

The Redstone Rocket

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VOL. XI; NO. 18

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 12, 1962

PRESIDENT VISITS HERE



WELL DONE

I want to express my congratulations to personnel of the Army Missile Command who had a part to play in President John F. Kennedy's visit to Redstone Arsenal. Your jobs were well done, and received favorable comments from the President and members of his official party.

F. J. McMorrow
Maj. Gen., Commanding
Army Missile Command

WELCOME TO REDSTONE, MR. PRESIDENT — President John F. Kennedy steps down from his airplane Tuesday morning to be greeted at Redstone Army Airfield by Maj. Gen. F. J. McMorrow, Commanding General, Army Missile Command. The President was given full military honors as he started a two and a half hour tour of Army and MSFC installations at Redstone Arsenal.

HAIL TO THE CHIEF — President Kennedy, General McMorrow, Vice President Johnson and members of the President's party stand at attention Tuesday morning as ceremonies got underway preceding the tour of Redstone Arsenal.



President John F. Kennedy and two jet plane loads of high Defense, Space Agency and Congressional leaders zipped through a two hour visit to Army and Marshall Space Flight Center activities yesterday.

High point of the President's visit for most of the thousands of Army military and civilian personnel and MSFC workers who were allowed to line the route of the President's motorcade was a once-in-a-lifetime look at the smiling Chief Executive.

Thousands of Redstone Arsenal people took advantage of the opportunity and waited for up to two hours under a warm sun for the official party to pass.

Most agreed the President looked tanned and relaxed as he alternately waved to those lining the roads or bent to catch a word of explanation from one of his two official hosts riding with him—Dr. Wernher von Braun, Director of MSFC, and Major General Francis J. McMorrow, Commanding General of the Army Missile Command.

The presidential party arrived at Redstone Army Airfield in the thunder, smoke, and squeal of orange-nosed jets promptly at 9:30 A.M. as the first stop in a two-day visit to compile first hand information on the progress of America's Space Program

Vice President Lyndon B. Johnson, Defense Secretary Robert S. McNamara and Secretary of the Army Cyrus R. Vance were in the group. So were Peter Thornycroft, British Defense Minister; David Bell, Director of the Bureau of the Budget; James Webb, NASA administrator; Secretary of the Air Force, Eugene M. Zuckert, and General Curtis E. LeMay, Air Force Chief of Staff and a host of others.

The President stepped briskly down the ramp from his aircraft and shook hands with General McMorrow and Dr. von Braun as a 21 gun salute—fired by troops from Ft. Benning—boomed across the airfield mingling with the familiar notes of "Hail to the Chief" played by Redstone's own 55th Army band.

Lt. General Frank S. Besson, Jr., Commander of the Army Materiel Command who had flown in the previous evening, also welcomed the President and official party.

Troops from 14 nations allied in the defense of freedom stood

at rigid attention as the President moved to a podium.

The 291st Military Police Detachment represented the U. S. Army. All 522 foreign students from the Army Ordnance Guided Missile School were drawn up in ranks before the President. Soldiers and airmen from Belgium, Canada, The Republic of China, Denmark, Great Britain, France, West Germany, Italy, Japan, The Netherlands, Norway, Sweden and Turkey heard the President of the United States say he welcomed the opportunity to speak to men from free nations in a free world.

Enroute to a tour of MSFC's Saturn fabrication area and captive test facilities, the Presidential motorcade drove slowly by a lineup of 13 Army missiles each manned by a representative U. S. Army crew.

First stop off the airfield came at the Missile Command's Guidance and Control Laboratory. The five busloads of newsmen—more than 150 press representatives—on hand for the Presidential visit skipped this stop as tight security measures prevailed.

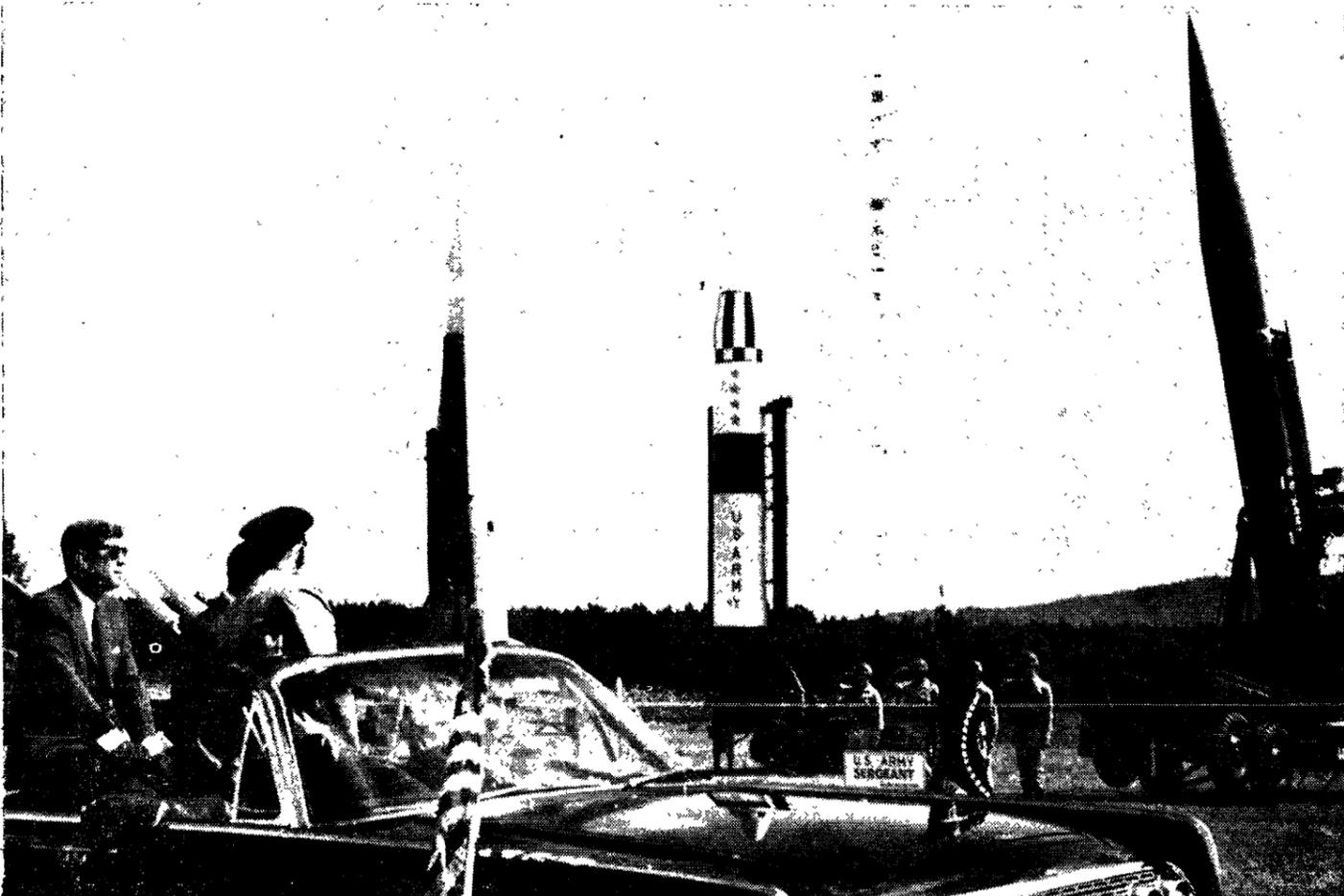
Personnel of the Missile Command's Research and Development Directorate demonstrated some of their proudest achievements to their Commander in Chief. The President and the few top officials who went behind the closed doors with him saw advanced missile guidance systems and components being developed for future generations of Army missiles.

Missile Command scientists who demonstrated a LASER for the President got several questions from Mr. Kennedy who showed great interest in the device and its possible use. The Missile Command is investigating potentials of LASERS (short for Light Amplification by Stimulated Emission of Radiation) in several classified applications.

In the MSFC Saturn fabrication area, the Presidential party heard a detailed explanation of the Sat-
(See PRESIDENT on Page 2)

★ ★

COMMANDER-IN-CHIEF REVIEWS ARMY MISSILES — John F. Kennedy reviews a special display of power-packed U. S. Army missiles on his arrival at Redstone Arsenal Tuesday. Weapons shown most prominently (left to right) are the Nike Hercules, Pershing and Sergeant. Nike Hercules is the Army's air defense missile system capable of "killing" enemy planes at supersonic speeds and is the forerunner of Nike Zeus, the anti-missile missile now in advanced development; Pershing is the Army's highly mobile selective range ballistic missile system capable of moving with troops in forward areas; Sergeant is a medium range ballistic system capable of carrying either nuclear or conventional warheads. (U. S. Army Photo)



The Redstone Rocket

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Rocket Ruminations

"You cannot help the wage earner by pulling down the wage payer."

—Abraham Lincoln

Give Once, Give Enough

September 10, 1962

SUBJECT: 1962 United Givers Fund Campaign

The Redstone Arsenal United Givers Fund Campaign will be formally opened on September 17. Once again this provides an opportunity for all of us at Redstone Arsenal to work with our friends and neighbors in Huntsville and surrounding communities in a common effort and spirit of helpfulness toward others. Most of us are quite familiar with the very worthwhile work done by the organizations supported through this drive. The people of Redstone Arsenal have always responded magnificently to the UGF appeal.

Within the next few days you will be approached by a solicitor who will be one of your fellow workers, and you will be asked to contribute. Please consider carefully the great benefits enjoyed by thousands of people who are assisted in some manner by the participating agencies of the UGF. Remember that as our community grows, the needs of these community service organizations become greater. When viewed in this light, I am sure you will be most generous with your contribution. If you have a question regarding any of the supported organizations or any other phase of the campaign, please ask your solicitor. He will have the answer or will get it for you.

I am confident that, working together, we will add distinction to the Redstone tradition of civic consciousness.

F. J. McMORROW
Maj. Gen., Commanding
Army Missile Command



A Real Opportunity

Plans have been announced for fall quarter registration at the Huntsville Center, University of Alabama. The new schedule of course offerings is greatly expanded with at least 22 being part of the Graduate Study Program offered by the Army Missile Command and Marshall Space Flight Center.

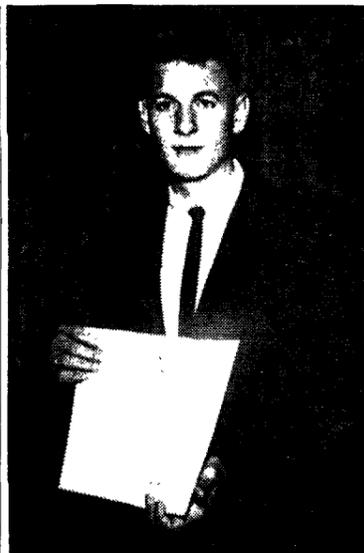
Few and far between are the communities of Huntsville's size that offer educational opportunities such as these.

As a matter of fact, there aren't many colleges in this country that can boast of the Huntsville Center's highly qualified faculty that will teach many of the courses in the fields of science.

Under the Center's program, you may take courses leading to undergraduate degrees or in graduate work. Many college graduates take courses simply for their self-improvement, not leading to any particular degree. You can find courses running from Servomechanisms to Fundamentals of English.

The fact is that personnel of the Army Missile Command have the opportunity to better themselves, and, in turn, do a better job for their country.

Perhaps this is the time for you to take inventory of your own educational needs.



D. N. LESTER

Summer Employee Receives \$1000 For Suggestion

Dewey Nelson Lester, a summer employe of the Army Missile Command, was the first to win a \$1,000 locally approved suggestion award.

An engineering student at University of Alabama, he submitted his suggestion while employed as a summer student in the Directorate of Procurement and Production. His suggestion will save the Army Missile Command approximately \$190,000 in the first year of use.

His suggestion concerned transponder and air leakage tests on the Nike Hercules missile. Presentation of the award was

BLOOD APPEAL

An appeal for 750 pints of blood from today's visit of the Red Cross Bloodmobile has been issued from the blood bank at Birmingham to help build the bank to normal after the toll taken by the long Labor Day weekend and the heavy demand from accidents. The Bloodmobile is at Bldg. 7110 until 2:20 p.m. today.

President

(Continued From Page 1)

urn program from Dr. von Braun and got a close look at a variety of space hardware which included the first public showing of the monster F-1 engine capable of generating one million pounds of thrust in its flight configuration.

Final scheduled stop in the two hour tour was a 30 second captive firing of an eight engine Saturn space booster. The staccato below of the nation's largest space booster in a 30 second captive test put a caper on the day's activities.

The President left Redstone bound for Cape Canaveral just prior to noon. Later in the day he planned to fly to Houston, Texas, where he will speak and tour space facilities today before returning to Washington with a scheduled stop at St. Louis enroute.

made by Maj. Jack Marsh, executive officer for the Directorate.

Lester graduated from Snead Junior College in his hometown of Boaz before enrolling in courses at the University.

His parents are Mr. and Mrs. Lindsey Lester, 913 Verbon Street, Boaz. His wife's parents are Mr. and Mrs. Versie Kilpatric, 204 Maple Ave., Boaz.

EMPLOYEE DEVELOPMENT OPPORTUNITIES

The following employe development opportunities were announced today by the Training and Development Division, Civilian Personnel Office, Army Missile Support Command: Further information may be obtained from the Training and Development division:

- Famous Artists Course
- Advanced Transistor Circuitry
- Basic Infra-red
- Basic Military Correspondence
- Oral Communication
- Work Simplification
- College Algebra
- Near Future:
- Advanced Infra-red
- Corrosion Control
- Undergraduate Study
- Graduate Study
- Metrology
- Conference Leadership

UNIFORM IDENTIFICATION

All Military Aircraft are to be identified in accordance with a uniform designation system the Department of Defense announced recently. This is considered another significant step toward standardization within the Armed Forces. The current practice is for the Army, Navy and Air Force to designate their aircraft under different systems.

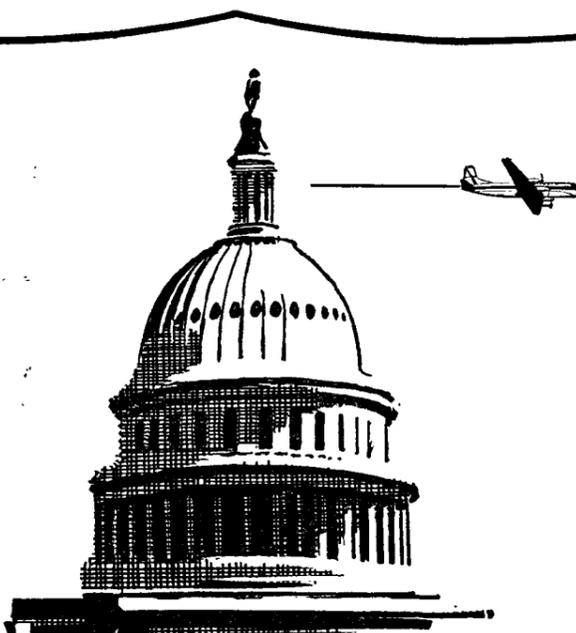
IT'S in the BOOKS



"THE UNITED STATES OF AMERICA"

THESE WORDS WERE FIRST USED BY **THOMAS PAINE** IN HIS PAMPHLET, **"COMMON SENSE,"** FORERUNNER OF THE DECLARATION OF INDEPENDENCE. THE PAMPHLET APPEARED EARLY IN JANUARY, 1776. IT STATED THE CASE OF THE COLONIES AND CARRIED THE CAUSE OF FREEDOM FORWARD WITH A RUSH.





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Nut Or Bolt Sometimes Supersedes All Else

Kwajalein Supply Line Is Long, Thin

KWAJALEIN ISLAND, M. I.—When the old axiom about the Army traveling on its stomach was first voiced, its author obviously foresaw nothing like the Nike Zeus anti-missile missile program on this remote island in the mid-Pacific.

For here oftentimes a 20-cent nut or bolt is more important than the taste buds of the Army and the hundreds of contractor personnel working on the Zeus project. This is true because the missile program depends wholly on a thin supply line sometimes stretching 5,000 miles and more to the United States mainland.

The steady stream of supplies—from that 20-cent nut or bolt to a highly complex piece of vital electronic equipment—to Kwajalein flows either by boat or airplane. And so do the necessities for a community of almost 3,000 persons who live and work here. The Army here is a tenant on the Pacific Missile Range.

On the Army's side of the house, the responsibility for seeing that this flow of supplies continues without interruption falls on the shoulders of D. H. Fairbanks. He is logistics officer for the Army Missile Command's Pacific Field Office at Kwajalein. Fairbanks is a "graduate" of the Army's missile operations at White Sands Missile Range, N. M., and is well aware of many of the "built-in" problems inherent in almost any missile program.

Fairbanks' job is largely that of a coordinator with the actual procurement being accomplished by the host of contractors involved in Nike Zeus and the Advanced Research Projects Agency's major project in the Marshall Islands, the TRADEX radar on Roi Namur Island, about 45 miles northwest of Kwajalein. TRADEX is a vital part of Project PRESS, under which studies of missiles in flight are being made.

At first glance, the supply system for these projects would appear to be somewhat unreliable, largely because of the distance involved in getting many supplies. But the reverse is true. Says Fairbanks: "It works surprisingly well. We've had our problems, of course, but nothing which we haven't been able to solve."

Fairbanks' coordinating is largely with eight contractor plus the Army's: Corps of Engineers plus the Navy plus three Army Ordnance Districts. It shapes up like this:

Working in the Nike Zeus program on Kwajalein are Bell Telephone Laboratories, which has the responsibility for system development; Western Electric Company, the prime contractor; and Douglas Aircraft Company which builds the missile. Under these giants of industry are many, many subcontractors, a number of which have representatives on Kwajalein.

In addition, Fairbanks must work extensively with the Navy, on whose Pacific Missile Range Nike Zeus is being tested. Navy contractors are Chance-Vought, which operates the range and the Transport Company of Texas, which is the "housekeeper" for the facility.

On Project PRESS are two major contractors, the Massachusetts In-

stitution of Technology's Lincoln Laboratory and the Radio Corporation of America.

Project PRESS is a major part of Fairbanks' job since the Army is directly involved in providing for its logistic support.

The Pacific Field Office chief, Lt. Col. E. M. Dooley, is contracting officer representative, both on Project PRESS and Nike Zeus. PFO also reviews purchases and audits the flow of supplies funneled into the area from all sources whenever the supplies are destined for either Zeus or PRESS but is not involved in actual procurement.

Involved deeply in both projects is the Corps of Engineers with responsibility for building new facilities funded by the Army and ARPA. The three ordnance districts which get into the picture are the districts in New York, Philadelphia and Birmingham.

A third facility which gets at-

attention from the Pacific Field Office in the realm of logistic support is the launching site for Speedball target rockets from Roi Namur. Speedball is a two stage target for the Kwajalein Zeus installation.

The "pipe" through which supplies flow into Kwajalein for these projects and the people who work on them are four airplane flights a week and semi-monthly dockages by ships from two steamship lines.

How does a supply system involving so many different organizations operate so smoothly? Fairbanks had a ready answer: "As I said, we—meaning all of us involved in logistic support—have our problems. But the key here is

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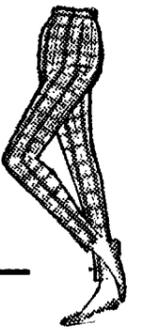
contractors who have been in the and who know their business management business a long time well."

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Math test 6:00 p.m.
English test 7:00 p.m.

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University of Alabama

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Last day of registration:
Oct. 6, 1962

Registration: Sept. 24-25 — 12:00-8:00 p.m.

— Schedule of Classes —

DAY CLASSES ON MONDAY AND WEDNESDAY

Accounting 1 (8:00-10:05)	French 1 (10:05-12:10)	English 1 (1:00-3:05)
History 1 (8:00-10:05)	Mathematics 9 (10:05-12:10)	Drawing 5 (1:00-5:05)

EVENING CLASSES ON MONDAY AND WEDNESDAY

First Period: 5:50-7:55 p.m.

Course	Title and Prerequisite	Sem. Hrs.	Cr.
ACC 53	Intermediate Accounting—Acc3	3	
AE 130	Aerodynamics—MA 51, MH 80	3	
AE 177	Dynamics of Flight—AE 131 and GES 131	3	
AE 191	Special Problems (Applied Statistics in Meteorology)—Sr. standing and BS 135, 136, IE 56, or AE 141	3	
CH 201	Advanced Inorganic Chemistry, Part I — Grad. standing in Natural Science or Perm. of instr.	3	
DR 5	Fundamentals of Mechanical Drawing (6-10)—None	2	
DR 11	Engineering Drawing (6-10)—MA 25 or evidence of previous instruction in mechanical drawing	2	
ED 63	Educational Psychology—PSY 1	3	
ED 211	Principles of Guidance—Grad. standing	3	
SPE 95-205	Psychology of Mentally Retarded Children—Grad. standing	3	
EE 51	Fundamentals of Electrical Engineering I (Prob. Sessions Fri. 6-9)—PH 6c, MA 49	3	
EE 221	Electromagnetic Field Theory—EE 181	3	
EH 2	English Composition—EH 1	3	
EH 6	English Literature—EH 5	3	
EH 42	English Composition for Engineers—EH 41 or Perm. of instr.	3	
EH 184	Technical English—EH 1-2 or 41-42 and Jr. standing	2	
GES 222	Graduate Engineering Analysis II — Ma 53	3	
GR 55	German Conversation—GR 1-2 or 9-10	3	
HY 1	History of Western Civilization—None	3	
IE 54	Engineering Organization—EC 11	3	
IE 212	Design and Management of Organizations—Grad. standing and Perm. of instr.	3	
IE 255	Statistical Methods of Engineers—MA 51 and Grad. standing	3	
MA 01	High School Algebra—None	NC	
MA 9	College Algebra—See footnote	3	
MA 11	Introductory College Mathematics—See footnote	3	
MA 49b	Calculus and Analytic Geometry—MA 49a	2	
MA 53	Applied Differential Equations—MA 51	3	
MH 155	Mechanical Vibrations—MH 56, 64, and MA 53	3	
MH 382	Theory of Flow of Viscous Fluids—MH 281	3	
PH 5c	Technical Physics (Mechanics) (Lab: Tues. 5-8) — MA 25 or parallel; recommended parallel MA 49a	3	
PH 231	Electromagnetic Theory I — 20 hrs. of PH and Grad standing	3	

Second Period: 7:55-10:00 p.m.

ACC 3	Accounting Analysis—ACC 2	3	
BIO 1	General Biology (Plant) (Lab: Fri. 6-10)—None	4	
BL 51	Intro. to Business Law—Jr. standing or Perm. of instr.	3	
EC 12	Principles of Economics—EC 11	3	
EH 03	Fundamentals of English—None	NC	
EH 1	English Composition—See footnote	3	
EH 41	English Composition for Engineers—See footnote	3	
HY 92	Europe Since 1815—9 hrs. of HY or Perm. of instr.	3	
IE 55	Intro. to Engr. Statistics—MA 49b & concurrently with MA 51	3	
MA 15	Analytic Trigonometry—MA 9 or MA 11	3	
MA 25	Analytic Geometry and Calculus—MA 15	3	
MA 37	Fundamentals of Mathematics (Education students)—None	3	
MA 49a	Calculus and Analytic Geometry—MA 25	3	
ME 95	Thermodynamics—PH 5, MA 51	3	
PH 53	Intro. to Atomic and Nuclear Physics—8 hrs. of PH	3	
POL SC 3	Functions of American Government—POL SC 1	3	
PHL 2	Intro. to Scientific Methods—None	3	

FOOTNOTE: Students are placed in appropriate sections of beginning English and Mathematics depending on scores made on placement tests.

Boldface symbols indicate Graduate Study Program Courses.
CURRENT AFFAIRS SEMINAR—The Supreme Court in Contemporary America—Friday Nights (8-10), Oct. 5-Nov. 16, 1962.

TUESDAY AND THURSDAY

First Period: 5:50-7:55 p.m.

Course	Title and Prerequisite	Sem. Hrs.	Cr.
ACC 1	Principles of Accounting—None	3	
AE 171	High Speed Aerodynamics—AE 132 and GES 132	3	
ART 7a, 7b, 8a, 8b	Design and Orientation (Tues. only, 6-10)—None	1½	
BUS ST 1	Mathematics of Finance—MA 9 or equiv.	3	
CH 1	General Chemistry (Lab: Fri. 6-10)—MA 9	4	
DCF 1	Digital Computer Fundamentals—None	NC	
DR 42a	Production Illustration (Thurs. only 6-10) — DR 11	1	
EC 11	Principles of Economics—None	3	
EE 151	Transistor Circuits—Perm. of instr.	3	
EE 201	Transients in Linear Systems—EE 134	3	
EE 205	Servomechanisms—EE 134 and Grad. standing	3	
EE 211	Network Analysis—EE 134	3	
EH 1	English Composition—See footnote	3	
EH 2	English Composition—EH 1	3	
FR 4	Intermediate French—FR 3	3	
GDC	Government Defense Contracting—None (5:30-7:30)	NC	
GR 2	Elementary German—GR 1	3	
HY 35	Institutional and Cultural History of Christian Church to 1500—None	3	
IE 53	Manufacturing Processes—Soph. standing	3	
IE 206	Principles of Human Engineering—Grad. standing and Perm. of instr.	3	
MA 49a	Calculus and Analytic Geometry—MA 25	3	
MA 91	Intro. to Real Analysis—MA 51	3	
MA 124R	Celestial Mechanics I — 17 hrs. of MA	3	
MA 127	Vector Analysis — 17 hrs. of MA	3	
MA 255	Intro. to Complex Analysis—Normally preceded by MA 91	3	
MA 222R	Theory of Stability—MA 259	3	
MH 55	Statics—MA 49, PH 5c; Pre or parallel MA 51	3	
MH 161	Advanced Mechanics of Materials—MH 64	3	
MH 366	Theory of Plates and Shells—MA 53	3	
PH 101	Intro. to Theoretical Physics (Intermed. Mech. II)—PH 72 and differential equations	3	
PH 155	Infrared Radiations—PH 70 or 141, MA 49	3	
POL SC 1	Principles of American Government—None	3	
PSY 28	Applied Psychology—PSY 1	3	
	Reading Improvement—None	NC	
RUS 4	Intermediate Russian—RUS 3	3	

Second Period: 7:55-10:00 p.m.

ACC 2	Principles of Accounting—ACC 1	3	
EH 1	English Composition—See footnote	3	
EH 5	English Literature—EH 1-2	3	
FR 1	Elementary French—None	3	
GR 1	Elementary German—None	3	
HY 21	The U. S. to 1865—None	3	
IE 105	Engineering Economics—Sr. standing	2	
INV I	Investments I (Tues. only)—None	NC	
MGT 51	Principles of Administrative Organization—EC 11-12, concurrently with EC 12	3	
MA 9	College Algebra—See footnote	3	
MA 15	Analytic Trigonometry—MA 9 or 11	3	
MA 51	Calculus—MA 49b	3	
MH 64a	Mechanics of Materials, Part I—MH 55, MA 51	2	
PH 6c	Technical Physics (Heat, Light, and Sound) (Lab: Mon. 5-8)—PH 5c	3	
PH 85	Intermediate Electricity and Magnetism—MA 51	3	
PSY 1	Intro. to Psychology—None	3	

Students are placed in appropriate sections of beginning English and Mathematics depending on scores made on placement tests.

Persons desiring to enroll at the Center for the first time should submit applications for admission well in advance of the date of registration. Applications for admission and transcripts of high school or college records must be filed with the Center Registrar and approved by the Office of Admissions on the main campus before registration. Application forms and information on admissions are available at the Center office.

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Col. Allgeier Says:

Badge System Needed 'Need-to-Know' Control

Strict control of the issuance of Master and All-Area Identification badges has been directed by Col. Thomas W. Cooke, Commander, Army Missile Support Command. He has the responsibility of providing badges for approximately 20,000 people authorized to enter Redstone Arsenal. The re-badging program now in effect will be completed about October 15.

"The necessity for strict control of Master and All-Area badges" said Col. Robert M. Allgeier, MPC, Assistant for Intelligence, Operations and Security, "became evident when one of the directors complained to me that he had received several hundred applications for his concurrence on the issuance of these 'exclusive' badges. He declared that he could not concur on most of the applications and asked that some method be adopted to screen all requests.

"As result of the complaint and my own investigation of the problem Colonel Cooke decreed that all applications for the Master and All-Area badges be submitted to my office. Those which met the

criteria would be forwarded to the agencies concerned for concurrence and those which did not meet the criteria be returned to the applicants.

"We have had many reclamors from the people who have been turned down, but, I feel in practically all instances we have been able to satisfy the complainants that their people do not require unlimited access to all activities on the Arsenal or to all within the Army Missile Command.

"Too many people do not realize that, if they have the requisite 'need to know' and adequate intelligence clearance they can go anywhere on the Arsenal by making arrangements with the agency to be visited. Conversely, they do not realize that the mere possession of a Master badge will not permit them to enter certain areas without making prior arrangements. There are places where for safety, as well as security, reasons visitors are not permitted to enter without escort or special permission.

"More than 2000 'star' or all-



NEW GENERAL WELCOMED—Among the approximately 250 members of the Army Missile Command to welcome Brig. Gen. and Mrs. H. P. Persons to Redstone Arsenal Friday night were (left to right): Maj. and Mrs. W. F. Higgins and Maj. and Mrs. W. M. Kiser. In the reception line with Gen. and Mrs. Persons were Maj. Gen. and Mrs. F. J. McMorrow. Gen. McMorrow is the Commanding General of the Missile Command. Gen. Persons is assigned as the Deputy Commanding General, Guided Missiles.

area badges were issued since the last rebadging operation in 1959 and the possession of a 'star' badge became a matter of prestige. People have worn those badges for two to three years and have never been to more than half a dozen areas on this installation. One of the most common reasons advanced on applications for Master or All-Area badges has been 'I've had an all area badge for years.' That is no reason."

The Master badge, which has a combination dial and compass in the lower right hand corner, permits entry into any Army Missile Command, Army Ordnance Guided Missile School, Thiokol Corporation or Rohm & Haas area. Each application must be approved by the pertinent area security officer.

The All Area Badge, which has a star in the lower right hand corner, permits entry into any Army Missile Command area. Each application must be approved by the pertinent area security officer. As pointed out by Colonel Allgeier, however "permits entry" is subject to the limitations imposed by the responsible official through his area security officer.

"Anyone who has the right to be on Redstone Arsenal and who has the 'need to know,' declared Colonel Allgeier, "can be placed

on an access list. These lists are provided by area security officers to security policemen at every security area. If your supervisor feels that you must frequently visit specified areas, he should request the cognizant security officer

to put your name on the access list. I recommend that security officers re-evaluate their procedures for badging their personnel for security areas which must be visited, and consider the use of access lists."

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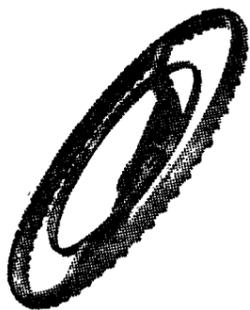
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United Givers Fund Campaign Begins Monday

General McMorrow To Deliver Address To Fund Workers

Redstone Arsenal's annual United Givers Fund drive will officially open on Sept. 17 when scores of workers gather at Rocket Auditorium to hear a special kick-off address by Maj. Gen. F. J. McMorrow, chairman.

Facing an increased need of about \$50,000, Redstone Arsenal UGF drive officials stress the importance of this year's campaign.

Appearing on stage with General McMorrow will be representatives of eight of the fund's 30 national, state and local health and welfare agencies. Also on hand will be members of the UGF organization as well as key supervisors in the campaign.

Also scheduled to speak at the event is William F. Davoren, President of the Huntsville-Madison County UGF. Representatives of agencies for which the UGF is organized will be present as guests.

The 2 p.m. event will begin this year's drive which will continue through Nov. 2, pursuing the same Fair Share goal as last year—50 per cent of one day's pay—according to Executive Chairman H. R. Lowers.

Government buses will be provided for all drive chairmen, monitors and solicitors attending the event. Buses will leave designated pick-up points early enough that all representatives will reach Rocket Auditorium before the event begins.

Monitors and solicitors should contact their drive chairmen to determine where their pick-up point will be and at what time.

In the Redstone Arsenal campaign, a person may donate to the UGF, or a comparable organization of his home county.

Campaign officials suggest that givers residing in and donating to organizations other than Madison County, contribute a portion of their donation to Madison County because the Madison County UGF organization bears a proportionately heavier load of services.

Officials also point out that an individual may designate specific agencies on the pledge card.

Lowers, Executive Chairman,



Jennings Prady

will act as master of ceremonies for the Sept. 17 kick-off session. The meeting will be opened with an invocation by Chaplain (Lt. Col.) Wilmer R. Bottoms, Post Chaplain.

Music will be furnished by the 65th Army Band.

Executive Chairman Lowers said



Watson Cleere

that in reporting, civil service, contractor employes and military personnel will be handled as separate groups.



Mcpherson Campbell

Officers and warrant officers

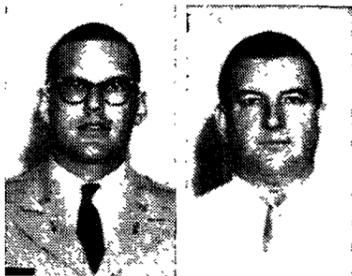
will contribute through the Agency to which each is assigned in the same manner as the civilian employes. Enlisted men will contribute through military units.

Other officials of this year's



Lee Stewart

drive include Thurman Burns, Executive Secretary; Ralph C. Perrill, Publicity Chairman; and W. T.



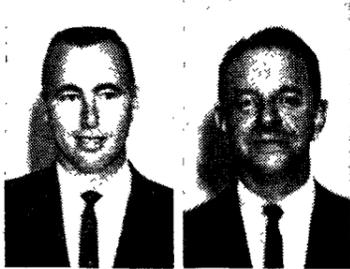
Allingham Cobun

Bledsøe, Finance and Reports Chairman.

Drive Chairmen include E. M.

Jennings, Army Missile Command; Kelly Prady, Procurement and Production; W. C. Watson, Research and Development Directorate; J. C. Cleere, Supply and Maintenance Directorate; and W. R. Henry, Army Missile Support Command;

Col. W. J. Mcpherson, Ordnance Guided Missile School; P. T. Camp-



Bailey Wisner

bell, Rohm & Haas Co.; C. C. Lee, Thiokol Corp.; O. B. Stewart, Area Engineers;

J. C. Lindsey, HAWK Project Office; Capt. E. R. Allingham, Nike-Hercules Project Office; Cam-



Lederman Tatham

den Cobun, Nike-Zeus Project Office; George Bailey, Mauler Project Office; Paul Wisner, Pershing Project Office; A. M. Lederman, Sergeant Project Office; and 1/Lt.

C. H. Tatham, Missile "B" Project Office, all within the Guided Missile Systems and the Ballistic Missile Systems; and Joe Muller, Missile Intelligence.



Muller

Brockman Represents Command at Seattle

Leonard M. Brockman, Civilian Personnel Office of the Army Missile Command, was among the participants in the 18th biennial convention of the American Federation of Government Employees at Seattle Sept. 3-7.

Certain employes from the Federal Government were invited to the convention including John W. Macy, Jr., Chairman of the Civil Service Commission who is scheduled as the principal speaker for management. Others representing the Army, Navy, Air Force, Agriculture and the Treasury were invited. Brockman was invited to represent the Missile Command, by James A. Campbell, National President of AFGE.

George Mean, President of the AFL-CIO was scheduled as the principal speaker for Labor at the Seattle meeting.

School Committee To Hear Zukowski

Mr. Charles F. Zukoski, Jr., of Birmingham, chairman of the Alabama Committee for Better Schools will address the Huntsville chapter at 7:30 p.m. Tuesday, September 18, at the Huntsville Board of Education Building on Bob Wallace Ave.

In his remarks, Mr. Zukoski will discuss the 1963 objectives of the Committee which have already been presented to Democratic nominee for Governor George Wallace.

In addition to the talk, the meeting will discuss its library magazine program. Thiokol Chemical Corp. is presently distributing technical magazines to school libraries. Other technical companies in the area will be asked to participate in this program.

Tuesday's meeting is open to the public. Louis L. Ullman of Thiokol is Chairman of the Huntsville Committee for Better Schools.

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Sports by Handy

By Sgt. Robert Handy

Baseball

The baseball season for Redstone Arsenal has come to an end.

In the Post Level Baseball League not much happened that caused any stir in the baseball world. But this was soon changed when the 3rd U. S. Army Baseball Tournament arrived here at Redstone Arsenal.

The Redstone Arsenal All-Stars proved that they were a team that Redstone could be proud of. There were mistakes and errors made, but they captured the hopes and spirit of all who watched the Tournament.

The Redstone All-Stars did not win the Championship, but did walk away with the Runner-Up trophy. Considering the depth of the teams like Ft. Benning, Ft. Campbell, Ft. Jackson, the thought of Redstone having a chance was mighty small, mighty small! The power facing them was enough to make the strongest team shiver, but Redstone took heart, and with only 16 available players, made all 3rd Army take notice by defeating strong teams like Ft. Camp-

bell (a pre-tournament favorite), Ft. McPherson (who came up to Redstone with ideas).

Redstone was noted throughout the tournament for their good sportsmanship and clean play on the diamond. In the semi-finals and the finals against Ft. Benning, Redstone threw a scare in both games.

Ace Pitcher

Ft. Benning had to fall back on their ace pitcher (which was all they had) to stop the raging 'Rockets' from Redstone. Ft. Benning one man team, Charles Spell, pitched Ft. Benning to the Championship by pitching a no-hitter against Ft. Campbell then relieving the next day for four innings, then coming back for five more scoreless innings in the final game with Redstone.

Many Spectators

Crowds of 400-500 spectators each game was satisfied with the brand of ball that was seen on Linton Field. Many are waiting for next season.

So to close another successful season for 1962 Special Services Division wishes to offer their thanks to the Unit Commanders, Staff Sections Chiefs, Section Chiefs, and to the loyal spectators for their fine support in making the 3rd U. S. Army Tournament one that all will remember.

Many thanks are due the 'Rocket' for the coverage of the tournament. The visiting teams, visiting VIP's and all visitors complimented on the wonderful treatment



REPRESENT REDSTONE—Post level softball champions from Hq. and Hq. Det, Army Missile Support Command, will represent the Arsenal at Ft. Jackson in the Third Army softball tournament. Front row (left to right) are: Joseph Ginocchi, John Revels, Steve Rubio, John Bosco, Frank Wellwerts, Bill Hicklen and John Gering. Second row, (left to right) are: Lt. John Blondell, manager; Bill Gawron, team captain with highest batting average, award; Al Sarkowicz, Warren Saddler, Jerry Hudson, and Robert McClure.

they received here at Redstone. All Redstone can be proud.

Vacationing

Any one (military or dependents) traveling on a "shoe string" and would like to enjoy their vacation (or furlough as the 'ole Army called it) to Florida, can do so by contacting Special Services Officer, 876-4050. Reduced rates are available at Hotels in Miami Beach and the Special Services Officer has presentation cards for these reductions.

Bowling

The Army-Air Force Officers' Bowling League got under way last Wednesday, Sept. 5 at the post lanes. The team standing after that night's bowling are:

	Won	Lost
Lucky Strikes	8	0
Black Jacks	6	2
King Pins	6	2
Raiders	6	2
Pin Splitters	2	6
Hopefuls	2	6
AF Jupios	2	6
Jupiters	0	8
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Sports Car Buffs

By Ray Mosling

One of the big events we have all been waiting for will take place this coming weekend, Sept. 15-16, at Courtland Airbase, Courtland, Ala.

This year's running of the Tennessee Valley Region, Sports Car Club of America Divisional Races promises to be one of the largest

608. Any active or retired officer that would like to bowl in this league should call Lt. Robert W. Senn, league secretary, 876-6061.

and best to date. Racing entries are expected from all parts of the Southeast to compete for divisional racing points.

Race Chairman Bill Aycock (Thiokol) has spared no effort in trying to make this race one of the best ever seen in Alabama, and I am sure it will be. Come on out and join us for a weekend of racing. Don't forget your straw hat and water jug, however.

Persons wishing to work at the races are requested to be at the course at 8:30 a.m. on Saturday, Sept. 15.

Scheduled for the following weekend is the fourth event of the current SCCA Championship Autocross series. Time and place for this event will be announced next week.

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1958 PLYMOUTH Belvedere Sport Cpe. A beautiful bronze and white radio, heater, push button drive. \$895.00	1955 CHEVY 4 door, 6 cyl., radio, heater, newly overhauled engine. \$575.00	1959 VOLKSWAGEN Station Wagon. A real nice one. \$1095.00
1957 FORD CUSTOM '500' 4 door, baby blue and white, radio, heater, auto. \$695.00	1954 MERCURY 2 dr., radio, heater, o'drive, newly overhauled engine. Excellent condition. \$475.00	1955 PLYMOUTH 6 cyl., S. S., radio & heater. Clean and nice. A local one. \$495.00

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SPRAGINS TOURNAMENT—Winners in the annual R. L. Spragins Golf tournament received trophies from Gen. Spragins (ret.) and Mrs. Spragins. Pictured are (left to right) Gen. Spragins, Mrs. Frank Napper, winner; Mrs. R. J. Schofield, runner-up; Mrs. Clara Miller, tied with Mrs. Napper for low putt; and Mrs. Spragins.

Spragins Tournament Won By Mrs. Napper

Winners in the Spragins Golf tournament were presented trophies at a lunch in the Rathskellar of the Squirrel Hill Officers Club at the conclusion of play Thursday by Maj. Gen. R. L. Spragins (ret.).

Gen. and Mrs. Spragins sponsor an annual tournament for the Golf Group of the Redstone Arsenal Officers Wives Club, and end the tournament with a luncheon to award the trophies.

Winner of high net was Mrs. Frank Napper, with Mrs. R. J. Scofield, second. Mrs. Napper tied with Mrs. Clara Miller for low putt.

Mrs. Charles Payne was presented a special award for organizing the 18-hole tournament.

30 Weapons Systems To Be Under Project Managers

"The Army has identified the 30 weapon systems to be placed under project management within the U. S. Army Materiel Command. This represents the broadest application of the vertical concept undertaken within the Armed Forces.

"These 30 weapon systems account for approximately one half of the \$4 billion dollars the Army spends annually on research and development, test and evaluation, (RDT&E) and on procurement of equipment and missiles (PEMA). They account for \$0.5 billion or 40 percent of RDT&E funds and \$1.5 or 55 per cent of PEMA funds.

"The 30 project managers being appointed by Lt. Gen. Frank S. Besson, Jr., Commanding General of the U. S. Army Materiel Command, will have complete responsibility for the R&D, production and delivery of assigned weapon system.

"Each project manager will act with the full authority of the CG, AMC. Twelve will report directly to the CG, AMC. The other 18 will report to the CG of one of the seven major subordinate commanders of AMC.

"The weapon system project managers selected to report directly to the CG, AMC are: FABMDS (Field Army Ballistic Missile Defense System); LOH (Light Observation Helicopter); General Sheridan (Armed Recon/Airborne Assault Vehicle); Aircraft Weaponization; Mohawk (Observation aircraft); Caribou (aircraft); Iroquis (helicopter); Chinook (helicopter); selected ammunition; Deseret (test center) Advent (ground environment for satellite communica-

tions); and Zeus (automatic defense system against ballistic missiles).

"Project managers of weapons system reporting to the CG, Army Missile Command, Huntsville, Ala. are: Missile B (light missiles); Pershing (support missile for field Army); Sergeant (support missile for field Army); Mauler (air defense missile); Hawk (anti-aircraft missile), and Hercules (air defense missile).

"The CG, Army Electronics Command, Ft. Monmouth, N. J. will have the following weapon systems managers reporting to him: AN/USD-2 (drone); AN/USD-5 (drone); RADUS (radio direct voice system); CCIS-7 (command control information system); Unicom/Starcom (global communications system) and AN/PRC-25 and AN/VRC-12 (tactical transistorized radio).

"Weapons systems project managers reporting to the CG, Army Weapons Command, Rock Island, Ill., are: M-60 (tank); Combat vehicles (armored); Davy Crockett (recoilless rifle capable of firing nuclear warhead), and M14 (rifle).

"The CG, Army Mobility Command, Detroit, Mich., will have reporting to him the project managers for general purpose vehicles.

"The project manager for BZ

(chemical system) will report to the CG, Army Munition Command, Picatinny Arsenal, Dover, N. J."

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SOCIAL ^{and} CLUB EVENTS

Mrs. Furphy Honored, Named Volunteer Head

Red Cross Awards Two 20 Year Pins, One 15-Year Pin

Mrs. Foster Furphy succeeds Mrs. William Kiser as Chairman of Red Cross Volunteers at Redstone Arsenal.

The announcement was made during a Coffee at the Squirrel Hill Officers Club last Thursday morning.

In addition to the welcome to Mrs. Furphy and farewell to Mrs. Kiser who will take up residence in Texas while her husband is assigned in Korea, two twenty year pins and one 15-year pin for Red Cross service were awarded.

Recipients of 20 year pins were Mrs. F. J. McMorrow, nurses aide; and Mrs. Furphy, Gray Lady service. Mrs. Glenn L. Bass received the 15-year pin.

Mrs. Furphy announced that there is urgent need for Volunteers including staff aides, nurses and Gray Ladies to staff the monthly visit of the Bloodmobile, the U. S. Army Hospital at Redstone, the various outpatient clinics and the dental clinic.

She said that classes for Gray Ladies will be held Sept. 26-27. Announcement of the place will be made in next week's Redstone Rocket.

Following the two day classroom sessions, the new Gray Ladies will serve eight weeks probation on the job before the capping ceremony. Mrs. Furphy said any interested individuals may contact her at 877-5649.

Recent turnover in personnel throughout the Missile Command has depleted the number of Volunteers, Mrs. Furphy said.

In addition, nine teenagers who have worked at the Bloodmobile during the Summer have returned to the classroom and will not be available during the coming seasons.

They are Sharon Whelan, Susan Palmer, Bunny Nagle and Mary Ellen Bond who all worked in the temperature and pulse room; Joan Nagle and Sue Leech, registration; Carol Grace, recovery; Nancy Gleason, blood replacement; and Kathy Cook, bottles.

GEORGIA ALUMNI MEET

Mr. Neil DeRosa, Placement Director, Georgia Institute of Technology, will address the Huntsville Chapter for the Society for Personnel Administration at its first meeting of the season on September 18 at Redstone Arsenal Officers' Club. His topic will be "Ground Engineering Versus Space Engineering."



REPRESENT A LOT OF SERVICE—Mrs. Glenn Bass (second from left) receives a 15-year-Red Cross Service Pin from outgoing Chairman of Volunteers at Redstone Arsenal, Mrs. William M. Kiser. Mrs. F. J. McMorrow (left) and Mrs. Foster Furphy, (right) both received 20-year-Red Cross Service Pins during a Coffee at the Squirrel Hill Officers Club Thursday. Mrs. Furphy is the new Chairman of Volunteers. Mrs. McMorrow is the Honorary Chairman.

Engineers Auxiliary Plans Annual Coffee

The Ladies Auxiliary of the Northeast Alabama Chapter of National Society of Professional Engineers held its annual membership coffee Sept. 11 from 10:00 to 12:00 a.m. at the home of Mrs. Gaines P. Gravlee.

Invited guests were received by Mrs. Gravlee. Mrs. Arthur E. Harvey, president, Mrs. Lawson Lee, vice-president, Mrs. Grover Dawson, secretary, Mrs. John Calhoun, treasurer, and Mrs. Randolph Neal, past president.

The first regular monthly meeting will be September 25 at Holiday Inn. All eligible wives are cordially invited. Call Mrs. Lawson Lee for reservations 881-2013.

General Public Can Star Gaze Tonight

An opportunity to go star-gazing is being offered the general public tonight (Wednesday, Sept. 12)

Rocket City Astronomical Association will have an Open House at its observatory from 8 until 10 p.m. The observatory is on Monte

OFFICERS WIVES RESUME BRIDGE

Play resumed Thursday for the Party Bridge Group sponsored by the Redstone Arsenal Officers Wives Club at the Squirrel Hill Officers Club.

Winners were Mrs. Stephen J. Dobbs, high; Mrs. J. M. Rives, second; and Mrs. J. T. Bull, third.

All members of the Officers Wives Club are eligible to play with the group each Thursday morning beginning at 10 a.m. Reservations are handled by Mrs. Fred Nolston. 877-4635.

Missilemen Conduct Value Analysis Class

Two members of the Value Analysis Office of the Army Missile Command took part this week in conducting courses at the Army Engineer Research and Development Laboratories at Ft. Belvoir, Va.

Joseph L. Schertz and Raymond G. Weber presented an eight hour Value Analysis Orientation Course for the Transportation Command at Ft. Belvoir. The course extended over yesterday and today and included an attendance of about 600 personnel.

Sano. Steve Marks will be in charge with members, friends and the general public invited.

According to George Farrell, the moon will be in its first quarter and Jupiter and Saturn will be in good position for viewing.

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Bondurant to Speak To Engineer Society

Edward J. Bondurant, president of the Jefferson County Chapter, American Institute of Architects, will be main speaker September 13 at the monthly meeting of the National Society of Professional Engineers. The meeting will be held at Southern Cafeteria with a social hour at 7 p.m. followed by dinner at 7:30 o'clock.

Subject of Bondurant's talk will center around state laws regulating practice of architecture, and the relationship between architects and engineers.

Further details and reservations may be obtained from John Lands, 876-2592.

WIVES TO STUDY FRENCH

The French Class of The Redstone Arsenal Officers' Wives' Club will meet at the club every Monday from 1300 to 1500 hours beginning September 10th. There is no charge for the instructions. Members of the Officers' Wives' Club interested in joining the class may contact Mrs. R. J. Schofield, 877-5936, or Mrs. J. R. F. Bond, 877-5779.

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Fantasy Theatre Schedules Tryouts

Tryouts for Fantasy Theatre's production of "Heidi" will be held 7:30 P.M., Thursday and Friday, Sept. 13 and 14 at Ridley Hall, 212 Eustis Avenue, S. E., Huntsville.

The cast includes three male adult parts—Alm Uncle (or the old uncle), the Minister, and Mr. Seseman; six adult female parts—Miss Rottenmeur, the maid, Brigitta (Peter's mother), Peter's grandmother, Madam Seseman, and Defe (Heidi's aunt); two male children—Peter and Sepp; two female children—Heidi and Clara; and a number of children as extras with small-walk-on parts.

"Heidi" will be given on October 27 and 28 at Lee High School.

All interested persons are urged by Fantasy Playhouse to appear for try-outs.

Electrical Engineers Will Meet Tonight

The North Alabama Chapter of American Institute of Electrical Engineers will hold its first meeting after a summer recess Wednesday evening, Sept. 12, at Michael's Restaurant (Holiday Inn). The social hour will start at 6:30 p.m. with dinner at 7:00, followed by a talk by Dr. Bruce A. Reese on "Technical Aspects of the NIKE ZEUS Defense System."

Dr. Bruce A. Reese is Technical Director, Nike Zeus Project Office, U. S. Army Materiel Command. The Nike Zeus Project Office is located at Redstone Arsenal and reports directly to the Commanding General of the U. S. Army Materiel Command in Washington, D. C. The Army Missile Command at Redstone Arsenal furnishes administrative and technical support to the Zeus Project Office.

Dr. Reese began work at Redstone Arsenal in June, 1960. He came to Redstone Arsenal to work with the Army's Nike Zeus Anti-Missile System after 15 years with Purdue University where he was Professor of Mechanical Engineering and Associate Director of the Jet Propulsion Center. During his career at Purdue, Dr. Reese served as a consultant to some of this country's leading missile system con-

At the Service Club

By Brenda Hanson

It has been said that all roads lead to Rome, but as we look around at the beaten paths around the Service Club, it occurs to us that maybe this is the Mecca of the area.

Not only do we have missile men coming here for relaxation and recreation, but also for creative endeavors.

Artists, dancers, singers, writers, chefs, photographers, carpenters, painters, and lighting specialists are engaged in giving the Service Club Staff a hand with programs scheduled for the past two weeks and the weeks to come. Without these talented and versatile men, we would certainly be limited in what we could accomplish.

The Beginners Dance Class will begin at 1800 hrs. The Advanced begins at 2000 hrs. Come and let Sgt. Frank Guteirrez instruct you on how to be an ideal dancer.

To the Troops who enjoy Classical Music: We have an hour set aside just for Classical Numbers on Sept. 13 at 1900 hrs. Just come by the office and make your selection. Too, beginning at 1930 hrs. Card Favorites is on the program. If you like to play various card games, come by and join in.

Sept. 14 at 2000 hrs. a Chess Contest is scheduled. Prize will be given to the winner.

Then on Sept. 15, at 1700 hrs., we have another period of time set aside for more musical request. Not only do we accept Classical Requests but any request that we have on record. We'll be happy to play your favorite request. So don't be hesitant about slowing down as you go by the office and fetching in your requests. Also, tasty goodies will be served. This happens at 1830 hrs. Can't say for sure what these goodies consist of, but can assure they will be tasty. Sunday? That's usually a full day here at the Service Club starting with Coffee Call at 0930 hrs. A hot cup of Coffee and a fluffed donut is a refreshing starter for the day.

Then at 2000 hrs., the Record Dance will spotlight the evening. The Theme for the Evenings Dance is "Jump Tunes." So come by the Service Club and have an evening filled with dancing and fun. Refreshments will be served at intermission.

The evening of Sept. 24 is marked with games. Grand Prize will be given. So come join in the fun. It's Free. Sept. 25 at 1800 hrs., "T. V.

tractors, the U. S. Army, Navy, Air Force and the Department of Defense's Advanced Research Projects Agency.

A native of Provo, Utah, Dr. Reese was educated at Brigham Young, New Mexico, and Purdue Universities. He completed work for his masters degrees and doctorate at Purdue after joining the University staff in 1946 as an Assistant Instructor.

Dr. Reese served with the U. S. Navy in the Pacific during World War II. He is a member of Sigma Tau, Sigma XI, Phi Kappa Phi, the American Rocket Society, and the American Society of Mechanical Engineers.

Interested engineers are invited to attend. Dinner reservations can be made by calling Zack Thompson, Phone No. 539-8888.

Features." Then at 1900 hrs., a Pinochle Contest. To the people who play Pinochle, this contest is for you Prizes will be given to the winner.

These are the scheduled events only for this week. The other facilities of the Club are always open. You can play pool, ping-pong, shuffleboard, a number of small games, several musical instruments, or you can sit in the soda fountain over a cup of coffee and just talk.

MISCELLANEOUS:

Our Hats go off to the Cast and Crew of the "Boyfriend." This production was a great success, and enjoyed very much by everyone who saw it. I have heard several favorable remarks about it. The "Oscar" awards were presented to J. Monte Temple and Jean Ennis. Without hesitation, I will say that they were both deserving of the award. Monte was the male actress who did the Tango, and Jeane played the part of Maise.

By taking a sneak preview into Betty's Little Red Book, I see two big events for next week. The first one is the Post Wide Ping-Pong Tournament. If you are interested in entering this tournament, sign the list on the bulletin board. Trophy will be given to the winner. The second event is on the 23rd. Ginger and Hal Willis will be featured at the Service Club. So be sure and don't miss any of these events, by not knowing about them. Pick up one of our handy pocket calendars, and too, keep an eye on this column. See you at the Service Club.

Brenda

Births at Post Hospital

Jay Leon Verry, 7 lbs., 13 ozs., Aug. 31, son of Capt. and Mrs. Horace D. Verry.

Robert Dwayne Wynne, 6 lb., 5½ oz., Sept. 1, son of SFC and Mrs. Willie O. Wynne.

Karen Mae Dowdy, 7 lb., 5½ oz., Sept. 1, daughter of SFC and Mrs. Alex Dowdy.

Jerrery Allen Williams, 6 lb., 13¼ oz., Sept. 2, daughter of PFC and Mrs. Oscar C. Estrada.

Amelia Francisca Estrada, 6 lbs., 4½ oz., Sept. 2, daughter of PFC and Mrs. Oscar C. Estrada.

John James Mulligan, III, 8 lb., 6¾ oz., Sept. 5, son of PFC and Mrs. John J. Mulligan.

Jennifer Marie Davie, 6 lb., 9¼ oz., Aug. 23, daughter of SP4 and Mrs. Joseph R. David.

Genese Ann Pride, 6 lb., 12 oz., Aug. 24, daughter of A-1c and Mrs. Edgar Pride, Jr.

Pamela Ann Montgomery, 6 lb., 1¾ oz., Aug. 28, daughter of S-Sgt.

and Mrs. William G. Montgomery. Robert Michael Drop, 7 lb., 15 ozs., Aug. 28, son of SP4 and Mrs. Robert E. Drop.

James Richard Rose, 6 lbs., 4¼ oz., Aug. 29, son of SP4 and Mrs. Lee A. Rose.

Movie Schedule

WEDNESDAY, September 12
"Two and Two Make Six" (M-YP)

THURSDAY-FRIDAY, September 13-14

"The Road to Hong Kong" (F)
SATURDAY, September 15
"Safe at Home" (F)

SUNDAY-MONDAY, September 16-17

"I Thank a Fool" (M-YP)
TUESDAY, September 18

"Waltz of the Toreadors" (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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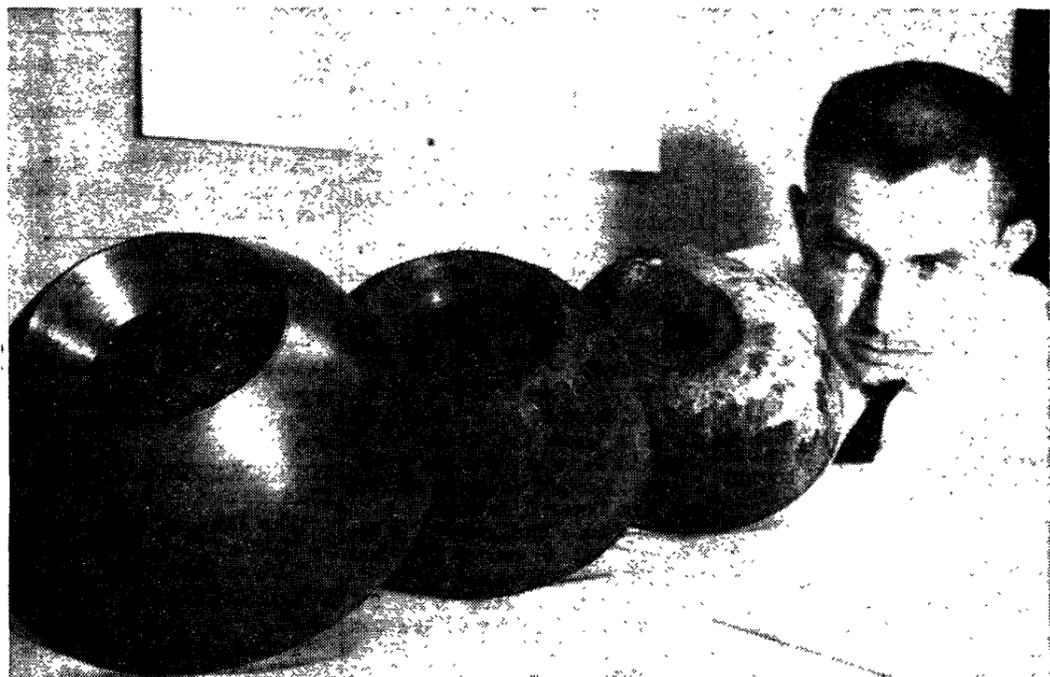
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GOING, GOING, GONE—Ken Letson of the Army Missile Command's Structures and Mechanics Laboratory looks down a line of calirometers that show the progression of erosion as missile exhaust strikes the instruments designed to measure temperature of the fiery exhaust.

During Motor Tests

Rocket Temperature Told By Thermometer In Mouth

A thermometer thrust into the mouth of a rocket motor produces data on both ends of the missile for the Army Missile Command engineers.

Known as a calirometer, the instrument dipped into missile exhaust flame weighs approximately 50 pounds and resembles a scaled-down missile nose cone.

The measuring device of the calirometer is a small copper disc mounted in the tip of the steel

holder. The disc gives temperature readings in the heart of the missile exhaust flame. Precise temperature readings are extremely important in calculating the performance of the rocket motor.

The particles of solid propellant in a missile motor erode the steel holder so fast it can be kept in the path of the flame only a few seconds before suffering major damage. Ablation or heating and melting is taking place at the same time. The heating is similar to that of a missile nose cone as it plunges into the atmosphere.

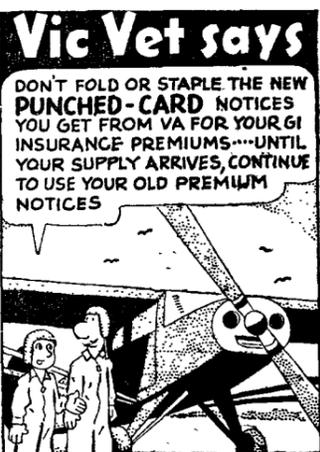
Scientists of the Structures and Mechanics Laboratory of the Missile Command are gathering information for both ends of the missile while Test and Evaluation Laboratory engineers are evaluating the motor's performance.

By studying the erosion process, engineers can determine the best materials for use in ground support equipment and blast deflectors. Two pieces of missile hardware that must withstand the direct blast of missile exhaust.

Although copper has been the metal used in tests, S&M Laboratory personnel plan to test composite and nonmetallic materials in the missile exhaust.

Calirometers have been dipped into the exhaust liquid fuel motors being fired in static positions but very little erosion takes place in a liquid motor exhaust since it does not spit out solid particles.

The Missile Command employees who worked on the ablation type nose for the Jupiter missile—first



to survive the fiery re-entry into the earth's atmosphere—are still researching structures problems for the Army. They are William G. Burleson and Noah J. Hurst of the stress and thermodynamics section. Kenneth N. Letson did design and test evaluation work on the new calirometers for solid fuel missiles.

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SUMMER TRAINING PURSUED BY 97

A total of 97 persons from the Army Missile Command and Guided Missile School took professional training this summer at 15 different colleges and universities throughout the United States. The total number of students does not include the Graduate Study Program.

The report prepared by John Hinkle, chief, Civilian Personnel Training and Development Division, showed that Research and Development Directorate supplied the greatest number of students: 74. Of the remainder, eight students came from the Guided Missile School, seven from Army Missile Support Command, five from

Army Missile Command Headquarters and three from the Industrial Directorate.

Thirty-seven of the students received courses from University of California in Los Angeles, and 21 students had courses through University of Michigan at Ann Arbor. Twelve were enrolled at Massachusetts Institute of Technology with another 12 at Huntsville Center, University of Alabama. Other colleges and universities at which training was received are: University of Alabama, Arizona State University, Athens College, Canisius College at Buffalo, N.Y., University of Chicago, University of Colorado, Colorado State University, George Washington University of Washington, Penn State and University of Rochester, N.Y.

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JEWISH—Friday Eve Services—2000 hours—Huntsville Conservative Synagogue — at Randolph School, Randolph Street, Huntsville. Servicemen cordially invited.

For further information contact Fred Glusman, 536-6621.

Rosh Hashonah (New Year) services will be held Sept. 29 and 30th. Yom Kippur (Day of Atonement) services will be held Oct. 8.

Retiring Information Officer Is Commended For Work

Lt. Col. James A. Klein was awarded a second Oak Leaf Cluster to his Army Commendation Medal for work he has done as Information Officer for the Army Missile Command.

The presentation was made by Maj. Gen. Francis J. McMorrow, Commanding General of the Missile Command, in a ceremony marking the retirement of Col. Klein after 20 years of military service.

Col. Klein will visit friends in the Seattle and San Francisco area before accepting an assignment with the United States Information Agency. He will serve overseas as a press attache.

Col. Klein came to Redstone Arsenal as Missile Command information officer in August, 1960. His job entailed the direction of a public relations program for a world-wide organization employing more than 12,000 persons and having an annual expenditure of \$1.25 billion.

He also advised and assisted in the public relations program of more than 300 contractors as they pertained to Army missile systems.

A native of Honolulu, Hawaii, Col. Klein was graduated from the University of Washington in 1942. Shortly afterwards, he entered the Army where he completed an eight-week basic armored officers course at Fort Knox, Ky.

Col. Klein held various Army assignments until 1945 when he became education officer for the Ninth Service Command. Fort Douglas, Utah. While serving in this capacity, he was awarded the Army Commendation Medal by the Secretary of Army for studies he conducted on the rate of absentees without leave. Col. Klein's study resulted in a reduction of the absentee rate for the Ninth Service Command.

In 1953, Col. Klein was awarded the Bronze Star for studies he conducted on the effects of communist propaganda on American troops in Korea and the Far East and initiated a program to counter enemy propaganda.

In 1960, Col. Klein again was

presented the Army Commendation Medal for his accomplishments as information officer of the U. S. Army of the Pacific.

The citation accompanying the award today said: "For exceptionally meritorious service as Information Officer, U. S. Army Missile Command, from August, 1960, to September, 1962.

"During this period, he personally initiated and supervised reorganization of public and internal information programs in support of the Command's national mission. It was necessary for him to recruit almost an entire staff following the transfer of the space mission to the Marshall Space

Flight Center.

"In only eight months after he reported to the Command, the Public Relations Program was evaluated as outstanding following an annual general inspection by the Chicago Ordnance Field Inspection Office.

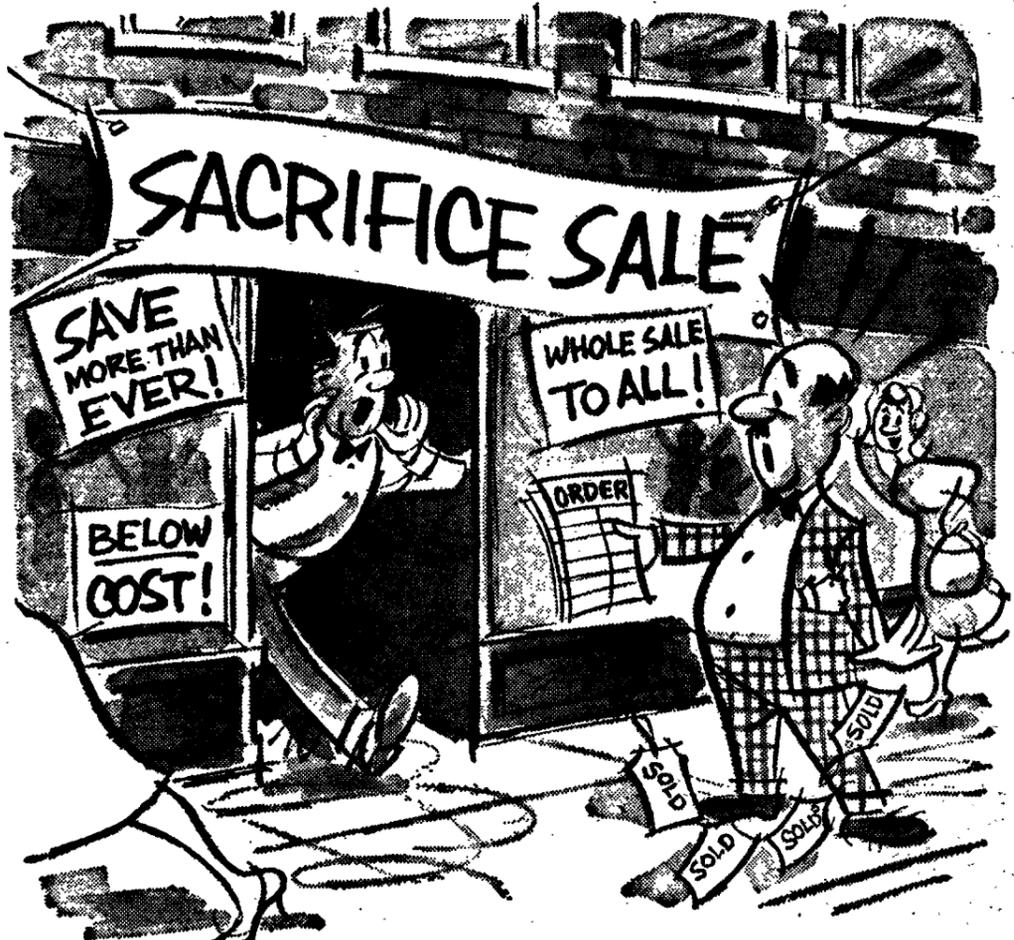
"Through his outstanding service and exceptional ability, Lt.

Col. Klein has reflected great credit upon himself and the military service."

Col. Klein, his wife, Traute, and young son, Geoffery, will leave Redstone Arsenal next week for an automobile trip to the West Coast before taking his new assignment with the Information Agency.

"We believe that the civic action program is not only essential in preventing and defeating active insurgency but we hold such a program to be an invaluable asset in building a stronger social and economic framework for our countries."

Extract of speech delivered in Canal Zone at the Conference of American Armies, by Gen. George H. Decker, Chief of Staff, U.S. Army.



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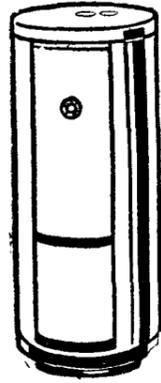
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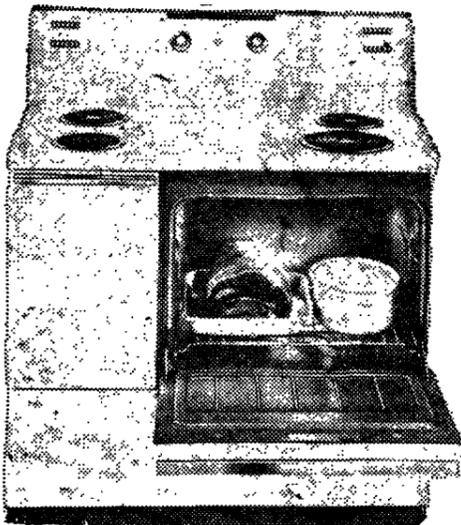
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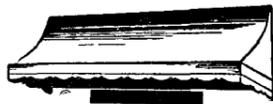
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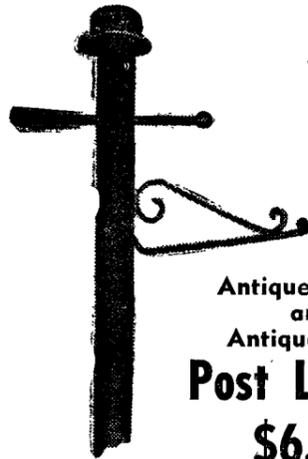


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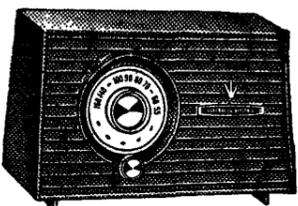
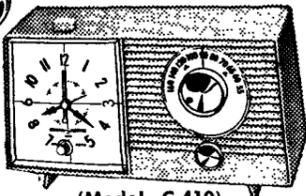


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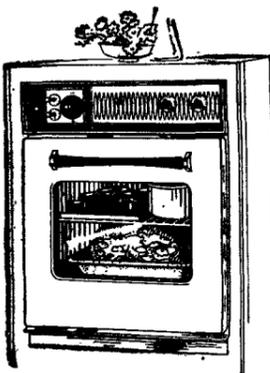
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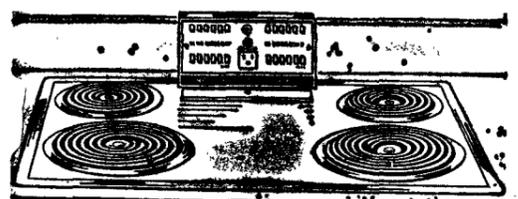


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Col. Lau Named Directorate Head

Col. Ernest V. Lau has been named to succeed Colonel H. H. Wishart as head of the Directorate of Procurement and Production of the Army Missile Command. Col. Lau's previous assignment was as chief of the Engineering Division of the Directorate. Col. Wishart is slated for assignment as commanding officer at Picatinny Arsenal, N. J. Col. E. R. Billings has been

assigned as the Deputy to the Director of Procurement and Production. Col. Lau came to Redstone Arsenal in January, 1961, from the Armed Forces Staff College. A graduate of the Command and General Staff College, he served two tours in the Office of the Chief of Ordnance. He was with the U. S. Military Advisory Assistance Group at Saigon, Vietnam, during 1956-57. He has also served overseas in Austria and with the U. S. Forces in the China Theater. A native of Pennsylvania, Col.



COL. E. V. LAU

Lau is a graduate from the State Teachers College at Bloomsburg and has studied at Duke University and the University of Maryland.

He enlisted in the Army in 1941, became an officer in 1942 and was integrated into the regular Army in 1958.

Col. and Mrs. Lau have five children: Michael, Christine, Steven, Joel and Joanne. The family resides at 445 Rice Drive, Redstone Arsenal, Alabama.

He is the son of Mr. and Mrs. Abram B. Lau, Franklinton, Penn.

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Page 14 The Redstone Rocket — Sept. 12, 1962

1958 STEWARD TRI-LEVEL MOBILE HOME: 3 bedrooms, 1½ bath, air conditioned, aluminum awning. \$3900. **1959 PLYMOUTH STATION WAGON,** power steering and brakes, new seat covers and door paneling, motor overhauled. \$1075. **1959 RENAULT** Motor overhauled. \$550. Call 539-2370. 1tp

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FOR SALE — Three (3) bedroom, (2) ceramic baths, brick veneer, complete heat and air conditioning, double carport, large wooded lot near Guntersville Lake. Call Guntersville 582-3027, Ross L. Cornelius. 9-18c

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FOR SALE — Tandem axles, springs, wheels & tires for 10'x 42' house trailer with electric brakes. Tires are new 7-14.5. Will sell complete rig for less than cost of the 4 new tires. Damon Simpson, Rt. 4, Hartselle, Ala., Phone SP 3-6039. tfnc

GUNTERSVILLE HOME FOR SALE — By owner. 3 bedrooms, large utility, automatic dishwasher. Sale price \$10,500. FHA appraised. Small down payment. Access to lake. J. R. Burnett, 582-5608. 1tp

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FOR SALE — Black Labrador pups—AKC Registered. 15 weeks old, had shots. Call 534-1603. 1tp

FOR RENT — 3 bedroom brick house located at 1810 21st SE, Decatur, Ala. with 2 ceramic tile baths. Central heat & air condition located one block from grade school. Rents for \$150 mo. See Bob McWhorter Real Estate or phone EL 3-3561 or EL 3-8948. Decatur, Ala. 1tc

FOR SALE — 1954 Buick H.T. V8, hydromatic, some rust but mechanically good. \$175.00. TY DORMAN, 118 First Ave., N.E., Arab, Ala. Phone 876-3297. 1tc

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APARTMENT FOR RENT — 601 Holmes Ave., N. E. Couple only, lights and water furnished, use of telephone and TV antenna if wanted. Phone 534-5763. 1tc

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FOR RENT — 3 room furnished apartment, private front, back entrances, air cond., natural gas heat, tub and shower, off-street parking, married couple only, \$75 month. 419 E. Clinton St., 534-5127 or 534-4551. 1tc

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FOR SALE — Used Frigidare range, good condition. New portable singer typewriter, \$49.50 machine, will sell for \$39.50. Phone 539-0489. 9-11c

ROOMS FOR RENT — Single and double for men with good habits, completely and newly decorated, economically priced. Central Y. M. C. A. Dial 534-6452 tfc

FOR SALE — New nice 3 bedroom house, 1½ ceramic tile baths, completely air conditioned, access lot to lake. Minimum FHA down payments, in one of Gunter'sville's nicest sections. Price \$16,250.00. Will build homes in Arab and Gunter'sville and finance up to 97% FHA and 100% G.I. Cornelius Real Estate & Insurance Co. Marshall County's leading mortgage broker. 521 N. Broad Street, Gunter'sville, Ala. Phone JU 2-3027. tfc

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FOR SALE: Three bedroom, two-bath brick veneer home in best section of Huntsville. Equity \$1,200; FHA payments of \$114. 7219 Cadillac Drive; phone 881-0867. 1tc

FOR SALE — 1933 Olds., 4 door sedan, in good running condition, 5 good tires, radio & heater. Price. \$350.00. Can be seen at 601 High St., Hartselle, Ala., or phone Don Blankenship, SP 3-7704. tfnc

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FOR RENT — 1 Furnished bedroom to young lady. Close to Arsenal on city bus line. Home privileges. Phone 539-4373. Arlington Circle, N.W. 1tp

FOR SALE — Beautiful 3-bedroom brick, two baths, central heating, air conditioning, paneled den. Fireplace, five miles south Athens. Gregg Real Estate, Decatur, Ala. Phone EL 3-9315. 1tp

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FOR SALE — Extra nice '57 Bel Air Chevrolet sports coupe, V8, Power-Pac, STRAIGHT SHIFT, OVERDRIVE, no rust, never wrecked. Not hot rodded. \$1195.00, individual. Phone 536-5612. 1tc

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FOR SALE — **FREEZER:** Sears Coldspot, 16 ft. upright, 3 years old, excellent condition. \$150. Call 877-2614. 9-19p

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FOR SALE — Registered Fox Terrier, female. Healthy, has had four litters puppies. Price \$25. C. A. HULL, 876-3433; nights, weekends, Athens 232-2948. 1tp

FOR SALE — 1959 Buick 4 dr. hardtop LaSabre model by owner. Very clean. Excellent condition. Low mileage, four tires almost new. \$1295, terms. 536-8444 evenings. 1tp



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Post Library

By Jean L. Hoffman

"A New Russia," by Harrison E. Salisbury and "Thinking About the Unthinkable," by Herman Kahn are our leading contenders for non-fiction choices this week. Politically what noted reporter Salisbury found in Russia is an open struggle between two powerful groups for the dominant role in the country's future. The fact that this struggle between neo-Stalinists and the liberal faction can go on openly in evidence of an evolution in Soviet society. Whether the direction of change is to be toward the West or the East and what America can do to influence the direction are critical questions considered by Mr. Salisbury, a former Pulitzer Prize winner.

Herman Kahn, director of the new policy research organization, Hudson Institute, will be remembered for his previous work "On Thermo-nuclear War," a definitive treatise on military strategy for the sixties also available for reading by patrons who may have missed it. In his urgent new book Mr. Kahn states that "though nuclear war may seem highly unlikely, indeed unthinkable, to many people—it is not impossible." His premise is that we in America must attempt to solve our problem by peaceful means. "Thinking About the Unthinkable," is well worth reading.

All parents will wish to review Josette Frank's revised and authoritative evaluation of children's reading, entitled "Your Child's Reading Today." Especially helpful are the chapters on Reading and Children's Emotions, On Reading Aloud in the Family, and Books for the Reluctant Reader. The work includes a selected bibliography arranged for various ages and interests.

Sports fans will enjoy "Best Sports Stories of 1962," and "Guide to Racing Cars," by Brock Yates. Science fiction readers may claim "A Century of Science Fiction," edited by Damon Knight while readers of who-dun-its will thrill to these spine-tingling new mysteries: "Prisoner's Friend" (Andrew Garve); "The Evil Wish" (Jean Potts); "How Like an Angel" (Margaret Millar); "Trouble in Burma" (Van Wyck Mason); "Knave of Hearts" (Dell Shannon).

F. Scott Fitzgerald's "The Pat Hobby Stories," compiled by Charles Scribner's Sons and introduced by Arnold Gingrich, publisher of Esquire and close friend of Fitzgerald during his last years are recommended reading as a companion to Andrew Turnbull's recent biography of Scott Fitzgerald.

New reference titles added are: "Webster's Third New International Dictionary of the English Language;" "Dictionary of Correct Spelling;" (Norman Lewis); and "Roget's International Thesaurus," third edition.

New fiction titles are "High Hazard," by Richard M. Stern whose stories have appeared in the Saturday Evening Post, McCall's, Redbook and This Week; "Island," by Aldous Huxley in which author Huxley transports his readers to a Pacific island where, for a hundred and twenty years an ideal society has flourished; and "Heathen Valley," a haunting and original novel by Romulus Linney. Linney has a Master of Fine Arts degree from the Yale School of Drama and has acted and directed in summer stock. "Heathen Valley," by this young writer is an historical novel deeply concerned with the meaning of good and evil.

Current best-sellers continue to attract Post Library patrons. Among favorite titles are "John Steinbeck" Travels with Charley"; Herman Wouk's "Youngblood Hawke;" "The Prize," by Wallace; John O'Hara's "The Big Laugh;" Dumas's "Conversations with Stalin;" "My Life in Court," Louis L'Amour; William Faulkner's "The Reivers," and Katherine Anne Porter's "Ship of Fools."

Thiokol and Union Negotiate Contract

Thiokol Chemical Corporation Alpha Division and Local 1325 International Association of Machinists AFL-CIO Friday night announced agreement in the current wage negotiations at the Alpha Division's Huntsville Plant.

Financial details were not disclosed but, the agreement extends the expiration of the contract, from Aug. 27, 1962, to Aug. 27, 1964.

The current two-year contract began Aug. 28, 1961. Negotiations this year were under the contract's one-year basic wage reopener clause. The agreement just reached eliminates such a clause from the extended contract.

Seven hundred and forty-seven Huntsville plants approximately 1900 employes are bargaining unit employes. The membership voted Friday night to approve the agreement. This concluded more than seven weeks of negotiation between the company and the union.

Troops Fire Sergeant

White Sands Missile Range, N. M. — More than 100 missile-firing soldiers, support troops and official observers have arrived at White Sands Missile Range to check out the Army's Sergeant ballistic missile under near-tactical conditions.

The units involved in the service test phase of the Sergeant joint engineer-service testing arrived in convoy from their home station at Ft. Sill, Okla. They also will support engineering tests during the nine-month firing series which will end June, 1963.

The climax of the test program will be three Sergeant firings from the San Agustin Plains west of the south-central New Mexico missile range. These test firings over a west-to-east trajectory will impact in the northern end of the 100-mile-long national range.

The newly arrived units are Battery A, 3rd Missile Battalion (Sergeant), 38th Artillery, and the direct support 23rd Ordnance Detachment.

The battalion's second missile firing unit, Battery B, will alter-

nate service testing and firing duties with the present battery and is expected to arrive from Ft. Sill in late October.

Service tests of a missile system are designed to determine that the missile can be maintained and fired by field troops. Engineering tests are carried out independent of the missile's development tests and assure that the system actually meets all the requirements set up by the Army.

To cut the time and cost of missile development from the planning to the production stage, some parts of the development, engineering and service phases of testing are conducted simultaneously. In this way, the developing agency, the independent engineering evaluator and the troop users each utilize information gathered from the same test firing for their individual investigations.

Developing agent for Sergeant is the Army Missile Command at Redstone Arsenal, Ala. Initial research and development work was by Jet Propulsion Laboratory of California Institute of Technology,

with the prime contract later awarded to Sperry Utah Engineering Laboratory.

The engineering evaluator for the Army Test and Evaluation Command is the Ordnance Mission of White Sands Missile Range. Service testing is performed by the Missile Division of Test and Evaluation Command's Artillery Board.

Sergeant, designed to replace the Corporal liquid fueled ballistic missile now operational in the United States and with North Atlantic Treaty Organization forces in Europe, is a solid propellant missile 34½ feet tall and 31 inches in diameter. Its inertial guidance system makes the missile immune to enemy jamming, and its extremely mobile ground equipment represents the Army's "shoot-and-scoot" concept of modern missile warfare.

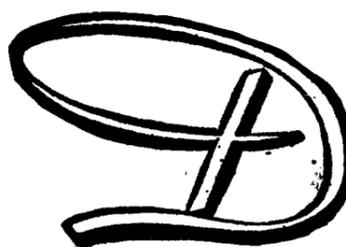
Initiation of engineer-service tests was announced in early August after the missile had scored three consecutive direct hits on pre-selected targets at White Sands Missile Range. Those first three firings were conducted by the Ordnance Mission's engineering test unit.

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