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The Redstone Rocket

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VOL. VII; NO. 1

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MAY 7, 1958



BRIG. GEN. J. A. BARCLAY

Gen. Barclay Cites Space Age Reserve Need to AROA Group

We must think in terms of a 'Space Age Reserve' because we have already entered this new dimension," declared Brig. Gen. J. A. Barclay in an address to the Alabama Reserve Officers Association last night at the Russel Erskine Hotel.

Turning to the Army Reserve as an example, Gen. Barclay described it as "a ready force composed of organized troop units and experienced individuals" with the mission to "furnish trained manpower to support war plans in event of mobilization."

Gen. Barclay pointed to the benefits derived from the Reserve Forces Act of 1955, which provides that persons enlisted or inducted into active service have an obligation to not only be available, but to continue to train in the Reserve Forces after release from active duty. By June 30, he said more than 100,000 six-month trainees will have completed their active training. "This is truly a (See GEN. BARCLAY on Page 2)

Solons Hear ABMA, ARGMA Missile Dollar Testimony

* * *

Gen. Medaris Tells Of Jupiter Program; Orbital Vehicles

Small business firms, employing less than 500, received 23.9 percent of the Army missile dollars allotted by the Army Ballistic Missile Agency from the time of its activation, Feb. 1, 1956.

This was reported to the Senate's Small Business Committee last week by Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command.

Testifying before the Committee (See MEDARIS TELLS, Page 3)

* * *

Small Firms Received One-Fourth of Funds Gen. Shinkle Reveals

Twenty-four cents out of each dollar spent by the Army Rocket and Guided Missile Agency for rockets and missiles in the fiscal year 1957 and the first part of fiscal year 1958, went to small business firms employing less than 500 persons. This allocation amounted to \$152,000,000.

Brig. Gen. J. C. Shinkle, ARGMA Commander, in his testimony before the Senate's Small Business Committee last week, also revealed that the expected distribution of guided missile dollars to industry for the fiscal year 1959 is anticipated to total over more than \$769,000,000, \$184,680,000 of which will be sub-contracted to small business.

Gen. Shinkle indicated that the (See SMALL on Page 3)

GEN. HINRICHS TELLS NEW PROGRAM TO ENCOURAGE INDUSTRY TO PARTICIPATE IN ARMY R&D PROJECTS

A new program designed to encourage industry to participate in Army research and development projects was announced last week by Maj. Gen. John H. Hinrichs, Chief of Ordnance.

Speaking to a luncheon meeting of the American Ordnance Association in Washington, General Hinrichs said the new procedures enable any qualified civilian organization to find out what new things the Army wants developed.

The Army will furnish requirements information to organizations which have suitable research and development capabilities. The data may include military or technical characteristics

and state-of-the-art information.

Implementation of the new program by the Army Ordnance Missile Command here has been directed by Maj. Gen. J. B. Medaris, the Commanding General. AOMC is responsible for much of the Army's research and development effort since it controls all rocket, missile and satellite development programs assigned to the Army.

Gen. Medaris said that interested organizations, now engaged in research and development contracts with the agencies of his Command, may apply directly to Procurement Branch, Industrial (See GEN. HINRICHS on Page 2)

New Post Exchange Planned; Bids for Work Called May 20

A new main post exchange is to be constructed at Redstone Arsenal. According to an announcement made by Col. Harold E. Bisbort, U. S. Army District Engineer, bids for the job will be opened at 11 a. m. on May 20, 1958 at the Corps of Engineers office, 2301 Grant Street, Mobile, Ala.

The new exchange will be a one-story reinforced concrete building with masonry wall panels, having a floor area of approximately 11,600 square feet. The contract for its construction will include the provision of all utilities, including air conditioning as well as access drives, parking areas, and walks.

The exchange will serve military personnel stationed at the installation.

OGMS PERSONNEL HIT 3,000 MARK

The Army Ordnance Guided Missile School this week passed the 3,000 mark in personnel and has become the third largest educational institution in Alabama in numbers of students, faculty and administrative workers, according to Col. H. S. Newhall, commandant. Only the University of Alabama and Auburn exceed it in students and faculty.

Col. Newhall said these figures at OGMS might well double within the next year. In 1955, the School's strength was 788; in 1956, 1,088; and in 1957, 1,746.

Some 1,300 students are now taking courses at the "Space Age University" which has a campus of 87 buildings and uses equipment unofficially valued at more (See OGMS on Page 3)

JUPITER C Missile, Satellite Exhibits Slated For AF Day

The biggest attraction for the public for Armed Forces Day May 17 on Courthouse Square in Huntsville will be the display of a Jupiter C missile and a satellite similar to the one launched as Explorer I.

The Army Ballistic Missile Agency is sponsoring this part of the Army Ordnance Missile Command exhibition.

Items from the Ordnance Missile Laboratories of the Army Rocket and Guided Missile Command will include missile boosters, a Little John and launcher, and a Thiokol picture board showing some of the developments made in rocket and guided missile motors.

Two of the Nike family will be on display from the Ordnance Guided Missile School, the Nike Ajax with launcher and generator, and the Nike Hercules on a trailer. The Corporal Missile will (See SATELLITE on Page 3)

LET'S GO, WERNHER

Complete Story of Explorer Launchings Slated in BIG PICTURE Television Show

A forthcoming BIG PICTURE release showing on Sunday, May 11th will tell the complete story behind the launching of the Army Satellites, the Explorers.

Now, combining some late stock footage from the Army Ballistic Missile Agency restaged sequences and other footage shot especially for this release with film shot during the launchings at Cape Canaveral, continuity has been added and the complete story is presented in a dramatic, moving fashion.

Suspenseful empathy is conveyed at the very start of the film when Maj. Gen. J. B. Medaris, Army Ordnance Missile Command, Commanding General, tells his staff that the Army has been charged with the mission of putting a satellite in orbit and he has pledged fulfillment of that mission within 90 days. He turns to Wernher von Braun, the Nation's top missile expert, and says "Let's go, Wernher!"

From this point the viewer is taken to ABMA, to the Jet Propulsion Laboratory where the propellant was developed and sees the satellite itself assembled. He sees the exhaustive tests made of all the component parts of both the carrier and baby moon, and follows step by step the progress made by the Army in its effort to beat the 90-day deadline.

Possibly the most dramatic moments in the film come during the countdown prior to the blast-off on the 84th day. This period and the precise check-off of every minute detail is charged with suspense even though the viewer knows that Explorer I went into orbit.

Narration, story content, music-

al scoring and photography combine to make this a documentary (See COMPLETE on Page 2)

Gen. Medaris Visits Alma Mater in Ohio; Reviews Cadet Corps

Major General J. B. Medaris visited his alma mater, Ohio State University, to participate in the annual Engineering and Architecture Conference Friday.

He reviewed the ROTC Cadet Corps Thursday, spoke to the 1,600 future Army officers briefly, and shook hands with the Cadet Commander of "F" Company, of which he had been the Captain during student days.

Later that evening General Medaris (See REVIEWS on Page 4)

Eight Named to Key Staff Positions at Arsenal by Col. O'Keefe

Four lieutenant colonels, two majors and two civilians have been named to key positions at Redstone Arsenal, it was announced today by Col. Keith T. O'Keefe, Redstone Arsenal Commander.

Redstone Arsenal is the support organization on the installation. This element of the Command serves Command Headquarters, ABMA, and ARGMA, as well as the Ordnance Guided Missile School, in common areas.

Among the Arsenal's responsibilities (See EIGHT on Page 4)



WINDUP CONFERENCE TODAY— Moderators for the Joint Army-Navy-Air Force Solid Propellant Group's fourteenth meeting pose with Brig. Gen. John A. Barclay, ABMA Commander, who welcomed the group Monday morning at the opening session. Left to right are: Richard Winer of the Allegheny Ballistics Laboratories; D. D. Ordahl, Naval Ordnance Test Station; Dr. H. M. Shuey, Rohm and Haas, Redstone Division; Gen. Barclay, B. R. Adelman, Ramo-Woolridge Corp.; and Dr. W. D. Niederhauser, Form and Haas. All moderators with the exception of Gen. Barclay acted as chairmen for the different sessions which end today. Approximately 600 persons representing the military services and industry were guests of the Army Ordnance Missile Command.

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Holtzhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Army Ballistic Missile Agency, Redstone Arsenal and Ordnance Guided Missile School in accordance with an agreement between the publisher and the Public Information Office, Redstone Arsenal, Huntsville, Alabama.

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Gen. Barclay

(Continued From Page 1)
vastly improved Reserve," he added.

"The Reserve Officers' Training Corps adds greatly to the deterrent strength of the Army." "From this program," he stated "14,000 new junior officers are graduated each year, including the 725 Distinguished Military Graduates who are commissioned in the Regular Army."

As indication of the reality of "Space Age Reserve" he pointed out that "the Army . . . will test the capability of Reservists to assist in manning NIKE air defense units." Furthermore, he continued, "the Army must maintain adequate forces in being to serve as a shield and provide powerful mobile strategic forces to meet the initial situation . . . In event of nuclear conflict, we believe that the side having greater residual mobilization capacity would eventually gain control of the situation . . . The Army intends to achieve a significant degree of mobilization if circumstances warrant."

Describing the newly organized U.S. Army Ordnance Missile Command, Gen. Barclay declared, "it is not another layer of personnel inserted between the man who has the mission and the Department of Army level from which he must get approvals and funds . . . It is not simply a means of consolidating the operations of Redstone Arsenal.

"The objective of the Command is to permit maximum and most effective utilization of all resources available to the Army in the missile field, and to create an inter-supporting and inter-related organization which will assure the attainment of that goal."

"The Command," he continued,

"is the largest field organization of any Army technical service. In the next fiscal year it will be responsible for the intelligent handling of almost two billion dollars. It employs 23,000 men and women, of which 18,000 are civilians and 5,000 are military. Another 9,000 military are directly influenced by its operations."

Turning to the mission of the Command, Gen. Barclay pointed out that it "manages 15 major weapons systems from design, research and development, prototype production, testing, production for use, storage, maintenance and supply in the field."

As subordinate agencies of the Command, Gen. Barclay named: Jet Propulsion Laboratory, Pasadena, Cal.; White Sands Proving Ground, New Mexico; long-range launching facilities at Cape Canaveral, Fla.; and Redstone Arsenal Post Command, Army Rocket and Guided Missile Agency and Army Ballistic Missile Agency, all at Redstone Arsenal.

Indicating the scope of work involved, General Barclay pointed out that "during the next year, ARGMA will be responsible for expenditure in the neighborhood of \$1,000,000,000." ABMA programs, he continued, will "involve more than \$650,000,000."

Gen. Barclay indicated that Command activation has resulted in greater emphasis on the concept of the systems manager. "We cannot limit our concern to the providing of new weapons and equipment," he explained, "because hardware alone does not constitute an integral part of the Army. Many other factors are involved which must be contributed by others outside the responsible technical service, in charge of system development, in order to make the system fully operable and useful . . .

"While the manager cannot direct and control all . . . actions not within his command which are necessary to make the system a complete member of the Army family, he should monitor all of them. He must know what is happening, he sees to it that every action comes along in proper time scale."

"It is in this area," declared Gen. Barclay, "that the Command may render greatest service, for it will survey the field continuously on all items required to make weapons systems useful in their proper environment and advise the responsible agencies when it appears they are falling behind."

Turning to the need for cooperative efforts, Gen. Barclay

Gen. Hinrichs

(Continued From Page 1)
Operations Division (Attn: OR-DAB-IPE), Army Ballistic Missile Agency, Redstone Arsenal, Ala., and to Chief, Research and Development Division, Army Rocket and Guided Missile Agency, Redstone Arsenal, Ala., for information on qualitative development requirements.

Organizations which do not have Ordnance research and development contracts and which desire to expand their activity in this direction should query the nearest Ordnance District Office. In Alabama, the Office is located in Birmingham and serves adjacent states as well.

District Offices will tell inquirers how they may qualify and will then refer their queries to the Army Ordnance Missile Command or to other Ordnance installations and activities depending upon the possible use to which the industrial capability may best be assigned.

Complete

(Continued From Page 1)
of an important phase of American history.

Channel 6, WBRC-TV has scheduled showing of the Big Picture at 11:30 A. M. DST. Check schedules for other showings.

Auburn, MIT Students Tour AOMC Facilities

HUNTSVILLE, Ala. — Two student groups, the Auburn Chapter of the American Rocket Society and a group of graduate students from Massachusetts Institute of Technology, toured the Army Ordnance Missile Command last week.

Both groups were guests of the Army Ballistic Missile Agency, Civilian Personnel Office.

The 25 students visiting May 1, were led by Professor William Sherling, associate professor of aeronautical engineering. Among areas visited were the Static Test Facility, the Fabrication Lab, the Control Office and the Development Operations Division Office. Sponsor was Ernest C. Spivey of the ABMA Civilian Personnel Office.

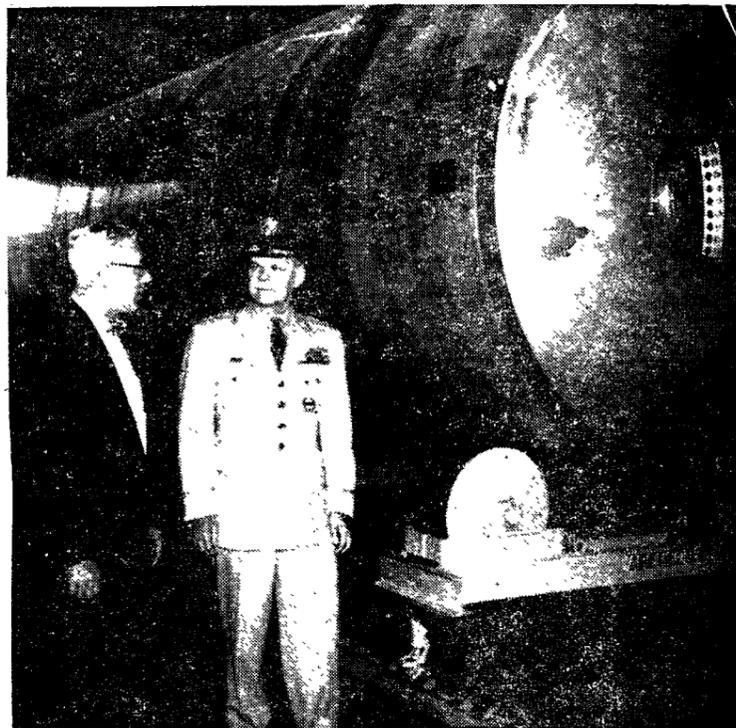
The 15 MIT graduate students are currently taking advanced training at Oak Ridge, Tenn., in cooperation with the Union Carbide Corp., operator of the government facility there. They toured the Command April 29, viewing several testing, fabrica-

tion and research operations. Leader of the MIT group was T. W. Mix. Howell Riggs of the Personnel Office sponsored the visit.

pointed out that "the finest kind of cooperation exists between my organization and the Air Force as we work together day-by-day to bring the JUPITER to its deployment.

"What is mistakenly identified as inter-service rivalry is actually project rivalry; that is, the natural and keen competition between missile development teams. Exactly that kind of spirit built the American industrial system. In this case, it contributes to the accelerated development of long-range, automatic weapons essential to our defense."

In conclusion, Gen. Barclay assured the members of the Association that "the Regular Army fully appreciates the importance of an adequate and fully trained Reserve . . . Men who leave their jobs, professions and businesses, accept personal sacrifice without complaint, and render valiant service to the nation have earned the undying esteem of the professional officer."



NATO GENERAL HERE—General Leon W. Johnson, NATO Deputy Air Commander, is shown on a tour of the Army Ballistic Missile Agency's Fabrication Laboratory last week with F. D. McDermott, Technical Program Coordinator of the Lab. General Johnson's visit here was for the purpose of discussing the major missiles under development by the Army Ordnance Missile Command; primarily the Jupiter IRBM missile, which will be employed operationally by the Air Force.

Third Army Talent Winners to Entertain

Finalists in the recent Third United States Army All Army Entertainment Contest will present a talent show at the Post Theatre on May 7 at 1300 and 1830 hours. Servicemen will be

admitted free to the matinee and evening performance.

Featured in the show will be the "Vibes," a vocalist group presenting "Day-O" and "When the Saints Go Marching In." Female vocalist, Pfc Claudette Roberts, guitarist, Pfc Walter Kopycinski and vocalist, Sergeant Willis M. Brown will also present selections.

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(Continued From Page 1)

in Washington, D. C., Gen. Medaris said ABMA, which he commanded until 1 April, spent \$520,300,000 in 1956, 1957 and up to March 1, 1958, in the REDSTONE, JUPITER and JUPITER C missile programs. Small business received \$124,400,000 of this sum.

In addition, Gen. Medaris disclosed, the prime contractors in ABMA's programs passed on 19 percent of the dollars paid them by the Army to small business firms. The prime contractors are Chrysler Corporation, Ford Instrument Co., and North American Aviation.

Of 1,669 procurement actions transacted by the Missile Agency from July 1, 1956 to March 1, 1958. 1,574 were for less than \$100,000 each. Many of these were for applied research. Of the 1,574 procurements, 51.3 percent went to small business organizations.

Gen. Medaris also disclosed that for the period from Feb. 1, 1956 through June 30, 1958, the Missile Agency's total funding was divided among programs as follows:

- JUPITER IRBM System 64%
 - REDSTONE Missile System 31%
 - PERSHING Missile System 2%
 - Orbital Vehicles 3%
- Individual programs were described by Gen. Medaris as follows:

REDSTONE Missile Program: 87% of total funds went to industry, 2% to other Government agencies and 11% was retained by the Missile Agency in FY 1956, 1957 and 1958. For FY 1959, industry will receive 93% because the system is now in full production.

JUPITER Missile Program: 84% of total funds went to industry, 1% to other Government agencies and 15% was retained by the Missile Agency in FY 1956, 1957 and 1958. For FY 1959, the division is exactly the same.

PERSHING Missile Program: 95% of total funds for FY 1958 went to industry, 1% to other Government agencies and 4% was retained by the Missile Agency. For FY 1959, industry will receive 93%, other Government agencies 2% and the Missile Agency, 5%.

Orbital Vehicles — In FY 1958, industry received 82% of the funds, other Government agencies 6% and the Missile Agency retained 12%. The same distribution will continue in FY 1959.

(Continued From Page 1)

1959 missile dollar division was based on the previous year's percentages and an anticipation that "no less effort by small business and most probably increased participation as new programs become more active in the industrial phase."

Gen. Shinkle stated that in determining items which are suitable for small business, it is the policy of the Army Ordnance Missile Command to require that the small business specialist at the Command have access to all procurement actions.

Gen. Shinkle noted that the next priority effort is applied ground support equipment. He further explained that the term included missile and ground guidance and control test equipment, and vehicles.

"We are proud of our record in the missile field and attribute much of our success to the fact that we have solicited and obtained outstanding contribution from small business," Gen. Shinkle testified.

Satellite

(Continued From Page 1)

its erector and service equipment will also be on display with a Lacrosse missile on its mobile launcher.

Another feature from ABMA will come from the Signal Office. A closed circuit TV will be on display in the North hall of the Courthouse. Visitors can walk in front of the TV cameras and see themselves on the receiving set as they would the visitors on any of the guest shows.

The Air Force expects to have two displays on the Square, one a model of the Arnold Engineering Development Center test facilities for the Jupiter and other big missiles.

The Illustration Branch of the Industrial Division ARGMA is preparing 25 posters to be placed in windows around the City of Huntsville.

In addition, the Industrial Division is furnishing a window display for the Huntsville Utilities Building which will trace the history of rocketry.

The Chaplain's Office at Redstone Arsenal is preparing a display for a window of the Federal Savings and Loan Building.

The Engineering Office of AB-

(Continued from Page 1)

than \$75,000,000.

The faculty and staff required to instruct the students and to maintain the equipment and buildings numbers more than 1,470 persons, including Army Signal Corps Personnel and the Unit Training Center of the Missile School which activates and trains military units which are deployed world-wide in support of tactical maintenance units.

The actual teaching staff includes over 500 instructors and supervisors, Col. Newhall said, pointing out that a large number of those listed as faculty are engaged fulltime in the preparation of the curriculum, textbooks, and working manuals and materials for the rapidly changing courses in missile and rocket maintenance, repair, and use.

Numbers of U.S. Army, Air, Force, Navy, and Marine Corps personnel being trained at the Missile School are steadily rising but the ratio of increase of students from the North Atlantic Treaty Organization countries will probably outstrip these during the fiscal year beginning July 1st, the commandant said.

Col. Newhall indicated that within the next 12 months representatives of the European countries here may be increased substantially as the U.S. Military Assistance Program shifts into high gear for the transition to missiles.

Development of new instructional methods and materials will result in the coming months in a much lower ratio of students to faculty and staff, he said.

First classes at the Missile School were conducted in mobile vans which could hold only four or five students at a time, he pointed out. In new buildings already occupied or soon to be available, it is possible to instruct from 20 to 30 students in a single room.

OGMS now offers more than 40 courses in various phases of Army and Air Force guided missiles and rockets. Length of the

MA will furnish a window display for Sterchi's.

The Rohm and Haas Company will have a window display at Sewing Machines, Thiokol Corp. at Southern Furniture, and Firestone plans a display on the Square.

Bill Smith ran a general store in a small town. One day he went off to the city to buy some things for the store. His purchases were shipped at once and, because Bill lingered to do a bit of sight-seeing, they reached home before he did. The merchandise, in a huge packing case, was hauled to

Bill's store, and Mrs. Smith came out to see it unloaded. Suddenly with a piercing shriek, she tottered and fell.



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"Come By The Big "M" Headquarters"

IGY

(Continued from Page 1)
 Laboratory at Pasadena, Calif., summarized the satellite's simple "passive" solution of space temperature problems. The summary was in the form of a paper delivered to the U.S. Committee for the International Geophysical Year in Washington, D.C., by Dr. A. R. Hibbs, chief of JPL's research analysis section, and Mrs. E. P. Buwalda, research engineer. JPL and the Army Ballistic Missile Agency, the latter then under command of Maj. Gen. J. B. Medaris, now commanding general of AOMC, were jointly responsible for the launching on Jan. 31, 1958, at Cape Canaveral, Fla., of the Explorer I satellite which carried aloft the temperature experiment.

The JPL scientists reported that the temperature control attainable by the techniques used in the experiment is adequate for the successful operation of sensitive electronic equipment.

By using a series of heat-radiating aluminum oxides stripes on the satellite's outer surface, an inside temperature was maintained between zero and 40 degrees C (32 to 104 degrees F)—well inside the tolerance needed to protect instrumentation from heat or cold failure.

This technique (eight vertical quarter-inch-wide stripes covering approximately 25 per cent of the instrument payload package) provided temperatures in space within the range of human survival, it was pointed out by Dr. Hibbs and Mrs. Buwalda.

This experiment was designed only to study the problem of instrument environment in a very small enclosure, they added. The success of this simple device indicated, however, that with more elaborate techniques the inner temperature of a larger space vehicle could easily be controlled within a much narrower range of variation.

This contradicts the popular belief that any movement in space involves almost insurmountable temperature problems.

"The control of temperature of a satellite," the scientists stated, "is in principle a very simple problem. Its temperature is determined only by the amount of radiative heat which the satellite receives from the earth and the sun, and by that heat which the satellite re-radiates or reflects to the empty space around it. The satellite is not in contact with any other body from which it must be insulated, nor is it immersed in an atmosphere of any appreciable density.

Though the principle was simple, there were some unknowns involved. "The satellite's temperature is somewhat dependent on the altitude of the orbit," the joint report pointed out. "This altitude cannot be exactly predicted, at least with the current satellite launching vehicles. Another question was whether or not the satellite would maintain its predicted attitude with respect to the sun, an important factor in the temperature problem."

In Explorer I, the temperature control technique was sufficient to counteract variations in both of these factors.

In their report, the JPL scientists concluded that engineering

Eight

(Continued from Page 1)
 bilities are the maintenance of roads and buildings, furnishing protective services including security, fire and safety; operating medical facilities; providing administrative services in finance, printing and like areas, and supporting military units assigned to the installation.

Lt. Col. Glenn C. Hess, who was the transportation officer for the U. S. Military Assistance Advisory Group in Cambodia before his assignment to Redstone in February, 1958, has been named S1 (Assistant for Administration).

Born in Liberty Center, Iowa, Col. Hess is a graduate of Simpson College, Indianola, Iowa, and attended the University of Wisconsin and the University of Maryland. He holds a bachelor of arts degree in economics.

He is married to the former Miss Helen F. Fryer of Villisca, Iowa, and the couple has four children, Duane, 23, Marvin, 21, Patricia, 20, and Vicki, 7.

He is the son of Mr. and Mrs. Al Hess of Indianola, Iowa.

Lt. Col. Dean H. Jones has assumed the duties of S2 (Assistant for Security and Safety).

A native of the state of Arkansas, he attended Arkansas State Teachers College and Arkansas A&M.

Prior to his assignment to Redstone in March, Col. Jones was chief of the Provost Marshal Liaison Division in Japan. He has also served in Korea and in Europe.

A widower, he is the father of three children, Dean, Jr., 19, Wayne, 14, and Jay, 6.

Lt. Col. Lawrence W. Hall, formerly the chief of the Facilities and Master Planning Office, has been named S4 (Assistant for Logistics).

He is a native of West Virginia and attended the University of West Virginia.

Col. Hall came to Redstone Arsenal from Berlin, Germany, where he was Command Engineer in the U. S. Sector, Berlin Command, a job that encompassed all engineering programs for the U.S. including maintenance, real estate, construction and Post Engineer activities.

He also served in the Far East, including Japan, Okinawa, and Korea.

He is married to the former Miss Helen Hartley and the couple has one child, a son, Lawrence Jr., 17, who is studying at the Columbia Military Academy in Tennessee. He will graduate in June.

Chosen to fill the job of Chief, Redstone Depot, was Lt. Col. Dante Vezzoli. He was formerly an assistant to the deputy post commander.

A graduate of Alfred University in New York, he holds a bachelor of science degree in physics.

Prior to his assignment to Redstone Arsenal, Col. Vezzoli, a bachelor, was advisor to the Republic of Korea Depot Commander. He has served in Europe, Japan and the Aleutian Islands.

Major Jesse A. Garner, formerly deputy troop commander, was

assigned the tasks of S3 (Assistant for Operations and Training). A Mississippian, Capt. Garner entered service in January, 1938, and served for six years as a member of the Infantry in the Pacific Theater of Operations. He joined the Ordnance Corps in 1950 and saw service in Japan, Korea, and Thailand.

He is married to the former Miss Evelyn Thornhill of Ruth, Mississippi, and the couple has one son, Don, age 8.

Major Joseph T. Cadden, executive officer, was the Ordnance liaison officer at Sandia Base, Albuquerque, N. M., prior to his assignment to Redstone Arsenal in November, 1957.

He entered the Army in February, 1941, and earned the Purple Heart, Bronze Star Medal for Valor, and the Combat Infantry Badge.

He is a native of Pennsylvania. Charles L. Barrineau, a native of Pensacola, Fla., is chief of the Civilian Personnel Division.

Barrineau, who attended Alabama Polytechnic Institute, came to Redstone Arsenal in 1951 and was chief of the Employe Utilization Branch until this assignment.

Prior to accepting a position at Redstone, Barrineau was chief of the Employe Utilization Branch of Civilian Personnel Division at Milan Arsenal, Tennessee.

He is married to the former Miss Jenet MacMillian and the couple has three children, Murdock and Thomas, twin sons, and a daughter, Mrs. Peter J. Thomas of Old Greenwich, Conn.

Merle C. Bacon was named Chief of the Control Office.

He entered the Army in February, 1941 and has earned the Purple Heart, Bronze Star Medal for Valor, and the Combat Infantry Badge.

He is a native of Pennsylvania. Charles L. Barrineau, a native

Reviews

(Continued from Page 1)
 daris discussed aspects of space technology and military affairs with a group of 800 ROTC cadets and students in a lively question-answer exchange.

Next day the General was a guest of Governor William O'Neill at a breakfast attended by 50 top industrial and business leaders of Ohio to discuss a State program to expand scientific and technical education. The breakfast proceedings were broadcast on the "To-

of Pensacola, Fla., is chief of the Civilian Personnel Division.

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Merle C. Bacon was named Chief of the Control Office.

He is a native of Garrettsville, Ohio, and a former major in the U. S. Army, Bacon was a member of the advance party that set up European Headquarters Command and later was assistant Adjutant General to 12th Army Group Headquarters. He served three years in Europe and was awarded the Bronze Star.

Bacon came to Redstone Arsenal in 1956 and was program management chief in the office of the deputy post commander until his present assignment.



A young draftee was startled out of a sound sleep by his platoon sergeant his first night in the Army.

"Hey, you!" bellowed the sergeant, "it's 4:30!"

"Four-thirty?" mumbled the rookie, "Man, you'd better get to bed. We got a big day tomorrow."

READ THE WANTADS

day" television show with Dave Garraway as master of ceremonies.

General Medaris then delivered an address before the Engineering Conference. In the afternoon he was guest of the University's National Policy Seminar, discussing strategy and policy with students and members of the faculty.

He also inspected facilities of Battelle Memorial Institute.

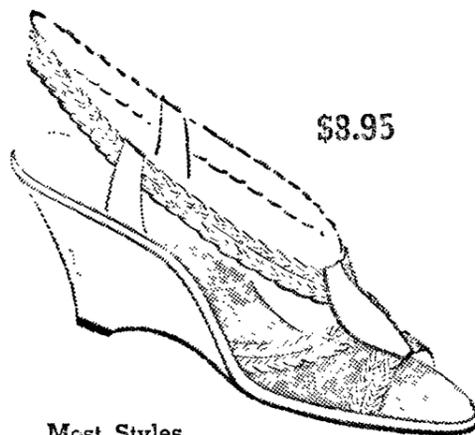
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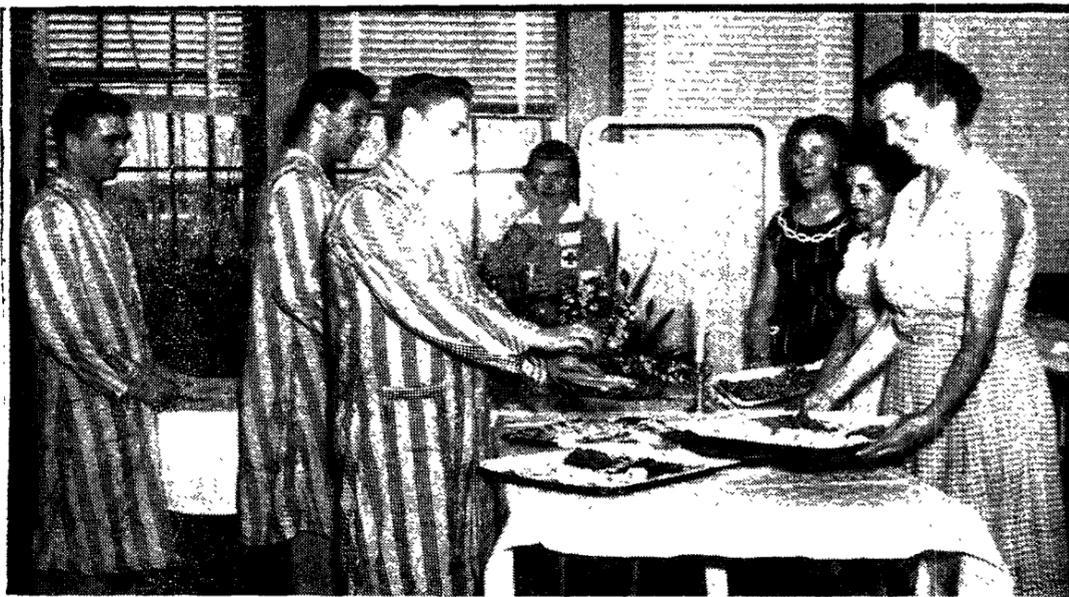
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NCO WIVES SPONSOR WARD PARTY—The noncommissioned Officers Wives Club sponsored a ward party at the U. S. Army Infirmary recently which featured competitive games, cookies and punch. Lined up in the "chow" line from left to right are: Lt. Dan Duggan, PFC Frank Guginsky and PFC John P. Hoy. In the serving line behind the table which was centered with an intricate floral arrangement are: (left to right) Mrs. Jo Leonard, Mrs. M. R. France, Mrs. Wanda Womack and Mrs. Wilma Koenig.



OUTSTANDING SECRETARY—Army Ballistic Missile Agency Commander, Brig. Gen. J. A. Barclay is shown presenting an Outstanding Performance Rating award to Mrs. Dorothy L. Julich. Mrs. Julich, who is secretary to Brig. Gen. Barclay, also received the Sustained Superior Performance Award for the performance of her job.

WIVES CLUB TO ELECT OFFICERS

The Redstone Arsenal Officers Wives Club will hold a business meeting on Friday (9 May) at 10 a.m. at the Hawk Room of the Squirrel Hill Officers Club. Principal order of business will be election of officers for the coming year.

The Proposed Slate of Officers prepared by the Membership Nominating Committee includes: President, Mrs. R. O. Lehtonen; Vice-President, Mrs. R. N. Flint; Treasurer, Mrs. E. M. Dooley; Recording Secretary, Mrs. W. A. Leonard; Corresponding Secretary, Mrs. L. B. James. Additional nominations will be accepted from the floor.

All regular active members are urged to attend this business meeting. Arrangements have been made for free Post Nursery service between 9:30 a.m. and 12:30 p.m. If you desire this service, make reservations by calling 3958.

Teen Age Misses Organize "Ballistic Baby Sitters Bureau"

Redstone Teen Age Misses have organized the "Ballistic Baby Sitters Bureau" and solicit the patronage of all good upstanding or downlying babies on or near Redstone Arsenal. All staff members are qualified senior Girl Scouts. All staff members have pressing requirements for increased personal tending support due to the constant rise in cost of teen age living. Staff consists of: Kathy Kelly, Diane Parker, Peggy Holmes, Carolyn Collins, Sue Clanton, Carol Johnson, Ann Smith, Sandra Budd, Gretchen Ward, Penny Wenzel, Ginny Siegler, Frances Muliane, Gail Roark, Lonnie Leland. Services of these technicians may be arranged by phoning Carol Johnson at 2750.

READ THE WANTADS

Card Skit Slated By Officers Wives

The May luncheon of the Redstone Arsenal Officers Wives Club will be held Tuesday (13 May) at the Main Officers Club at 12:30 p.m.

Featured on the program will be a skit entitled "If Men Played Cards Like Women Do," to be enacted by four prominent men from Huntsville.

Reservations and cancellations for the luncheon must be made not later than noon on Monday (12 May). For reservations call Mrs. G. W. Budd, Ext. 5550, or Mrs. W. L. Gilbert, Ext. 6666. To cancel from the permanent reservation list call Mrs. Salter, Ext. 5255. For nursery reservations call Ext. 3958.

Original Art Work To Be Featured at Big Spring Exhibit

If you have wished for an original art work or painting for your home, "The Big Spring Clothes-Line Exhibit" is the opportunity for which you have been waiting. This exhibit will be held in Huntsville, at the Madison County Curb Market, Sunday, May 18th, from 9 a.m. to 6 p.m., with admission of 25 cents for adults and children under school age free.

These paintings will have been done by local artists and many well-known out-of-town artists. Prices of paintings or original art works will range from \$2.00 up; a chance to have an original art work that will fit any budget.

For the entertainment of the children, there will be a puppet show, presented by Mr. Richard Chase, a native Huntsvillian and well-known author of Jack Tales, Grandfather Tales, and the recently published book, American Folk Tales and Songs. The puppet show will be the original and authentic version of "Punch and Judy."

Sandwiches, cakes, cookies and soft drinks will be sold at the

THE POST LIBRARY

ANNA L. FARRAR Librarian

The library has the new books listed on the shelves.

Jacques Barzun, "The Modern Researcher."

Robert Bruttain, "Rivers, Man and Myths."

Clyde Clason, "Exploring the Distant Stars; Thrilling Adventures in Our Galaxy and Beyond."

Dan Cushman, "The Silver Mountain."

Barbara Jackson, "The Interplay of East and West, Points of Conflict and Cooperation."

Shirley Jackson, "The Sundial."

Francis King, "The Man on the Rock."

Alexander Korol, "Soviet Education of Science and Technology."

Edzabeth Montagu, "This Side of the Truth."

Patrick Moore, "Earth Satellites."

John O'Donoghue, "In a Quiet Land."

David de Soia Pool, "Why I Am a Jew."

Flora Sandstrom, "The Virtuous Women of Pont City."

Arthur Schlesinger, "Prelude to Independence; the Newspaper War on Britain, 1764-1776."

Raymond Trigger, "How to Run a Successful Investment Club."

The Wall Street Journal, "Care for a Merger."

Roger Whitman, "First Aid for the Ailing House."

George Wright, "The Book of the Acts of God; Christian Scholarship Interprets the Bible."

The fellow who managed to cram all those vitamins into one tiny tablet must have been a retired bus driver.

Curb Market.

Certainly the "Big Spring Clothes-Line Exhibit" will offer a delightful Sunday outing for the entire family; fun along with education.

If you would like to exhibit your painting, but are not a member of the Huntsville Art League, contact Mrs. Thomas Hale, 401 South Lincoln, JE 4-6770.



GETS REGULAR AF COMMISSION—Col. William C. Erlenbusch, Commander, 884th Strategic Missile Squadron is pictured administering the oath of office to Capt. John W. Daniels, (left), who recently received a Regular Air Force Commission. Daniels, a Technical Supply Officer, was selected by the Strategic Air Command for assignment to the

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NIKE-ZEUS AND PLATO

STATUS OF ANTI-MISSILE MISSILES TOLD TO SOLONS BY GEN. SHINKLE

The Army is developing two anti-missile missile systems, one designed for employment with combat units, the other to defend the Continental United States and fixed sites overseas.

Brig. Gen. J. A. Shinkle, commander of the Army Rocket and Guided Missile Agency, disclosed the status of the programs in a report last week to the Senate Small Business Committee in Washington, D. C.

Through the current fiscal year, ending June 30, a total of \$66,300,000 has been expended for the two programs, Gen. Shinkle reported. Of this sum, \$49,200,000 was for NIKE-ZEUS and \$17,100,000 for PLATO, destined for service with the field Army.

The Bell Telephone Laboratories began research on the ZEUS system in October, 1954 and was asked to develop a "forward-looking" anti-aircraft defense which would be available during the 1960-65 period.

Grand Central Rocket Company received a contract June 27, 1955 to develop a high propulsion impulse solid propellant motor. The Western Electric Company, already involved in earlier NIKE programs, was brought into the ZEUS project Feb. 1, 1957. Douglas Aircraft Company, a NIKE producer, is also participating.

The Sylvania Corporation was selected in September, 1956 to conduct research and development for the mobile anti-missile missile, PLATO.

"No production contract or engineering services contract has been finalized as of this time for ZEUS," Gen. Shinkle told the Committee.

Safety Scoreboard

(As of 5 May)

Days since last civilian disabling injury—3.	Our Goal	30
Days since last military disabling injury—8.	Our goal	33
Days since last contractor personnel disabling injury—38.	Our Goal	100
Days since last government vehicle accident—4.	Our Goal	30

SNAFU



EMORY FIGURES WE CAN GET ALONG NICELY ON OUR COMBINED INCOMES HIS AND YOURS!

University Students From Mississippi Tour Installation

Outstanding students in electrical engineering from Mississippi State College and Vanderbilt University were presented awards by the Huntsville Section of the Institute of Radio Engineers at a recent meeting in Huntsville. They were Frank Mason of Vandy, and William Singleterry of Mississippi State. Sixty-eight student IRE members from the two schools were guests of the Army Ordnance Missile Command. Steve Johnston and Don French, both AOMC employees, served as program co-chairmen for the Huntsville Section meeting and tour.

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TEEN-AGE SODALITY OFFICERS— Chlain (Maj.) John A. Zwack (seated) and the officers of the recently organized Teen-Age Sodality meet in the Post Chapel offices to make plans for religious discussions and social activities for the Catholic teenagers during the coming season. The officers are (left to right): Linda Brown, secretary; Margaret Fitts, vice president; Buddy Brown, president; and John O'Keefe, treasurer. They have issued an invitation to all Catholic teenagers to participate in this group.

OPERATION BLONDE



Charley Noble



Before you fall in love with a pair of bright eyes, make sure it's not the sun shining through a hole in her head.

A husband shouldn't mind doing the dishes for his wife if she helps him with the rest of the housework.

Stuffy says he knows a lot of soldiers, sailors, airmen and marines who never chase women. These men are too fine, too decent, and too old.

And there's the man who read so much about the evils of smoking, he gave up reading.

Filbert knows a guy who's so concerned that on his last birthday he sent his mother a wire of congratulations.

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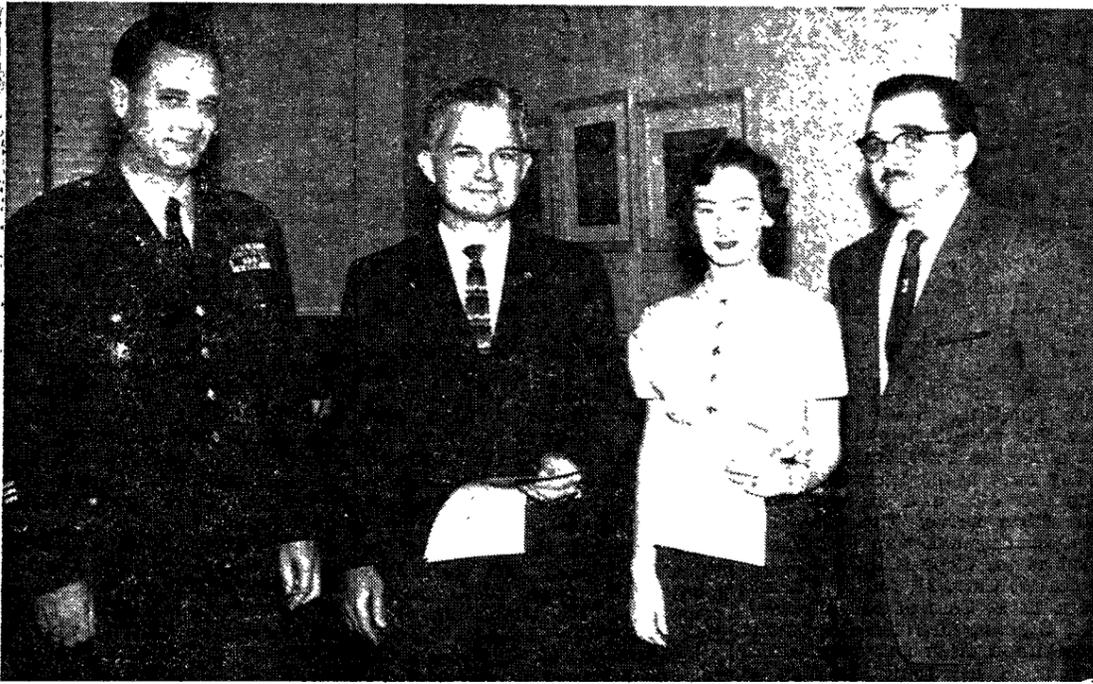
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SAFETY PEOPLE RECEIVE AWARDS—Mrs. Wanda Faye Sharpe and Edward W. Summers both received sustained superior performance awards and the check that goes with the award for their work in the Arsenal's safety program during a recent ceremony in the office of Col. Keith T. O'Keefe, Redstone Arsenal commander. Mrs. Sharpe is a secretary. Mr. Summers was a supervisory safety program administrator until his recent transfer to the Program Review Office, Redstone. Left to right are: Col. O'Keefe; Summers; Mrs. Sharpe; and W. E. Chick Albright, chief of the Safety office.



SAFE DRIVERS—All Post Engineer employes who drive government-owned motor vehicles have signed an agreement to do their part to stop vehicle accidents. This agreement says in part that no trip is so urgent that the necessary time to avoid an accident cannot be taken; that he will not only watch his driving, but he will watch out for the other fellow also. Otto Kohler, Post Engineer, in urging his employes to sign the agreement said, "I am convinced that Post Engineer employes can and should be the safest drivers on the installation." Pictured above, signing their agreement, is Henry D. Lewter, Pfc. Benard Weiner, John B. Satterfield, Walter Bradford, and Kohler.

MEN BEHIND THE MISSILES

ABMA's Launching and Handling Lab Solved Unique Problems for Satellite Launchings

(Editors note: This is the sixth in a series of articles dealing with the laboratories of the Army Ballistic Missile

Agency—and the people who make them click).

Special type fuel utilized for

the Jupiter C satellite launchings posed unique problems which were solved by the Launching & Handling Equipment Laboratory of the Army Ballistic Missile Agency.

Hans Hueter is the Laboratory director. It is one of nine supervised by Dr. Wernher von Braun.

Winston L. Bridges, Warren G. Hunter and William Z. Mims were chiefly responsible to find the solutions. All three participated in a training program conducted by the Rocketdyne Division of North American Aviation to familiarize them with safety techniques involved in storage and transfer of the fuel.

With the cooperation of other engineers of the Agency and private industry, design specifications were prepared for a special fuel servicing vehicle.

After the vehicle arrived at the Agency, acceptance and operational tests were performed to insure reliability and calibration when used with the Jupiter C at Cape Canaveral, Fla., the launching point. Following test firings at the Cape, the fueling equipment was returned to the Agency and overhauled before Explorer I was launched into orbit. During overhaul, modifications were incorporated to provide safer and more efficient operation.

Bridges is a native of Huntsville, where he lives, and a graduate of Riverton High School. He completed a course in automotive mechanics. Hunter is a Huntsville resident and was graduated from the University of Alabama in 1951. He is a research engineer. Mims was graduated from Clemson, S. C. College and is a research engineer in the Field Operations Section. He also lives in Huntsville.

James L. Fuller of Huntsville, graduate of Auburn, designed a package to protect the Jupiter C spin launcher in shipment. During the crash program to launch Explorer I, the launcher was dynamically balanced at ABMA and shipped to the Jet Propulsion Laboratory, Pasadena, Calif., for loading, re-balance, disassembly of propulsion and payload, and subsequent shipment to Cape Canaveral.

More than 5,000 miles of transportation distance was involved for each spin launcher. The fact

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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 the morning worship.
1800 Hours — Junior Choir Rehearsal.
1830 Hours — Christian Youth Fellowship — ages 12 through Jr. High.
1900 Hours — High school Youth Fellowship.
Wednesday — 1845 Hours—Chancel Choir Rehearsal.
CHAPEL NO. 2 (40th Group Area) —PROTESTANT
Sunday — 0930 Hours — Morning Worship.
1830 Hours—Fellowship worship.

CATHOLIC

Sunday — 1745 & 0845 Hours — Mass.
1830 Hours — Youth Religious Group in Chaplain's Office.
Monday — 1600 Hours — Altar Boys' Class
1900 Hours — Convert Class.
Tuesday — 1930 Hours — Novena in honor of Miraculous Medal— Choir Practice following Novena.
Wednesday — 1900 Hours — Religious Discussion Forum.
Saturday — 1000 Hours—Catechism Class.
1800-1900 Hours — Confessions.
Daily Mass — 1700 Hours.
CHAPEL NO. 2 (40th Group Area) CATHOLIC
Sunday — 1100 Hours — Mass.

JEWISH: Friday Night Services will be held in Huntsville at the Temple B'Nai Sholom (Corner of Clinton and Lincoln Sts.) at 2000 hours. O'Neg Shabbot (Sabbath Social) at the Temple Annex following services.)

that this was accomplished without damage contributed substantially to meeting the tight schedule.

Curt P. Herold of Huntsville, who was associated with missile development in Peenemuende, Germany before coming to the United States, designed the cable mast employed in the Jupiter C launchings.

A graduate mechanical engineer, Herold also devised and designed pneumatic couplings which made possible quick disconnect for fuels. He also designed and tested mechanisms for quick release of cable masts.

Director Hueter noted that Herold's work has "greatly influenced the reliability and efficiency of ground firing equipment and minimized maintenance and re-

IT'S A STRANGE WORLD— Sometimes a man who is scared to visit his dentist will race a locomotive to a crossing.

A little less hurry and more common sense would go a long way to reduce accidents.

TRAFFIC TIP: Always try to drive as if your family were in the other vehicle.

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Skilled Army - Civilian Group Traces Flight Path Of Missiles At Cape Canaveral Shoots

CAPE CANAVERAN, Fla.— A closely-knit team of Army and civilian specialists constitute one of the most unusual groups in the Army's Missile Firing Laboratory here.

They are the skilled personnel who operate radio frequency and electronic measurement equipment, which traces the flight path of long-range rockets and ballistic missiles.

Directing these and related activities is Karl Sendler, now an American citizen, who participated in the pioneer work in missiles carried on at Peenemuende prior to and during World War II.

The group's immediate chief is Reuben L. Wilkinson, known as "Rube" to his associates in the Lab, one of nine in the Army Ballistic Missile Agency which developed the Redstone, Jupiter, and Jupiter C missiles.

Wilkinson is 38 and has been with the Firing Laboratory since November 16, 1953 during the early test phases of the Redstone project. He and his wife, Claire and their daughters, Carolee, 14, and Dianne, 6, live on Station Road, City Point, Fla.

Wilkinson holds a bachelor's degree in electrical engineering and another in mechanical engineering from Auburn.

His experienced crews operate electronics equipment installed in one of the Army's missile hangars here and other stations elsewhere on the Cape and strategically located some miles distant.

Their work involves two complex systems, "Beat-Beat," which traces lateral movements of the big missiles and their trajectories in relation to the pre-planned course, and Dovap, which continuously reports the exact location of the missile in space.

Between launchings, the men are constantly seeking the means to refine and improve their equipment.

"No one stands still in this work," Wilkinson remarked. "If he does, he'll soon be looking for another job."

A prized member of the team

is Pfc. Francis Byrne, 24, of Mt. Vernon, N.Y., son of Mr. and Mrs. Frank Byrne. A graduate of A.B. Davis High School in Mt. Vernon, Byrne received his bachelor's degree in electrical engineering from Manhattan College in 1954.

He worked at a White Plains, N.Y. electronics laboratory before entering the Army Aug. 7, 1956. After basic training at Fort Dix, N.J., he was assigned to the Missile Firing Laboratory Dec. 7, 1956. He is a member of the American Radio Relay League.

Pfc. Byrne has come up with an innovation in the tracking system which will, in field employment of Army missiles, eliminate two trailer vans and a number of personnel. As he explains it, the proposal makes it possible to operate a tracking installation from one point instead of several dispersed locations.

A former soldier, James B. Carroll, 26, found the missile activity so fascinating that he stayed on as a Civil Service employee. He is 26, and the son of Mr. and Mrs. James Carroll of 118 Burwell St., Little Falls, N.Y.

He is a graduate of St. Mary's High School and the Mohawk Valley Technical Institute, Utica, N.Y., which awarded him a diploma as an associate in applied electronics.

Entering the Army in December, 1955, he received basic training at Ft. Dix, N.J., and joined the Ballistic Missile Agency in May, 1956. He was immediately assigned to the Firing Lab. His wife is the former Anita Lorenzoni of Little Falls, N.Y. They have a daughter, Maria, 18 months old and a son, James, only 3 months old.

Carroll assisted in operating the "Beat-Beat" system at the Cape for the Army's satellite launchings. He is also responsible for equipment repairs when necessary.

Specialist 2nd Ernest E. Jernquist, 20, operated one of the remote Dovap stations when the Explorer satellite was launched. He is the son of Mr. and Mrs. Edward Jernquist of 75 Lock-

wood St., Providence, R. I.

Jernquist attended Central High School in Providence and enlisted in the Regular Army. He received basic training at Ft. Gordon, Ga., followed by a three months' course in electronics.

In October, 1957 he was assigned to the Firing Lab and has operated a Dovap station after two months of on-the-job training. His wife, Arlene de LaSalle, is a former Providence resident. They have a daughter, Cheryl, 18 months old, and live at 1240 Riverside Drive, Titusville, Fla.

Operating a Dovap lateral station at the Cape is Specialist 3rd John W. Carr, 21, son of Mr. and Mrs. E. L. Carr of 820 Roosevelt St., Clinton, Ia. He is a graduate of Clinton High and received 25 weeks of electronics training at Ft. Monmouth, N. J., following basic training at Ft. Chaffee, Ark.

Assigned to the Ballistic Missile Agency April 5, 1957, Carr wound up in the Firing Lab. He is a regular Army soldier and remarked that "there's nothing dull about this work."

Another ex-missile is John W. Holder, 29, son of Mr. and Mrs. Alex Holder of Atmore, Ala. He attended J. U. Blackshear High School and received training in the repair of electronics instruments at Ft. Gordon, Ga. He was Specialist 3rd when he completed his active service.

Holder lives with his wife, Ellen, at 1 Florida Ave., Cocoa, Fla. He is an electronics laboratory mechanic, working in the "Beat-Beat" and Antenna Section. When Explorer was launched, he was operating a master lateral station at the Cape.

Holder recalls that in the early testing of the Air Force Thor and the Navy Vanguard missiles, the Army crews operated their "Beat-Beat" and Dovap systems in support of the other services. Now they have their own tracking systems.

He is a member of Cocoa Post, American Legion.

Another Regular Army missile man is Sfc. Ralph R. Giambino, 29 years old, of 29 McCarty Ave., Albany, N.Y. He lives at Patrick Air Force Base with his wife, Anita, and their daughter, Gina Marie, 7 months old.

Giambino spent 7 years in Germany and France, marrying his wife in France. He is a graduate of South Philadelphia, Pa., High School, and the Ft. Monmouth, N. J. Signal School where he studied electronics.

The Sergeant has been assigned to the Firing Laboratory for 12 months, in charge of the "Beat-Beat" program system at the Cape. During the satellite launchings his place was in Central Control at the range safety position.

"I love it," was his comment about his duty.

He has a brother, Angelo, in Philadelphia; another, Nicholas, in Camden, N. J., and a sister, Rae, in Oaklyn, N.J.

Specialist 3rd Renzel W. Cooper, 22, operates a Dovap tracking station. He is the son of Mr. and Mrs. John W. Cooper of Clarence, Missouri, where he attended Clarence High School. A brother, Donald L., is serving in the Air Force.

Cooper received basic training at Ft. Leonard Wood, Mo., when he entered the Army in May,

1956. He received 11 weeks electronic training at Ft. Monmouth, N. J., and was assigned to the Ballistic Missile Agency Nov. 7, 1956.

When he completes active military service, Cooper wants to stay in electronics—and thinks he could do much worse than work for the Firing Lab as a civilian.

Another future civilian employee is Pfc. John M. Dunn, 19, son of Mr. and Mrs. William H. Dunn of 328 Cedar Ave., Knoxville, Tenn., where he attended Fulton High School.

He received basic training at Ft. Carson, Col., then spent five months in field radio repair courses at Ft. Monmouth, N.J. He joined the Ballistic Missile Agency Sept. 15, 1957 and the Missile Firing Lab on Dec. 18, 1957.

Since then he has operated a Dovap station some miles from the Cape. That's where he was the night that Explorer was placed in orbit by the Army's Jupiter C rocket.

A sister, Mrs. Mack Low, also lives in Knoxville, Tenn.

Theodore P. Hershey is a former Army Scientific and Professional Specialist, now deputy chief of the Dovap and "Beat-Beat" activities. He is 27 and the son of Dr. Albert E. Hershey of Swarthmore, Pa.

Graduating from a Pittsburgh, Pa., high school, he attended Carnegie Tech and received a degree in electrical engineering in 1954. He worked for U.S. Steel Corp., until inducted in August,

1955. After basic training at Ft. Jackson, S.C., he was assigned to the Missile Agency's Computations Laboratory and then to the Firing Lab.

When he left the Army in August, 1957, he was Specialist 3rd and chief of the Recording Lab.

Mrs. Hershey is the former Marjorie Penney of Pittsburgh, a former home economics teacher. They have a daughter, Kathryn, 11 months old, and live at 1030 South Atlantic Ave., Cocoa Beach Fla. Mrs. Hershey conducts sewing and tailoring classes.

Talking of his work, Hershey remarked "I have never seen two days the same; it never borders on the dull."

A substantial amount of electronics gear, he said, has been designed and built by personnel of his group, for specific missile applications.

"It's our job," he added, "to record accurately the complete trajectory of the missile, including its velocity throughout the entire flight. In addition, we must determine instantly its position both with respect to the programmed path and to the lateral axis."

We have eight stations, or eight sources of data, which is recorded on film, then sent back to the Computations Laboratory at the Missile Agency and reduced."

When Explorer was launched, Hershey said, "we waited around to see it show up on the first orbit—using temporary equipment we put together."

Specialist 2nd Del Ray Maronde, 20, son of Mr. and Mrs. E. H. Maronde of Woodlake, Minn., is a technician in the "Beat-Beat" and Dovap section.

He was graduated from Woodlake High School and spent 33 weeks in radar and electronics courses at Ft. Monmouth, N.J. He

(Continued on Page 9)

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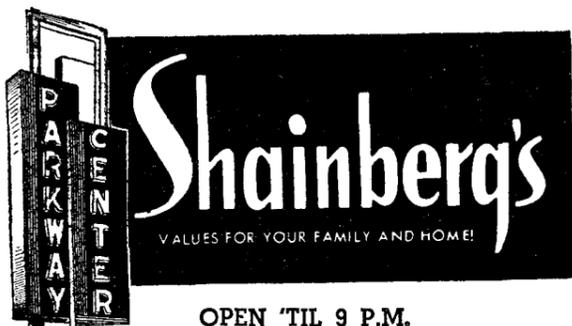
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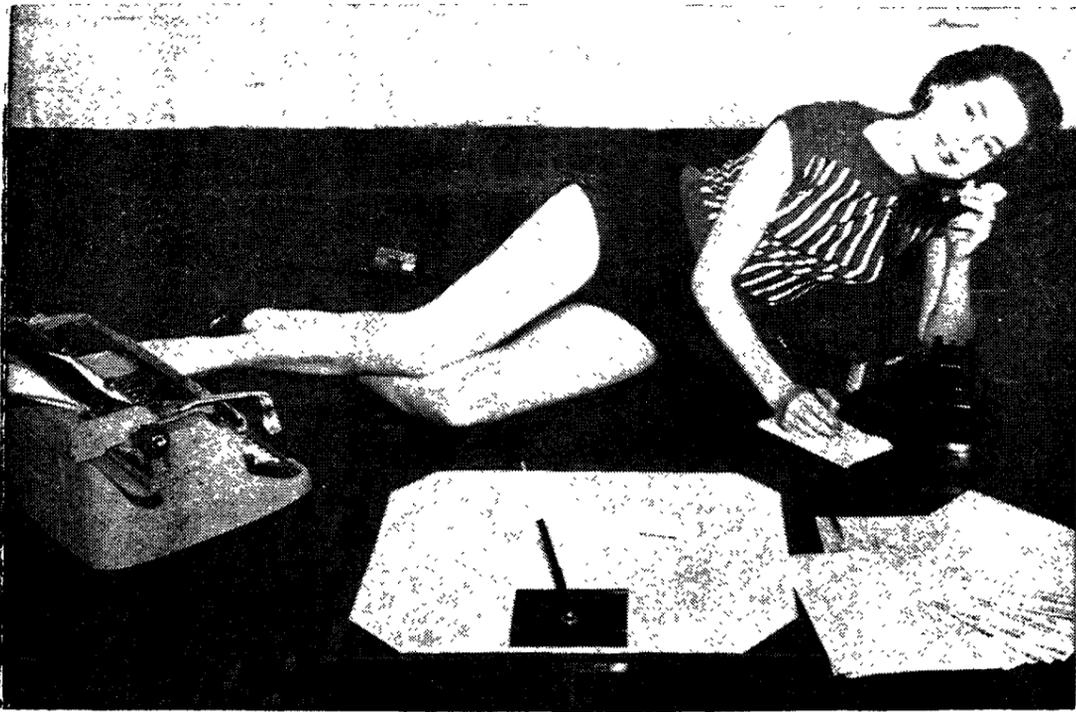
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ALL ALONE AND LONELY—When the Administrative Office of ABMA's Engineering Materials Branch recently moved to the new Structures and Mechanics Building (Bl. 4612), Miss Louise McAlister (who is, incidentally, the Rocket Pin-up for this week) was temporarily left behind to answer the phones and carry on clerical duties. As evidenced by photo above, she fully utilized the remaining equipment. (Photo by Bob Sandlin.)

Skilled

(Continued from Page 8) received basic training at Ft. Chaffee, Ark., after enlistment in the regular Army. Maronde hopes to enroll in the University of Minnesota in September to study electrical engineering. He has been working in the Missile Firing Laboratory since December 1956, assisting in the development, test, checkout and operation of the tracking devices. He was operating a "Beat-Beat" station when the Explorer satellite was launched.

A brother, Don, is studying for the ministry at the University of Minnesota; another, Gordon, lives in Minneapolis. Two sisters, Jacqueline and Cheryl, are at home. Another, Nyrene, lives in Hollywood, Calif.

Specialist 3rd Thomas J. Casey, 25, was closest to the actual launching site of the Jupiter C of all the tracking team. His Dovap transmitter is but 300 yards from the launch pad.

The son of Mr. and Mrs. P. J. Casey of 72 Acre Brook Drive, Chinopee, Mass., he attended public school in Springfield, Mass. and received a degree in business administration from Fairfield, Conn. University.

He entered the Army April 16, 1956 and received basic training at Ft. Dix, N.J., followed by 13 weeks of electronics training at Ft. Monmouth, N.J. In November, 1956, he joined the Firing Lab.

Soon to be released by the Army, Casey will return home to join his father in the latter's auto business.

In charge of three Dovap field stations is Specialist 3rd Leland A. Evjen, the son of Mr. and Mrs. Halgrim E. Evjen of 225 Third Ave., West, Williston, N.D. He is a graduate of the Alexander N. D. High School.

He entered the Army April 24, 1956 and received basic training at Ft. Hood, Texas, then attended electronics school at Ft. Monmouth for 11 weeks. He expects to return to the employ of Bell Telephone as a cable splicer in Bismarck, N. D. when he leaves the Army in little over a month. Two brothers, Harry and Cla-

rence, are at home; a sister, Lillian, lives in Great Falls, Mont. another sister, Selma in Sidney, Mont.

This is not what I expected when I put on the uniform," he observed. "Time has certainly gone fast down here."

Engaged to Dovap refinement, Pfc Karl Schultz, 26, holds two degrees from Syracuse University. He is a bachelor of arts and a bachelor of electrical engineering.

Schultz is the son of Mr. and Mrs. Karl D. Schultz of 121 Buckingham Ave., Syracuse. He attended William Nottingham High School and was inducted May 10, 1957.

He received basic training at Ft. Benning, Ga., and was assigned to the Ballistic Missile Agency as a Scientific and Professional Specialist Sept. 14, 1957. He is a member of Theta Tau, professional engineering fraternity; the Institute of Radio Engineers and the American Institute of Electrical Engineers.

"It's a challenging assignment," he commented. When the Explorer was launched, Schultz was operating a "slave" station in the "Beat-Beat" program.

Youngest member of the team is Pvt. William M. Sanders, 18, son of Mr. and Mrs. Marvin Sanders of 1176 E. Grand Blvd., Detroit, Mich.

He attended Antioch, Tenn. High School and entered the Army July 16, 1957. After basic training at Ft. Ord, Calif., he attended electronics school in Ft. Gordon, Ga., where he learned instrument repair.

He joined the Firing Lab on Feb. 8, 1958, a week after the Army's first earth satellite was launched. Now he's learning to operate a "slave" Dovap station at the Cape. He is Regular Army and considers his assignment one of the most interesting in the military service.

It PAINS to be ignorant. Find each fire-hazard spot so flames later will not.

The saddest words a wife can croak; "Good evening, dear. The TV's broke!"

Toastmasters Tour AOMC, OGMS During Conference Here

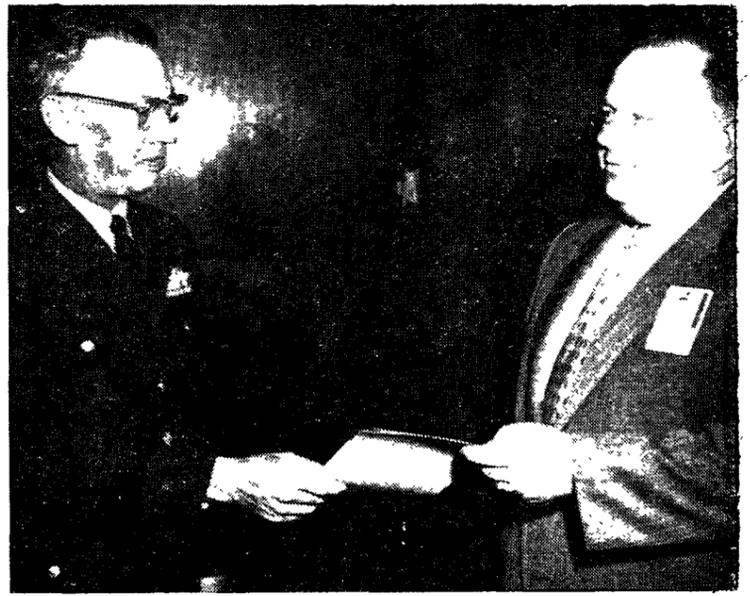
Several Arsenal employees played prominent roles in the District 48 Conference of Toastmasters International held in Huntsville Saturday.

More than 300 toastmasters and their wives from all over the state converged on Huntsville and Redstone Arsenal for a tour of the Army Ordnance Missile Command and the Ordnance Guided Missile School, a "fun" luncheon, speech contest, election of officers, and Governor's Ball at the Shalamar Saturday night.

Col. Keith T. O'Keefe, post commander of Redstone Arsenal, welcomed the group in Rocket Auditorium Saturday morning. The group then went on a tour coordinated by Capt. Rudy Nottrud. A demonstration of the Corporal guided missile and its ground equipment was presented by the Ordnance Guided Missile School.

Thurman Burns, of the post commander's office, presided at the Fun Luncheon at the Shalamar. The program, presented by the Decatur Toastmasters Club featured music, singing, several humorous talks, and a satire on missiles, "Bluestone on Parade."

Ed Lawrence, Firestone representative at Redstone, was elected lieutenant governor for North



FRYE GETS AWARD—Albert O. Frye, Jr., of the Training Division at the Army Ballistic Missile Agency receives a Sustained Superior Performance Award of \$300 from Brig. Gen. J. A. Barclay, Agency commander. Frye was recognized for his performance as an administrative officer during the period from November 1956 to December 1957. He resides at 210 Lee High Drive, Huntsville.

Alabama. Mr. Burns, retiring lieutenant governor, was chosen educational chairman.

Seven contestants, representing the seven areas of Alabama, competed in the Speech Contest. Maj.

Marvin D. Parker, of the Ordnance Guided Missile School, took the trophy for this event, and will compete in the Zone Contest in New Orleans June 20-21.



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- ☆ HATTIE LEEDS
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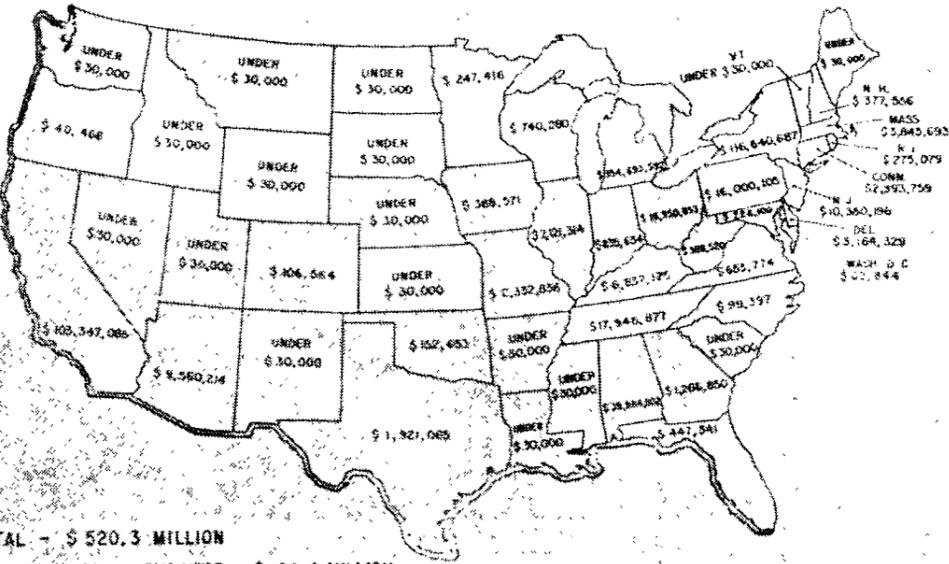
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FY 56, 57 AND TO 1 MARCH 1958



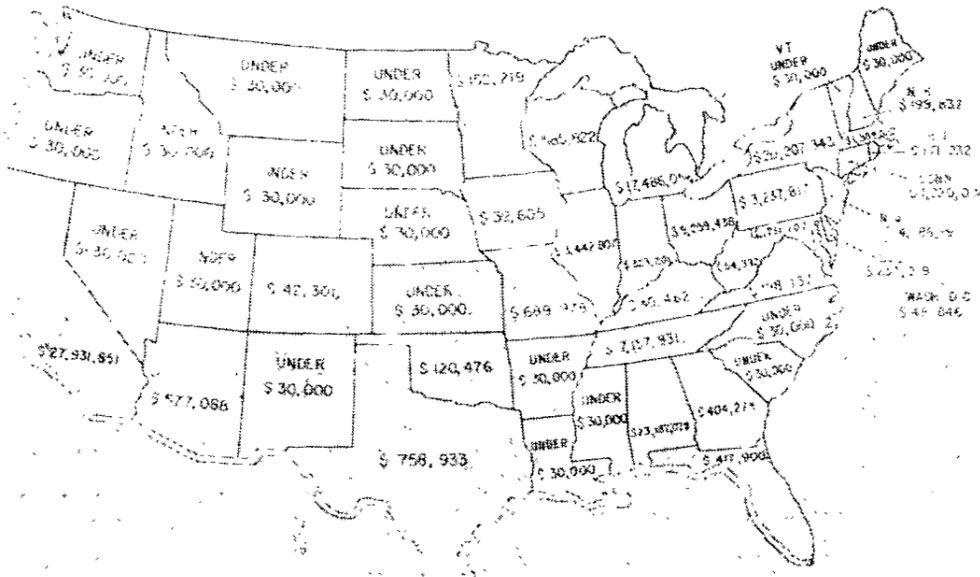
TOTAL - \$520.3 MILLION
DOLLARS TO SMALL BUSINESS - \$124.4 MILLION
PER CENT TO SMALL BUSINESS - 23.9%

ABMA CONTRACTS—The Army Ballistic Missile Agency placed contracts totaling \$520,300,000 to industry during fiscal years 1956, 1957 and to March 1, 1958. This covers slightly more than two calendar years. These figures were revealed May 1 in testimony before the Senate Small Business Committee.

DISTRIBUTION OF DOLLARS TO SMALL BUSINESS

INCLUDING 1st & 2nd TIER SUBCONTRACTORS

FY 56, 57 AND TO 1 MARCH 1958



SMALL BUSINESS CONTRACTS—This chart indicates the worth of contracts awarded to Small Businesses by the Army Ballistic Missile Agency during fiscal years 1956, 1957 and to March 1, 1958—slightly more than two calendar years. The statistics were cited before the Senate Small Business Committee in Washington May 1. Small Businesses are normally defined as those employing no more than 500 persons.

BY STATES

Army Missile Contracts With Industry

STATE	ARGMA*	ABMA**
Alabama	\$ 608,546	\$ 39,984,802
Arizona	539,041	9,560,214
Arkansas	30,000	30,000
California	120,376,031	103,347,036
Colorado	1,346,285	106,564
Connecticut	4,109,382	2,893,759
Delaware	3,632,690	3,184,329
Dist. Columbia	37,356	62,844
Florida	19,145,438	447,341
Georgia	1,773,550	1,266,850
Idaho	422,060	30,000
Illinois	22,629,841	7,121,314
Indiana	14,752,517	835,634
Iowa	1,378,546	388,571
Kansas	1,341,946	30,000
Kentucky	3,714,413	6,837,175
Louisiana	438,300	30,000
Maine	422,771	30,000
Maryland	7,848,038	226,100
Massachusetts	74,194,144	3,845,693
Michigan	16,548,869	154,693,592
Minnesota	2,756,238	247,416
Mississippi	30,000	30,000
Missouri	3,689,564	2,332,836
Montana	422,000	30,000
Nebraska	30,000	30,000
Nevada	30,000	30,000
North Carolina	100,970,951	99,397
North Dakota	30,000	30,000
New Hampshire	7,125,874	377,556
New Jersey	14,818,695	10,380,198
New Mexico	30,000	30,000
New York	55,884,456	116,840,687
Ohio	11,179,606	16,950,853
Oregon	1,344,499	40,468
Oklahoma	682,473	152,653
Pennsylvania	27,392,190	16,000,105
Rhode Island	4,109,382	275,079
South Carolina	508,456	30,000
South Dakota	30,000	30,000
Tennessee	1,609,984	17,948,877

THE NEVER TO BE FORGOTTEN MUSIC OF "THE SENTIMENTAL GENTLEMEN"

THE **TOMMY DORSEY ORCHESTRA**



STARRING **WARREN COVINGTON**

TO PLAY HERE—The famed Tommy Dorsey Orchestra, now under the leadership of Warren Covington, will play for a dance at the Redstone Arsenal Post Service Club from 8 to 12 p.m. tonight. The dance will be for enlisted personnel and their guests. Covington has directed the Dorsey band since the recent death of the leader known as "The Sentimental Gentleman of Swing." Covington formerly had his own group called "The Commanders," and before that had played trombone in several top bands including Les Brown's and Gene Krupa's as well as the CBS staff orchestra.

AIN'T IT THE TRUTH: There was a time when a fool and his money were soon parted. Now it happens to everybody.

DAFFNITION: Drive-in - movie: Sparking lot.

Texas	1,672,742	1,921,065
Utah	846,979	30,000
Virginia	12,403,052	653,774
Vermont	2,767,433	30,000
Washington	724,425	30,000
West Virginia	504,292	369,520
Wisconsin	9,919,309	740,280
Wyoming	844,000	30,000

*—Distribution of guided missile dollars FY 1957, 1st half FY 1958

**—Distribution of total dollars to industry including 1st and 2d tier subcontractors, FY 56, 57 and to 1 Mar 58 by Army Ballistic Missile Agency.

NOTE:—\$30,000 dollar entries denote total contracts less than this amount.

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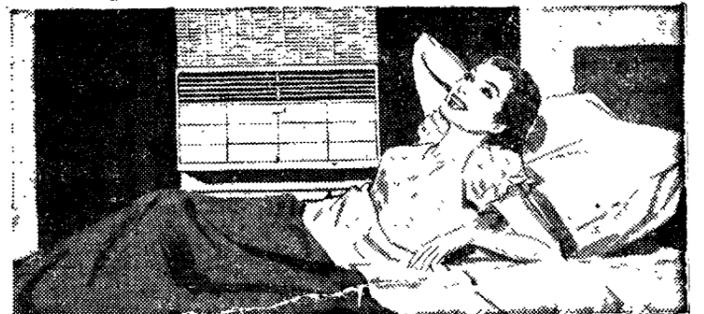
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At the Service Club

Celebration and celebrities are the keynote at the Service Club these days. Never before have we had so many outstanding personages present at the Club in such a short space of time. Most important though is having the EM with us and we are delighted to have so many new people here with us.

Our secrets are unclassified and we want to let you in on the news of this society, as we dizzily climb to new heights in merrymaking. No time for wool gathering - No time for spring fever! Tonight is the time to begin the celebration, to forget all cares, and enter into the spritely spirit.

There'll be encores for ENCORE '58 at the Post Theater today at the 1:00 and 6:30 performances. This Third Army production will star the winners of the recent Third Army Entertainment Contest. Raving reviews from post people who have heard these people are circulating around the club. The CONTINENTALS, instrumental quintet, will provide music for the show. Walter Kopycinski, playing the electric guitar, Willis Brown, Claudette Roberts, and McNeil Mitchell, vocalists, and the Circle A Trio are the musical specialties. Clark Warren, impressionist, and Gerald Gildermeister, clown, juggler, and magician, are responsible for the rib-tickers.

On the heels of the ENCORE show comes the Tommy Dorsey Orchestra playing for a dance from 8:00 - 12:00 tonight. Led by Warren Covington this great band will play the arrangements that for 22 years made the magic name of Dorsey attract scores of dancers and listeners throughout the world. In the April 17 issue of DOWN BEAT there appeared an article by Covington about the Dorsey band. Just recently Covington has started a recording entitled "Music in the Tommie Dorsey Style".

There'll be a Meeting of the Maids here at 6:45 Thursday (tomorrow) night. All Huntsville Jr. Hostesses are urged to make this meeting to discuss participation in the May program. After our tete-a tete we will adjourn for the dance classes. Can you imagine it - there were more maids than men at our tango session last week. This class is progressing beautifully in perfectione de la tango de Argentine.

The Paragons recording session with Jim Beasley was simply wonderful. After completely wowing audiences in this area Jim is leaving us and will return to a Cincinnati orchestra to complete a 2½ year contract. These

boys don't miss a beat.

The Chess team leaves on the 11th for Memphis to play a series of matches with the Memphis Chess Team. The word has obviously gotten around about the Redstone team. Good luck, Chessmen, and have fun.

It's straight pool, calling all shots, and 50 ball games for the Pool Tournaments which start Tuesday night, May 6, at 7:00. Bob Bethea, manager of the team, wants the word to get around that the winners will form the Post Team that ventures forth to meet the challenges from other installations. Call 4741 or call Bob at 5991 if you want more info on the team.

Let's gather round the table for our patio picnic on the 16th when the Huntsville Jr. Hostesses are feted. The guest entertainer for the evening will be Richard Chase, expert on American folk songs, dances, and stories. Put this date on your list and check it twice.

Another date to remember is the Italian fiesta on the 24th. Only a limited number will be able to attend these parties, so see that your name gets on the list.

Space is eminent problem for us all these days. We're all trying to solve problems related to it. Our particular concern just now is in trying to accommodate all the people and all the various activities revolving around the SC. But there is always room for another cup of coffee. Let's adjourn to the kitchen.

Muriel

5 EMPLOYEES GET AWARDS FOR SUPERIOR WORK

Col. Milton H. Clark, Deputy Commander of the Army Ballistic Missile Agency, recently presented Sustained Superior Performance Awards to five ABMA employees.

Each of the five received letters of congratulations from Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command.

Recipients, their organizations, and the amount of money awarded were:

Mrs. Ester S. Gober, administrative assistant in the Control Office, \$200; Mrs. Bonnie E. Korisch, statistical clerk in the Financial Management Office, \$100; Paul C. Perry, employee utilization representative in the Civilian Personnel Office, \$200; Mrs. Lil-



CITED FOR WORK—Isadore E. Steger, (second from left) tire and tube repairer in the Transportation Division, receives the congratulations of Col. Keith T. O'Keefe, Redstone Arsenal commander, and Transportation officials during a recent ceremony in Col. O'Keefe's office. Steger was presented a sustained superior performance award and a check for the excellence of his work during the period from April to December, 1957. Left to right are: Col. O'Keefe; Steger; Stanley Wilkins, Chief of the Transportation Office; and Claude W. Davenport, Transportation maintenance supervisor.

Work safely . . . You can't earn much money on the "sling" shift . . . Work safely.

Hatcher Best Speaker At Toastmaster Meet

Liam M. Spray, administrative assistant in the Systems Support Equipment Laboratory, \$200; and Curt P. Herold, supervisory aeronautical research engineer in the Systems Support Equipment Lab, \$300.

Abe Hatcher of Thiokol Chemical Corp., was elected the best speaker of the evening at the last meeting of the Huntsville Toastmasters Club. Hatcher's subject was "My Candidate."

Other speakers included Ed Daugherty, Jim Johnston, and

Ernst Euterneck. Phil Youngblood was toastmaster and Frank Holmes was general evaluator. Greg Williams attended as a guest. Boobie prize for the most "A-h's" was awarded to Gene McClard.

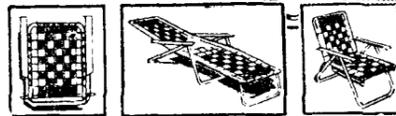
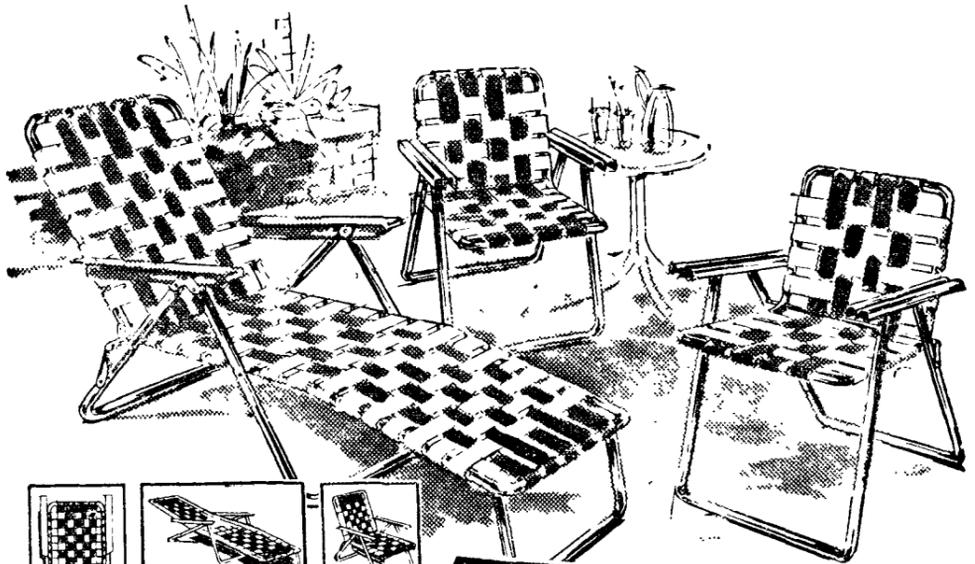
Anyone interested in joining the Huntsville Toastmasters should contact McClard at JE 4-0393.

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RECEIVES "THANKS" BADGE: Maj. William R. Hahn (center) is shown accepting the highest and most distinguished award attainable in Scouting—the Thanks badge. Making the presentation, as Mrs. Dixie Amos (left) Neighborhood Chairman, looks on, is Col. Duncan Hallock, guest speaker for the Scout Lodge dedication. (Story Inside).

Maj. Hahn Cited At Scout Ceremony

During a ceremony dedicating the Girl Scout Lodge at Redstone Arsenal yesterday afternoon on Squirrel Hill, Maj. William R. Hahn was presented the highest

and most distinguished award attainable in Scouting — The Thanks badge.

Maj. Hahn has given time and effort to the many vital and mundane jobs connected with such an organization," it was stated by Col. Duncan Hallock, who made the dedication address and conducted the ribbon cutting ceremony officially opening the Girl Scout Lodge. "The local association is fortunate, indeed, to have a member willing to tackle the many problems of this job to which there is no glamour attached," he said. "His contributions in all stages of this troop's development have been truly outstanding," he added.

Following the address, Col. Hallock presented a certificate of appreciation to the 580th Engineer Company, who helped erect the Lodge, and a plaque to the fathers of the Girl Scouts. First Lt. William C. Korklin, of the 580th Engineer Company, and Lt. Col. Charles Michaels accepted for their respective groups. Mrs. Ruth Daires was presented a ten year pin.

The meeting was opened by a

Local, Regional Astronomical Groups Slate Joint Meeting

The May meeting of the Rocket City Astronomical Society will be held jointly with the Huntsville Conference of the Southeastern Region of the Astronomical League on Saturday and Sunday, May 10 and 11.

Meetings will be held in the Huntsville Utilities Building Auditorium. A banquet is scheduled Saturday night at the Russell Erskine Hotel.

After-dinner speaker will be Dr. Ernst Stuhlinger, Director, Research Projects Office, Army Ballistic Missile Agency, whose

flag ceremony followed by the invocation which was given by Chaplain James H. Goewey.

The Scouts sang "Our Chalet." Benediction was given by Chaplain John A. Zwack and the Brownies sang the Brownie Smile Song.

The meeting was ended with the lowering of the flag and the Girl Scouts singing the Daytime Taps.

topic will be "Explorers at the Boundaries of Space."

Wives and friends of members of the two convening groups are invited to attend the banquet. Tickets are \$2.50 per plate. Reservations may be made with Conrad Swanson, Ext. 4619 or JE 4-6336.

Registration fee for the remainder of the convention, not including the banquet, is \$1.

Among prominent scientists scheduled to speak at various convention sessions are Dr. Armand Spitz, of the Smithsonian Astrophysical and Harvard University Observatories, and Dr. J. Allen Hynek, associate director of the Smithsonian Astrophysical Observatory. Dr. Hynek is in charge of the Observatory's satellite tracking program.

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- CANDY



NOW enjoy the last word in modern Credit Shopping with W. T. Grant "Charge-It" Plan

No down payment... up to eight months to pay... always more credit when you need it! That's the exciting story of the wonderful new credit way to shop, being presented in 600 W. T. Grant stores across the nation. Hailed as the greatest boon to family shopping, the new "Charge-It" Plan gives you up to \$200 or more to spend like cash anywhere in Grants, WITHOUT A DOWN PAYMENT! Now you buy what you want, when you want it... buy Sale specials without worrying about your budget... save enough to more than pay the tiny service fee charged! Join the million happy users — fill out the coupon today!

HOW MUCH DO YOU NEED?	\$50	\$100	\$200
	Pay \$1.75 weekly	Pay \$3.50 weekly	Pay \$7.00 weekly

FILL OUT THIS APPLICATION. Mail it or bring it in to-day!

W. T. GRANT CO. 115 SOUTH WASHINGTON
(Application involves no obligation)

NAME _____
ADDRESS _____
CITY _____ STATE _____
PHONE NO. _____

EMPLOYMENT	I HAVE ACCOUNTS AT...
Firm	How Long Store Open — Closed

W. T. GRANT CO.
115 SOUTH WASHINGTON

Officers and Wives Form Bowling League

An officers and wives mixed bowling league was formed recently at Redstone Arsenal for recreation during the coming seasons.

There are eight teams in the league each team consisting of two women and two men.

Officers selected to serve for the first season are: Lt. Col. Edward Klews, president; Mrs. Helen Hess, vice president; Mrs. Leonard, Treasurer; and Maj. Edward Usinger, secretary.

This is a handicap league with a maximum of 75% to give the novices an equal chance with the experts.

The best set for men bowled so far is 576 for Maj. James Prewitt with Mrs. Hess bowling a high 62 for the ladies.

The high single game was bowled by Maj. Usinger a 229. Mrs. Leonard has the highest single game for the ladies with 184.

The Blind Mice have the highest team score with an 831. Other

Special Services Activities

Post Gymnasium Operating Hours:
Monday thru Friday 1400-2200
Saturday 0900 - 1200 and 1300 - 1630.
Sunday 1300-1600

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

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

LIBRARY OPERATING HOURS
Monday thru Friday 1100-2200.
Saturday and Holidays 1000-2200.
Sunday 1400-2200.

Post Service Club Operating Hours
Monday thru Friday 1600-2200
Saturday 1000-2200.
Sunday and Holidays 0900-2200

FIELD SERVICE BOWLING LEAGUE

TEAM	WON	LOST
Guided Muscles	75	53
Crackers	74	54
Expeditors	68	60
Buzzards	62	66
Peons	61½	64½
Hawks	61	67
Blue Streaks	57	71
Honest Johns	53½	74½

200 GAMES

Thompson 247 Krewson 233
Graybill 217 Carroll 215 Barney 204 Farrar 202

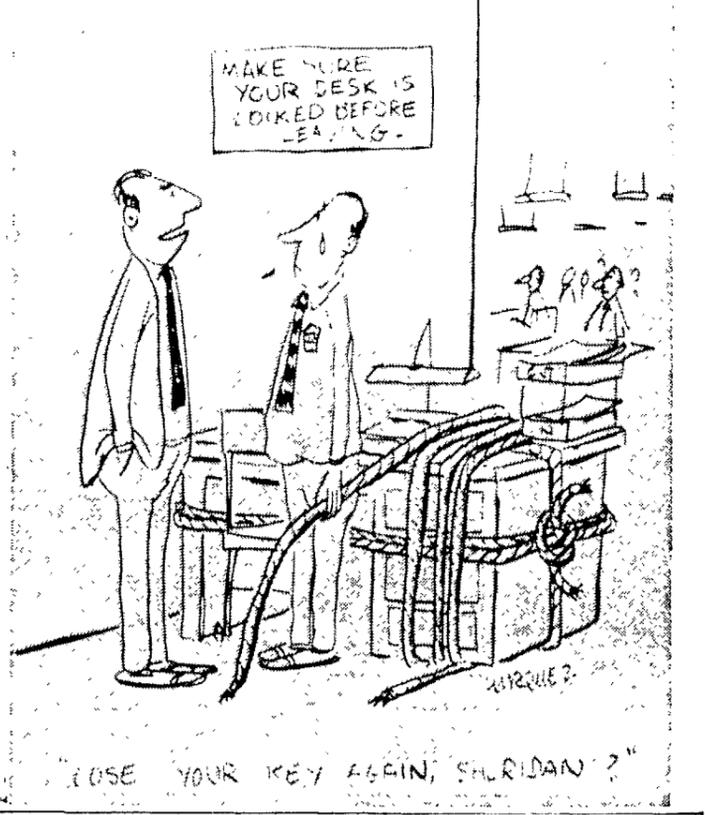
teams in the league are the D-Yanks, the Kingpins, the Bombers, the Four Thumbs, the Oddballs, the Holy Rollers and the Snake Bits.

Movie Schedule

Wednesday, 7 May 58, "The Goddess" starring Kim Stanley, and Lloyd Bridges (M) Time 2030
Thursday and Friday, 8 and 9 May 58, "The Proud Rebel" starring Alan Ladd, Olivia de Havilland and Dean Jagger (F) Time 1315, 1830 and 2030
Saturday, 10 May 58, "The Silent World" starring Frederick Dumas and Albert Falco, Time 1000 (F)
Saturday 10 May 58, "Quantrell's Raiders" starring Steve Cochran, Diane Brewster, Leo Gordon and Gale Robbins (F) Time 1830 and 2030
Sunday, 11 May 58, "This Happy Feeling" starring Debbie Reynolds, Curt Jurgens and John Saxon (M) Time 1400, 1830 and 2030
Monday, 12 May 58, "Blaze of Noon" starring William Holden, Anne Baxter and Sonny Tufts (F) Time 1315, 1830 and 2030
Tuesday, 13 May 58, "Katy O" starring Dan Duryea and Jan Sterling (F) 1830 and 2030
COMING to the Post Theater 15 and 16 May "The Young Lions"



Marlon Brando takes on the most unusual role of his career, that of "Christian," the Nazi Officer of Irwin Shaw's best-selling novel, "The Young Lions," now a Cinemascope drama will be playing at the Post Theater 16 and 16 May 1958. Admission for this movie only will be 25c for children and 50c for adults.



The trouble with meetings, claims one authority, is that people spend a lot of time talking about things they should be doing.

LYRIC THEATRE

HUNTSVILLE'S FINEST

LAST TIMES TODAY.

TYRONE POWER MARLENE DIETRICH
CHARLES LAUGHTON

Suspense without equal!

WITNESS for the PROSECUTION

RELEASED THRU UNITED ARTISTS

THURSDAY & FRIDAY

BOP GIRL GOES CALYPSO

JUDY TYLER · BOBBY TROUP · MARGO WOODS

— PLUS —

Suspense-Packed Western Hit!

OUTLAWS SON

DANE CLARK · BEN COOPER · LORI NELSON

RELEASED THRU UNITED ARTISTS

SATURDAY ONLY

GEORGE MONTGOMERY

STREET OF SINNERS

GERALDINE BROOKS · NEHEMIAH PERSOFF

— Plus —

Gun-hot! Rope-raw!

GUN BATTLE AT MONTEREY

STERLING HAYDEN · PAMELA DUNCAN

ALLIED ARTISTS PRODUCTION

SUN., MON., TUES.

PARIS HOLIDAY

BOB HOPE · ANITA EKBERG

STARTS WEDNESDAY

FORT MASSACRE

COLOR by DE LUKE
CINEMASCOPE

JOEL McCREA · FORREST TUCKER · SUSAN CABOT

RELEASED THRU UNITED ARTISTS

WOODY'S DRIVE-IN

TONIGHT & FRIDAY
—Double Feature—

TECHNICOLOR VISTAVISION

Doctor at Sea

DIRK BOGARDE · BRIGHTON SARDOT

— Plus —

Doctor in the House

Dirk Bogarde TECHNICOLOR

FRIDAY
DOUBLE FEATURE!

FROM ALASKA—FIRST WILD DAYS COMES THE STORY OF THE STRANGER

JAMES STEWART · RUTH ROMAN

THE PAR COUNTRY

TECHNICOLOR

— Plus —

NEW SIX GUN ACTION

THE GALLANT LEGION

WILLIAM ELLIOTT · ADRIAN BOOTH · JOSEPH SCHILDKRAUT · DORIS CABOT

ANDY DEVINE · JACK HOLY · GRANT WITHERS · ADELE MARA

SATURDAY
Dusk Till Dawn Show

Come when you please - Stay as long as you like. Four big shows - Two cartoons all for the price of one

PLUS

25 Silver Dollars free to the car with the lucky tag number.

STARTS SUNDAY

LAUREN BACALL · ROBERT STACK

The Gift of Love

COLOR by DE LUKE
CINEMASCOPE

PARKWAY DRIVE-IN

TUESDAY & WEDNESDAY

Teenage Monster

Will! Wanton! Wierd!

— plus —

THE BRAIN FROM PLANET AROUS

THURSDAY & FRIDAY

ROCK HUDSON

BATTLE HYMN

MARTHA HYER · DAN DURYEA · DON DUFRENE · ANNA KASHFI · JOCK MACARDY · CARL REED · RAY

CINEMASCOPE
TECHNICOLOR

SATURDAY ONLY

BOB ABBOTT · LOU COSTELLO

MEET THE MUMMY

MARIE WINDSOR and PEGGY KING

A UNIVERSAL INTERNATIONAL PICTURE

— Plus —

The First Texan

CINEMASCOPE

JOEL McCREA · FELICIA FARR · JEFF MORROW

STARTS SUNDAY
WALT DISNEY'S
"PERRI"
— in Color —

WHITESBURG DRIVE-IN

LAST TIMES TONIGHT

SAINT JOAN

RICHARD WIDMARK · RICHARD TOOD · JEAN SEBERG

THURSDAY & FRIDAY

3 BRAVE MEN

RAY MILLAND · ERNEST BORGNONE · FRANK LOVENEY · NINA FUCH · DEAN JAGGER

SATURDAY ONLY

RORY CALHOUN · MARY COSTA

THE BIG CAPER

PLUS

BEYOND MOMBASA

ANTHONY QUINN · DONNA REED · CORNEL WILDE

TECHNICOLOR

SUN., MON., TUES., WED.

DON'T GO NEAR THE WATER

GLENN FORD · GIP SOALA · CARL HOLLIMAN · ANNE FRANCIS · KEENAN WYNN · FRED CLARK · EVA GABOR · RUSS TAMBLIN · JEFF RICHARDS

CINEMASCOPE
METROCOLOR
A METRO GOLDWYN PICTURES PICTURE

GRAND THEATRE

THURSDAY & FRIDAY

Paramount presents
RICHARD KILEY and CARMEN SEVILLA in
SPANISH AFFAIR

co-starring JOSE GUARDIOLA
TECHNICOLOR
VISTAVISION

STARTS SUNDAY
THEY'RE IN A CLASS BY THEMSELVES!

CLARK GABLE · DORIS DAY

IN THE PERFECT RE-SEASON PRODUCTION OF
TEACHER'S PET

GIG YOUNG · MAMIE VAN DOREN

Produced by WILLIAM PERLSBERG Directed by GEORGE SEATON
Written by FAY and MICHAEL KANIN · A PARAMOUNT RELEASE



MONEY PROBLEMS?

Sometimes a well-timed loan will help clean up a troublesome situation in "nothing flat." Come in and talk the matter over with us. You'll be glad you did.

Loans \$60 to \$2000

G.A.C. FINANCE CORPORATION

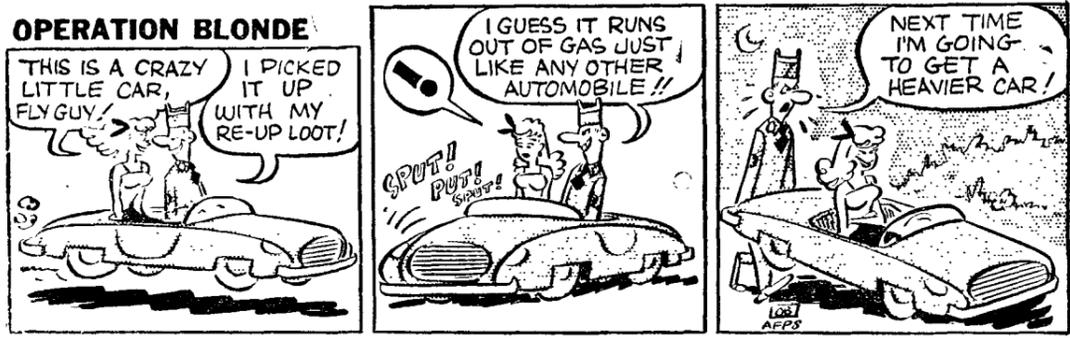
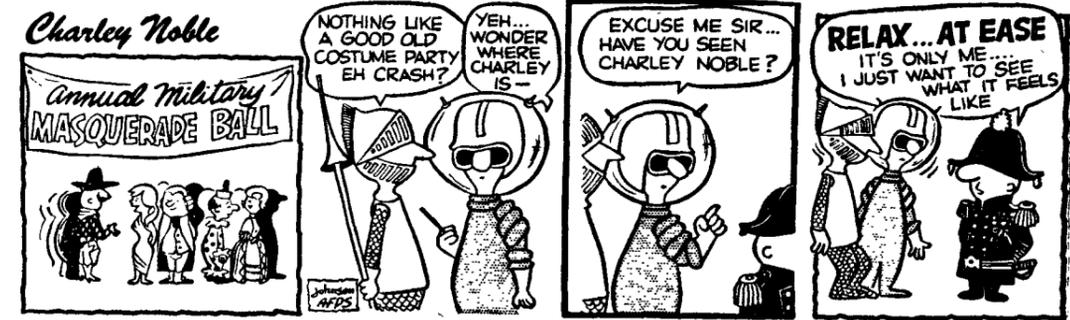
212 RANDOLPH STREET
Huntsville, Alabama
Tel. Jefferson 4-6458



MISS MELTON HONORED—Miss Marion S. Melton of Industrial Division, Army Ballistic Missile Agency, receives a Sustained Superior Performance Award of \$100 from Brig. Gen. J. A. Barclay, Agency commander. Miss Melton was recognized for her performance as a secretary from 1 August 1956 to 31 July 1957. She resides at 2426 Force Drive, Huntsville.



HAZARDS AVOIDED—The Post Quartermaster operates all kinds of services from carpentry and painting to selling clothes. Among his people, hammers on thumbs and paint in the eye are unusual. Above are six Quartermaster men receiving five-year pins for working without an accident. Left to right are: Harry E. Webb, Edgar H. Drake, Don D. Leach, Moe R. Phillips, Onnie R. Adams and Major Andrew J. Draper, Post Quartermaster.



Branch, Control Office and Executive Officer for the Agency. Prior to his assignment at ABMA he was chief of the ammunition branch of the Research and Development Division of the Ordnance Corps. The Army Ballistic Missile Agency is one segment of the newly established U. S. Army Ordnance Missile Command at Redstone Arsenal, Ala.

Col. Clark to Address Kiwanis, Memphis Bankers

Colonel Milton H. Clark, Deputy Commander of the Army Ballistic Missile Agency, will discuss "The ABMA Missile and Satellite Programs" in two appearances in Memphis today. At 11 A.M. today he will speak

at the annual convention of the Tennessee Bankers Association. He will address the Kiwanis Club of Memphis at a luncheon meeting. Prior to his assignment as Deputy Commander at the Agency, Col. Clark was Chief of the Research and Development Liaison

READ THE WANTADS



"Mother knows best" where to get the most for her food dollars! That's right HERE, where every day is Mother's day to get the foods her family favors at prices that s-t-r-e-t-c-h her budget! Try us soon.

WE HAVE IN STOCK THE NEW ZENITH PORTABLE RADIO

All Transistor — Trans-Oceanic "The World's Most Magnificent Radio"

— ALSO — RCA TV In Color — Zenith TV

Hi-Fi Tape Recorders (Sterophonic Sound)

TAKE ADVANTAGE of Our Precision Antenna Installation Service. We Make Service Calls 'til 9 O'clock Each Evening.

EDD'S RADIO & TV SERVICE

715 SEMINOLE DRIVE PHONE - DIAL JE 6-2301

WE SELL ONLY RATH'S BLACK HAWK USDA Choice Beef

WE CASH PAYROLL CHECKS!

Big Brothers Super Market

1406 WHITESBURG DRIVE

WANT ACTION?
USE WANT ADS

Contract Awards From ARGMA Told

Thirteen industry contractors received awards totaling \$1,000,000 or more from the Army Rocket and Guided Missile Agency during Fiscal Year 1957 and the first six months of Fiscal Year 1958.

This was reported to the Senate's Small Business Committee last week by Brig. Gen. J. G. Shinkle, ARGMA commander. He told the Committee that small business firms; i.e., employing less than 500 personnel, received \$152,000,000 worth of Army missile contracts for research and development or procurement.

- North Carolina, Western Electric Co., \$330,900,000.
- California, Radioplane Corp., \$10,878,079; Douglas Aircraft Co., \$21,000,000; Fieseler, \$1,120,000; Grinnell, \$1,747,962.
- Massachusetts, Raytheon Corp., \$72,200,000.
- Michigan, Curtiss Wright, \$16,439,786.
- Ohio, Okinite, \$2,890,625 and Goodyear, \$3,475,819.
- New York, Eastman Kodak, \$1,188,825 and Alco Products, \$1,588,940.
- Florida, Glenn, L. Martin, \$9,600,000.
- Texas, American Bridge Co., \$1,544,129.

ARGMA, an agency of the Army Ordnance Missile Command at Redstone Arsenal, is responsible for the NIKE family of surface-to-air missiles including the anti-missile missile, ZEUS. PLATO, HAWK, also air defense missiles; and HONEST JOHN, LITTLE JOHN, CORPORAL, LACROSSE and SERGEANT.



SAGE RECEIVES AWARD — Richard L. Sage, of the Guidance and Control Laboratory at the Army Ballistic Missile Agency, receives a Sustained Superior Performance Award of \$200 from Brig. Gen. J. A. Barclay, commander of the Agency. Sage was commended for his performance as an Electronic Specialist during the period from July 1956 to October 1957. He resides at Crescent Place, Huntsville.

TRAILER SPACE available at Decatur Trailer Park, concrete patios, laundry facilities on Highway 31 South, also at Uptown Trailer Court, Decatur, Ala. Convenient to churches, schools, business district. Five blocks south of river bridge on Highway 31. Modern laundry facilities. Wiring adequate for any kind of electrical appliance. For reservation write P.O. Box 239, Decatur, Ala. tfc

FURNITURE & APPLIANCE BARGAINS
 Drive out and see our display of quality home furnishings at wholesale prices. Our low overhead permits us to give you extra discount savings. Ask about our easy pay plan. Furniture Outlet Store, Meridianville, Ala., Phone JE 6-6857. Out-a-way — Less-to-pay tfc

JOHNSON SEA-HORSE Sales and Service, boats, trailers, marine accessories, used outboard motors, easy terms. **AUTOMOTIVE PARTS CO.**, 610 Meridian St., phone JE 2-5654. tfc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-7131. tfc

FOR SALE: Lake front residential property. Also: Lake front cabins and lots. See Word Real Estate and Insurance Agency, Guntersville, Ala. Office at the City Boat Dock. 5-29p

MODERN HEALTH Club Services — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy, sun lamp, swimming pool. Graduate Masseuse in charge. Phone JE 471-31. tfc

LOTS ON GUNTERSVILLE LAKE
 Just opened up beautiful new Meadow Wood with 46 excellent home sites. 20 waterfront lots. We also have several choice cottage sites. See or call Hootie Woodall, Woodall Real Estate and Insurance Agency, phone Justice 2-1351 or 2-4471, Guntersville. tfc

MONEY
 for
 Part-time Farm Owners
 and folks with
 Homes in the Country
 Ask for details on the low-cost, long-term, real estate loan plan now available from the Equitable Life Assurance Society of the U. S.
T. PICKENS GATES
 305 Terry-Hutchens Building
 Office Phone — JE 4-0371
 Residence — JE 4-6308

FOR SALE—Large new three bedroom, brick house, restricted subdivision, FHA Approved, can finance \$1,450.00 down (Arsenal employees must have 809). 5-7-c
 David Patton
 P. O. Box 366
 Athens, Ala.
 Phone 57

LOTS FOR SALE — 100x150 ft., zoned for duplexes, located at intersection of Jordan Lane and Highway 72 by-pass, app. 2500 north of Steadman's Restaurant, look for sign, reasonable pre-development prices. Call JE 2-2652. 5-7c

MODERN TRAILER PARK — Good neighborhood, close to schools, play area. See Mrs. Smith, 513 Sanders, Athens, Ala. Phone 248-R. 5-14p

FOR SALE — New 3 Bedroom Brick home on 150x160 ft. corner lot, in Brookmeade Subdivision, 2 ceramic tile baths, dining room, built-in kitchen and family room combination, large stone fireplace in living room, large patio and outside grill, carport, storage room, concrete driveway. Special price \$23,500.00. Owner leaving town. Phone Decatur EL-3-6610 after 5:00 p.m. for appointment. 5-7c

WHEN TERMITES swarm, call Andy's Pest Control, Phone JE JE 2-5078 or JE 6-3910. tfc

uction House, West Holmes St. — auction every Thursday night. Furniture sold off the floor each day of the week. If you have anything to sell we will sell it for you on 20 per cent commission. Phone JE 6-2241. tfc

MUST SELL, MOVING OUT OF TOWN—A beautiful 2 story brick with 3 bedrooms. Wall to wall carpeting, best section. Close to everything. \$14,500. loan available Call EL 3-4535. Decatur, Ala. after 4 p.m. 1tc

LOST: \$156 vicinity Gate 14, noon Sat. 3. Reward. Mail to Reba Medley, 1710 Sun Valley Road, Huntsville. 1tc

FOR SALE—1958 Plymouth Belvedere, 4-door hardtop, fully equipped, low mileage, \$2,795. Phone Redstone, extension 5226 or JE 64598. 1tc

CHICKEN HOUSE FOR SALE—34 ft. x 204 ft., frame building, sheet metal roof. Must clear property, will sell very reasonable. Phone JE 6-6301 or JE 4-1088. 1tp

SEE the amazing new ELECTROLUX, lightweight, easy to use, cleaning performance proved in your own home. D. H. Tidwell, 416 East Clinton, Huntsville. Sales and Service. 1tp

Inside and Outside PAINT
 WHITE AND ALL COLORS
 Gallon ----- **\$1.98**
 Trunks and Foot Lockers, all Sizes
Army-Navy Surplus Co.
 No. 7 S. Side Square
 "We Buy and Sell Anything"
 Phone JE 4-6991
 Open All Day Wednesday
 & 'Til Late Thursday Night

FOR SALE — 15ft. Dura-Craft runabout 35 hp Evinrude motor Little Dude trailer. Can be seen at 278 South Plymouth Drive. Phone JE 6-4674 days or 6-4393 after 7 p.m. 1tc

COMMERCIAL ARTIST— Want to get in touch with someone to do simple black and white illustration and lettering at moderate price as needed occasionally. Write or call ENQUIRER PRINTING CO. P. O. Box 520, Hartselle, Ala., phone SP 3-4891. 1tc

FOR RENT—2—Room house at Cotaco (Woodland Mills) in Morgan County, 15 miles from arsenal. \$14 per mo. J. M. CHUNN, Valhermosa Springs, phone SPruce 3-7620. 1tp

LADIES— for your Luzier's beauty preparations, call Mrs. Geneva Boyd, JE 4-4701. 1tc

Gressley to Speak At ASIS Meeting

The American Society for Industrial Security will meet tonight at the Russel Erskine Hotel. Mr. Phil Gressley, chief of industrial security for the Inspector of Naval Material in Atlanta, Ga., will be the guest speaker. The quota was reached soon after the first meeting to receive a charter from the national organization for a local group chapter. Applications for membership in this organization should be addressed to the American Society for Industrial Security 1541 Warren Drive, Huntsville.

MOTHER'S DAY SPECIAL!
 20 Treatments — \$35.00

Reducing Specialists for 20 Years!
 5,000,000 happy women have remade their figures at Stauffer System!

STAUFFER SYSTEM SALONS

For a courtesy demonstration...
 Parkway Center Phone JE 6-4781

MILK

Contains all the important food values you need for good health and lots of energy... It refreshes 'round the clock!

DRINK PLENTY of MILK
 Plain or Flavored

Meadow Gold DAIRIES
 601 W. CLINTON ST. Phone JE 2-8464 HUNTSVILLE

GIs

No Down Payment

On Our 3 Bedroom Brick Homes
 IN
CRESTWOOD

• You Just Pay Closing Costs •
COME OUT TODAY AND INSPECT

these well planned homes that feature Chrysler Airtemp natural gas heat, storage space aplenty—full living and dining rooms (some have breakfast nooks, or eating areas in kitchen), to 1½ ceramic tiled baths, concrete driveways. Many other features to please the most discriminating buyer.

Conveniently Located Near
 • Arsenal • Schools • Churches • Shopping

Directions
 Just ½ mile west of Jordan Lane on Madison Pike.
 Only ½ mile from Arsenal Gate 1.

Gene BLOCKER Realty
 & INSURANCE
 310 Huntsville Electric Center — JE 6-6331

ARMY'S MISSILE AND ROCKET ROSTER LISTS MORE THAN 100 ACTIVE UNITS

WASHINGTON—The launching of America's first earth satellite by the Army on January 31 was the culmination of a research and development, training and organizational effort that has put more than 100 fully manned and operational missile and rocket units in the field from the Bamboo Curtain in Korea to the Iron Curtain of Europe.

On December 31, 1957, one month before the Explorer began sending its stream of messages from outer space, the Army had on active duty 65 Nike missile air defense units and 23 major surface-to-surface missile units—the Army's modern artillery.

Also operational were new missile commands, the "medium" type employing both Corporals and Honest Johns, and the air-transportable type equipped with Honest Johns.

During the process of reorganizing every infantry, armored and airborne division into the flexible pentomic structure, the Army recognized the necessity of fielding equally flexible missile commands with weapons equipped with atomic warheads, to support the fast-moving battle groups of the pentomic divisions.

The missile command, with its mobile, long-range weapons, was created as the tactical organization for added "artillery" support of American and Allied field units.

Realizing that the far-ranging battle groups of the divisions would also need a bigger punch than could be furnished by con-

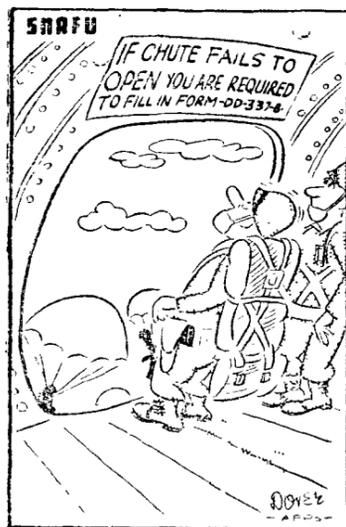
ventional type artillery, the Army is equipping each division with Honest Johns, atomic warheaded

Each of the surface-to-surface battalions already operational—the Redstone, Honest John and Corporal battalions—has its own support units. These are small detachments of mobile infantry, artillery (for fire coordination), engineer, ordnance and signal units to handle maintenance, communications and other chores, leaving the missilemen free to concentrate on zeroing in on the target.



What's the matter, ma'am?" cried the startle truck driver.

Mrs. Smith, her eyes filled with tears, pointed to the packing case, upon which was stenciled in large black letters: "BILL INSIDE."



Remember Mother

MAY 11th

WITH A QUALITY GIFT from DUNNAVANT'S



smart Gloves

- Nylon ● Rayon
- Washable Leather
- Cotton

\$1.00 - \$2.00

and to \$4.95

To glove her hand on Mother's Day, we've a fashion right choice of gloves in smart colors, fine fabrics.

To Complete Her Costume Give Mother a Quality

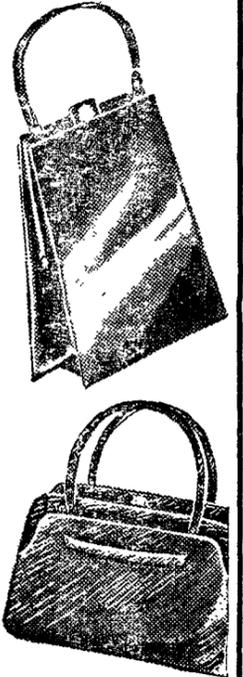
HANDBAG

- Calves ● Patents ● Straws
- Fannies ● Cordes ● Shell Trims

\$4.95 to \$7.95

and \$2.98 to \$16.95

Find the handbag Mother's wishing for in our extra-special collection. For fashion, for pretty looks and big carrying capacity, these handbags just can't be equalled. They're value priced, too. Gift Boxed, Gift wrapped, and Mailed anywhere.



FOR MOTHER AND YOU!

NEW NYLONS

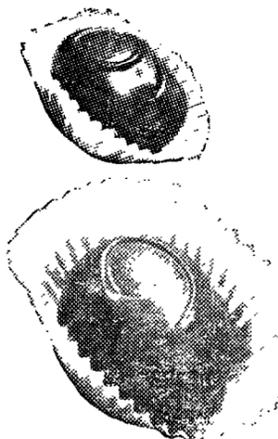
Very gift-worthy, see-worthy colors and styles by world famous makers such as:

- Hanes ● Belle Sharmeer ● Mary Grey

\$1.35 — \$1.50 — \$1.65 — \$1.95

The new fashion focus is on legs... end on our delightful new nylons! GIFT BOXED. GIFT WRAPPED... and mailed anywhere.

DELICIOUS Chocolates



By

- MRS. STEVENS
- ELMERS

You're sure to please when you give Mom our fresh, delicious candies. Special assortments of all her favorites. Mailed anywhere.

79c — \$1.45 — \$1.00



TO MOTHER WITH LOVE You'll find the perfect expression of your love in our wide selection of beautiful cards for Mother

5¢ TO \$1.00

DUNNAVANT'S

- Gift Wrapped ● Mailed Anywhere