

The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Hartselle, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 17, 1958

ABMA Assigned Big Booster Job

CLUSTER OF MOTORS WOULD HAVE THRUST OF 1,500,000 POUNDS

The Advanced Research Projects Agency of the Department of Defense has assigned a high-priority project consisting of a large liquid propellant booster to the Army Ballistic Missile Agency with a capacity of approximately 1,500,000 pounds thrust.

The new unit will consist of a cluster of currently tested rocket motors packaged into a single unit assording to proven engineering concepts. The main element of the cluster of engines will be a motor similar to that used with the Jupiter, Thor, and Atlas missiles.

This approach to the development of a super-booster, the combination of existing motors, is considered the quickest and least expensive means of obtaining a propulsion system capable of placing very large payloads into orbit.

An alternate approach, that of developing a single motor with similar thrust, is also being undertaken by the Defense Department.

The Army's development work

on the cluster will be carried on under technical supervision of ABMA. Existing static test facilities employed by the Agency at Redstone Arsenal will require relatively minor modifications for the initial project.

Engines developed under military missile programs will be combined to provide increased booster capacity to serve U. S. objectives in space.

The Army placed a contract with the North American Aviation Company, whose Rocketdyne Division supplies engines for IRBM and ICBM systems, to supply the propulsion units. The propulsion components will be packaged to fit the particular need.

In addition to achieving high reliability in the thrust unit, considerable time and effort will be saved by employing multiple units of a design similar to the IRBM and ICBM engines already tested and in production.

ABMA developed the Jupiter IRBM which will be operationally employed by the U. S. Air Force.

* * *

BY MEDARIS, VON BRAUN

Project Recalls Senate Testimony of Dec. '57



LT. COL. CHARLES A. HALL

LT. COL. HALL IS ABMA EXEC

Lt. Col. Charles A. Hall has recently been assigned as Executive Officer of the Army Ballistic Missile Agency.

Col. Hall previously had served as Deputy Chief, Operating Services Office, ABMA.

He is a native of Jarrell, Texas. His parents, Mr. and Mrs. O. (See COL. HALL on Page 2)

Assignment to the Army Ballistic Missile Agency of a high-priority project to develop a 1,500,000-lb. thrust rocket booster by the Advanced Research Projects Agency recalls testimony heard by the U. S. Senate Preparedness Investigating Subcommittee in December, 1957.

Among the witnesses before the investigators, headed by Sen. Lyndon Johnson (D., Tex.), were Maj. Gen. J. B. Medaris, Commanding General, Army Ordnance Missile Command, and Dr. Wernher von Braun, Director of Development Operations Division, Army Ballistic Missile Agency.

Both told the Senators the U.S. would lag behind in the race for outer space unless development of large rocket engines began immediately. Portions of their testimony are quoted:

Gen. Medaris — "In the Summer of 1956 a committee looked into the need of a larger rocket engine for the Defense Department. We made specific recommendations at the time that we be allowed to develop an engine of approximately 220,000 lbs thrust. This was a very modest request, but we thought we couldn't get away with any more."

"I don't think the recommendation was as forward-looking as it should have been, but we thought it was the most we could get away with—we were not successful."

"The fact is that engines being developed today are those required for the Jupiter, Thor, Atlas or Titan ballistic missiles. Beyond that, for any future use now un-

(See PROJECT on Page 2)

Sec. Brucker, Civilian Aides to Confer Here Fri.

ARMY CHIEF, 61 AIDES DUE

Secretary of the Army Wilber M. Brucker will hold his annual conference of civilian aides this year Sept. 17-20 at the Army Ordnance Missile Command, Redstone Arsenal, and at the Army Infantry Center, Ft. Benning, Ga.

The group will meet at Redstone all day Friday, Sept. 19.

The sixty-one civilian aides, representing every state and the territory of Hawaii, are appointed for two-year terms to represent the Army in interpreting Army policies and doctrines for the civilian communities. They also advise the Secretary of the Army and the Chief of Staff of matters of mutual interest to the Army and the public.

Commanding generals of the Zone of Interior Armies, U. S. Continental Army Command, Military District of Washington, and the U. S. Army Air Defense Command will also attend the conferences. The Under Secretary and Assistant Secretaries of the (See SEC. BRUCKER on Page 2)



HELPING HAND—Little Inga Hinrichs, four-year-old polio victim who is learning to use a brace, receives an assist from Maj. Gen. J. B. Medaris, Commanding General, Army Ordnance Missile Command, at the kick-off meeting of the Redstone United Givers Fund Drive which opened Monday at the post's Rocket Auditorium. Inga is one of the many thousands who have been helped by the 17 agencies which make up the UGF.

* * *

'Miss Redstone' Stirs Crowd

REDSTONE UGF CAMPAIGN GETS UNDERWAY WITH KICK-OFF MEET

Blond, petite Inga Hinrichs, four-year-old polio victim chosen as "Miss Redstone UGF", won the affection of Maj. Gen. J. B. Medaris, and visibly stirred the overflow crowd of 500 Redstone United Givers Fund workers who attended the UGF kick-off meeting held in the post's Rocket Auditorium Monday.

Inga, who is the daughter of an employe of the Army Rocket and Guided Missile Agency and who is learning to use a brace, chatted with Gen. Medaris, Commanding General of the Army Ordnance

Missile Command, prior to his kick-off speech. Before the meeting got underway, Gen. Medaris picked up the small child in his arms and seated her with six other children who represented the many thousands who have been helped by UGF. Gen. Medaris is chairman of the drive at the Arsenal.

In his address to the solicitors, monitors, division chairmen, agency chairmen, and executive committee members, Gen. Medaris urged that the missile installation

(See UGF on Page 2)

President Urges Full Participating in 'Armed Forces Voters' Week'

The following statement has been issued by President Eisenhower to all members of the Armed Forces regarding "Armed Forces Voters' Week" Sept. 15-22:

"The right to vote in free elections is one of the most treasured privileges of citizenship."

"During 'Armed Forces Voters' Week,' I hope the men and women in the military services will exercise their traditional rights by obtaining full information on how they vote in the coming election. I further hope that the families and friends of our men and women in uniform will help them reach sound judgements by sending them full details on candidates and issues."

"A Free government, and the blessings which it confers can only be guaranteed if we the citizens take an active part in the choice of our public officials."



NATO GROUP VISITS—Some 35 high ranking military and civilian representatives of five North Atlantic Treaty Organization countries visited the Army Ordnance Missile Command this week for orientation briefing. Shown above during briefings at the Army Rocket and Guided Missile Agency are (left to right) Col. Marciel Joseph Vrancke, of Belgium; Maj. Gen. Fritz Stammbach, West Germany; Maj. Gen. W. Y. Reijnierse, The Netherlands; Brig. Gen. J. G. Shinkle, Commander, ARGMA; Maj. Gen. Jean Crepin, France; and Maj. Gen. Domenico Columba, Italy. The Redstone Arsenal visit was the first stop in a month-long tour of U. S. defense installations and facilities by the NATO delegation. A reception and cocktail party for the visitors was held last night at the Redstone Officers Club. The group was scheduled to leave Redstone about noon today.

OGMS Shifting Emphasis To Powerful Nike-Hercules

The Ordnance Guided Missile School is shifting emphasis in batteries here and abroad, he anti-aircraft missile training said.

from the Nike-Ajax to the newer Nike-Hercules is a 27-foot and more powerful Nike-Hercules guided missile with a 14-foot surface-to-air weapon, Col. H. S. booster unit of four rockets. The Newhall, Commandant, has announced that the boosters use solid propellant fuel. It travels at high-

supersonic speeds and can early next year after which Nike-carry atomic or conventional war-Ajax training will be continued heads. Nike-Hercules batteries on a reduced basis as long as (See OGMS on Page 3)

The Redstone Rocket

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SEC. BRUCKER

(Continued From Page 1)

Army, Director of Research and Development, General Counsel, the Chief of Staff and Vice Chief of Staff, and other key members of the Army Staff will attend the annual conference.

Conferees will arrive at Fort Benning on Wednesday, Sept. 17, and will attend a dinner that evening given in their honor by Maj. Gen. Paul L. Freeman, Jr., Commanding General, Fort Benning, during which Gen. Maxwell D. Taylor will be guest speaker. After three hours of group conferences on September 18, during which the civilian aides will be brought up to date on the progress and plans of the Army, the conferees will join with students of the Infantry School to observe field demonstration featuring an infantry-tank team in the attack airborne, orientation, ranger training, and the Army aviation. That evening the civilian aides will conduct a panel discussion with the top Army officials.

Early Friday, Sept. 19, the conferees will be flown to the Army Ordnance Missile Command, Redstone Arsenal, Alabama, where they will be welcomed by Maj. Gen. John Medaris, Commanding General, Dr. Wernher von Braun, and other scientists of the Army's missile team. The guests will be conducted on a tour of the Missile Command's activities, to include static tests of solid and liquid fuel rockets, laboratory tests and training of Army and Air Force missile personnel. They will be briefed on the technical accom-

The annual fund campaign seeks support of 17 health, welfare, and youth agencies. The Redstone UGF drive will be completed on Nov. 15.

DANISH STUDENTS HONORED BY CLUB AT NATO SALUTE

Students of the Danish Ordnance Corps at the U. S. Army Ordnance Guided Missile School were honored Monday night by the Huntsville Kiwanis Club at a dinner in the Russel Erskine Hotel.

As part of the club's continuing "Salute to NATO" program which began in June, members heard Major Evjin Larsen, of Copenhagen, senior Danish officer at OGMS, trace the history of the Scandanavian kingdom which is today Europe's oldest monarchy. Color films of Danish historic and scenic highlights were shown and during the dinner recordings of music by Danish composers were played.

plishments of the Army Ballistic Missile Agency by Dr. von Braun.

Upon return to Fort Benning the evening of Sept. 19, the civilian aides will be guests of honor at the Secretary of the Army's dinner. Secretary Brucker, who will have returned to the United States on Sept. 15, from an extensive inspection tour of the Far East, including Formosa, will address the conferees.

The annual conference of civilian aides is designed to review with top Army leaders the plans, programs, and progress of the Army in its important role in national defense. It also gives the civilian aides an opportunity to observe the latest weapons and equipment of our modern U. S. Army.

The theme of this year's conference is "The United States Army — A Modernized Fighting Team."

The conference will be concluded at Fort Benning on Saturday morning, Sept. 20.

COL. HALL

(Continued from Page 1)

P. Hall, reside at 112 E. Norwood Court, San Antonio, Texas.

Col. Hall was graduated from the University of Texas in 1937 with a B. A. degree in business administration.

He came to Redstone Arsenal in June of this year from an assignment in Japan.

Among his decorations are the Purple Heart and the Bronze Star.



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THE UNITED WAY

PROJECT

(Continued from Page 1)

known, there is no high-powered development project on a big rocket engine. The reason is that no one could state a specific requirement.

"As soon as you can see your way into an advance in the state of the art, or investigation into possibilities of advancing the art in primary elements that contribute to advanced weapons systems, such as propulsion systems, guidance systems, nose cone systems, new structural methods, it should be possible to go ahead and develop the item, break the bottle-necks, get into the question of what new scientific principles have to be worked out, or what engineering developments are required and get on with it so that when you see that you can have a new weapon, you have ready the advances made in the subordinate areas.

"I give you as a key point the fact that one of the great holes in the ballistic missile business today is that there is no large rocket engine under development. There should have been two or three years ago.

"My personal opinion is that unless this country can command 1,000,000 lbs. thrust by 1961, we will not be in pace—we will not be in the race.

Dr. von Braun supported Gen. Medaris' bid for a huge rocket power plant in these words:

"Without an engine with large thrust we will be behind the Russians in the general field of control of outer space. If you want to establish control of space, not just by ICBMS but by manned vehicles capable of going into space, you need those engines. I believe that right now the IRBMs and the ICBMs are very important, but I am convinced the Russian concept demonstrated by Sputnik II is very clear. They consider the control of space around the earth much like the great maritime powers considered the control of the seas in the 16th through the 18th Centuries. They say, 'If you want to control this planet, you have to control the space around it.'"

Dr. von Braun recommended immediate development of the 1,000,000-lb. thrust engine.

READ THE WANTADS

UGF

(Continued from Page 1)

meet its pledge," to the halt, the blind, the sick, and the needy," willingly and promptly just as it has met its pledges on time and in every case to the nation in the scientific and military fields.

Stuart H. Jones, Executive Chairman of the Redstone drive, introduced Harold Bronfin, Executive Director, Madison County UGF, who presented some of the local youngsters who have benefited by UGF.

They were: Jimmie Johnston, Huntsville Boy's Club; Billy Lewis, YMCA; Anita Wilbanks, Grace Center Day Nursery; Bruce Hallock, Boy Scouts of America; and Carlene Bartz, Girl Scouts of America.

Daniel C. Boone, Campaign Chm., Madison Co. UGF, cited the United Givers Fund as a means by which one could "pay his civic rent and help those in need, through the 17 agencies in the UGF.

"Don't let procrastination prevent you from paying that civic rent," Boone added.

Distinguished guests attending the opening UGF campaign included Brig. Gen. J. G. Shinkle, commander, Army Rocket and Guided Missile Agency; Brig. Gen. J. A. Barclay, commander, Army Ballistic Missile Agency; Col. Keith T. O'Keefe, Redstone Post Commander; Col. H. S. Newhall, Commandant, Ordnance Missile School; Huntsville Mayor R. B. Searcy, Dr. M. B. Mebane, Mgr., Thiokol Chemical Corp. (Redstone Division); Allen Deschere, Mgr., (Redstone Division) Rohm & Haas Co.

Inga is the daughter of Mr. and Mrs. Holm Hinrichs, and as "Miss Redstone UGF" attended the campaign kickoff which has as its goal 100 per cent participation by the Army missile center's over 19,000 military and civilian personnel and the giving of a "Fair Share" of his income by each person.

"Fair Share" is the byword in the Redstone UGF Fund Drive. It has been gauged as 80 per cent of a day's pay. In other words, each employe is asked, as a guide, to give 80 per cent of a day's wages to the drive.

"Our goal is one hundred per cent participation and fair share giving," declared Stuart H. Jones.



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are now replacing the older Ajax installations near New York, Washington, Chicago, Los Angeles and Philadelphia and soon will be operational near other major cities.

The transition in training is being made for several reasons which Col. Newhall listed as:

1. No operational aircraft exists today that can out-run the Nike-Hercules with its ability to carry atomic warheads at supersonic speeds. (Speeds of missiles and jet aircraft are computed in relation to the speed of sound which is 760 mph. at sea level).

2. The Nike-Hercules has been repeatedly demonstrated to be the most modern and reliable surface-to-air missile system yet to become operational. There have been over 100 successful firings to date. In joint tests by the Army and Air Force recently at Eglin AFB, Fla., six of the missiles were fired rapidly against six targets with 100 percent success.

3. Nike-Hercules contains within itself the ability to pick up hostile targets and engage them either with a high explosive or atomic warhead. It can operate in any kind of weather around the clock and do this despite efforts of hostile planes to jam it.

4. The atomic warhead that will be used in the Nike-Hercules has been designed to insure that detonation occurs only at altitudes sufficiently high to prevent damage to friendly surrounding terrain.

5. It was demonstrated that the Nike-Hercules can, in the event of a non-nuclear war, select and destroy with a conventional high explosive warhead individual aircraft in a tightly spaced formation of high-speed jet bombers.

6. The Nike-Hercules has demonstrated its capabilities of destroying with its high explosives warhead small, unmanned, high-speed jet aircraft much stronger and swifter than a nuclear weapon-carrying high altitude jet bomber normally to be expected as targets.

7. The Nike-Hercules requires no elaborately prepared sites but can be emplaced anywhere and destroy its intended targets.

Col. Newhall said preparations for the change to the Nike-Hercules training program have been under way for more than a year by the same Army-industry team that developed the original Ajax. This includes the Army Rocket and Guided Missile Agency, Army Ballistic Missile Agency, Bell Telephone Laboratories, Western Electric Co., and Douglas Aircraft Co.

Textbooks, lectures, films, and training aids for the Hercules courses were prepared at the Missile School.

The trouble with resisting temptation is that it may never come again.

RED CROSS FIELD DIRECTOR TELLS OF VARIOUS SERVICES OFFERED HERE

By MISS CORRIE KNIGHT
Red Cross Field Director
For Redstone Arsenal

The Red Cross office on the Arsenal is open everyday, but few realize that there is a worker on duty nights, weekends, and holidays.

A visit to the Red Cross office on the post and a chat with the Field Director is worth the time spent in learning of the Red Cross services. The Field Director may tell you of a message which came in for a serviceman in the middle of the night and was delivered to him immediately. That message announced the birth of a son, both wife and child doing well. You would ask why was this important, as child birth is normal and not an emergency. In this particular case there had been complications and the serviceman's anxiety had affected his work efficiency.

The Field Director could tell you of another message received at night that a father was critically ill, life expectancy short. Within two hours the serviceman was notified, his commanding officer contacted, leave granted, plane flight secured, and the serviceman was on his way. This type of service is frequent.

Perhaps the Field Director would tell you of families arriving with no place to go and unable to get located as they arrived on Sunday or a holiday. One cold Sunday morning before breakfast, a family arrived after riding all night, tired, and unable to find a place to stay. Another family with three small children under three years arrived on a holiday and found crowded motels, and no place to stay. In each case Red Cross was able to assist the families.

A serviceman was on TDY to another station when he received word from his wife that she and the children were sick. The Red Cross worker on duty on Saturday made a home visit and was able to send a wire that the family was much better. Red Cross is the connecting link between the serviceman and his family.

A serviceman had tried and failed to make contacts with his family in a disaster area. A message was sent to the chapter nearest the disaster and the family was contacted. The Red Cross reported that the family was safe. The worker on duty assured the serviceman that all was well with his family and that Red Cross through Disaster Service would help if his family needed assistance.

A serviceman's mother in New York needed blood immediately for a pending operation of a serious nature. The necessary contacts were made with the Blood Center in Birmingham and the New York chapter. The life-saving blood was obtained for his mother in a very short time. Hundreds of civilian workers on the Arsenal have also blood need coverage for themselves and families through the blood program on the post.

While these particular services have been given to the post personnel and families this type of service is multiplied a hundred-fold wherever there are military personnel and their dependents the world over.

Through the Redstone Arsenal Field Director's office, 682 servicemen received Red Cross services. These services included communications, counseling, and financial assistance. There were

58 loans made for emergency leaves, personal needs, and family assistance in the amount of \$3,011 from 1 January 1958 through 31 July 1958.

In First Aid there were 13 classes taught to civilians and to the military dependents of the Arsenal by volunteers. There were 186 First Aid Certificates issued. There were 132 people who qualified for Red Cross Water Safety certificates. You too can learn how to prevent accidents, and save lives through the First Aid and Water Safety Courses. Many others have learned to care for the sick and injured in the home through Home Nursing Courses.

Other volunteer services are available to everyone. There are 56 active volunteers who gave 2,580 hours of service since 1 January 1958. This number and services include the Gray Ladies, staff aides, dependent volunteer nurses, bloodmobile volunteers, and first aid instructors. What do volunteers receive for this service in the way of compensation? A volunteer revoted one afternoon to taking a mother and her children to the Arsenal hospital for an appointment. The mother was foreign-born, could not drive a car, and her husband is on an overseas assignment. This volunteer would tell you the mother's gratitude was her pay for the time spent. The volunteers who work in the hospitals, the clinics, offices, bloodmobile programs, or in any of the Red Cross volunteer services would give the same type of answer. A true volunteer gives of herself to help some one in need.

The Red Cross staff welcomes one and all to visit the Field Director's office in Building 3480 for further discussions of Red Cross services.



HOT HEAD — PFC Marvin Swain demonstrates helmet radio being developed by the Army Signal Corps. The instrument's electrical power is furnished by the sun's rays.



RE-ENLISTS THIRD TIME HERE — Pictured above is M-Sgt. James T. Brandon (center), Medical Detachment, U. S. Army Hospital, Redstone Arsenal, being administered the Oath of Enlistment by Maj. Jesse A. Garner (left), RSA Troop Commander, as SFC James J. O'Neill, Post Reenlistment NCO, looks on. This marked the third consecutive time Brandon reenlisted at this station, having previously reenlisted here in 1949, and 1952. A veteran of over 15 years, Sgt. Brandon's most recent overseas service was in Korea.

'Space Technology' Course Set at University Center in Huntsville

The University of Alabama, Huntsville Center, in conjunction with the American Rocket Society, will offer a non-credit course in "Space Technology" beginning Nov. 12.

The course consists of 17 filmed programs of approximately two to two-and-a-half hours' length each.

Requests for enrollment and registration fees should be mailed to: University of Alabama, Huntsville Center, Huntsville, Ala.

This film series was originally presented as a post-graduate course at the University of California. A firm background in physics and mathematics is considered desirable for prospective students.

The first program will be presented Wednesday, Nov. 12, from 8 p.m. to 10:30 p.m. at the auditorium of Butler High School. Lecture notes will be provided in mimeograph form, and a live moderator will usually be provided, who will help in any way possible, University officials said.

Programs are scheduled each Wednesday evening from Nov.

12 through March 18, except as follows: the program during Thanksgiving week will be given on Tuesday, Nov. 25, rather than Wednesday, Nov. 26; the last program before Christmas holidays will be given Dec. 17; and programs will be resumed Jan. 7.

The cost of the course is \$15, including registration fee.

While the series is not so related that failure to attend one program will detract from the value of the next one, it is highly important that participants attend all programs if possible, University officials said. No college credit is given for the course, but a certificate of completion will be mailed upon request.

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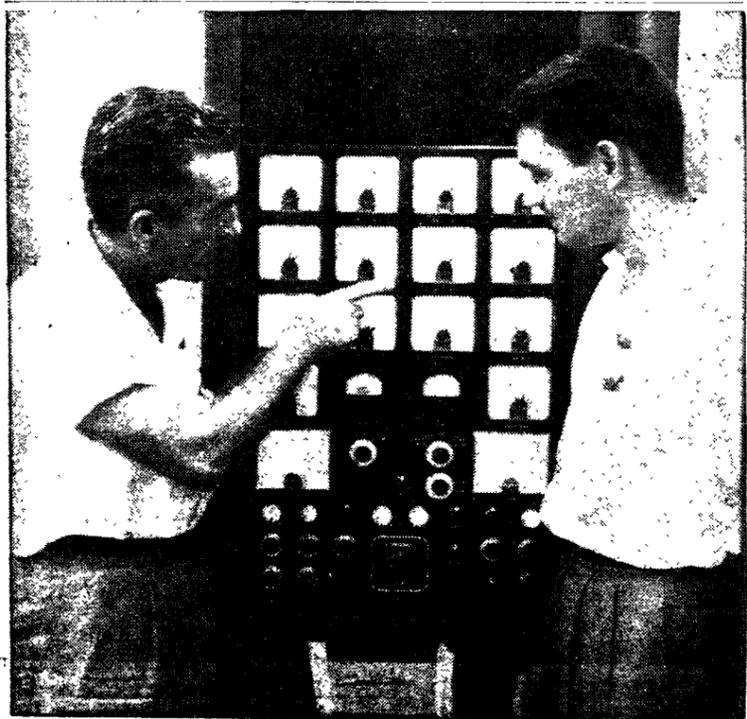
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LIKE FATHER, LIKE SON—Vester L. Pinson, 47 (left), and his son George, 23, are both employes of the Army Missile Firing Laboratory—the organization at Cape Canaveral that launches the Army's ballistic missiles and space vehicles. Here they are seen at a computer power supply unit. The Pinsons live at 1106 Pinedale Road, Cocoa, Fla.

* * *

Launching Army Missile Space Vehicles Family Affair for the Pinsons

CAPE CANAVERAL, Fla. — Launching of the Army's big ballistic missiles and space vehicles is a family affair for the Pinsons of Cocoa, Fla.

Vester L. Pinson, 47, and his son, George, 23, are both employes of the Army's Missile Firing Laboratory. The Lab is a part of the Army Ballistic Missile Agency, Huntsville, Ala., which is responsible for developing the Army's long range missiles and conducting its space exploration program.

The elder Pinson has been a member of the Army missile development team for 11 years.

George is a senior at the University of Alabama, Tuscaloosa, where he will be awarded a degree in physics this winter. He has been employed by the Missile Firing Lab during the summer months.

The Missile Agency's 10 technical laboratories are under the direction of Dr. Werner von Braun. The Commander is Brig. Gen. J. A. Barclay. ABMA is an element of the Army Ordnance Missile Command, headquarters of which is also at Huntsville.

At the Cape, the elder Pinson is in charge of the Telemetry Section's recording station. He is responsible for recording the signals from the big missiles as they travel over the Atlantic Test Range.

All of Pinson's work in the missile field has been in this area. He was in charge of telemetry at White Sands Missile Range, N. M., for several years, during which time the Army was firing captured V-2s, Nikes and Corporals.

In 1950 he moved with the von Braun development team to Huntsville, and four years later he was transferred to the Firing Lab at the Cape.

He is a native of Rome, Ga., was graduated from the Calhoun High School there, and later studied electronics at Johns Hopkins University, Baltimore.

Pinson is married to the former Pauline Johnson, daughter of Mr. and Mrs. George A. Johnson, Atlanta. They have three children, all of whom are in college: George 23, University of Alabama physics student; Jerry 20, who is sophomore studying chemistry at Alabama; and Frances, 18, a 1958 graduate of Cocoa High School, who is entering Emory University, Atlanta, this fall.

The Pinsons live at 1106 Pinedale Road, Cocoa.

Religious Services

POST CHAPEL — Bldg. 3714 PROTESTANT

Sunday — 0945 hours, Sunday School, 1st Session 4th grade through Junior High.

1000 hours — Adult Bible Class in TV Room of Service Club.

1100 hours — Sunday School, 2nd Session — 3 yrs. of age through 3rd grade.

1100 hours — Morning Worship. The nursery for babies and small children is open during this service.

Wednesday — 1845 hours — Chancel Choir rehearsal.

CHAPEL No. 2 — PROTESTANT

Sunday — 0930 hours — Morning worship.

Friday — 1930 hours — Christian Science service.

JEWISH — Temple B'Nai Shalom (corner of Lincoln and East Clinton Ave.)

Friday — 2000 hours — Regular service. O'Neg Shabbot (Sabbath Social) at Temple Annex following service.

Sunday — 1000 hours — Religious School at Temple Annex.

CATHOLIC

Sunday — 0745 and 0845 hours — Mass.

Monday — 1900 hours — Convert class in Chaplin's office.

Tuesday — 1930 hours — Novena in honor of Miraculous Medal followed by Choir rehearsal.

Saturday — 0930-1100 hours —

Catechism classes for grade school children.

1800-1900 hours — Confessions.

CHAPEL No. 2 — CATHOLIC

Sunday — 1100 hours — Mass.

Special Services Activities

Post Gymnasium Operating Hours: Monday thru Friday 1400-2200 Saturday, Sunday and Holidays — Closed.

Craft Shop Operating Hours: Monday and Tuesday — Closed. Wednesday thru Friday 1400-1630 and 1730-2200. Saturday 0800-1630. Sunday 1230-1930

Golf Driving Range and Archery Range Operating Hours: Monday thru Friday 1400-2100. Saturday 1300-1900. Sunday and Holidays 1400-1900.

LIBRARY OPERATING HOURS: Monday thru Friday 0900-2200 Saturday and Holidays 1000-2200. Sunday 1200-2200.

POST SWIMMING POOL: Monday thru Saturday 1300-2000. Sunday 1300-2000.

Odd days of the month are reserved for Enlisted personnel, their families, and guests. Even days of the month are reserved for Officers, their families and guests.

Post Service Club Operating Hours: Monday thru Friday 1600-2200. Saturday 1000-2200.

Sunday and Holidays 0900-2200

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432.00	376.33	24.00	55.67
564.00	442.39	28.00	66.67
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960.00	619.90	40.00	105.66

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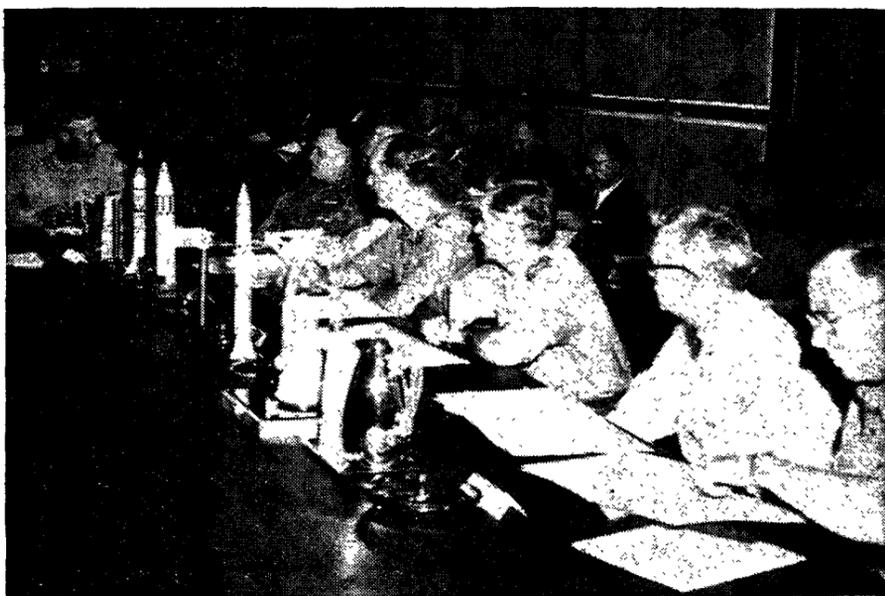
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CANADIAN OFFICIALS VISIT—Maj. Gen. Jean Victor Allard (second from left), Vice-Chief of the Canadian Army General Staff, and top-ranking members of the Canadian Defense Research Board confer with Maj. Gen. J. B. Medaris (left), Commanding General of the U. S. Army Ordnance Missile Command, during an orientation visit to Redstone Arsenal by the Canadian group last week. Left to right are: Gen. Medaris, Gen. Allard; Dr. George Sidney Field, Chief Scientist, Canadian Defense Research Board, Ottawa, Canada; Brigadier Thomas Graeme Gibson, Canadian Army Staff, Washington, D. C., Brigadier Herbert Wainwright Love, Deputy Quartermaster General, Army Headquarters, Canada; Dr. John Joseph Green, Defense Research Member, Canadian Joint Staff, Washington, D. C.; and Brigadier Donald A. G. Waldock, Chief Superintendent, Canadian Armament Research and Development Establishment. The Defense Research Board is on an equal level in the Canadian Department of National Defense with the Canadian Army, Royal Canadian Air Force, and Royal Canadian Navy. The Canadian group's visit to Redstone Arsenal, the U. S. Army's missile center, was part of a week-long tour of several U. S. defense installations, to acquaint themselves with U. S. Army research and development programs (particularly in the missile and anti-missile fields) in order to minimize duplication in areas of mutual interest and to increase cooperation in future research and weapons system development.

OMC IS CO-SPONSOR OF ORDNANCE RESEARCH CONFERENCE IN N. Y.

The Fifth Sagamore Ordnance Research Conference, sponsored jointly by Syracuse University and the U. S. Army Ordnance Missile Command, is being held this week at the Sagamore Conference Center near Raquette Lake, N. Y. The annual meeting is being sponsored this year by the Army Ordnance Missile Agency, and the Office of Ordnance Research, Huntsville, N. C., in cooperation with Syracuse University. Theme of the three-day conference is "Materials in Space Environment." Leaders in space technology, representing military agencies, private industry, and educational institutions, are taking part. About 85 persons were expected to attend the informal meeting.

The conference will be devoted to discussions on the problems of designing and building space satellites, particularly the effects on materials of space vacuum, high energy radiation, heat absorption and heat radiation, meteorites, and cosmic dust. The conference is thought to be the first of its type, and its purpose is to bring together for informal discussion those scientists who are working directly in satellite design, as well as those working in such fringe areas as physics, meteorology, radiology, and mechanics. Dr. George Sachs, director of the Metallurgical Research Laboratory and associate director of the Syracuse University Research Institute, is conference chairman.

Missile Crews Get Better Protection

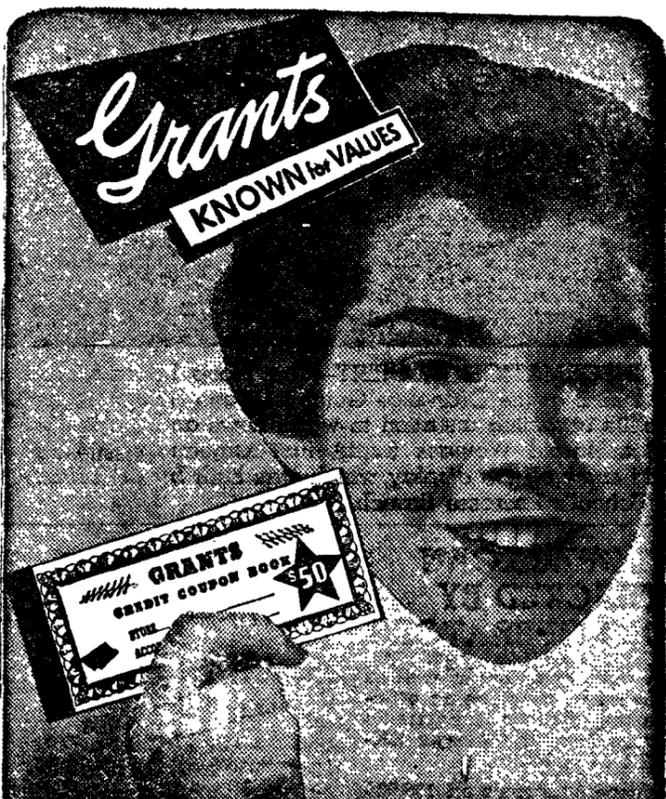
WASHINGTON (AFPS) — An improved protective suit for missile-servicing crews has been developed by the Army Quartermaster Corps. The new ensemble covers the crewman from head to toe and protects him from the highly corrosive chemicals he must handle in line of duty. The basic protective material is a coating over a cotton fabric base of resins modified butyl rubber which is impervious to the liquid oxygen, hydrogen peroxide, red fuming nitric acid and other chemicals used in missile fuels. The suit employs the recently standardized Army Chemical Corps M-15 mask, a breathing apparatus which feeds compressed air from a pair of small tanks carried on the back. Because heat builds up rapidly

assisted by J. V. Latorre, also of Syracuse. Dr. W. H. Steurer, formerly of ABMA and now an employee of Convair Aircraft Corp., San Diego, is technical director of the conference. He is assisted by C. G. Miles, Jr., of the ABMA Research Projects Laboratory. Dr. P. R. Kosting of the Office of Ordnance Research, Dr. G. Groetzinger of The Martin Co., Baltimore, and W. F. Brown, Jr., National Advisory Committee for Aeronautics, Cleveland, O., are other members of the conference committee. Dinner speaker at the final session will be Samuel B. Batdorf of the Advanced Research Projects Agency, Department of Defense. Program participants, and their subjects, include the following: Dr. H. C. Urey, University of Chicago, "Physics of the Interplanetary Space with Emphasis on the Chemistry of the Moon;" J. Cladis, Lockheed Missile Division, "Design Requirements of Space Vehicles;" M. R. Achter, Naval Research Laboratory, "Mechanical Properties of Metals Exposed to High Vacuum;" G. J. Vanderschmidt, National Research Corp., "High Vacuum Technique and Expected Effects on Materials;" G. H. Heller, ABMA, "Satellite Temperatures;" E. T. Wessel, Westinghouse Corp., "Structural and Mechanical Effects of Repeated Cooling;" D. Robinson, Baird-Atomic "Surface Emmissivity Under Outer Space Conditions;" P. Myers, University of Chicago, "Nature of High Energy Radiation Encountered in Space;" E. Schmid, University of Vienna, "Radiation Effects on Metals;" H. R. Dvorak, Convair, "Radiation Effects on Non-Metals;" G. S. Hawkins, Harvard Observatory, "Source and Nature of Meteors;" W. S. Partridge, Ural Research and Development Co., "High Velocity Impact;" and C. N. Scully, North American Aviation, "Effects of Meteors on Materials and Simulation Testing."

Jewish High Holy Day Services Scheduled

Jewish High Holy Day Services in the suit, a coverall of knit cotton fabric is worn over the protective garment. The coverall is doused with water, the evaporation of which cools the wearer.

at the Temple B'Nai Shalom, corner of Lincoln and East Clinton Ave., will be held as follows: **Sabbath of Repentance Service** Friday, 19 Sept. — 2000 hours. **Yom Kippur Services** Tuesday, 23 Sept — 2000 hours. Wednesday, 24 Sept. — 10:00 hours. Breakfast at Temple Annex Wednesday following services.



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EMPLOYMENT _____ I HAVE ACCOUNTS AT...
From _____ New Long _____ Store _____ Open — Closed _____

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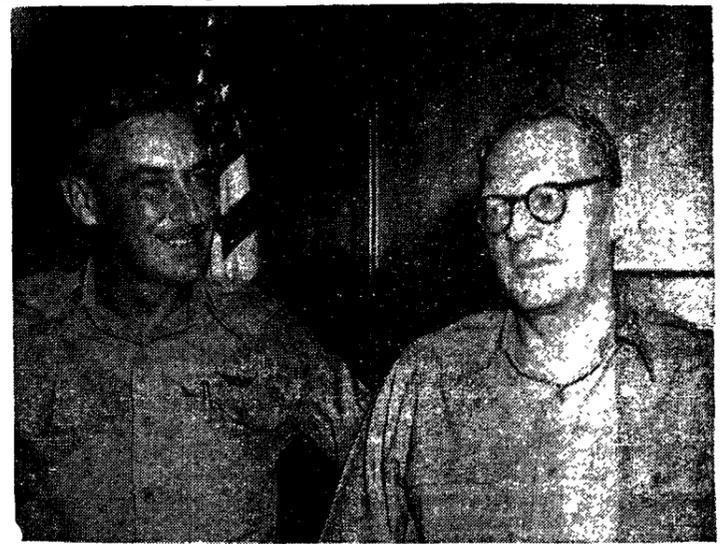
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OPPOSITE THE SHOPPING CENTER



INFORMATION IN ORBIT—The Troop Information and Education program of HQ & HQ Det. B at the Ordnance Guided Missile School is accurately in orbit with a whirling satellite attracting attention to world news and maps posted regularly in the orderly room. M-Sgt. Harold Womack (right), first sergeant, and Company Commander Capt. Ira E. Dodd show off the display which was built by SFC Harry Duke and Sp4 Roberts, both of the School's Lacrosse Branch.



MAJ. GEN. L. V. HIGHTOWER (right), Senior Army Representative for the Army Weapons System Group, talks with Maj. Gen. J. B. Medaris, Commanding General, Army Ordnance Missile Command, during an orientation visit by Gen. Hightower to Redstone Arsenal Friday.

EXPLORERS CAN BE TRACKED BY RADIO OPERATORS

Ham radio operators as well as satellite scientists manning official tracking stations can tune in on signals from the Army's EXPLORER IV satellite.

It is sending signals on 108.030 and 108.00 megacycles. Transmission of signals is expected to continue for about two months from the date of launch. EXPLORER IV was placed in orbit July 26.

Information concerning the position of earth satellites is broadcast daily by the Civil Air Patrol Command Station (VPO) in Washington, D.C., operating on 4275 kilocycles. This station receives data concerning satellite tracking directly from the Smithsonian

Astrophysical Observatory and transmits this information at 7 p.m., 8 p.m., and 9 p.m. EST.

The information is re-transmitted by the Civil Air Patrol's eight regional stations. Regional station for the Huntsville area is Birmingham KIG442, operating on 4467.5 kilocycles, which broadcasts satellite data one daily at approximately 8:30 p.m. CST.

Anyone with a radio receiver of the type commonly known as "short wave" which receives in the 4,000 to 5,000 kilocycle band will be able to pick up these satellite forecasts. Anyone with a receiver which has the capability for 108 megacycles will be able to pick up signals from the EXPLORER IV satellite as it passes within range of the receiver.

The forecasts will indicate all passes of satellites over the United States. The broadcasts will give the date of the pass, tell which satellite is involved indicate the visibility of the satellite, and indicate the path in which it will be traveling, giving the time of crossing of the 40th parallel or the time of the northernmost point of orbit for reference.

Satellites now orbiting the earth are identified as follows:

EXPLORER I — 1958 Alpha.
VANGUARD I — 1958 Beta I (rocket carrier); 1958 Beta II (the satellite).

SPUTNIK III — 1958 D-Ua I (rocket carrier); 1958 Delta II (the satellite).

EXPLORER IV — 1958 Epsilon.
Code terms regarding optical visibility are:

1. black — pass will be at night and satellite will not be visible.

2. white — pass will be during day and satellite will not be visible.

3. green — satellite will be visible because of reflected light.

4. red — satellite will be visible because it is self-luminous.

Information received concerning the path of a satellite can be correlated with a grid prepared by the National Academy of Sciences' IGY Committee in order to determine the satellite's position relative to the ham radio operator's position. By using the grid, the radio operator will be able to determine when the satellite will come within his radio range. He will also be able to determine at what times satellites will be within visible range. The grid, together with instructions, can be obtained by writing to the U.S. National Committee for the IGY, National Academy of Sciences, Washington, D.C.

The Army Explorer satellites were launched in connection with the International Geophysical Year. In the U.S., the National Academy is supervising IGY projects.

'Important Man' Of Fighting Army Is Taking Tests

TONGGU, Korea—One of the most important men in the Army is taking a proficiency test in the First Cavalry Division to determine just how well he performs his job.

He is the infantry squad leader, the experienced NCO with the "rockers" of a sergeant on his sleeve. The Army depends upon his ability to lead a handful of men in combat. This is no theoretical paper test.

In one company, First Lieutenant Benjamin C. Wheat of (323 W. 5th St.) Chanute, Kans., is directing the tests for each squad individually after making preparations to produce the sounds and "feel" of a squad in action.

He leads Sergeant First Class Early B. Irby of East Prairie, Mo.,

one of the squad leaders, to the assembly area, gives him the simulated battle plan and the objective, then puts him on his own.

It's up to Irby to select the route of advance and lead his men on to take the fortified position. On the way his squad is hit by a distant atomic blast, a gas attack, artillery and machinegun fire.

Irby is graded on such factors of leadership as the security of his men, reaction under fire, preparation for possible counterattack, and squad control.

This is the First Cav's spring start in the Army's yearly training cycle. After that comes the platoon tests, then company tests, ending in the fall with the battle group tests.

A cow, like a ship, has a stern and a bow
And a tail in place of a rudder.
You fill her up at one end with hay from the mow
And you empty her at the udder.

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COMPLETE RECAPPING SERVICE
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*As long as case is unopened crystal intact

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MILITARY ENGINEERS TO HEAR TALK BY GEN. CARTER THURSDAY NIGHT

The Huntsville Post of the Society of American Military Engineers will hear an address by Maj. Gen. William Arnold Carter, Division Engineer, U. S. Army Engineer Division, Lower Mississippi Valley, at a meeting of the Post at the Squirrel Hill Officers Club (Bldg. 111) Thursday night (Sept. 18).

Gen. Carter will speak on "Flood Control on the Mississippi River."

Election of officers for the coming year will also be held at the meeting.

The nominating committee has recommended the following: president, J. Oliver Johnson; vice-president, Col. H. H. Northington; treasurer, Edwin K. Fowler; assistant treasurer, Gerald D. Burnett; secretary, E. Witt Compton; directors, Lt. Col. John R. Clifton, Hal B. Ensor, Jr., and N. E. Waldrop.

Refreshments will be served at 6:30 p.m. and dinner at 7.30.

The speaker, Gen. Carter, is a native of Corsicana, Texas. He moved with his family to Ruleville, Miss., in 1920, and his mother still lives there. He attended schools in Texas, Arkansas, and Mississippi, including three years at Mississippi State College. He was graduated from the U. S. Military Academy in 1930. He took post-graduate work in civil engineering at the University of California, receiving a B. S. degree in 1933.

His first station was the Vicksburg Engineer District in 1930. During the 1930's, he served at various Engineer organizations throughout the United States, including the New Orleans Engineer District. He attended The Engineer School as a student in 1934 and later became a department head at this school.

During World War II, he held the position of Corps Engineer, II Corps, in North Africa and Sicily. He then became First Army Engineer and served in that capacity throughout the European Campaign. When the First Army moved to the Philippine Islands, Gen. Carter went also.

After the war, he became Executive Officer for the Engineer Research and Development Laboratories at Fort Belvoir, Va. After that, he was the Army Engineer



MAJ. GEN. WM. A. CARTER

for Third Army, Fort McPherson, Ga.

In August 1951, Gen. Carter was assigned to the Pentagon to be Chief of Facilities Branch, Service Division, G-4, Department of the Army. On April 1, 1953, he was designated as Chief, Service Division, Office of the Assistant Chief of Staff, G-4, Section. On Sept. 13, 1954, he became Director of Installations, Office of the Deputy Chief of Staff of Logistics, Department of the Army. He was designated the Engineer at United States Army Forces, and Eighth United States Army, at Camp Zama, Japan, on March 2, 1955, and Deputy Chief of Staff, G-4, April 14, 1956.

Gen. Carter became President of the Mississippi River Commission in August 1957. He is also Division Engineer, U. S. Army Engineer Division, Lower Mississippi Valley.

Gen. Carter's decorations include the Distinguished Service Medal, the Legion of Merit, the Bronze Star Medal, the French Legion of Honor, the Croix de Guerre with palms, and the Corronne de Chene of Luxemburg. Gen. Carter participated in the following campaigns: Algeria-French Morocco, Tunisia, Sicily, Normandy Invasion, Northern France, Rhineland, Ardennes and Central Europe.

He is married to the former Katharine Munson of Washington, D. C., and has two daughters, Jane and Linda, both married.

Safety Scoreboard

(As of 15 Sept.)

Days since last civilian disabling injury—49.	Our Goal	60
Days since last military disabling injury—12.	Our goal	30
Days since last contractor personnel disabling injury—19.	Our Goal	50
Days since last government vehicle accident—4.	Our Goal	30

Civilian Safety Goal Is Reached

Civilian personnel reached their goal of 45 days without a disabling injury on last Thursday. This is the first time since the "Scoreboard" has been operating that civilian personnel has reached a 45-day goal and represents the best record for calendar year 1958.

A new goal of 60 days has been set as an immediate objective and all civilians are urged to not only work safely as individuals, but to encourage fellow workers to extend the number of days without serious injury.

2. Auburn, 10-0-0.
3. It has been done. Bob Fitzsimmons, who was five feet, 11 3/4 inches tall, weighed 167 when he defeated Jim Corbett for the championship, March 17, 1897.
4. Yes.
5. Army defeated Colgate in 1956, 55-46.

Then there was the fellow from way back in the hills who died upon seeing his first automobile—he didn't see it soon enough.

Absence of Workmen Continues to Paralyze Construction on Post

The absence of workmen which has paralyzed construction at Redstone Arsenal continued as of Rocket press time (11 a.m. yesterday).

A few workmen, less than 50, reported to their jobs Monday and Tuesday mornings, despite the fact that picketing by Electrical Workers has ended at all gates except Gate 9.

A Federal District Court order issued in Birmingham Friday prohibited picketing except at one gate. The order also prohibited any other action by IBEW and its Local Union 558 which would induce or encourage employees of any employer to engage in a strike, or a concerted refusal to work for their respective employers.

The construction contractors on the several major building projects were notified of the court's action Saturday and requested to

resume work. A Missile Command spokesman said Monday that all construction personnel are advised that there is now no reason why they should not return to work.

A hearing has been set by the Birmingham Court for Sept. 26 on the merits of the temporary injunction issued Friday.

Weeden Manor Is Getting on Master TV Antenna

The residents of Weeden Manor on post will receive service from the Redstone Arsenal master television antenna soon.

The Signal Corps is reported to be connecting approximately five homes a day to the cable.

ENJOY "OK" USED CAR SAVINGS BUY WITH WARRANTED CONFIDENCE HILL CHEVROLET CO.

CASH LOANS CASH
To Employed Men and Women
SIGNATURE AND FURNITURE LOANS
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BONELESS K. C. SIRLOIN Approx. **50c** Portion Cost
STRIP STEAKS F&T* ----- Ea. **50c** Portion Cost

We Reserve The Right To Limit Quantities

Net Weight Per Box	ITEM	Approx. Portion Size	Approx. Portion Cost
10 Lbs.	Mignon of Beef, Ribeye, bacon wrapped, F&T*	8 Oz.	60c ea.
10 Lbs.	Club Steaks, boneless top butt, F&T*	8 Oz.	50c ea.
10 Lbs.	Spencer Roll, steaks, F&T*	10 Oz.	50c ea.
10 Lbs.	T-Bone, Blue Ribbon, fully trimmed, F&T*	10 Oz.	59c ea.
10 Lbs.	Rib Steaks, Blue Ribbon, fully trm. F&T*	10 Oz.	65c ea.
10 Lbs.	Round Steaks, hvy. beef, fully tmd. F&T*	15 Oz.	79c ea.
10 Lbs.	Veal Cutlets	4 Oz.	24c ea.
10 Lbs.	Burger Patties, bacon wrapped	4 Oz.	17c ea.
10 Lbs.	Broiler Patties, bacon wrapped	4 Oz.	17c ea.

All Steaks Guaranteed U. S. Gov't. Inspected
*Flavored and Tenderized

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DWARF RESTAURANT, SO. MEMORIAL PARKWAY

SPORTS QUIZ

1. The Yankees have won six World Series four games to none. Two of these series were against the Cubs. Name three of the four other teams they beat 4-0.
2. What was the only football team in the Southeastern Conference to go undefeated last year?
3. Could a man weighing less than 170 pounds ever hope to win the world's heavyweight boxing championship?
4. When a first or second strike foul tip is legally caught by the catcher, is the ball still in play.
5. Name the highest scoring game in Army's football history.

(Answers to Quiz)
1. Pittsburgh, St. Louis, Cincinnati and Philadelphia.

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500 UGF Solicitors Attend Training Meets

More than 500 unit solicitors who will take part in Redstone Arsenal's third annual United Givers Fund attended training sessions at the missile center last week and Monday of this week.

The two-month fund raising drive will benefit 17 health, welfare and youth organizations. Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command, is chairman of the campaign, and Stuart H. Jones is executive chairman.

Training sessions were held for solicitors representing all military, civilian, and contractor personnel on the installation.

The first meeting was held on Sept. 9 in Rocket Auditorium, attended by solicitors from Redstone Arsenal, the Ordnance Guided Missile School, and the area office of the Corps of Engineers, Mobile District. Other meetings were scheduled later for the Army Rocket and Guided Missile Agency, Army Ballistic Missile Agency, and Headquarters, Army Ordnance Missile Command.

J. L. Blackburn, training officer in the AOMC Civilian Personnel Office, is heading the UGF training program. He is assisted by James F. Dowdy, ABMA; James Flanagan, Redstone Arsenal; and Jackson Balch, ARGMA. Blackburn explained that each

of the more than 500 solicitors was receiving a kit containing posters, pledge cards and "Fair Share" cards.

The training sessions included a discussion on the techniques of solicitation, and instruction on the proper method of completing pledge cards.

All Arsenal employees have been urged by Gen. Medaris to give a "fair share." For residents of Madison County, he recommended fair share is 80 per cent of one day's pay. Residents of other counties are encouraged to contribute as much as 40 per cent of a day's pay as their fair share.

"The terrific impact of the Army's expansion here upon the community has created a very clear-cut responsibility for support of community endeavors," Gen. Medaris observed. "We have asked the community to help us; we must in like manner respond to the community's needs."



UGF DONATIONS POUR IN—Maj. Gen. J. B. Medaris, chairman of the 1958 Redstone United Givers Fund Drive, is shown as he received contributions packets turned in by Army Ordnance Missile Command Headquarters solicitors five hours after the UGF drive got under way Monday. AOMC Hq. had a 70 percent "Fair Share" participation representing more than \$5,000 when this picture was taken in the lobby of Command Headquarters. The Engineer, Chief of Staff, Commanding General's Office, Civilian Personnel, and Transportation Office of AOMC Hq. had achieved 100 percent participation. Left to right above are: Michael M. Kilian, AOMC Control Officer; Lewis Aycock, AOMC Deputy Comptroller; Stuart H. Jones, AOMC Civilian Personnel Office; Gen. Medaris; and Joe Moquin, AOMC Control Office.

Response Comes Quickly After UGF Drive Opens

Response to the Redstone United Givers Fund came quickly after the kickoff meeting at 9:30 a.m. Monday—within an hour or two, several units had reported "over the top" to Leonard M. Brockman, Executive Secretary of the Redstone UGF Executive Committee.

"The calls started coming in so fast, it would be difficult to single out any one unit as being the very first on the post to go over," Brockman said.

Among the first units to begin and end their UGF campaigns all in a matter of hours or minutes, were: Dental Service Branch, Post Surgeon's Office, RSA; Auto Maintenance Section, Operations Branch, Post Transportation Division, RSA; four offices in Research and Development Division, ARGMA, including Office of the Chief, Control Office, Training Branch, and Raytheon Instructors Group; and five units of AOMC Headquarters—The Engineer, Chief of Staff, Commanding General's Office, Civilian Personnel, and Transportation Office.

"These 'early returns' show a lot of advance preparation and enthusiasm, and are very gratifying," Brockman stated.

Memo Released on Nike Blast

HEADQUARTERS THIRD U.S. ARMY, Ft. McPherson, Ga. — The following memorandum was recently released to the press in Washington, which concerns the explosion at a NIKE base in Middletown, N. J., which killed 10 persons last May.

"On 22 May 1958, an explosion occurred at Battery B of the 526th AAA (Nike) Missile Battalion at Middletown, N. J. It resulted in six enlisted men of Battery B of the 526th AAA (Nike) Missile Battalion, and four Department of Army Ordnance civilians being killed. One warrant officer, since returned to duty, of Battery B of the 526th AAA (Nike) Missile Battalion, and one Department of Army Ordnance civilian were seriously injured. The launching equipment of one of the three sections was damaged and eight missiles were destroyed or partially destroyed.

"At the time of the explosion, three separate activities were taking place in the vicinity of the explosion. The battery personnel were checking missiles in preparation for going on a higher state of alert; a launcher was being repaired by an Ordnance repair team composed of civilian personnel, and enlisted men from the Nike battery were doing an authorized modification on a group of missiles. The board concluded that the first two operations definitely were not the cause of the explosion. Thorough study of all evidence revealed that, although the explosion ap-

peared to have been initiated in the area where the modification was being performed, there was no evidence that the modified part could have caused the accident.

"The circumstances have been examined and weighed by a board of officers. After careful consideration of all the evidence, the board concluded that the most probable cause of the explosion was the rupturing of a detonating cap. Corrective actions have been taken to prevent a recurrence. Further, there was no evidence of gross carelessness, smoking, inattention to the operations, or any other possible cause such as sabotage.

"Safety regulations and requirements have been reviewed and tightened. The procedure which may have caused the accident has been corrected and eliminated. The Middletown incident was the first explosion since Ajax missiles became operational almost five years ago.

"It was found that all serious

damage resulting from the explosion was confined to the area immediately adjacent to the point of the explosion and within the battery boundaries. No injuries were inflicted on personnel outside the battery area, and damage outside the battery was limited. Debris from the explosion was found at some distance from the battery, but there are no reports of damage resulting from it.

"Immediately after the explosion occurred, the Army promptly sent teams to Middletown to assist in processing all claims for damages to property resulting from the explosion.

"The battery remained operative in spite of the explosion. It can take its place in the defense of the New York City area at any time. Army Engineers are rapidly repairing the damage and will return the site to its original condition in a short time."

"Lips that touch liquor shall never touch mine."
"Your lips?"
"No, my liquor."

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ANDY'S PEST CONTROL
Off. JE 2-5078, Res. JE 6-3910

NOTICE! TO ALL BOWLERS



Leagues are now being formed at Parkway Bowling Lanes. Leagues will consist of scratch, handicapped, ladies and mixed leagues. AMF Automatic Pin Spotters with underlane ball returns.

Opening Date on or About Sept. 15

For Further Information Call

HERMAN KRAMER, Mgr.
JE 6-4658

Free Nursery Space Available for Morning Bowlers

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FOR SALE REPOSSESSED

1957 FORD RANCH WAGON

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OUTCAST WITH A GUN!
ANTHONY QUINN
MAN FROM DEL RIO
with KATY JURADO

THURSDAY & FRIDAY

Marjorie Morningstar GENE KELLY
WARNER COLOR NATALIE WOOD

SATURDAY

The QUIET AMERICAN
AUDIE MURPHY MICHAEL REDGRAVE
CLAUDE DAUPHIN

Plus

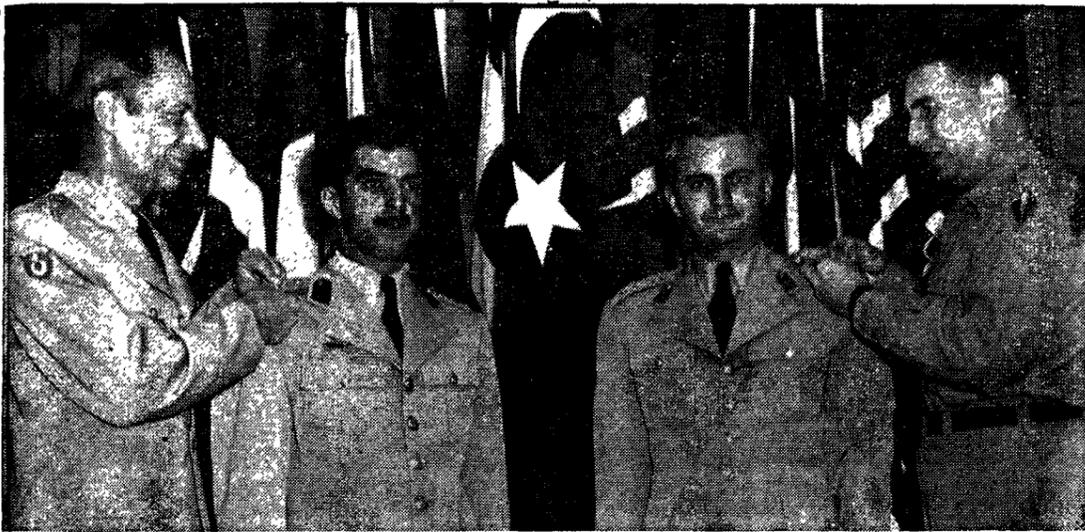
THE WOMEN OF PITCAIRN ISLAND
JAMES CRAIG LYNN BARI
A 20th CENTURY FOX RELEASE

SUNDAY & MONDAY

CLARK GABLE **BURT LANCASTER**
RUN SILENT, RUN DEEP
JACK WARDEN

TUESDAY & WEDNESDAY

JUNE ALLYSON ROSSANO BRAZZI
Interlude
CINEMASCOPE TECHNICOLOR
MARIANNE COOK FRANCOISE ROSAY
A UNIVERSAL-INTERNATIONAL PICTURE



STARS FALL ON ALABAMA TURKS—The three stars of captains in the Turkish Army are pinned onto the shoulders of two Turkish student officers at the U. S. Army Ordnance Guided Missile School in what is believed to be the first promotion ceremony ever held for Turks in Alabama. Here Col. Asim Unayral (left) senior Turkish officer at OGMS, and Col. H. S. Newhall (right) OGMS commandant, do the honors for Captains Cahit Atik of Ankara (second from left) and Abdulkadir Kellecioglu of Istanbul.

STARS FALL ON ALABAMA TURKS

Turkish Students Promoted at OGMS

Stars fell onto the shoulders of two men in Alabama last week but the occasion was military rather than astronomical.

Specifically, the three stars of captains in the Army of the Republic of Turkey were pinned on to two Turkish students at the U. S. Army Ordnance Guided Missile School. This is believed by Col. H. S. Newhall, commandant of the school, to be the first time that a member of the Turkish armed forces has received a promotion while stationed in the "Heart of Dixie."

The lucky officers are Captains Cahit Atik of Ankara and Abdulkadir Kellecioglu of Istanbul. They are studying the Nike-Ajax and Nike-Hercules anti-aircraft missile systems under the mutual

defense provisions of the North Atlantic Treaty Organization.

Having three-star officers among them does not disturb the students at the Missile School. They have learned to recognize the different insignia of the eleven NATO countries that have sent students to the "Space Academy." In the Turkish Army, captains wear three stars and first lieutenants two while a second lieutenant has to get along with just one lone star.

Stapler Among OGMS Chairmen For UGF Drive

The name of one of the division chairmen for the Redstone United Givers Fund campaign was inadvertently omitted from a list published in last week's Redstone Rocket. He is D. E. Stapler, Office of the Comptroller, Ordnance Guided Missile School. The Rocket regrets this omission and is happy to correct it.

READ THE WANTADS

'Fair Share' Is Byword In Post's UGF Drive

"Fair Share" is the byword in the Redstone United Givers Fund Drive which began Monday.

"Fair Share" among Arsenal employes has been determined at 80 per cent of a day's pay. In other words, each employe is asked as a guide, to give 80 per cent of a day's wages to the drive.

The 80 per cent guide was approved by Redstone's United Givers Fund Executive Committee, which considered this amount realistic and reasonable as compared to the National UGF "Fair Share" concept of an hour's pay per month for a year, or one and



a half days' pay.

The day and a half pay plan is usually handled by payroll deduction, which is not available to Arsenal workers, explained Stuart H. Jones, Executive Chairman of the Redstone UGF Drive.

A "Fair Share" pamphlet giving the fair share amounts for the various civil service and military grades has been published and will be distributed to all employes by the solicitors.

"Our goal is one hundred per cent participation and fair share giving," declared Jones.

The annual fund campaign seeks support for 17 health, welfare, and youth agencies.



WOODY'S DRIVE-IN

OPEN 7:00 - START 8:00

WED., THURS., FRI.



—plus—



SATURDAY, SEPT. 20

BIG

Dusk to Dawn Show

5 BIG FEATURES

Admission 75c

"STREETS OF LAREDO"

—plus—



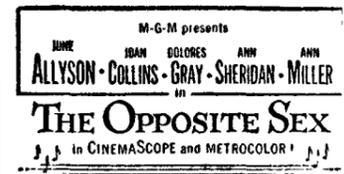
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—plus—



—PLUS—



STARTS SUNDAY



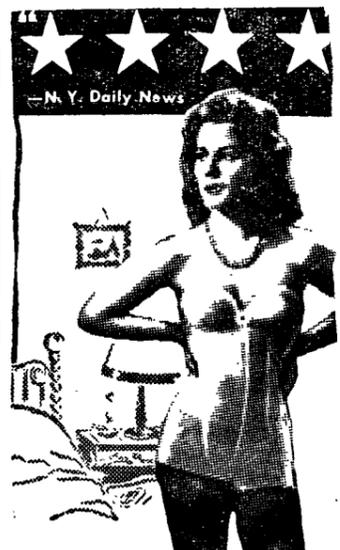
231 DRIVE-IN

Huntsville, Alabama

STARTS TUESDAY

SEPTEMBER 23

"The Devil's General" is an almost perfect picture. Based on the life of Ernst Udet, a hero of World War II. All German cast.



Background of officers' and lust of the legend." — Cue Mag. "A masterpiece of cinematic craftsmanship!" — Time Mag.

THE DEVIL'S GENERAL

from the play by CARL ZUCKMAYER
Introducing CURT JURGENS
in the role that won Best Actor of the Year Award—Venice Film Festival and MARIANNE COOK

PARKWAY

WEDNESDAY & THURSDAY

"Flesh and The Spur"

A Great Western in color

— PLUS —

"Naked Paradise"

with

BEVERLY GARLAND

Filmed in Hawaii in color

FRIDAY & SATURDAY

"Oklahoman"

with

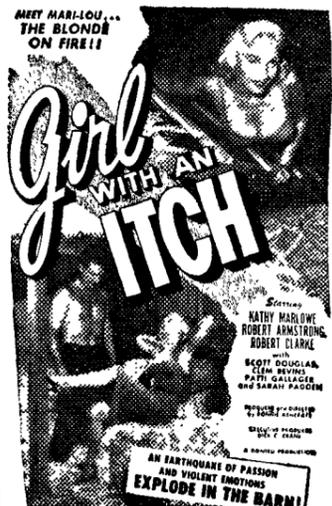
JOEL McCREA

— Plus —

"X the Unknown"

Science Fiction

SUNDAY & MONDAY

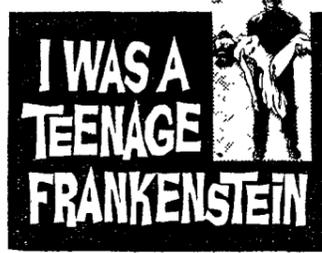


GRAND THEATRE

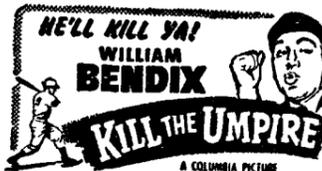
THURSDAY & FRIDAY



— Plus —



SATURDAY



— plus —



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LAST TIMES TODAY



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NOW SHOWING

THURSDAY & FRIDAY



SATURDAY

"SHOW BOAT"

AVA GARDNER KATHRYN GRAYSON HOWARD KEEL

— Plus —

"JINX MONEY"

The Bowery Boys

SUN., MON., TUES., WED.

SINATRA-CURTIS-WOOD

FRANK TONY NATALIE

White-Hot LOVE in War-Time!



KINGS GO FORTH

with LEORA DANA

RELEASED THRU UNITED ARTISTS

TWO FAREWELL PARTIES ARE HELD BY DEPARTING ITALIAN CONTINGENT

Two large farewell parties were held over the weekend by the officers and men of the Italian Air Force who have been in training at the Ordnance Guided Missile School for the past year.

The first Italian units which have trained on the Nike-Ajax and Nike-Hercules surface-to-surface missile systems will begin to move out this week to Fort Bliss, Texas, where they will continue training in artillery aspects of the weapons.

Maj. Olimpio Villa, senior Italian officer, Capt. and Mrs. Gerardo Keil, Italian Liaison Officer, and their officers were hosts Friday evening at a *Fiesta d' Addio* (farewell festival) at the Redstone Officers Club. More than 200 guests attended.

Meantime, at the Service Club, the Italian airmen served a buffet and provided entertainment for some 100 members of the OGMS staff who had been associated with them in the training courses. The Service Club was elaborately decorated with streamers and balloons in the Italian national colors of red, white, and green, and the buffet featured a number of Italian specialties.



Mrs. Margaret R. Southard

* * *

Mrs. Southard Named 'Safe Worker of Week'

Mrs. Margaret R. Southard, Management Analyst with the Planning Branch of Industrial Division, ARGMA, has been selected the "Safe Worker of the Week" because of her very fine record of safe work performance and her excellent attitude toward encouraging others to work safely. She has worked with Civil Service 15 years without a disabling injury.

Mrs. Southard was born in San Antonio, Texas, but left at an early age and now calls Orlando, Florida, home. After finishing high school at Orlando, she attended Orlando Junior College and later Wilson Teachers College in Washington, D.C..

She was formerly employed with the War Department and Labor Department in Washington before coming to work with the Industrial Division Next January, she will have completed eight years employment with the In-

Maj. Del Mar Honored By Transportation School

Maj. Henry Del Mar, chief of the Army Ordnance Missile Command Transportation Office, has been named honorary member of the Staff and Faculty of the U. S. Army Transportation School at Ft. Eustis, Va.

The certificate of membership signed by the Commandant, Brig. Gen. A. W. Lyon, was awarded in recognition of a presentation made by Maj. Del Mar on Sept. 10, when he addressed the Transportation Company Officers Course Number One on the subject, "The Role of Transportation in the Missile Field." He made a similar address at the School earlier this year.

Maj. Del Mar became Chief of the AOMC Transportation Office when it was established in May 1958. He was previously head of the Army Ballistic Missile Agency Transportation Office. Prior to coming to the Army Ballistic Missile Agency in March 1956, he was an instructor at the Transportation School.

Personnel in Employment Security Visit Arsenal

Approximately 150 members of the Alabama Chapter of the International Association of Personnel in Employment Security will be guests of the Army Ordnance Missile Command last week. They were meeting in Huntsville last week.

dustrial Division, making her the oldest employe in point of service with that organization.

Mr. and Mrs. Southard live in Athens, Ala., and he is employed with ABMA. They share their hobbies of hunting and fishing together. She collects hi-fi records and participates in club work and holds the office of treasurer of the Athens Business and Professional Women's Club.

Mrs. Southard recognizes fully the many office hazards such as top-heavy file cabinets, tripping over objects in aiseways, etc., and also suggests that such minor puncture wounds as from staples and pins be given proper first aid treatment.

Mrs. Southard is the first woman to be chosen by the Post Safety Office as "Safe Worker of the Week."

Patronize the Rocket Advertisers



RETIRING—Hans H. Bock (left), of the Technical Materials and Equipment Branch, Army Ballistic Missile Agency, receives congratulations from Lt. Col. C. L. Ferrell, Branch Chief, on his more than 46 years of government service and pending retirement. Bock enlisted in the U. S. Army on Feb. 22, 1912, at Jefferson Barracks, Mo. He was retired from the Army in April 1942 and entered civil service employment in May of that year at Ft. Bliss, Texas. He has worked since that time in the various areas of supply, coming to Redstone Arsenal in 1950 as part of the advance element of personnel moved from Ft. Bliss to Redstone Arsenal in that year. He has served as Property and Supply Supervisor and Requirements Officer in the Technical Materials and Equipment Branch since Feb. 20, 1956. Bock will retire from government service next month. He will celebrate his 70th birthday on the 13th of October.

Officers Wives Club Entertained by Civic Orchestra, Thespians

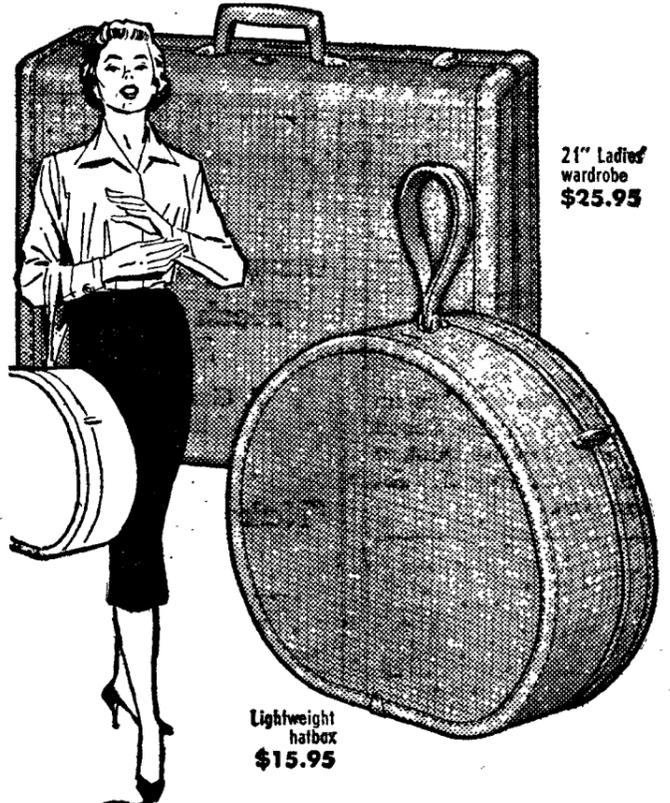
The Officers Wives Club had a box luncheon under the trees at the Squirrel Hill Officers Club last week.

Mrs. Stanley Skeiber was in charge of entertainment, which included music by the Huntsville Civic Orchestra under the direction of Alvin Breger.

Mrs. Margo Draper, wife of Maj. Andrew Draper, was first violinist. Excerpts from the play, "Four Poster," were presented by members of the Huntsville Little Theater Group under the direction of Jay Fryman.

Mrs. Matthew R. Collins was chairman for the luncheon. Her committee was composed of wives of officers in the Army Rocket and Guided Missile Agency.

back to school
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- LADIES' O'NITE \$19.95
- LADIES' TRAIN CASE . . . \$17.95

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features a soft padded top over its steel shell, tastefully embossed with a non-tarnishing gold Mylar rose. Its three-section lift-up tray, and richly lined rayon velvet and satin interior affords ample room for her favorite jewelry. Rich colorful exteriors of leather-like Texol® in a warm pink, a vibrant blue, and dove gray.

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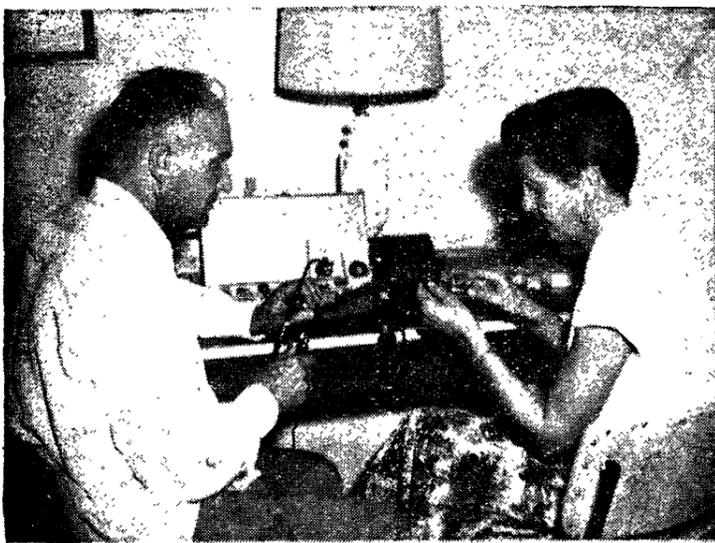
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LADIES' DEPARTMENT

JIM TERRY, OWNER

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FINISHING TOUCHES—Maj. and Mrs. Andrew J. Draper put the finishing touches on a new piece of hand-made jewelry in their home work-shop at Redstone Arsenal. The Drapers put their hobby to good advantage by making most of their Christmas presents. They work with sterling silver, semi-precious stones, and exotic woods, using their own original designs.

* * *

THEY MAKE JEWELRY

Drapers Solve Yule Gift Problem - - With Hobby

There are 85 shopping days left before Christmas — but Maj. and Mrs. Andrew J. Draper of Redstone Arsenal have most of their presents ready to mail right now.

The Redstone couple solve their Yule gift problem by making the gifts themselves—beautiful hand-fashioned pieces of jewelry.

The "Draper-made" articles include earrings, necklaces, bracelets, pendants, and pins for the ladies, and cuff-links, tie pins, and tie clasps for the men.

Maj. Draper, who is Redstone's Post Quartermaster, and his wife, Marga, a native of Germany, work with sterling silver, semi-precious stones (such as jade, topaz, and sapphire), and exotic woods (such as teak, ebony, and Brazilian rosewood), using their own original designs, to achieve the final products.

Much of the labor is tedious and time-consuming; sometimes 25 or 30 man-hours will go into a single piece of jewelry. The Drapers have a small "shop" set up in one room of their home in the Arsenal's Capehart housing area.

They started their unusual hobby (which they describe as "hard work but most rewarding") just two years ago in Chicago at an Army craft shop.

Now they've got bureau drawers stacked full of their creations. Besides giving the pieces as presents on Christmas and other occasions such as weddings and graduations, the Drapers also have sold a good many articles.

They sometimes submit items for exhibit in various art and

crafts shows over the country. Right now, they're preparing their choice pieces for one of the South's most colorful shows, the 12th annual "Plum Nelly" Clothesline Art Show at Rising Fawn, Ga., on Oct. 11 and 12.

THE POST LIBRARY

BY ANNA L. FARRAR
Librarian

Facts obtained at your Post Library can save you time, temper, and dollars. Use the library regularly—it pays!

Here's a list of the newest books:

- Martha Almedingen, "A Very Far Country."
- George Appell, "Trouble at Tulley's Run."
- Hanson Baldwin, "Great Arms Race."
- Lucius Beebe, "The Age of Steam."
- "Best Sports Stories, 1958 Edition."
- Theodor Bovet, "Love, Skill, and Mystery."
- Gregory Boyington, "Baa Baa, Black Sheep."
- "Brassey's Annual, the Armed Forces Year-book."
- Richard Cobben, "Standard Handbook of Stamp Collecting."
- Victor Canning, "The Dragon Tree."
- George Clark, "The Encyclopedia of Chemistry."
- Manning Coles, "No Entry."
- Barnaby Conrad, "Death of Manolete."
- Virginia Cowles, "Phantom Major."
- Alice Ekert-Rotholz, "Time of the Dragons."
- Evans and Company, "Complete Home Improvement Handbook."
- Joseph Gage, "A Score to Settle."
- Galaxy Science Fiction Magazine, "Third Galaxy Reader."
- Gale Research Company, "Encyclopedia of American Associations."
- "German Photographic Annual, 1958."

Noel Gerson, "Daughter of

- Eve."
- Louis Golding, "The Little Old Admiral."
- Shirley Grau, "Hard Blue Sky."
- Joseph Hayes, "The Hours After Midnight."
- Geottery Household, "Brides of Solomon, and Other Stories."
- Horst Janson, "The Picture History of Painting."
- Graham Jeffries, "The Courts of Love."
- Archie Jones, "Builders' Homes for Better Living."
- Elizabeth Kirtland, "Buttons in the Back."
- Jules Koslow, "The Kremlin."
- Herbert Kubly, "Varieties of Love."
- Franklin Langdon, "S. S. Silver-spray."
- Frances Lockridge, "Catch As Catch Can."
- James McCague, "Great Gold Mountain."

- Arthur Marx, "Not As a Crocodile."
- Rand-McNally and Company, "Atlas of World History."
- Lillian Roth, "Beyond My Worth."
- Max Savelle, "A History of World Civilization."
- Philippe Segur, "Napoleon's Russian Campaign."
- John F. Sherwood, "College Accounting."
- Harold Sinclair, "The Cavalryman."
- Robert Smith, "How To Do Nothing With Nobody, All Alone By Yourself."
- Sports Illustrated, "The Spectacle of Sport."
- Herbert Steinhouse, "Time of the Juggernaut."
- Telford Taylor, "March of Conquest."
- The Times, London, "The Times Atlas of the World."
- Wilson Tucker, "The Lincoln Hunters."

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Green Beans

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29c

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46-OZ. CANS

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SAVE ON THESE

MEAT ITEMS

★ Fresh & Lean

Ground Beef

LB.

49c

★ Fresh, Sliced

Beef Liver

LB.

39c

★ Shoulder

Swiss Steak

LB.

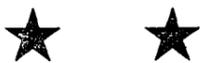
65c



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NATIONAL FOOD STORES

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Chuck Cabot AND HIS ORCHESTRA

Chuck' Cabot's Band Will Appear Sept. 23 at Service Club Here

One of the country's best liked orchestras will appear at the Redstone Service Club on September 23 at 8 p.m. Chuck Cabot and his Orchestra is the entertainment feature of the evening. The orchestra's smooth and inimitable way of presenting a tune is surely an invitation for those who enjoy dancing at its best. Cabot believes in featuring entertainment along with his fine dance music. The orchestra presents many amusing novelty songs and orchestrations that keep people laughing and entertained when not dancing. Arrangements in the novelty line feature a vocalist and the entire ensemble. His vocalist handles the ballads, with an occasional duet, and also sings in the Cabot Trio, the aboteers, and the Choir. All enlisted personnel and their guests are invited to attend the dance.

FOUNDRY GROUP HEARS GEN. COLBY

Contribution By Industry Is Told

"An outstanding example of the contribution of the foundry industry to the Army's space program can be found in the Jupiter C multistage rocket — the vehicle which has launched all our Explorer earth satellites," Brig Gen. J. M. Colby, Deputy Commander of the Army Ordnance Missile Command, told members of the Northeastern Ohio Chapter of the American Foundrymen's Society at a dinner-meeting held in Cleveland, Ohio, Thursday.

Gen. Colby described the successful use of magnesium castings in the support for the upper stages of the Jupiter C missile.

More than 300 foundrymen of the Northeastern Ohio Chapter heard Gen. Colby tell how during 27 recent Nike-Hercules firings, 23 were complete successes in that they struck such targets as jet-powered drones which duplicate the performance of the fastest aircraft today.

"The full capabilities of the Nike-Hercules system have not been tested because no operational target today can outperform the weapon," Gen. Colby added.

"The peculiar capabilities of solid and liquid propellants have been evaluated and used to good advantage. The visible result has been the parade of modern, mobile, accurate and reliable weapons with which the Army is now equipped . . . from 75 to 80 percent of all funds allotted to us for missile and rocket systems go into industry," Gen. Colby told the foundrymen.

Accountants Group Gets Banner for High Standing in Nation

Officers and directors of the North Alabama Chapter, National Association of Accountants, held their monthly meeting Sept. 8, in Decatur.

Cebren B. Pharr, Reynolds Metal Co., Sheffield, Ala., is now employment director for the chapter. Employers desiring accounting personnel are invited to get in touch with the local director through Pharr. This service is available at no cost to persons wishing to employ accountants and persons in related jobs.

J. Grady Shaw, Chemstrand Corp., Decatur, announced that Charles D. Sands, national vice-president, would present the North Alabama Chapter with a banner for high chapter standing in national competition. The presentation was to be made at the Sept. 15 technical session.

James Thomas, Redstone Arsenal, chapter secretary, announced that 21 members had perfect attendance during the past year and will receive attendance pins.

Joe T. Jones, Chemstrand Corp., Decatur, submitted two applications for membership which were approved by the board. The new

At Picatinny Arsenal

SPECIAL WEAPONS-AMMUNITION COMMAND ESTABLISHED

Establishment of a new field command of the Army Ordnance Corps — the U. S. Army Ordnance Special Weapons-Ammunition Command at Picatinny Arsenal, Dover, N. J., effective Sept. 1, 1958, was announced by the Department of the Army.

Maj. Gen. Robert G. Butler, formerly Deputy Commander, U. S. Communications Zone, Orleans, France, has been designated Commanding General of the new headquarters.

The U. S. Army Ordnance Special Weapons - Ammunition Command will be manned with a small staff of military and civilian personnel primarily drawn from the activities of Picatinny Arsenal and the Ordnance Ammunition Command (to be renamed) at Joliet, Ill., these two subordinate installations remaining as the main operating elements of the new command.

Gen. Butler emphasized that the establishment of the new command will permit management improvements and economies resulting from the assignment to

one individual of complete Ordnance responsibility and authority for special weapons and ammunition from inception to ultimate disposition. Coordination and supervision of atomic energy support of Ordnance Corps ammunition development will be one of the main tasks of the new headquarters.

Ordnance experience in the past few years has proved the advantages of assigning complete system or commodity management responsibility, along with the necessary authority, to a single field commander. Similar experience resulted in the creation of the United States Army Ordnance Missile Command at Huntsville, Ala., for guided missiles and rockets, the Department of the Army stated.

members are Charles C. Thomas and Norris D. Christopher, both of Ford Motor Co., Sheffield. Thomas holds a master's degree from the University of Alabama and prior to joining Ford was professor of accounting and economics at Florence State College. Christopher, a native of Athens, Ala., attended Athens College and is in the payroll department at Ford.

Morton Prouty, Alabama-Tennessee Natural Gas, chapter president, presided at the meeting.



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College Group Supports Missile Program at Missile Firing Lab Jobs

CAPE CANAVERAL, Fla. — A group of college students — plus one mathematics instructor — are making essential contributions to the nation's missile programs as Summer employes of the Army's Missile Firing Laboratory here.

They will shortly be departing for a year of academic work, enriched by a Summer's practical experience in their chosen field of work.

The Missile Firing Laboratory, a part of the Army Ballistic Missile Agency, launches all of the Army's large ballistic missiles and satellite carriers.

The 10 students employed by the Firing Lab are only a part of the total Summer workers who aid in the Army's missile development and testing programs. More than 200 college students have spent the Summer working at ABMA's headquarters, at Redstone Arsenal, Ala., and other elements of the Army Ordnance Missile Command located there.

The advantages of such a part-time employment program to the student are twofold: He earns money to finance his college education, and he is given the opportunity of working side-by-side with some of the country's leading missile-space engineers, scientists and technicians. The Army gains in that the students help carry forth vital work while regular employees get their vacations.

Five of the 10 Firing Lab student-workers have won scholarships to prominent colleges, and all stand at or near the top of their classes.

They work as trainees in such areas as mathematics, research, electrical engineering, missile guidance, data acquisition, and evaluation, and electronic instrumentation.

During the students' June to September work period, the Missile Firing Lab has prepared and launched several Redstone, Jupiter and Jupiter-C missiles. On

satellite, Explorer IV, was placed in orbit by the Army during the Summer months.

The Summer employes, and the type of work they have been doing, are as follows:

George M. Moore, 26, of Seneca, S.C., has been working in the Missile Firing Lab's guidance section. He is the son of Mr. and Mrs. T. S. Moore, 513 East Main St., Seneca. Moore graduated from Clemson A&M College in June 1958 with a B.S. degree in industrial management and mathematics. He is now working toward a B.S. in math, and plans to study for a master's at Clemson in the same field. He is a member of the Society for the Advancement of Management, and holds a Federal radio-telephone license.

George T. Pinson, a University of Alabama student, worked as a mathematical assistant during the Summer. He is the son of Mr. and Mrs. V. L. Pinson, 1106 Pinedale Rd., Cocoa, Fla. Pinson's father, with 12 years of experience in the Army's missile program, also works for the Missile Firing Lab as supervisor of the telemetry recording unit.

Young Pinson, 24, is a graduate of Butler High School, Huntsville, Ala. He will be awarded a degree in physics at Alabama during the Winter.

Marie V. Fiondella, 30, son of Mr. Nicholas Fiondella of 229 Portsea St., New Haven, Conn., has been working as a trainee in data acquisition and evaluation. He holds an M.S. degree from the University of Florida, Gainesville, and has taught mathematics there for three years.

Fiondella said he chose Summer employment with the Army Ballistic Missile Agency in order to "apply some of the mathematical theory and to better myself as a college instructor of mathematics. The better part of my teaching," he added, "brings me in contact with future engineers."

He is a member of the American Society of University Professors and the American Mathematical Society.

David J. Lackey, 19, of Lake

City, Fla., is a mechanical engineering student at the University of Florida. He has worked as a student trainee in the missile assembly and test section. Lackey is the son of Sergeant and Mrs. John W. Lackey, 616 S. Alachua St., Lake City. Upon graduation he plans to work as a missile engineer, and later enter the research area. At the University he is a member of the Phi Eta Sigma fraternity and the ROTC drill team.

Another Floridian, Travis Hill Gordon of Daytona Beach, has worked in the electrical engineering field. A student at the University of Florida, he is the son of Mrs. Maxine Gordon, 307 South Ridgewood St., Daytona Beach.

He graduated from Seabreeze High school, Daytona Beach, and like most of his student associates at the Army Firing Lab, is a member of the National Honor Society. Gordon, 19, holds a University of Florida citation for outstanding academic achievement.

Joel I. Tirscwell, 20, a physics student at Princeton University, has worked as a research trainee in electronics associated with missiles. He is the son of Alex Tirscwell, 2040 East 27th St., Brooklyn, N. Y.

Tirscwell is studying to be a research physicist. He is attending Princeton on a four-year scholarship. He is a member of the basketball team.

Ralph B. Snyder Jr., 20, son of Mr. and Mrs. Ralph B. Snyder of 1410 Poplar St., Denver, Colo., worked as a mathematics trainee. He also is a Princeton physics student studying under a four-year scholarship. Belleville, Ill., is his home town.

Snyder said it is "very exciting to participate, to some small extent, in the early development of missile and space technology."

The one girl in the group of summer students is JoAnn Hardin, daughter of Mr. and Mrs. Donald W. Hardin, Mims, Fla. She will enter the University of Florida this fall as a mathematics student. Her father is deputy program coordinator for the Missile Firing Lab.

Miss Hardin was salutatorian of the 1958 graduating class at Mims High School. She also was Miss Titusville High, and was selected for the School's D.A.B. Good Citizenship Award.



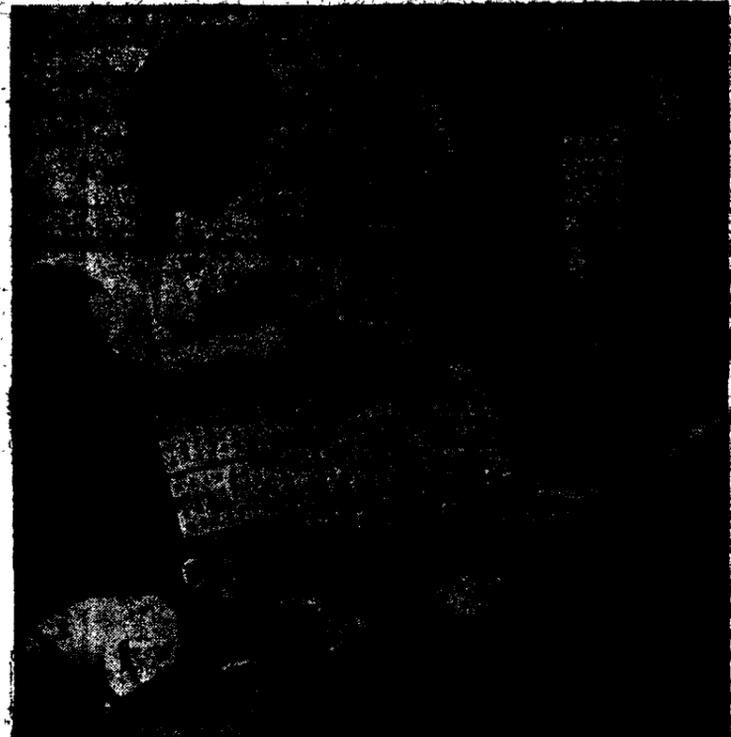
PRACTICAL EXPERIENCE — These college students have gotten practical experience in the missile field as Summer employes of the Army Ballistic Missile Agency's Missile Firing Laboratory at Cape Canaveral, Fla. They are Ralph B. Snyder, Jr., of Denver, Colo., a Princeton physics student (left); and Mark C. Smith of Birmingham, who is entering Georgia Tech this fall to study electrical engineering. They were employed in the Firing Lab's telemetry recording station. The Missile Firing Lab launches the Army's Redstone, Jupiter, and Jupiter-C missiles.

She formerly lived in Jacksonville, Ala., and there was selected Miss Jacksonville. She has worked this Summer as mathematical assistant and plans to make a career of mathematics, probably in the missile industry.

A Birmingham, Ala., student, Mark C. Smith, has been employed as an electronic instrumentation trainee. He is the son of Mr. and Mrs. Gerald A. Smith, 5206 7th Ave. South, Birmingham. Smith will enter Georgia Tech this fall to study electrical engineering. During high school

he won four science and math awards. He won the grand prize at the North-Central Alabama Science Fair, and is the recipient of two college scholarships.

L. S. Huff, Jr., 21, son of the Rev. and Mrs. H. S. Smith, Sr., of Bartow, Fla., is an electrical engineering student at the University of Florida. He has worked as an engineering trainee, specializing in telemetry and radio communications. He graduated in 1953 from the Summerlin Institute, Bartow, and expects to complete college work in 1958.



SUMMER STUDENTS — Shown here are two of the college students who have been employed by the Army Ballistic Missile Agency's Missile Firing Lab, Cape Canaveral, Fla., during the Summer. They are George T. Pinson of Cocoa, Fla., a University of Alabama physics student; and JoAnn Hardin of Mims, Fla., an entering freshman at the University of Florida. They are shown at a computer control panel. Both have worked in the computer field during the summer. The firing Lab launches all of the Army's Redstone, Jupiter, and Jupiter-C missiles.

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At the Service Club

The "Fiesta d'Addio" for the Italian Air Force troops was very successful Friday night. The Night Club theme was used and the decorating and lighting committees did a wonderful job. Thanks to Elliott Pomerantz, Signal Det., Unassigned Instructor, Enrico Deiana, Luigi Dell'Aversana, Elio Cice, John Spiro, Bill Walek, and SP4 James Price, Det. A, ARGMA, Project Engineer at ARGMA, who did the cartoon decorations in the buffet room. Pfc. Marshall Lias, Det. B, ABMA, Mechanical Engineer at ABMA, painted the Leaning Tower of Pisa 15 feet high. The cartoon decorations were painted by Moncini Renato, with the Italian Air Force troops. The unique lighting was handled by Pvt. Don Poole, Lighting Technician, from the Teleprompter Task Group; Cpl. Leland MacDaniel, Signal Instructor at SSM; and Cpl. Carl Olberg, Signal Instructor at SAM.

A variety of delicious food was arranged and served from 8:30 to 10:30 by a group of Huntsville Rotarians and wives, assisted by Huntsville Junior Hostesses and a group of Italian enlisted men.

As American as apple pie or ham 'n eggs, square dancing can be likened to a common denominator of the most wholesome socializer. The Square Dance Club has been organized at the SC and we found that there is a considerable amount of enthusiasm in this activity. Austin Roberts, AOMC, has started a series of classes and we believe that the class is going to be very popular. It is an activity that may be thoroughly enjoyed not only by those who are dancers, but by the many who are not. If you do not want to dance, come by and

enjoy the activity by being a spectator. The very simplicity of the figures used and the informality of those participating makes it possible for the uninitiated to get into the fun of it within a very few minutes. We plan to have a WESTERN SQUARE DANCE in October, so we are now learning a few basic steps such as Sashay, Do-Si-Do, Texas Star, Promenade, etc. Join in the fun with the Square Dance group every Thursday night at 7:30 in the SC lounge.

The next big dance is on Sept. 23 and you will want to "Get the Dancing Habit with CHUCK CABOT AND HIS ORCHESTRA. The dance will begin at 8 o'clock and continue until 12 o'clock. The Birmingham, Chattanooga, and Huntsville Hostesses will be guests of the club.

The bus to Birmingham for a

CHEMISTS SET BOAT TRIP SAT.

A boat trip from Tuscaloosa up the Black Warrior River is scheduled Saturday, Sept. 20, for members of the Alabama Chapter of the American Institute of Chemists, it was announced by Martin Williams, chapter secretary.

The boat will leave at 4:30 p.m. from the Gulf States Paper Co. dock. A supper of barbecued chicken will be served aboard the boat. The boat is expected to return to the dock about 9:30 p.m.

Members and guests are invited, Williams said. Interested persons should contact him at Ext. 3795 or 3736 no later than Thursday afternoon.

A feature of the board-shiy meeting will be an after-dinner speech on "The Chemical Company in the Community" by Richard L. Moore, manager of Chemical Public Relations for the W. R. Grace Co., New York City. Moore is former chairman of the New York Chapter of the AIC. He is presently national counselor and chairman of the qualifications and public relations committee of AIC. A native of New Jersey, he received a B. S. degree in chemistry and a Master's degree in economics from Bucknell University.



NASA GROUP VISITS—Representatives of the newly organized National Aeronautics and Space Administration confer with Dr. Wernher von Braun (right), of the Army Ballistic Missile Agency during a recent orientation visit to Redstone Arsenal. NASA representatives shown above are, left to right: Paul E. Purser, William T. O'Sullivan, John Howard Disher, Leonard Rabb, and Clinton Eugene Brown.

tour, picnic and dance will depart from the Service Club at 1:30 Saturday, Sept. 20. Make reservations early if you plan to take this trip.

R. Clyde Nestler will show his European color slides in the TV room Friday night at 8:15. Refreshments will be served at 9.

Girls, we need you in the Wednesday night dance classes. The beginners' class begins at 7:30 p.m. and the advanced class starts at 8:30. We are now taking reservations from the EM for the class which will start on Oct. 15.

The Song Festival is scheduled for September 26 at 7:30 p.m. Refreshments will be served at intermission to all attending the festival.

We will say good-bye to a portion of the Italian Air Force this week. They are departing for Texas. We certainly have enjoyed working with this group and we express our sincere appreciation for all of the cooperation and assistance we have received from them. We hope their replacements will join us in the activities at the Service Club.

FRANCES

Organ Recital Slated At Post Chapel By SP4 Wm. Shambaugh

The Post Chapel will present SP4 William H. Shambaugh, Hq. & Hq. Det. of the Unit Training Center, OGMS, in an organ recital, Sunday, Oct. 5, at 1730 hours.

The program will include composers of the American and Belgian contemporary schools, and also music written by English, French, and German composers.

SP4 Shambaugh is a graduate of Bowling Green State University, Bowling Green, Ohio, where he received a Bachelor of Arts degree in music. He is the son of Mr. and Mrs. Robert L. Shambaugh, Fort Wayne, Ind.

Movie Schedule

Wednesday, 17 Sept., "The Mississippi Gambler" starring Tyrone Power, Piper Laurie and Julia Adams. Time 1315, 1745, 1945, and 2145.

Thursday and Friday, 18 and 19 Sept., "No Time for Sergeants" starring Andy Griffith. Time 1345, 1745, 1945 and 2145.

Saturday 20 Sept. SPECIAL MATINEE, "Utah Blaine" starring Rory Calhoun. Time 1000 hours.

Saturday 20 Sept. "The Wings of Eagles" starring John Wayne, Dan Dailey and Maureen O'Hara. Time 1745, 1945, and 2145.

Sunday 21 Sept. "Gun Runners" starring Audie Murphy, Eddie Albert, Gita Hall. Time 1400, 1745, 1945, and 2145.

Monday 22 Sept. "The Blob" starring Steven McQueen, Aneta Corsciant, Earl Rowe. Time 1315, 1745, 1945, and 2145.

Tuesday 23 Sept. "Appointment With a Shadow" starring George Nader, Joanna Moore. Time 1745, 1945, and 2145.

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SEPTEMBER 22 — FALL QUARTER 1958-59 — DECEMBER 16

MONDAY—WEDNESDAY 5:50-7:55

COURSE	Prerequisite	Sem. Hrs.
1Accounting 1-Principles of Accounting	None	3
AE 91-Aerodynamics 1	Physics 5, Math 49	3
Biology 1-General Biology (Plant) (Lab. Thurs. 5:50-10:20)	None	4
Chemistry 2-General Chemistry (Lab. Thursday 5:50-10:20)	Chemistry 1	4
2Drawing 31-Engineering Drawing (5:50-10:10)	None	2
2Drawing 32-Engineering Drawing (5:50-10:10)	Drawing 31	2
3English 6-English Literature	English 1, 2 & 5	3
English 9-American Literature	English 1 & 2	3
English 75-English Novel	9 hrs. of English	3
History 1-History of Western Civilization	None	3
Mathematics 01-Elementary Algebra (Section 1)	None	NC
Mathematics 11-Algebra (Section 1)	None	3
Mathematics 15-Trigonometry (Section 1)	Mathematics 11	3
Mathematics 49b-Differential & Integral Calculus	Mathematics 49a	2
Mathematics 76-Solid Analytics	12 Hrs. of Mathematics	3
MH 82-Dynamics	MH 81, Mathematics 51	3

MONDAY—WEDNESDAY 8:05-10:10

Accounting 2-Principles of Accounting	Accounting 1	3
AE 92-Airplane Performance	AE 91, Math 51	3
4Astronomy 1-Introduction to Astronomy	None	2
Biology 7-Vertebrate Zoology (Lab. Tues. 5:50-10:20)	Biology 2	4
Business Law 51-Introduction to Business Law	Perm. of Instr.	3
Chemistry 1-General Chemistry (Lab. Tues. 5:50-10:20)	Mathematics 11	4
Educational Psychology 63-Ed. Psychology	Perm. of Instr.	3
5EM 68-Fuel Analysis	Chemistry 2	3
English 1-English Composition (Section 1)	None	3
English 2-English Composition (Section 1)	English 1	3
GES 12-Engineering Preview	Mathematics 11	2
History 60-Problems in American History	History 21 & 22	3
Home Economics X-Management in the Home	None-Wed. 7:30-9:30	NC
Mathematics 02-Plane Geometry	None	NC
Mathematics 95-Differential Equations	Mathematics 51	3
5MH 109-Fluid Mechanics	MH 82	3
Political Science 3-Functions of American Government	Political Science 1	3
Physics 6c-Technical Physics (Heat, Light, & Sound) (Lab. Monday 5:15-8:15)	Mathematics 15	3
Russian 1X-Elementary Russian	None-Mon. 8:05-10:10	NC

1Five laboratory sessions required. Time to be announced.

2In order to meet requirements for time two additional class periods will be required. Dates to be announced.

3English 5 required before 6 in the College of Arts and Sciences.

432 hours actual lecture. Certain days there will be no class.

5Laboratory sessions on Saturdays required at Campus. These laboratory periods to be arranged.

TUESDAY—THURSDAY 5:05-7:55

Accounting 3-Accounting Analysis	Accounting 2	3
Art 7a, 7b, 8a, 8b-Design (Tues. 5:50-10:10)	None	1
6Art 37a & 37b-Beginning Ceramics (Thurs. 5:50-10:10)	None	1½
Drawing 42a-Production Illustration (Tuesday only 5:50-10:10)	Perm. of Instr.	1
Economics 11-Principles of Economics	None	3
7E. E. 3-Direct Currents Circuits	Phys. 6, Math. 49	3
English 03-Fundamentals of English	None	NC
English 1-English Composition (Section 2)	None	3
English 2-English Composition (Section 2)	English 1	3
French 1-Elementary French	None	3
French 2-Elementary French	French 1 or 1 yr. high school French	3
German 1-Elementary German	None	3
History 47-History of England to 1660	Sophomore Standing	3
Mathematics 01a (Part a)-Elementary Algebra (This is recommended for those with no background in algebra)	None	NC
Mathematics 15-Trigonometry (Section 2)	Mathematics 11	3
Mathematics 25-Analytic Geometry & Calculus	Mathematics 15	3
Mathematics 51-Differential & Integral Calculus	Mathematics 49a:49b	3
Mathematics 90-Introduction to Real Analysis	Mathematics 51	3
ME 106-Heat Transfer	ME 51, or ME 102	3
Spanish 2-Elementary Spanish	Span. 1 or 1 yr. high school Spanish	3

TUESDAY—THURSDAY 8:05-10:10

Accounting 100-Advanced Accounting	Accounting 53 Cert. Cred.	
English 5-English Literature	English 1 & 2	3
English 51-Fiction Writing	Perm. of Instr.	4
	Class ends Jan. 10	
German 4-Intermediate German	German 3	3
History 21-History of United States to 1865	None	3
Marketing 6-Business Correspondence	English 2	3
Mathematics 01-Elementary Algebra (Section 2)	None	NC
Mathematics 11-Algebra (Section 2)	None	3
Mathematics 20-Elementary Math Statistics	Mathematics 11	3
Mathematics 49a-Differential & Integral Calculus	Mathematics 25	3
ME 51-Thermodynamics	Math. 51 & Phys. 6	3
MH 81-Statics	Math. 51 & Phys. 5	3
MTE 91-Engineering Metallurgy	Chemistry 2, Phys. 5	3
Physics 5c-Technical Physics (Mechanics) (Lab. Wednesday 5:15-8:15)	Mathematics 15	3
Psychology 1-Introduction to Psychology	None	3
Psychology 29-Applied Psychology	Psychology 1 or 3	3

6In order to meet requirements for time one additional art class will be required. Dates to be announced.

7Problem sessions totalling 28 hours required in addition to the lecture sessions.

Classes not enrolling sufficient number of students will be postponed until the next term.

Persons registering for English 1 and Mathematics 11 for credit will be required to take entrance examinations in those fields. These examinations are given at the Center, September 24, at 5:50 and 7:55 p.m.

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TRAILER SPACE — New Shady Acres Trailer Court now open, spaces limited, near new Madison Pike School, Gate 9 & stores. Modern, spaces 30x55 all in the shade, 3/4 miles west of Jordan Lane on Decatur Highway 20 in rear of Warehouse Sales Co., Phone JE 6-5202. WAYNE H. HALL, 1005 Governor's Drive W., Decatur Highway. 1tc

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Paging Betsy Ross-- Stitch, Stitch, Stitch!

NEW YORK (AFPS) — When Old Glory takes on a new look—a 49th star for Alaska—the Army's Heraldic Division is going to have dollar signs as well as stars in its eyes.

The division has the job of buying flags for the Army, Navy, and Air Force. According to a recent estimate, there are 40,000,000 American flags in the country today. A goodly percentage of these are, of course, in use by the Armed Services.

They are obsolete with Alaska joining the Union, and no one can say with authority what the cost of replacement or alteration will be. But one thing's for sure—it will be steep enough to make the taxpayer wish Betsy Ross was still around to organize a sewing circle with a 40,000,000 membership.

So far, government agencies have received about 400 proposals for the 49-star flag. Several of these would put the stars in circles; others would drop the blue field, which is against the law. One would have the stars spell out USA, and still another would put the 49th star in a row by itself.

One logical solution would be seven rows of seven stars. But it probably will fall to President Eisenhower to decide who will pick the new design.

The last two states, Arizona and New Mexico, joined the Union in 1912. At that time President Taft appointed a flag commission of Army and Navy officers headed by famed Adm. George Dewey. The flag then had six horizontal rows, two with seven stars and four with eight. The commission simply added one star to the rows of sevens.

Incidentally, a law dating back to 1818 says that when a new state is admitted to the Union the additional star will be added to the flag on the following Fourth of July.



ROCKET PIN-UP—This week's Rocket Pin-up is Miss Gay Hind, who works in the Industrial Division of the Army Rocket and Guided Missile Agency. A resident of Arab, Gay will be a sophomore at Birmingham-Southern College this Fall. The picture above was taken by amateur photographer Jimmie Taylor, of ARGMA's Field Service Division. The interesting formation of boards which makes a perch for our pin-up is part of an old covered bridge near Joppa, Ala., on the road between Arab and Cullman. The kitten at bottom of photo was just a stray which wandered up and decided to get into the act.

FERN AND FUNGUS ON RANGER MENU

FORT BENNING, Ga.—A cast-iron stomach or a gourmet's palate. Neither is a requirement for Army Ranger training but either might help.

One thing Rangers have to learn in a hurry is to live off the land and they get some of their education in the Florida swamps

where wildlife is abundant.

Typical items of the "Swamp Rat Lodge" might include alligator snapping turtle soup with reindeer moss or a chef's salad of bracken fern and bittergrass with snake vine shoots to whet the appetite.

hickory-smoked cottonmouth water moccasin or baked box turtle in the box, with side dishes of fresh, green, raw, tough, tasteless palmetto hearts or boiled coral fungus, washed down with boiling creek swamp water (minnows strained before drinking) or saffras tea.

These could be followed with barbecued Holly Creek alligator,

Rangers learn to eat these or go hungry.

FOR SALE — 24-ft. Chris-Craft runabout, double plank Philipian mahogany—hull has three layers of chrome fiberglass up to 3" above the water line. Has new windshield, speedometer and tarpaulin to cover entire boat. Seats 9 comfortably. Call JE 4-7715 after 5:00 p.m. or ext. 5865. A. G. SMITH. 9-17p

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JAMES C. SMITH

James C. Smith Is 'Safe Supervisor'

James C. Smith, assistant foreman of Systems Support Equipment Laboratory, ABMA, has been recommended highly by several fellow employes as the "Safety Supervisor of the Week." Smith came to work at ABMA in August of 1951 as a sheet metal journeyman. Prior to that time, he served in the army during World War II and the Korean Campaign.

He was born, reared, and presently resides in Athens, Alabama. He is married and has two children, a daughter 15 and a son 10. He is a Master Mason and his hobbies include pleasure boating.

He has never sustained a lost time accident since he has been employed in Civil Service. None of the men under his supervision have ever sustained a lost-time accident while working for him.

Smith has served continuously on the SSE Laboratory Safety Committee since it was established. He is a staunch advocate of the Arsenal Safety Program and believes that safety is definitely the responsibility of each employe. As is evidenced by the areas under his supervision, he particularly stresses housekeeping in his active promotion of the Safety Program.

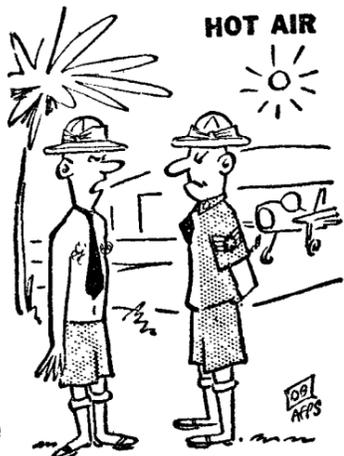
Bridgitte's Betrothal Brings Gloom to French Contingent at OGMS

Last Wednesday was a sad day for the young French officers and men at the Ordnance Guided Missile School. A notice with a black border around it appeared on the French section of the big NATO bulletin board and throughout the day Frenchmen approached it, read, and moved away mournfully and quietly. A curious American approached the bulletin board to see what catastrophe was being announced.

Inside the black border was a clipping from a newspaper. It contained the heart-breaking news of the engagement and approaching marriage of the sultry young French movie actress, Mademoiselle Brigitte Bardot.

"Brigitte has no right to do this to us," said one French missile student. "Each one of us felt that she belonged to us personally."

It's a gloomy day for fifty million Frenchmen—well, for 49,999,999 of them anyway!



"All the order says is 'ties will be worn!'"

Rhymes of the Times

ALAS AND ALACK,
HIS FRIENDS
NOW MOURN
THE DEMON WHO
SPEEDED
AS HE TOOTED
HIS HORN.
... Ages 12
AFPS



Tourist: "What's the speed limit through this quaint village?"
Native: "There ain't none. You city folks can't go through here fast enough to suit us."

Operation Blonde



Rube: "I always wondered where all the Smiths came from until I got here to the big city."

Jack: "Then what happened?"
Rube: "I saw this sign, 'Smith Manufacturing Co.'"

The longleaf has more resistance to fire than other southern pines.



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