc & Prod; **Violet T. Perry**, Clerk Steno, LANCE Project Office;

**Dorothy H. Headrick**, File Clerk (Typing), HERCULES Project Office; **Omar J. Norris**, Supv General Engr, HAWK Project Office; **Mina J. Jacobs**, Clerk-Typist, Directorate of Supply & Maint; **William J. Harris**, Mechanical Engineer, Directorate of Proc & Prod; **Mary C. Rodenhauer**, Secretary (Typing), Administrative Office, MICOM;

**Charles A. Simmons**, Inspector (Financial Mgt), Inspector General; **Mary A. Barnes**, Clerk (Typing), Administrative Office, MICOM; **Eleanor C. Brandon**, Occupational Health Nurse, Post Surgeon; **Martha P. Andrzejewski**, Clerk Steno, Provost Marshal Division; **Jimmy B. Anderson**, Elex Fire Control Syst Repr, Maint Support Division.

## INCENTIVE AWARDS

### SUGGESTIONS

**Jean Herr**, Army Missile Support Command, \$15 award—this suggestion resulted in the "Exit" sign in the lobby of building 8027 being lowered to make it more easily seen.

**Velda S. Wetherill**, Army Missile Support Command, \$175 award—this suggestion resulted in a method of filing and transmittal of original Disbursement and Collection Vouchers which improves upon the method formerly used. Savings are estimated at \$3423 for the first years usage as a result of personnel time savings.

**Mable C. Romine**, Army Missile Support Command, \$20 award—this suggestion concerned the issuance of Civil Defense Identification Cards. As a result of this suggestion, an improved procedure has been developed which centralizes the preparation and issuance of the Identification Card within the Provost Marshal Division.

**Fred D. Lincoln, Jr.**, Army Missile Support Command, \$50 award—this suggestion resulted in eliminating the practice of drawing a line through the "From" and "To" columns on the Time and Attendance Cards. This idea is estimated to save \$956 for the first years usage by eliminating the need of verifying improperly lined through overtime.

**Fred Henson**, Army Missile Support Command, \$15 award—this suggestion resulted in a jig being made to take the tension

off the coal elevator at building 4725 to facilitate the changing of pins and bushings.

**Rayboun D. Michael**, Army Missile Support Command, \$30 award—this suggestion resulted in an adapter that makes possible the use of an electrical rack on either the Ford or Willis Jeeps without modification of the racks or the Jeeps.

**Stratton Harrison**, Army Ordnance Guided Missile School, \$85 award—this suggestion resulted in screens of 1/4 inch wire mesh being installed on the return air inlets of the Model A-60, Ellis and Watts Air Conditioners located at the U. S. Army Ord Guided Missile School. This idea is estimated to save approximately \$1662 for the first years usage by keeping debris, which causes motor damage, out of the conditioners.

**Michael G. Vileno**, Army Ordnance Guided Missile School, \$20 award—this suggestion resulted in safety chains being added to certain plug assemblies.

**Raymond E. Buford**, Army Missile Support Command, \$25 award—this suggestion resulted in roll-away cabinets being supplied to the mechanics at Redstone Airport.

**Clifford R. Barnes and Arthur L. Swafford**, Army Missile Support Command, \$75 award—this suggestion resulted in a modification and addition being made on Telephone Switchboard Position Circuits to include a dial and associated equipment which will give the operators another pulsing source when there is trouble

on the keysender.

### OUTSTANDING PERFORMANCE RATINGS & SUSTAINED SUPERIOR PERFORMANCE AWARDS

**Mary R. Greer**, Secretary, Directorate of Supply & Maint; **Myrna B. Johnson**, Clerk (Typing), Directorate of R & D; **Joanne Wilkerson**, Procurement Clerk. **Bettie M. Gunter**, Secretary (Steno), both of Directorate of Proc & Prod;

**Willa P. Claud**, Secretary (Steno), PERSHING Project Office; **Walter W. Lindberg**, Program Specialist, and **Troy C. Bowden**, Logistics Officer, Directorate of R&D; **Sheral A. Belew**, Legal Assistant, General Counsel; **Leonore E. Jones**, Stock Control Clerk, Consolidated Supply Division; **Martha T. McElyea**, Secretary (Typing), and **Gertrude J. Cosby**, Accounting Clerk, OGMS.

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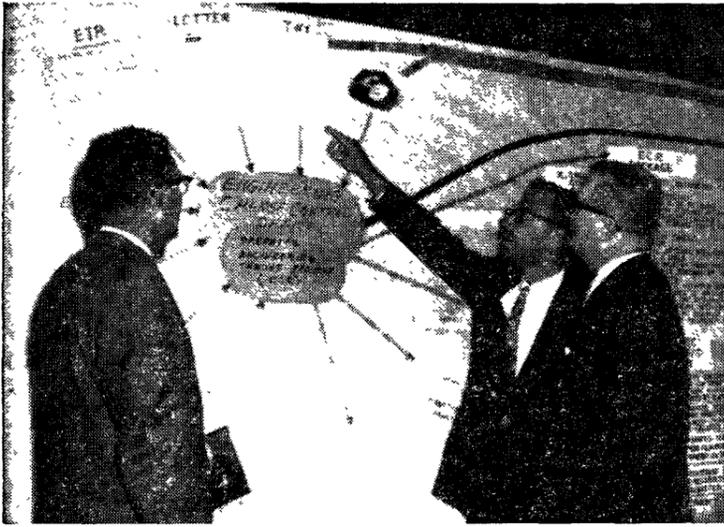
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**CHANGE ORDERS**—Horace Lowers, Chief Engineer for the Missile Command, points out the procedure for making a change in an Army missile to John Riordan, the Director of Technical and Logistics Data, Department of Defense. Left to right are: Paul Schaeppi, Deputy Director of the Directorate of Procurement and Production; Mr. Lowers and Mr. Riordan.

**Riordan Committee Finds—**

# Machines Tell Where To Find The Missing Part

Suppose you are an avid do-it-yourself TV repairman and you need to replace a tube that is shot.

Do you think you'd get back on the air by World Series time next year if you had to wade through 5,000 pages of specifications to find which tube you need?

Well, that's about the same task that faces an Army missile designer who has to find the right tube to fit in the system he is designing. Not only is there a mountain of specifications on tubes, but there are smaller mountains on resistors, nuts and bolts, transistors and any other gadget that goes in a missile.

In fact, by last count the stack of necessary specifications and standards kept at the Army Missile Command was nearly as tall as the Empire State Building.

So, last week a Department of Defense committee came to the Arsenal to see how the Missile Command keeps from spending years digging through these specs, and how it keeps from giving up in frustration and designing a brand new part which is a costly duplication that adds a few more inches to the growing pile of

specs.

Headed by John Riordan who is Director for Technical Logistics Data and Information of Department of Defense, the committee spent two days at Redstone Arsenal. Significantly, the Committee, which included Air Force Army and Naval officers, picked the Missile Command for its first trip to a field installation.

First there were briefings on techniques for managing documentation by Chief Engineer Horace Lowers and personnel under Paul Schaeppi, Deputy Director of the Directorate of Procurement and Production. They discussed procedures employed in specifying requirements to contractors, and how control is kept over the preparation and delivery of drawings, specifications and other technical documentation.

They also visited the Directorate's Documentation Center where the Missile Command's specs are controlled.

To solve the problems of how to find the right specification or drawing fast, the Missile Command has developed three machines which the Riordan Committee was interested in. One now in operation is the Army Data Retrieval Engineering System (ADRES), which stores some 1,000 documents on a 4-inch roll of microfilm.

A designer slips the roll in the ADRES machine and spins through it until he finds the drawing he wants. He can either view the drawing on a screen or push a button and get a photographic copy in seconds.

A second machine will store all the "high use" documents on



**A VISIT FROM THE BOSS**—Clifford Paquette of the Army Missile Command's Production and Procurement Directorate, explains a piece of test equipment to Brig. Gen. John G. Zierdt, Commanding General of the Missile Command. The General was visiting the Electrical and Electronics Laboratory and stopped to observe this timing relay undergoing life-test phase of qualification testing. Gen. Zierdt plans to visit other laboratories and offices throughout the Command in order to meet employees and observe the various operations at Redstone.

file "chips." each chip carries its own code denoting the drawing it carries. The user gives the machine's computer the code number and it searches through the entire file in seconds, selects the right drawing, and prints a copy. The original goes back in the file for further use.

The third machine which the committee saw—and one which the Missile Command will suggest

to DOD for national adoption by all services—is one that, oddly enough, works backwards.

With all of the other machines you give them the number and they tell you what the part looks like. But, on this new machine you tell it what the part looks like and out comes the number. Providing, of course, there's a part in the Federal Supply System which looks like the one you

want. Not only does it give out the number, but it also carries a picture of the part. This solves the problem for the designer who wants, for example, a stainless steel spring with a left handed turn.

The Committee found that the Missile Command can come pretty close to pulling things out of the proverbial thin air.

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# Scoreboard

**OFFICERS WIVES LEAGUE**

Team	Won	Lost
Poor Excuses	11	5
Who Cares	10	6
Merry Mrs.	10	6
Crazy Eights	8	8
Team No. 1	8	8
Team No. 2	5	11
Gamblers	5	11
Misfits	4	12

**HIGH TEAM 3 GAMES:**  
Team No. 1—2059

**HIGH IND. 3 GAMES:**  
Thompson—563

**HIGH TEAM GAME:**  
Team No. 8—790

**HIGH IND. GAME:**  
Lau—229

**ENLISTED MEN MIXED LEAGUE**

Team	Won	Lost
No. 4	17	3
No. 1	11	9
No. 5	10½	9½
No. 8	10	10
No. 2	10	10
No. 6	8	12
No. 3	8	12
No. 7	5½	14½

**HIGH TEAM 3 GAMES:**  
No. 8—2386

**HIGH IND. 3 GAME:**  
G. Ryan—607 (Male Scratch)  
M. Louis—551 (Female Scratch)

**HIGH TEAM GAME:**  
No. 1—860

**HIGH IND. GAME:**  
W. Hamer—244 (Male Scratch)  
B. McClure—207 (Female Scratch)

**SCHOOL TROOP COMMAND LEAGUE**

Team	Won	Lost
The Bisons	14	2
UTC Raiders	14	2
Co. "C" No. 1	9	7
Pin Pickers	8	8
Co. "C" No. 2	8	8
Hq STC	5	11
Pop Tops	5	11
Five Aces	5	15

**RSA OFFICERS LEAGUE**

Team	Won	Lost
Spoilers	11	5
Mets	11	5
Bandits	10	6
Robbers	10	6
Alleycats	8	8
Medics No. 1	5	11
Procure-Mites	5	11
OGMS	4	12

**HIGH TEAM 3 GAMES:**  
Mets—2866

**HIGH IND. 3 GAMES:**  
D. Green—653

**HIGH TEAM GAME:**  
Bandits—1020

**HIGH IND. GAME:**  
Connolly—241

## Crusader Gridders Down Hornets, 14-7

Coming on from behind by scoring two touchdowns, one in the second quarter and one in the fourth, the UTC Crusaders went on to win their first game of the season by beating the Hornets of Hq. Troop Command, 14-7.

The Hornets after picking up three first downs, in the second quarter, moved to within the Crusader twelve yard line. Then Bob Harris, Hornet quarterback, hit Bob Reynolds, his left end, for a pass on the three yard line and

**BANTAM LEAGUE**

Team	Won	Lost
No. 2	5	1
No. 3	5	1
No. 5	5	1
No. 7	3	3
No. 8	3	3
No. 4	2	4
No. 6	1	5
No. 1	0	6

**HIGH IND. AVERAGE:**  
T. Thompson—110

**AMERICAN-BRITISH-CANADIAN OFFICERS LEAGUE**

Team	Won	Lost
S-Wonners	24	0
Black Jacks	18	6
Lucky Strikes	16	8
Wheezers	12	12
Hopefuls	12	12
Pin Splitters	10	14
AF Jupiter	4	20
Moulers	0	24

**HIGH TEAM 3 GAMES:**  
Black Jacks—2916

**HIGH TEAM GAME:**  
Black Jacks—1027

**RSA OFFICERS MIXED LEAGUE**

Team	Won	Lost
Bombers	28	8
Redstone	27	9
D-Yanks	26	10
Bowl Weevils	22	14
D-Doms	12	24
Pin Droppers	11	25
Hi Counts	9	27
Baby Splits	9	27

**REDSTONE DOCKET**

Team	Won	Lost
Roaring Trio	6	2
Splits	5	3
Terrific Trio	4	4
The U. N.	4	4
No. 1	4	4
Old Timers	3	5
No. 4	3	5
Gutter Dusters	3	5

**400 SERIES:**  
M. Locus, 460; J. Arnold and V. Carney, 427; W. Howell, 424; N. Reynolds, 409.

**HIGH GAME:**  
V. Carney—171  
Triplicate Kreiger—101

Reynolds bulled his way over from there for the touchdown. Vince Villani kicked the point after and the Hornets took to the lead 7-0.

Later in the same quarter, the Crusaders drove up field and Bill Gray went over for the T.D. The Crusaders went for a two-point conversion and Charles Slayton made it between right-guard and right-tackle.

The second half developed into a defensive struggle with neither team giving much ground until midway in the final quarter when the Hornets fought their way to the Crusader 33. Three line plays netted a mere two yards the Hornets tried a field goal, but the try was blocked by Ray Gray for the Crusaders.

The UTC eleven took over and on the first play Dick Owens found a hole in the Hornet forward wall and raced all the way to the 29 before being hauled down from behind.

After moving the ball down to the 5 Slayton drove into the end zone with the winning points. A two-point conversion failed but there was only 50 seconds remaining to be played and the Crusader line smashed three straight attempts to pass by Harris.

**Football League Standings**

Team	Won	Lost
Hq. UTC (Crusaders)	1	0
Hq Troop Cmd. (Hornets)	1	1
A&B Co (Packers)	0	1

## Dog Fight Results In Golfing Tie

Last Wednesday the Golf Group sponsored by the Redstone Arsenal Officers Wives Club held dog fight competition at the Arsenal golf course with two teams tied for first place.

One team captained by Mrs. V. J. Laver included Mrs. William Clisson, Mrs. R. R. Javins, Mrs. G. W. Bowers; and Mrs. Lloyd Deppensmith.

The second team had Mrs. John Miller as its captain and Mrs. W. D. Lewis, Mrs. Charles Owens, Mrs. James Cobb and Mrs. George Allen as team members.

The Golf Group is headed by Mrs. D. F. Shepherd.

## Warriors And Razorbacks Win League Games

Injuries to key players was a big factor in the 105-pound football game played in the Arsenal Little League last Friday night. The Redstone Warriors were declared winners over the Redstone Park Raiders by default when two Raider quarterbacks were injured and had to leave the game.

In the 90-pound class, the Razorbacks were hard pressed but were able to stand off the Bulldogs for a 7-0 win. It was the third straight win for the Razorbacks while the Warriors were victorious for the second time to go with a tie in their other game.

The Raiders, looking for their first win, were playing their best game of the young season, trailing only 14-0 at the half. However, after the intermission the hard running Warrior backs racked up two more scores while the Raiders were scoring once. The score was 24-7 when play was stopped.

The most exciting play of the game was a beautiful 92-yard dash off the ancient Statue of Liberty by Benny Williams of the winners.

The Bulldogs were also looking for their first win and put up a dogged defense until the power rushes of the Razorback runners

finally pushed across a score late in the game. Tate, Collins and Neil set the offensive pace for the winners while Parnell and Howell were brilliant on defense.

For the Bulldogs, Fennel and Ferguson were outstanding on offense and Ricky Wolitski led the defensive charge.

**LEAGUE STANDINGS**

**90 LB. DIV.**

Team	W	L	T
Razorbacks	3	0	0
Huskies	1	1	0
Park Bulldogs	0	0	3

**105 LB. DIV.**

Team	W	L	T
Warriors	2	0	1
Hawks	1	1	0
Park Raiders	0	2	1



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# Redstone Ponds Stocked With Catfish Fingerlings

A lively load of 1,750 fingerling catfish were turned loose in two stone quarries on Redstone Arsenal last week, in a continuing program of game, fish and wild-life preservation.

The fingerling catfish were received by Redstone Arsenal Game Warden S/Sgt. Clarence Aweau. They were delivered from the National Fish Hatcheries at Carbon Hill, Ala., by Bradford Farris, of the U. S. Department of Interior.

Two-hundred fifty of the fin-

gerlings were set free in a small stone quarry off Neal Road, at the base of Madkin Mountain, located in the northern portion of the 40,000 acre installation.

The remaining 1,500 were freed in a larger stone quarry nearby.

Sgt. Aweau said the fingerlings are expected to weigh 1 to 1½ pounds within a year. "They'll provide some fine fishing for sportsmen," he noted.

Last week's consignment of fingerling catfish was the third delivery of 1,750 each, making a total of 5,250 catfish set free in the two stone quarries within the past two years.

The quarries also are stocked with bass and bream. A new consignment of fingerling bass is expected to arrive at Redstone in about 30 days, Sgt. Aweau said.

Active and retired military personnel, their dependents and guests, and civilian personnel who work at Redstone and their guests are permitted to fish on the installation.

Several lakes are located within the Arsenal in addition to a number of active streams.



**FINGERLING CATFISH**—Some 1,750 fingerling catfish were dumped into two stone quarries at Redstone Arsenal last week. Within a year, the fish are expected to weigh 1 to 1½ pounds. Freeing the fish is S/Sgt. Clarence K. Aweau, Post Game Warden. At left is Bradford Harris, of the U. S. Department of Interior, who delivered the fingerlings.

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2 door Biscayne, 327 engine, straight stick. A hot one. \$1795.

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Convertible, Jet Black, power steering and brakes. Woman driven car. \$1295.

1959 BUICK  
4-door Electra. Sharp car, double power. \$1195.

1959 OLDS SUPER 88  
4 dr., one owner, like new. Full power and factory air. See to appreciate. \$1495.

1961 CORVAIR MONZA  
Cpe. Sharp, bucket seats and auto trans. Music and heat. \$1495.

1957 FORD FAIRLANE  
Sedan, V8, auto., new factory engine, 3,000 miles on this engine. Yellow and white. a nice one. \$695.

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**TEA FOR 200**—The tea table, covered with an Army-Navy cloth, was the central feature last Tuesday afternoon when the Redstone Arsenal Officers Wives Club honored Mrs. John G. Zierdt with a party at the Squirrel Hill Officers Club. Table decorations were an arrangement of yellow and bronze mums with dried



brown foliage, and three-branched candelabra holding cinnamon colored tapers. Some of the approximately 200 guests are shown around the table. On the right, Mrs. Zierdt, who was presented a gardenia corsage for the event, and Mrs. N. T. Dennis, club president, are welcoming guests to the tea.

## Fantasy Playhouse To Hold Try-Outs

Try-outs for the play, the "Beauty and the Beast," to be presented by the Fantasy Playhouse are scheduled on Oct. 28 and 29. Try-outs will begin at 7 p.m. each night at the New Civic Arts Center's temporary headquarters at 311 West Clinton, Street.

Roles for both adults and children will be offered. In addition, young persons interested in costume design, set design, make-up, publicity and technical lighting are urged to attend the sessions.

## Winners Are Named For Party Bridge

Winners at Thursday party bridge last week were Mrs. E. M. Krembs, first, Mrs. A. McDermott, second, and Mrs. I. O. Drewry, third. The group met at the Squirrel Hill Officers Club, and there were seven tables in play.

The Thursday bridge group is sponsored by the Officers Wives Club. Those wishing to play should call Mrs. Rex Javins, 536-5135, or Mrs. Edward Schorsten, 539-6893 for reservations.

## Two Place First At Monday Bridge

Seven tables were in play at the Monday night party bridge last week at the Squirrel Hill Officers Club. Mrs. Gene Krembs had high score for the women, and Lt. W. Stoll was first place winner for the men.

Reservations to play with the Monday night group may be made by calling Mrs. Peter Iber, 877-5235, and cancellations should be phoned to Mrs. Iber by Sunday night.

## Wives Honor Mrs. Zierdt; Almost 200 Attend Tea

Wives of officers stationed at Redstone Arsenal honored Mrs. John G. Zierdt with a tea at the Squirrel Hill Officers Club Oct. 8.

Approximately 200 members of the Wives Club attended the event, at which talents of two groups sponsored by the club were displayed.

Members of the Art Group exhibited paintings in oil and water color, and the Garden Club displayed arrangements of dried flowers, fruits and leaves.

Many of the exhibits were arranged to complement one another. The paintings ranged in variety from a little girl picking flowers to abstracts and impressions.

There was almost as much variance in the modern, oriental and homespun types of arrangements of flowers, fruits and grasses.

Members of the art group that displayed their work are: Beth Dobbs, Jeanne Accardi, Mickey Benjamin, Ruth Bryant, Pat Otto, Susan Elmer, and Virginia Goetz.

The dried flower arrangers included Diana Jamieson, Susan Elmer, Carol Reidy, Shirley Atkinson, Mary Lou Wright, Ethel Wallace, Jane Osterman, Lutie Davidson, Dorsie Wagner, Rosemary Paris, Grace Stubbs, Ruth Ann Wyatt, Marguerite Lec, and Barbara Cobb.

Chairman for the event was Mrs. William Register. She was assisted by Mrs. Thomas Edwards and Mrs. Earl Otto.

Mrs. N. T. Dennis, Wives Club President, presented Mrs. Zierdt to the guests.

Pouring during the afternoon

# SOCIAL and CLUB EVENTS

## Thailand Is Theme For Tuesday Coffee

The Missile Command Officers Wives will have a coffee at 10 a.m., Tuesday, Oct. 22 in the Hawk Room, Squirrel Hill Officers Club.

The program planned for the event includes a film on Thailand, and an exhibit of items from Thailand which Mrs. Henry L. Watson collected while residing there.

Reservations should be made before noon, Friday, Oct. 18, and cancellations will be accepted until noon, Monday, Oct. 21. Reservations and cancellations can be made by calling Mrs. R. M. Powell, 877-4859.

## S.A.M.E. MEETS TOMORROW NIGHT

The regular meeting of the Society of American Military Engineers is scheduled Oct. 17, at the Redstone Arsenal Officers Club.

Guest speaker will be Rear Adm. (ret) Eugene J. Peltier, who will address the engineering organization on the Chesapeake Bay bridge and tunnel crossing, at Norfolk, Va.

The meeting will be begin at 6:30 p.m., with a social hour, to be followed at 7:30 p.m. by the meeting.

Peltier currently is vice president of Sverdrup and Parcel. He retired from active duty with the Navy in May 1962.

Reservations may be made by calling W. E. Prince, 876-5472.

## ROA TO HAVE CRUISE

The Huntsville Chapter of the Reserve Officers' Association will have a boat cruise from Decatur on Saturday, Oct. 19 from 6:30 p.m. until midnight. Dance music will be furnished.

Reservations may be made by calling John Harris at 876-1354, Pete Redding at 876-1410, or Jack Edgar at 876-1704.

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**JUNIOR ARMY DAUGHTERS**—Recently elected officers of Junior Army Daughters at Redstone Arsenal meet to plan their social events and charity work for the year. They are, left to right; Judy Tinney, publicity chairman; Lyn McDonnell, vice president; Eileen McBride, president; Nancy Nielson, treasurer; and Mallory Roedy, secretary. The girls joined the Senior Army Daughter group in a toy drive for the Post Nursery, and they are planning a Halloween dance.

**At The Service Club**

By: Brenda Hanson

This week at the Service Club we've come up with a program containing just a little bit of everything. Add to this week's schedule the ever available games and instruments for check-out here at the club, and I think everyone will be able to find something entertaining during the week.

The first event of the week is the weekly dance class. These classes are open to all military personnel and their dependents. So if you are interested in learning the various steps of any dance, just drop by the club every Tuesday night at 1900 hrs.

On Wednesday night the spotlight swings to bridge at the Service Club, when the Bridge Club gathers for its weekly meeting.

**Chess Contest**

Thursday? We have a contest on schedule to fit the taste of the brainy missilemen of Redstone. A chess contest will begin at 2000 hrs. There's nothing like a good game of chess to sharpen your wits or blow every fuse in your head, depending on your mentality.

Then, on Friday, a Pinochle Contest is on the agenda for 2000 hrs. Prizes will be given to the winners.

Saturday, we'll set the mood with Tops in Pops Request at 1800 hrs. Then, at 2000 hrs., we go into the second item on the program for enlivening the evening, party bridge and refreshments. So, if you are a person who seems to have extra time on your hands, this is an excellent way to pass an evening. If you don't know how to play bridge, instructions are given every Wednesday evening.

**Coffee & Donuts**

Sunday, hot coffee and donuts

served from the kitchen at 0900 hrs. will see the day off to a good start. Then, at 2000 hrs., Barbershop Capers will take over the main lounge. This should be a real treat. The Huntsville Barbershop Quartet will present an

evening for your enjoyment. Monday evening is the night better known as Game Night. Games will take over at 2000 hrs. with a large selection of prizes for you to take away. We have two grand prizes.

**Miscellaneous**

The remainder of this month looks just as hectic, still to come are "Bye Bye Shorties," a Musical Comedy, a couple of Record Dances, Pot Luck Supper, and our big program of the month the Halloween Costume Dance on the 31st. I do hope you've found something weird to wear that night, or are still looking. That's about it for this week, but next week looks bigger and better, so keep in touch and visit your service club.

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COL. STERNER

## Col. Sterner Is Named Commodity Office Chief

Col. Cyril Sterner, the new chief of the Anti-tank-Aircraft Weapons Commodity Office, knows why troops in the field want their missile weapons to do certain things. Col. Sterner (you pronounce his first name "Surl") used to be chief of the Combat Developments Office at Fort Benning, Ga., where some missile system requirements are written. In fact, as chief of that office he wrote many requirements which he is now filling as manager of such systems as the ENTAC and SS11. The Colonel was commissioned in 1939 and later commanded the 2nd Battalion, 382nd Infantry, of the 96th Infantry Division during landings on Leyte in 1944 and Oknawa in 1945. Later he served on the Department of the Army General Staff, with the United Nations as an observer in Kashmir and as Professor of Military Science and

Tactics at the University of Dayton in Dayton, Ohio. He was also with the MAAG in Vietnam and prior to coming to Redstone on Sept. 18 of this year he was Commanding Officer of the Seoul Area Command in Korea. Col. Sterner was with the Infantry School at Fort Benning from 1959 through 1962. He studied chemical engineering at the University of Nebraska and later attended the University of Georgia and Mississippi Southern where he took a bachelor's degree in mathematics. He is a native of York, Neb., and is a graduate of two Command and General Staff Colleges, one in Fort Leavenworth and the other in Quetta, Pakistan. The Colonel is an electronics and woodworking hobbyist and a member of the Armed Forces Management Association. He and Mrs. Sterner have four daughters.

## White, Cleveland Shift Assignments

John White, who has headed the Policy Staff office of the Procurement and Production Directorate at the Army Missile Command for the past 14 months, is being reassigned as the Assistant Director, Support Operations in P&P.

He succeeds Paul K. Schaeppi who is moving up to the position of Deputy Director of P&P. Col. E. V. Lau, P&P Director, announced the new duty assignment this week.

Another move names W. C. (Bill) Cleveland as Acting Chief of the Policy Staff Office succeeding White. Cleveland comes from P&P's Engineering Division.

White, as Assistant Director for Support Operations, will head the P&P element responsible for industrial support of the Army's missile, rockets and target missile programs.

A Birmingham native, White is a graduate of the University of Alabama, and came to work at Redstone in January 1954. His Missile Command assignments have all been in the industrial area.

During World War II, he served in the Army Air Corps and rose to the rank of lieutenant colonel.

White is married and makes his home with his wife and daughter at 1702 Ballard Drive S.E., Huntsville.

### Cleveland Moves Up

Cleveland's new duties include serving as the focal point for the Director in the accomplishment of the Directorate's staff role for the Commanding General.

He is from Selma, Ala., and is a 1948 engineering graduate from Auburn University. He has been

at Redstone since 1954, coming from Gadsden where he was employed at Republic Steel. Cleveland spent two years in the

Army during World War II. Mr. and Mrs. Cleveland and their three children reside at 204 Vincent Rd., S.E., Huntsville.



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## Army Finance Association Forms Redstone Chapter

The Army Finance Association is forming a Redstone Chapter with Col. Donald A. Marcelle, Finance and Accounting Officer for the Army Missile Support Command, as first president.

Jack Edgar, a member of the colonel's staff, turned the gavel over to Col. Marcelle last week during a meeting at the Rocket Auditorium. Other elected officers are Seymour J. Farber, vice-president, Josephine L. Smith, secretary-treasurer, and J. D. Ratliff, assistant secretary-treasurer. Members of the Board of Managers are Joseph N. Beaver and William Estes.

The national association has 23 chapters in the United States and two in Europe.

The Redstone Chapter has 71 charter members. Maj. Gen. Paul A. Mayo, the National President and the Army's Chief of Finance, is tentatively scheduled to present the charter in a ceremony here.

## SCHOOL TRAINED PERSHING UNIT IN N. M. TESTS

Huntsville-trained missile technicians participated this week in final test firings of the new Pershing ballistic weapon prior to its release to troops.

A Pershing unit that was trained at the Army Ordnance Guided Missile School last year will support the Second Missile Battalion of the 44th Artillery which will fire the missiles from near Fort Wingate, N.M., to impact points within the huge White Sands Missile Range.

Capt. Sheldon F. Meyer and some 41 officers and men of the Ordnance unit are responsible for maintenance of the Pershing for the firing group. All received their individual and unit training on the new system here, then joined the 44th Artillery at Fort Sill, Okla.

Complete battlefield conditions will be simulated throughout the firing operation. Special safety precautions have been taken for the off-range firings which will send the missiles streaking across a vast stretch of New Mexico.



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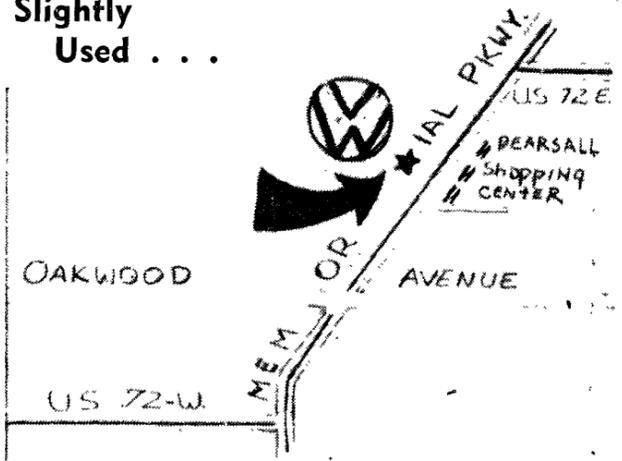
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**TOP DRIVER**—SP4 William E. Holle (left) received the U. S. Army Commendation Medal from Col. D. F. Shepherd, director of Research and Development for the Army Missile Command. Holle is believed to be one of two military drivers in the history of the U. S. Army to receive the Commendation Medal in peace time.

### Canadian Receives OGMS Certificate

Canadian Army Warrant Officer Clement N. Sochasky was awarded a certificate of achievement by the U. S. Army Ordnance Guided Missile School last Friday for outstanding service as an instructor in the school's Air Defense Missile Division.

Col. George H. McBride, assistant commandant, presented the award to Mr. Sochasky as the Canadian was being transferred to another assignment with the Canadian Liaison Office at the Army Missile Command.

Mr. Sochasky had served for two years as a member of the faculty of the Missile School under an unusual arrangement that began in 1959 when Canadian students who completed courses at the school made such outstanding records that they were retained on the teaching staff. The Canadians are the only non U. S. members of the OGMS staff and faculty.

The first two Canadian instructors were Warrant Officers G. A. Thomas and L. M. Harvey, who were reassigned to their home country in 1961. They were succeeded by Messrs G. H. Schleihauf and Sochasky. Mr. Schleihauf is still assigned to OGMS, and the school has asked the Canadian Army to continue the arrangement.

## Redstone Soldier Gets The First Driver's Award

### R&D's Spec Holle Shows Initiative Which Wins Medal

The first U. S. Army Commendation Medal awarded to a military driver at Redstone Arsenal has been presented to SP4 William E. Holle.

Holle normally drives for Col. D. F. Shepherd, Director of the Army Missile Command's Directorate of Research and Development, but during the past 18 months, he has been requested to drive a large number of the VIP's who visited Redstone Arsenal.

Top among these have been the Federal Republic of Germany Defense Minister, Evangelist Billy Graham, the Secretary of the Army, and general officers from the American and various foreign armies. During the May 1963 visit of President Kennedy, Holle was

responsible for driving the President's car to the point where the regular driver and the secret service men took over.

The citation accompanying the medal read, in part: "Through his own initiative, Specialist Holle acquired a knowledge of overall Directorate Operations which far exceeded the standards expected of his rank. He frequently worked long past normal duty hours, yet always accepted his assignments cheerfully."

Holle lives in Elgin, Illinois, where he will return after his release from active duty on Oct. 17.

### PROTESTANT FELLOWSHIP

The monthly dinner meeting of the Protestant Fellowship will be held at 6:30 p.m. Oct. 17 at the Post Chapel. Those interested in attending are invited to contact the Head Hostess, Mrs. Chew, 877-4071.

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1500	59.80	72.80	137.80
2000	78.96	96.13	181.96

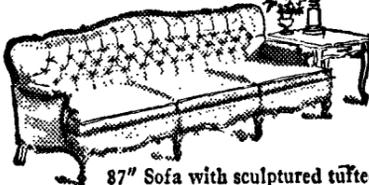
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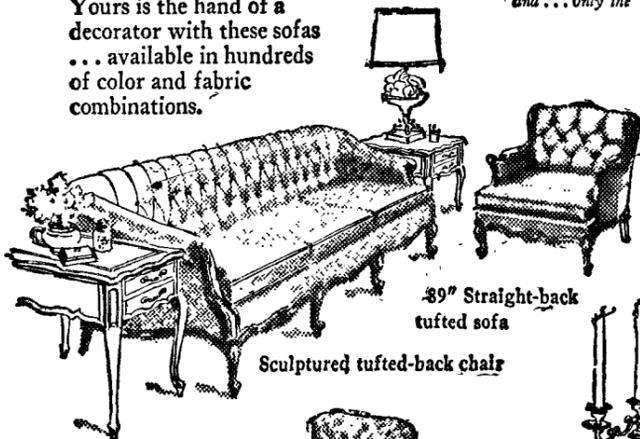
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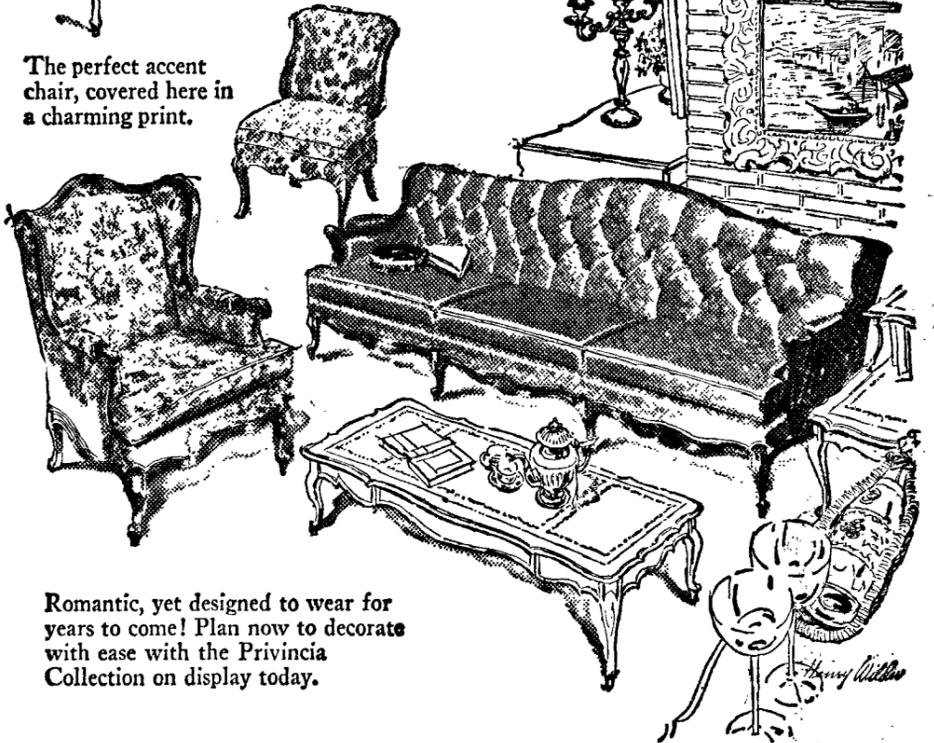
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## Army Secretary Presents Top Awards To Civilians

Secretary of the Army Cyrus R. Vance presented eight of the 14 awards made to Army civilians to U. S. Army Materiel Command personnel recently.

One of the awards went to Her-

### Nike Zeus Scores Success At WSMR

The successful test firing of a Nike Zeus missile at White Sands Missile Range, New Mexico, was announced last Friday by the Army.

The firing was the latest of a series designed to test components and concepts for the Army's new Nike X anti-missile system.

The Army recently awarded a \$213.3 million contract to Western Electric for development of Nike X. It was the largest contract ever awarded by the Army for missile work.

Western Electric is the Nike X prime contractor and Bell Telephone Laboratories has the responsibility for system development and design.

The Nike X is an advanced version of the Nike Zeus system with the addition of a new Multi-function Array Radar and a high acceleration Sprint missile. Both the Sprint and the Nike Zeus missiles will be used in the Nike X system.

Martin Marietta will develop the Sprint. Douglas Aircraft is the Nike Zeus missile developer.

### Local Astronomers To Hold Open House

The Rocket City Astronomical Association will hold open house at their Monte Sano Observatory Friday starting at 6 p.m.

The planet Saturn will be featured.

Martin Bentley, member of RCAA and an amateur astronomer, will be in charge of the open house.

The observatory is located on an access road extending north of the main road through the park and intersecting near the Alabama state park northeast gate. The public is invited.

### \*\*\*\*\* Movie Schedule \*\*\*\*\*

WEDNESDAY, October 16  
"The Mountain Road" (M-YP)  
THURSDAY-FRIDAY, October 17-18  
"Island of Love" (M-YP)  
SATURDAY, October 19  
"The Green Helmet" (F)  
SUNDAY-MONDAY, October 20-21  
"Captain Sinbad" (F)  
TUESDAY, October 22  
"To Catch a Thief" (M)  
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.



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Monmouth, a part of the U. S. Army Electronics Command, one of the seven major AMC sub-commands.

They won a group award for a special act. They are Mortimer H. Zinn, Sol Schneider, Anthony J. Buffa, Raymond W. Brown, and George W. Taylor. Their act produced a tangible benefit to the Government of \$1,685,000.

They were awarded a total of \$3,735 for displaying extraordinary ingenuity, in the recommendation, design, fabrication, and installation of an extremely fast action electronic circuit breaker in test equipment for the Nike-Zeus system.

man C. Tardd, Jr., AMC graphics branch chief, who made many outstanding contributions in the design and production of graphic and visual aids.

Also included in the 14 winners were five scientists from the U. S. Army Signal Research and Development Laboratories, Fort



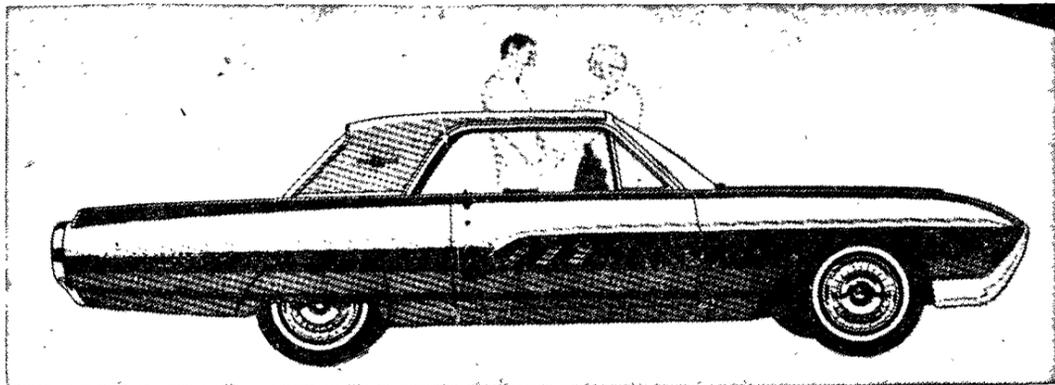
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### Accident Rate Goes Past Safety Hopes

A continuing rash of accidents by individuals driving on the Arsenal has pushed the accident tally to the top.

Jack Haynes, Redstone Arsenal Safety Director, stated that a low accident objective to which the Arsenal hoped to trim its Army vehicle accidents was passed during the first quarter of FY-64.

"Our usually heavy accident period," Haynes said, "has not yet arrived." He added that the winter months just ahead are usually most hazardous.

The civilian accident and injury rate follows with a close second. Against the yearly objective of 1.1 accidents per million man hours worked, the experience for the first quarter FY-64 has been 1.0. The military personnel rate for the same period was 1.0 also against the FY-64 objective of 2.4. Contractors and other personnel reports reflect

no accident and injuries. "Most of the vehicle accidents," said Haynes are traceable to an element of inattention or negligence. As an example, of the four vehicle accidents in September, two were caused by drivers assuming right-of-way, one by turning too short and the other by failure to set a parking brake.

"Only strict attention by persons operating these vehicles will cut down such accidents," continued Haynes. "The supervisor or organization can provide safe conditions and equipment, but the individual must assume his share of responsibility."

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September 2, 1864 — General Sherman occupied Atlanta, Georgia.

### Info Desk Planned For AUSA Visitors

WASHINGTON (ANF) — The Office of Personnel Operations, Department of the Army, will maintain a liaison desk for the convenience of visitors at the annual meeting of the Association of the U. S. Army to be held at the Sheraton-Park Hotel, Washington, D. C., October 21-23.

Personnel on duty at the liaison desk will assist visitors in making appointments in the Pentagon for checking their records, assignment information and career guidance. The desk will be located near the AUSA Registration Desk.

The Office of Personnel Operations is responsible for the assignment and career development of Army officers, warrant officers and enlisted personnel.

Proportion of wives in the paid labor force increased from 19 per cent in 1950 to 26 per cent in 1960.

### Births At Post Hospital

John Jude Provost, 7 lbs., 12 1/4 ozs., Oct. 1, son of Capt. and Mrs. LeRoy W. Provost.  
 James Patrick Steddum, 6 lbs., 7 1/2 ozs., Oct. 1, son of CSI and Mrs. James W. Steddum.  
 Kathryn Esther Kittelberger, 7 lbs., 15 ozs., Oct. 2, daughter of Capt. and Mrs. Kenneth F. Kittel-

berger.  
 Harold Thomas Varner, 8 lbs., 1 1/4 ozs., Oct. 3, son of Sfc. and Mrs. James H. Varner.  
 Diana Lea Michiels, 5 lbs., 14 1/2 ozs., Oct. 5, daughter of Sgt. and Mrs. James A. Michiels.  
 Eifrem Lanard Rivers, 6 lbs., 3 1/2 ozs., Oct. 6, son of SSgt. and Mrs. Eddie L. Rivers.  
 Gae Kara Erdman, 7 lbs., 4 ozs., Oct. 7, daughter of SSgt. and Mrs. Keith W. Erdman.

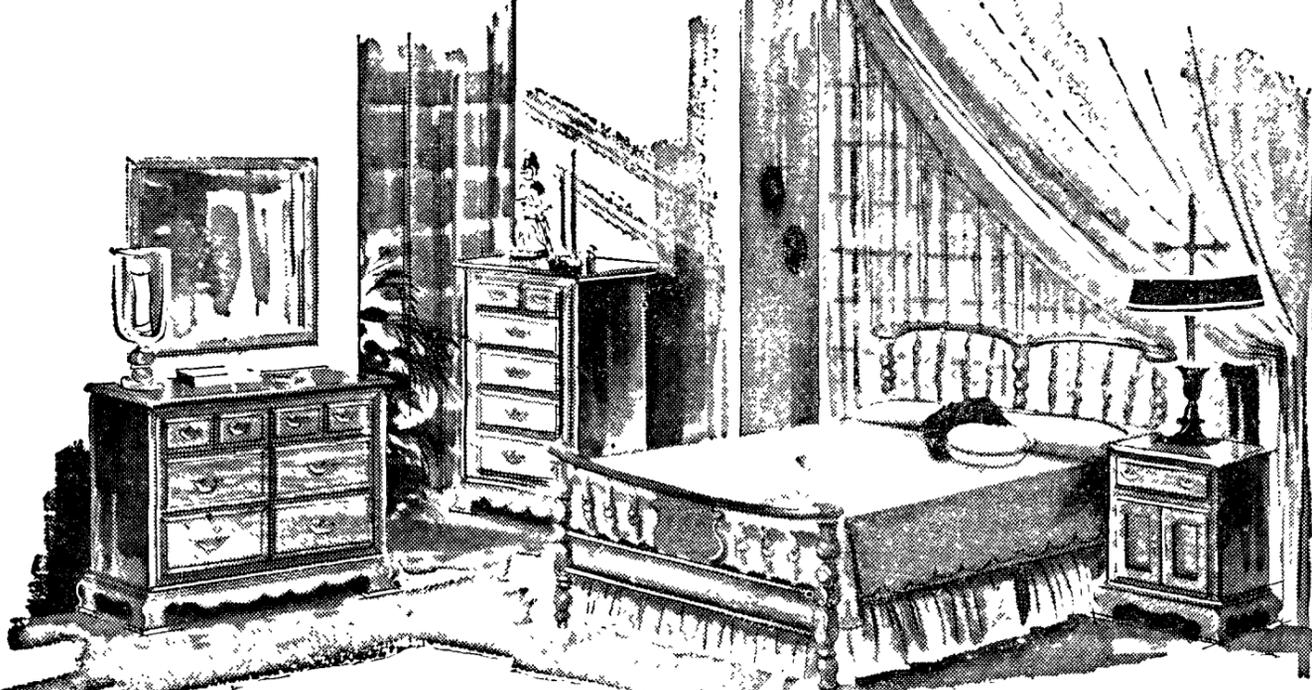
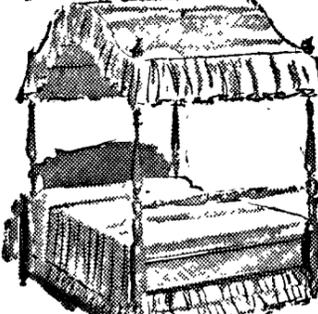
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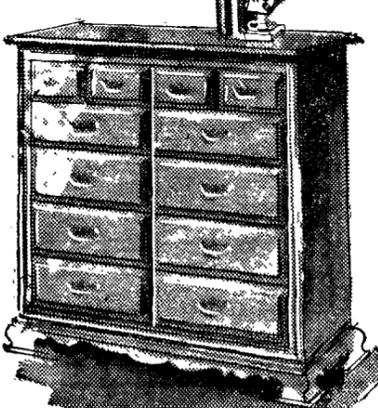
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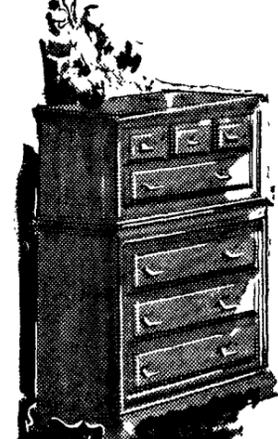
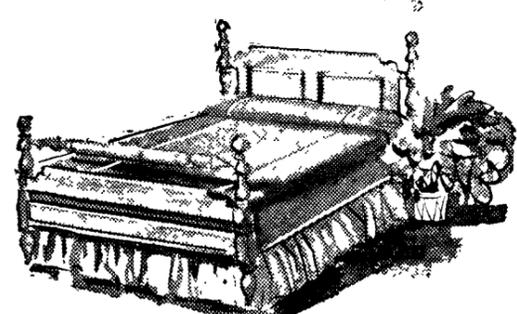
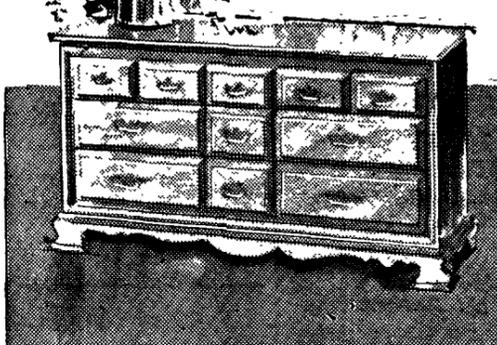
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Page 14 The Redstone Rocket — October 16, 1963

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**FALL SHOES** — Delisa Debs alligator skin, latest style, high heels only \$3.98 & \$4.98. Better hurry only 250 pairs of these Naturalizers and other name brand dress and stack hills only \$2.98 pair. Large selection of flats and casuals. Also mens, boys, & childrens shoes. These shoes will go on display early Friday morning. Family Shoe Store, Located upstairs over Peoples Drug Store & Linns 10c Store, Main Street, Arab. Family Shoe Store. ttc

**BOAT HOUSE STORAGE** available on Guntersville Lake. Wooden boats need to remain in water. For information call 536-3113 (8-10 a.m.). 10-23c

**TYPEWRITERS** (used, reconditioned) Standard and Electrics. Large selection to choose from. \$25.00. House of Typewriters 13011 So Memorial Pkwy., Huntsville, Ala., across from Gate No. 2. Telephone 831 2659. ttp

**A B S SECRETARIAL SERVICE** — 408 Clinton Avenue, W., Huntsville, Ala. Phone 534-6451. CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering. Employment applications prepared (Government and other). Notary Public. (Our office or yours). ttc

CALL 772-6270 and just let me give you a bid on a guaranteed yard fence. Chain link, wood or steel picket. ttc

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**LOST**—Light tan Male Dachshund one year old, strayed from Normandale Drive in the Northwest Section. This dog has tags from Bentley Animal Clinic. Please, if you see him phone us. We will offer a generous reward. Phone 536-0945. Mrs. Bethune. ttc

**UHF CONVERTER**, \$11.97. 21 inch 90 degrees picture tubes \$21 exchange (1 year guarantee on picture tubes) Used TV's, \$20 and up. TV Rentals. Central TV and Stereo Co., franchised dealer in RCA and Zenith TV Service dealer in all makes of radios, TV's and stereos. Central TV and Stereo Co. Governors Drive & Parkway, Phone 536-9761. ttc

**FOR SALE**—Newly reupholstered couch and chair, like new condition. Phone 539-0382. ttc

## 4. Mobile Homes

**SEE OUR FULL LINE** — Mobile Homes — or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. ttc

**FOR RENT OR SALE**—Executive type mobile home 50'x10' Anderson, 2 bedroom, 1 1/2 baths, air-conditioned, built-in washer, aluminum awning, oil tank and all accessories. Located near Shopping Center. \$150.00 per month including all utilities. Available approximately Nov. 1 1963. Ph. 876-5185 or after 5:30 p.m. at 539-6857. 10-23c

**WE HAVE 2** — 35'x8' 1 bedroom mobile homes. These are both real nice and clean. Only \$1995.00, terms to suit your budget. Texas Auto and Mobile Home Sales, 1003 Meridian St., Phone 536-6121. ttc

## 5. Houses, Lots - Sale

**22 ACRES**, choice retirement property, tract located in a thickly settled community, 20 miles south of Huntsville on black-top highway. Area is a highly developed agricultural section. Has 6 room dwelling, 3 bedrooms, bath, fine well, good barn, won't last long. \$8,000.00. E G WILLIAMSON, R E Broker, phone 734-6294, Cullman, Alabama. ttc

**WE CAN NOW BUILD** you a three (3) bedroom brick veneer home fully completed to FHA or VA requirements on your lot with carport and storage for as little as \$49.77 per month, plus fire insurance, taxes, etc. No down payment and no closing cost. CORNELIUS REAL ESTATE & INS. CO., 521 N. Broad St., Guntersville, Ala. ttc

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**LEWIS ROBINSON**  
539-8551 or See at  
773 MADISON ST.

**LARGE TRAILER LOTS FOR RENT** — Some with trees. To couples or single adults only. \$18.00 mo. includes water & sewer. Ideal place for nice people with good character. First mo. rent free. Located on Hwy. 231 So. 3 miles So. of Whitesburg Bridge. Convenient to arsenal gates 2 & 3. 539-8743. New court just opened with very strict rules to keep nice people happy and undesirable ones away. ttc

**CHOICE LOCATION** — Kirkwood subdivision between Whitesburg and Parkway, one block south of Drake Avenue 3 bedroom 1 1/2 baths, brick GI loan \$2000 equity. 208 Wingate Avenue, SW. Telephone 881-1977. ttp

**FOR SALE BY OWNER**—(In Lakewood) Tri level, 3 bedroom, 2 bath, U.S. Steel home. Buy small equity. \$1500.00 or best offer and assume balance of loan. Phone 539-8551 or 852-2063. See at 2202 Phillips Road, N.W. ttc

**FARM FOR SALE** — 160 acres with old house more than 1/2 mile overlooking beautiful mirror lake will sell for small down payment, balance at \$50.00 per month plus interest only \$50.00 per acre. Cornelius Real Estate Co., Guntersville, Alabama. Phone 582-3027 or 582-5313. ttc

**GUNTSVILLE LAKE 100'** Water front lot \$1250.00, inside lots \$500.00, only \$100.00 down \$20.00 mo. Ty Dorman Guntersville 582-3654 or Huntsville 876-3297. ttc

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Nice three (3) bedroom house Carlisle Park, Guntersville, Alabama, with separate dining room, fire place, large beautiful lot. Pay small equity and move in. Available now.

Nice three (3) bedroom home with GI loan and good location in Arab, Alabama. Pay small equity and assume payments will be available about November 1, 1963. Beautiful split-level now under construction in good location in Arab, Alabama, two (2) full ceramic baths approximately 1800 sq. ft., plus carport and storage.

**CORNELIUS REAL ESTATE CO.**  
Guntersville, Ala.

Phone 582-3027 or 582-5313 ttc

**BY OWNER** — Located NW near University Center, Brown Engineering, Gate 1 & 9, 3 bedroom brick, 1 1/2 bath, central air. \$500. down FHA. Call 881-3796 after 4:30 or 876-5806. N. Miller. 10-26p

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## C. F. STINNETT REAL ESTATE BROKER

918 Meridian St., North

Phone 536-8537

# \$500,000 Pershing Award Goes To New Jersey Firm

The Army has announced the award of a \$500,000 letter contract funding production of additional units of the Pershing missile's hydraulic actuation system. The letter contract awarded to the Kearfott Division of General Precision Inc., at Little Falls, New Jersey. The contract will be administered by the New York Procurement District.

The Pershing program is under the direction of Col. Edwin I. Donley, Pershing Project Manager for the Army Missile Command.

The items called for in the letter contract are designed to control and direct missile jet vanes and air vanes which guide the missile during flight.

The hydraulic action system originally was developed by the Kearfott Division of General Precision Inc., under subcontract to the Martin Company, Orlando, Florida, prime contractor for the Pershing system.

The Army's Pershing is a highly mobile ballistic missile of selective range. It is a two-stage, solid-propellant, inertially guided missile designed to eventually replace the liquid fueled Redstone.



**MAULER MAN**—Lt. Col. James Bain is the new Director of the Mauler Project System Engineering Division. He came to the Project Office from an assignment in Korea.

**ANNOUNCEMENT AMENDED**

The U. S. Civil Service Commission Board of U. S. Civil Service Examiners has amended announcement No. AT-1-(63) regarding open competitive examinations to the positions of clerk typist and clerk GS-2 and GS-3, and clerk stenographer GS-3 and GS-4.

The amendment closes the clerk and clerk typist GS-2 examination announcement. Applications must be filed with the Board of U. S. Civil Service Examiners, U. S. Army Missile Support Command, Redstone Arsenal, Ala., by the close of business Oct. 17, 1963. GS-2 rating carries a \$3560 a year salary.

Applications received after that date will not be accepted unless they are received by mail and bear a postmark on or before the above date.

Complete information concerning this amendment may be obtained from the original announcement.

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**Past President Talks To Chapter**

Raymond Einhorn, Director of Audits for NASA, will be the guest speaker at the October meeting of the Huntsville Chapter of the Federal Government Accountants Association.

The meeting will be held tomorrow evening at the Huntsville Country Club.

Mr. Einhorn will speak on "Auditing — A Dynamic Research and Development Program." He will emphasize auditing concepts as accentuated on program and project management.

The guest speaker is the past president of the Federal Government Accountants Association and is a member of the American Institute of Certified Public Accountants.

His awards include the distinguished leadership award for the development and implementation of forward-looking concepts in accounting and auditing in the U. S. Government.

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<b>1962 CADILLAC</b> 4 door hardtop, black, full power, factory air, low mileage. Like new. <b>\$4495.00</b>	<b>1960 VALIANT</b> 4 door sedan, 27,000 actual miles. Like new. <b>\$995.00</b>	<b>1963 IMPALA</b> Super Sport, all equipment inc. bucket seats, V8, auto., 6,000 miles. <b>\$2795.00</b>
<b>1959 CADILLAC</b> 4 dr. hardtop, factory air condition, yellow finish, extra clean. Wonderful bargain.	<b>ATTENTION!!</b> WE NOW HAVE A SERVICE DEPT. TO BETTER SERVE OUR CUSTOMERS.	<b>1963 IMPALA</b> 4 dr. sedan, 3,000 actual miles, power steering and brakes, 6 cyl. <b>\$2395.00</b>
<b>1963 FALCON</b> 2-door green, low mileage, like new. <b>\$1695.00</b>	<b>1961 CHEVY IMPALA</b> 2 door hardtop, all white with red interior, power steering and brakes. <b>\$1895.00</b>	<b>1962 CHEVY IMPALA</b> 2 dr. hardtop, black with gold interior, 327 engine, stick shift. <b>\$2095.00</b>
<b>1961 OLDS F-85</b> 4 door, light green, low mileage. Same as new. <b>\$1695.00</b>	<b>1962 CHEVY</b> 4 dr., V8, auto., 327 engine. Nice. <b>\$1995.00</b>	<b>1960 CHEVY</b> 6 cyl., S. S., turquoise. Like new. <b>\$1395.00</b>

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## Mauler Project Office Hosts Reliability Panel

The Mauler Project Manager Office, headed by Col. N. T. Dennis, was host last week to the eleventh meeting of the Mauler Reliability Panel. Attending were representatives of the prime contractor, General Dynamics/Pomona and representatives from each of the six Industrial Team Members.

Howard Polin, Director of the Mauler Quality Assurance and Reliability Division, was in charge of arrangements for the meeting.

The panel meets quarterly for the prime purpose of discussing reliability problem areas which are of common interest to the prime contractor and his major subcontractors.

John C. Bear, Chief of Weapons Systems Reliability at General Dynamics/Pomona, acted as moderator and chairman for the panel discussions.

Other panel members in attendance were D. R. Zugates, GD/P;

Z. K. Kawecki, Raytheon; J. R. Bubnekovich, Burroughs Corp.; K. M. Baker, Food Machinery Corp.; R. E. Mims, GD/E and John E. Lockyer, DeHavilland of Canada.

The first day of the meeting was devoted to a reliability status review. The prime contractor first presented a summary of the R&D prototype reliability prediction and a summary of systems test results to date. Each industrial team member presented a summary of the subsystems test (pre-acceptance test and engineering evaluation test) results to date; covering reliability assessment procedures, reliability measurement, significant problem areas, and corrective action status.

The second day of the meeting was reserved for a general discussion of reliability program tasks and for special topics any members wished to present.



**FRENCH VISITORS TO MISSILE COMMAND**—Frank Dark, in the Directorate of Research and Development, Army Missile Command, briefs Brig. Gen. J. P. Francillon (second from right, front), head of the French Army Materiel Procurement Agency. Standing to the visitor's right is Brig. Gen. Charles W. Eifler, Missile Command Deputy Commanding General for Land Combat Systems. Dark is a mechanical engineer in the Test and Evaluation Laboratory. Gen. Francillon was accompanied on his visit to Redstone by a group of graduates of the French Institute of Armament, Ordnance Section.

### R&D PHYSICISTS WILL GIVE PAPER AT CHICAGO MEET

Two physicists from the Army Missile Command's Directorate of Research and Development will present a paper Saturday to a Chicago meeting of the American Physical Society.

Romas A. Shatas, chief of the Solid State Physics Branch in the Directorate's Physical Sciences Laboratory, will make a presentation, "Zero-Phonon Transitions in Magnesium Oxide Color Centers." Shatas co-authored the paper with C. A. Tanton, who also works in the Solid State Physics Branch.

The meeting will be attended by the nation's top physicists, representing private and governmental agencies, and all branches of the military services.

### First Man Completes New Thiokol Program

Thiokol Chemical Corporation's Alpha Division - Huntsville Plant recently graduated the first employee from its newly initiated Operator Training Program.

He is Richard C. Drake, an "Operator A" in the Plant's Pilot Lines Department. Drake is one of approximately 400 employees currently undergoing training in the program.

The course, according to Frank E. Lewis, Chief of the Huntsville Plant's Training Section, is designed to teach the individual operator the "What" and "How" of solid propellant rocket motor preparation and loading.

### R. L. Browning Joins Thiokol Plant Here

Robert L. Browning has joined Thiokol Chemical Corporation's Alpha Division-Huntsville Plant as Chief of the Materiel Planning Section in the Plant's Materiel Department according to an announcement by John H. Goodloe, Huntsville Plant Manager.

In this position Browning will head a section responsible for planning the procurement of all materials used in the manufacture of solid propellant rocket motors, and for establishing inventory stock levels needed to support manufacturing operations.

His responsibilities in the area of materials procurement planning will include anticipating requirements for all solid rocket motor components and chemicals, and all materials required for direct and indirect support of motor manufacturing.

Prior to joining Thiokol's Huntsville Plant, Browning was General Supervisor of Program Administration with the Hayes International Corporation in Birmingham, Alabama.

With an increase of 2 million, Florida jumped in rank from 20th to 10th place in size of population, a 79 per cent increase over the 1950 U. S. census.

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