

# The Redstone Rocket

VOL. V; NO. 33

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 4, 1955

## GEN. MEDARIS DECLARES —

# Wilson Memo Won't Alter ABMA Work Program

## SUCCESS IS SEEN IN FUND DRIVE

### Campaign Chairm'n Says Goal to be Met

The One-Time Drive was nearing its climax as this issue of The Rocket went to press, and Kermit W. Day, chairman of the drive's executive committee, was confidently predicting that the Arsenal's goal of \$70,000 would be reached.

The half-way mark was passed last Tuesday, when the total gifts and pledges reported reached \$29,000.

Once over the hump, the figure began to rise rapidly. By the next day the total reported to the drive's central office was \$51,721.

"Every hour the figure changes," Mr. Day said at that time. "There is a lot of money in the pipe line, as it takes time to assemble reports from our 490 drive workers."

The \$51,721 figure was the total of reports from Redstone Arsenal, the Army Ballistic Missile Agency, the Ordnance Guided Missile School, Thiokol Chemical Corporation, Rohm and Haas Chemical Company, and Chrysler Corporation's local representatives.

This is the first year that Thiokol has used the payroll deduction plan. Pledges and contributions from them totaled \$5200 Thursday, of which the corporation itself contributed \$1000.

Mrs. Sarah Hymer, chairman for Rohm and Haas, reported that 229 of the 237 employees there had contributed \$3,167.45, averaging \$13.83 each.

Average gifts were impressive from many offices at Redstone (See SUCCESS on Page 12)

## ABMA Forms Training Division

Formation of a Training Division in the Army Ballistic Missile Agency was announced last week by Maj. Gen. J. B. Medaris, the Agency commander.

The new division will have two branches, one handling training plans and requirements, the other

in charge of training operations.

As outlined by Gen. Medaris, the division's mission will be to plan, supervise and evaluate individual training for Army and Navy ballistic missile personnel, and unit training for Army Ballistic missile units. The first unit organized to handle the medium range Redstone ballstic guided missile, the 217th Field Artillery Missile Battalion, is now in training at the Agency.

The Plans Branch will develop training plans and requirements to parallel missile development within established concept and doctrine for employment and logistical support of ballistic missiles. The Operations Branch will plan for the execution of, supervise and evaluate individual and unit training of missile and support units.

General Medaris emphasized that the division will maintain close liaison with Department of the Army Staff, Navy, Engineer, Signal and Transportation Offices of his command for guidance as to their respective policies and requirements. It will also establish liaison with service schools and will determine national mission training needs.

Lt. Col. Richard G. Thomas will be director of the division. Col. Thomas has been assistant

chief of the Department of Army Staff in the Missile Agency.

Col. Thomas entered the Army Oct. 1, 1940. He is a graduate of Gibsonville, N. C. High School and North Carolina State College. During World War II he served in the Asiatic-Pacific Theater. He commanded the 495th AAA Missile Battalion at Fort Bliss prior to joining ABMA.



PROF. HERMANN OBERTH

## OBERTH WINNER OF ANNUAL AWARD MADE BY AMERICAN ROCKET SOCIETY

Prof. Hermann Oberth, chief of the special fields section, Research Projects Office, in the Army Ballistic Missile Agency,

was named 1956 winner of the G. Edward Pendray Award last week by the American Rocket Society. The presentation occurred at the Society's Honor Night Dinner in New York City.

Prof. Oberth was singled out for his classic work, "Rocket to Interplanetary Spaces," published in 1923 but only now receiving just recognition. He was one of the early pioneers in the technical literature of rocket and jet propulsion.

Prof. Oberth became a consulting engineer at Redstone Arsenal June 3, 1955. He transferred to the Army Missile Agency this year. Prof. and Mrs. Oberth, who live in Huntsville, have a son, Dr. Adolph Edward Oberth, a chemist with DuPont in Parlin, N.J., and a daughter, Dr. Erna Markstaller, who is a lawyer in Germany.

The renowned physicist was born at Hermannstadt, Transylvania in June, 1894. He attended schools at Schaessburg until he entered the university at Munchen in 1913. He also studied at Gottingen and Heidelberg. In 1923 he became a professor of mathematics and physics.

He experimented with gasoline and liquid air for rocket propulsion in 1928-30 while working as advisor to a motion picture company. Later he pursued rocket research at Vienna Technical University and Dresden. In 1941 he joined the Peenemunde group headed by Dr. Wernher von Braun. Following the war he carried on rocket investigation privately. He was employed by the

(See OBERTH on Page 12)

## N. Y. Times to Run Feature About Post

The New York Times Sunday Magazine Section of Dec. 9 will feature a two-page picture about Redstone Arsenal, the Army Ballistics Missile Agency, and the Ordnance Guided Missile School.

Pictures for the layout were taken here recently by one of the Times' top photographers, George Tames, who did the official portrait of President Eisenhower.

## JUPITER PROJECT WILL CONTINUE

### ABMA Chief Cites Provisions of Memo

The decision of the Secretary of Defense on roles and missions of the Armed Services in the guided missile field will not alter the present work program of the Army Ballistic Missile Agency.

This was made clear last week by Maj. Gen. J. B. Medaris, the Agency commander. Gen. Medaris emphasized that by the actual language of the defense memorandum,

The complete text of Secretary Wilson's memorandum is carried on inside pages of this week's Rocket.

developmental work by his Agency on the Jupiter Intermediate Range Ballistic Missile will continue.

He quoted the text of Secretary Wilson's memorandum as follows:

"There are a number of other matters relating to the research and development of particular weapons that will affect the choice of weapons to be used for various missions in the Armed Services. These choices can only be made after a careful technical review of the capabilities of the various weapons under development. I refer particularly to weapons systems such as Nike and Talos and the multiple approach (Jupiter, Thor) to developments such as the IRBM. This memorandum does not attempt to answer these questions, which can only be decided after the studies now in progress are completed and should not be so interpreted. In the meantime, these com-

(See JUPITER on Page 2)

## Sen. Russell Sees 'No Real Changes' For ABMA, Redstone

Press wires carried a story last week quoting Georgia's Senator Richard Russell, chairman of the Armed Services Committee, as saying, "no real changes" are planned for ABMA or Redstone Arsenal. He cited the "tremendous investment" here.

He also said he expects substantial "debate" of the recent Wilson memo.

Sen. Russell also expressed "apprehension" that the Army might be "trimmed back too far."



LT. COL. RICHARD G. THOMAS Heads Training Unit

## OGMS TO PLAY ROLE IN DELIVERY OF NEW PLANES

The Ordnance Guided Missile School will play a major role Sunday in the first delivery of the revolutionary new Lockheed C-130 transports to the Tactical Air Command.

The school is supplying a Nike I guided missile as the cargo in one of four planes to be delivered to TAC before an expected crowd of 20,000 people at Ardmore Air Force Base, Ardmore, Oklahoma.

An old-time stage coach, an Air Force fuel truck, and a disassembled airplane engine test stand will make up the cargo on the other three planes.

The planes, called the "first jet age aircraft in America," will fly from Lockheed's plant in Marietta, Georgia, and land in mid-afternoon, after which the NIKE will be unloaded and displayed for public viewing.

## DR. FRED SINGER TO BE SPEAKER AT LOCAL ROCKET SOCIETY MEETING



DR. S. FRED SINGER

Dr. S. Fred Singer, professor of physics at the University of Maryland, will be the principal speaker at the annual dinner meeting of the American Rocket Society (Atlanta Section) on December 12.

Newly-elected officers will be installed at the meeting, to be held at the Elks Club.

Dr. Singer, who is most widely known for his research on "Minimum Unmanned Satellite of the Earth" (MOUSE), has delved extensively into many aspects of upper atmospheric physics. He was among the first to study satellite lifetimes. Currently he is heading a series of tests, using the new Terrapin missile, to probe the ionosphere.

Dr. Singer will speak on a topic that promises to be of special interest to the members, their wives and guests, "Education in the Space Age."

He will be introduced by Dr. Wernher von Braun, director of (See DR. SINGER on Page 2)



REACHING FOR MOON — This billboard near Redstone Arsenal's Gate 1 was used during the One-Time Drive to report the progress daily toward the goal of \$70,000, represented by the moon. Miss Ann Hauer, of Mail and Records Section, Redstone Arsenal, is about to place a rocket two-thirds of the way from the Arsenal to the moon, depicting progress of the drive as of Thursday. (Photo by Rex Evers)

# The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Tuesday by Jack W. Hoffhaus, 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.

The Rocket is NOT an official or semi-official Army or Ordnance Corps publication. Policies and statements reflected in the news and editorial columns represent the views of the individual writers and are not necessarily those of the Department of the Army, the Ordnance Corps, or Redstone Arsenal. Appearance of advertisements in the Rocket does not constitute an endorsement of the advertising matter by the Department of the Army, the Ordnance Corps, or Redstone Arsenal.

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## Dr. Singer

(Continued from Page 1)  
 the Development Operations Division, Army Ballistic Missile Agency.

A social hour will precede the dinner from 6 to 6:45 p.m. Members and non-members may make reservations by calling Robert Betts, 3884; David Newby, 3416, or Tom Glynn, 3238. Deadline for reservations is December 7.

New officers to be installed by the club are: Cliff E. Fitton, Jr., president; David H. Newby, vice

## Jupiter

(Continued From Page 1)  
 peting weapons systems will continue with support from FY 1957 Funds until the completion of the technical evaluation referred to above. Budget support in FY 1958 for the land-based Talos (an anti-aircraft missile), as required, will be provided by the Army. Budget support in FY 1958 for the land-based IRBM program, as required, will be provided by the Air Force."

General Medaris pointed out that the statement he made public Nov. 23 on authority of the Army Chief of Staff was in anticipation of the Secretary's decision. That statement said:

"The Army authorized me to announce that any existing developmental missile program will not be affected by any forthcoming decisions on service operational responsibilities. The Secretary of Defense has repeatedly stated that a decision with reference to roles and missions would not involve the termination of any particular weapons system."

The Agency Commander also called attention to the fact that the decision refers to the Redstone medium range missile, another project of his organization as an Army weapon. The Agency is now engaged in weaponization of the Redstone. The Army unit formed to handle the program in the field, the 217th Field Artillery Missile Battalion, is now in training at the Agency. Last week Gen. Medaris

president, and William A. Davis, Jr., Conrad Helle, and Conrad D. Swanson members of the board of directors.

## COL. HAGGARD IS LIAISON OFFICER FOR POST FROM CHIEF OF ENGINEERS

(Editor's Note: This is another in the series of articles about the several officers who are serving at this installation in liaison capacities from other commands.)

Lt. Col. Neal E. Haggard is on duty here from the Office of the Chief of Engineers as liaison officer to Redstone Arsenal.

His primary purpose here is to keep the Chief of Engineers informed of current and future requirements for Engineer equipment for operation of Guided Missile systems.

In execution of this responsibility, he has close contact with numerous Corps of Engineers activities which contribute to the Engineer mission, such as Engineer Research and Development Laboratories and Engineer Maintenance Center. He is available and anxious to assist personnel

is also announced the formation of a training division in the Agency.

Referring to the Redstone Missile, the Secretary's memorandum stated:

"The Army will continue its development of surface-to-surface missiles for close support of Army field operations with the following limitations:

"That such missiles be designed and programmed for use against tactical targets within the Zone of Operations, defined as extending not more than 100 miles beyond the front lines. As such missiles would presumably be employed within the combat zone normally extending back of the lines about 100 miles, this places a range limitation of about 200 miles on the design criteria for such weapons.

"That the tactical support functions beyond those that can be provided by Army surface-to-surface missiles, as above defined, remain the responsibility of the Air Force."

While the decision gave the Air Force responsibility for operational employment of the land-based IRBM System, it also stated that this does not, however, prohibit the Army from making limited feasibility studies in this area."

Secretary Wilson also made this comment:

"It should be clearly understood that the approval of roles and missions of the Armed Services for guidance in peacetime does not predetermine the weapons or forces which a commander in the field would be permitted to use in event of war."



LT. COL. NEAL E. HAGGARD

of the arsenal in solution of their problems involving the Corps of Engineers.

Lt. Col. Haggard has been at Redstone Arsenal since July of 1956 after completing a three-year tour in Japan. The greater part of his Army service has been in the fields of Troop Operations, Construction, and Supply, plus three years spent at the Engineer School at Fort Belvoir.

Lt. Col. Haggard's office location is Room 41, Bldg. A-101, Telephone 4423.

## AAUS Membership Information Issued

Membership in the Association of the U.S. Army is not limited to military personnel but is also available to nonmilitary members including civilian career members of the Department of the Army, it has been pointed out by officials of the organization.

Information on the different types of membership and dues may be obtained by writing to Association of the U. S. Army, 1529-18th St. NW, Washington 6, D. C.

The objective of the AAUS is "to contribute its full resources and capabilities to advancing the security of the United States."

The Association, according to a statement by its Executive Council, is "an organization wherein all who are in accord with its objectives may join in the exchange of ideas and information on military matters, and in fostering, supporting, and advocating the legitimate and proper role of the Army of the United States and of all its elements, branches, and components in providing for and assuring the nation's military security."

## Today Is 'D-Day' — For Blood Donors

Today is "D-Day." "Donor Day," that is. It's the day when you can become a blood donor. The local Red Cross chapter Bloodmobile will be on the post from 9 a.m. to 1 p.m. today for all persons who wish to give blood to others who need it to live.

The Bloodmobile will be at Bl. T-155.

It takes a woman to do a bang-up job of parking a car.

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# Rocket-Builder Jimmy Blackmon Wins Chrysler-ARS Scholarship

Jimmy Blackmon the 17-year-old student who built a rocket which won plaudits of Army missile experts, last week received the Chrysler Corp.-American Rocket Society award which means \$1,000 towards the cost of his college education.

Jimmy was handed his certificate by Maj. Gen. J. B. Medaris, who commands the Army Ballistic Missile Agency, at the Honors Night dinner of the Rocket Society in the Henry Hudson Hotel in New York City.

A student at Phillips Academy in Massachusetts, Jimmy developed his own plans and fabricated the rocket. The Army gave him a tour of Redstone Arsenal and ABMA for his interest. Such top experts as Dr. Wernher von Braun, director of development operations at ABMA, discussed his work with Jimmy and encouraged him to continue.

Chrysler, prime production contractor for the Redstone medium range ballistic guided missile, endowed the scholarship with sanction of the Rocket Society. It will be awarded annually hereafter to the outstanding rocket designed by an American boy.

General Medaris praised the sponsors for their gift, declaring "it is in keeping with the American tradition of recognizing individual enterprise." He said the Army hopes it will inspire others.

Urging more interest in mathematics and science in grammar schools, high schools and college, General Medaris declared that "America's continued progress depends in large degree upon the numbers of technically qualified men and women who can push the frontiers of knowledge to new horizons."

"Now the hitherto unexplored fourth dimension, that of outer space, is under investigation," he added. "The vistas so far exposed are limitless in promise. For here is a higher road on which transportation can proceed without re-

## Service Club Schedule

And here it is Santa Claus time again. Boy! I shudder to think of what some of these people I know will get. Best they not hang up their socks cause — We're trying real hard though to get a cute 'lil doll for all the EM. Would advise you to place your order now at the Service Club. Would you like one that opens her eyes, or one with real hair that can be shampooed, or one that you can just hold and gaze at or would you rather place a safe bet and have a paper doll

that you can call your own. One that you can just fold up in your billfold and place on the wall at night. There's all kinds so hurry and let us know. We don't want to dissappoint any of you boys.

We're going to place a bag in front of the club to collect switches for all those who are sooo deserving. We'll need plenty so grab a handful and bring them down. I'm dreaming of a White Christmas -da-de-da OH! I'm so glad I've been a good girl. Now, all of you boys must get together and fix your Service Club Hostesses up but — PLEASE — we don't want paper dolls.

For all of you non-allergic chocolate eaters, we are planning a fudge party (provided you come pick the nuts out) no not Renfro or Jake pecan nuts, that is, for Friday, Dec. 7 at 7:30 p.m. Just giving you plenty of advance notice so you can get the nuts ready. Another project planned is a Buffet Supper for Saturday, Dec. 8 at 6:30 p.m. Be sure to sign up by Thursday, Dec. 6.

We have some great programs planned for this month in the way of entertainment, so give an ear Sunday, Dec. 9, at 3 p.m. the Huntsville High School Glee Club will give a Christmas concert here at the Club. We are getting a Third Army Package Show for Dec. 12 and from the looks of the package already received, it is going to be great! It has dancers, (girl dancers). Take it easy fellows, just promise me that you won't jump up on the stage.

Seriously, this is one of the lar-



JIMMY BLACKMON

gard to weather or intervening obstacles within a time span so brief as to defy belief"

The general said that progress in rocketry is so rapid that resources are inadequate to exploit all the projects "we know can be fulfilled."

"For those who sometimes despair of the future," he added, "there is always a Jimmy Blackmon to silence their alarms. Out of this kind of independent thinking and effort have come many of the great discoveries of the past. To Jimmy Blackmon belongs the honor of being first to win this generous recognition. The Army congratulates you. The future belongs to you"

ger shows from Third Army — the program consists of Pantomists, skaters, (girls) acrobats, rope artists, dancers (girls) and various types of solo musicians so you can see it is a great variety and will be a terrific show. So don't forget the date — 8 p.m. at the Rocket Service Club. On Friday, Dec. 14 at 7:30 p.m. Miss Irene Jones' Dance Studio is going to give a Dance Review (girls) and Dec. 18 at 7 p.m. the Missilemen and Maids (girls) are going to give their Christmas concert so see we really have some excellent programs lined up so never say we weren't good to you cause every program is guaranteed to have girls.

We're planning our Christmas Formal for the 19th of December so let's all keep that date in mind and make plans now to at-

tend. We should like to issue an open invitation to the young ladies at the Arsenal to attend.

Well, the Christmas spirit is beginning to buzz so why don't you come over and enjoy it with us — We do have fun so why don't

Y'all come, Kate



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# ABMA FABRICATION LAB NEWS

In our organization we have many new employees and this means the making of new friends. "Give me a friend and my youth may depart. . . But I'll still be young in the home of my heart. . . Yes, I'll go laughing right on to the end. . . Whatever the years if you give me a friend." I will not make any side remarks for fear of desecrating these words. But we all know that friendship is a beautiful thing. So we'll jump smack-dab in the middle of what we've heard from our various sections in Fab. Lab.

In our Administration Office we find: Mrs. Carla S. Liprot who came from her home in Philadelphia to work with us and Miss Rachel McFerrin, who transferred from Budget & Cost Section, Post Engineers, Redstone. Across the hall is Mrs. Doris Albright in Development Shops Section, coming from Design Engineering Branch. Mrs. Albright replaced Mrs. Nell Mintz. Nell worked with us a long time and is being greatly missed by all.

Engineering Liaison Staff: Under the supervision of Phil Yohannan are Stephen F. Heim, who came from Ft. Eustis, Va.; Clyde Gardner, who transferred from RSA Industrial Div; Robert

G. Esgar, from Memphis; Gen. Depot; and Mrs. Edith Raby also transferred to us from Industrial Div.

Advance Planning: under the supervision of Walter Crumpton, we have Fred Weckwarth from New York Dist. Corps Engineers; Vance Tromblee of Lockheed Aircraft, Marietta, Ga.; and another although not a new employee is Eugene Davis, a former foreman of SS-411. Gene has a "M" in his name. I forgot to tell you. He won't accept his pay check if that "M" isn't in the right place in spelling.

Master Mechanic Unit: Has a beautiful girl, Marie Gray, who came from Decatur as secretary to a loan co. before taking up her work in Leo Bauer's office. John Farrer, who works in Mr. Kuer's office, had to leave his air conditioned office in Bldg. 405 to return to 412.

Fuselage & Models Section: Richard Taylor and his 12 engineers have a most recent addition, Elton E. McDonald of Monroeville, Ala.

Scheduling & Layout Section: John Rowden, a former TVA employee and resident of Chattanooga, Tenn., is working with Bill Birmingham. Also, another employee in Mr. Birmingham's office is S. N. Johnson, a former State of Alabama highway employee, who hails from Albertville. In Guy Kay's office you will find William Todd, our lucky Bill, and if his luck holds out he will do as well as the professional ball players this year. eh! Bill? ? ? Secretary in Mr. Potter's office is Miss Irene Shafer. Irene transferred from 488 and is replacement to Mrs. Jack Smith. Sarah is another employe of several years in our lab.

Tool Engineering: With Mr. Ellison as supervisor, we find Leroy Gentry of Albertville, and a former employee of Phoenix Mfg. Co. Operation Section: We usually speak of this as Bailey's Section. He is a former teacher and member of the City Board of Education, Scottsboro. Wm. T. Sloan, Hugh Smith, and Harvey Mossawir have left our lab. to work in 488.

For the lack of a dog a squirrel hunt was lost — So Wilson Anderson has acquired a black and tan squirrel dog. Something else about our animals, and all animals are close to the hearts of most of us. One of our Fab. Lab. employe's friends came visiting from away out in Calif. Along with them came "Sissy" the Siamese kitten to visit "Tinker," the employe's Siamese cat in Decatur. "Sissy" and her family were enroute to Holland. Now Gloria,

# RSA INDUSTRIAL DIVISION NEWS

In this issue, we would like to tell you more about our National Industrial Engineering Branch personnel:

Lt. Col. S. M. Frank, recently assigned to Redstone Arsenal, has been further assigned as Special Projects Officer and Chief of the Technical Programs and Administrative Section, National Industrial Engineering Branch, Industrial Division.

Mrs. Frank is the daughter of Major General and Mrs. B. F. Armstrong. Major General Armstrong is retired Deputy Chief of

"Sissy" has nothing on you for it was only a year ago today that you went sailing the ocean.

Happy birthday to our two very little friends. . . Opal Buiks and Dorothy Eakes.

Thanksgiving Visits: Harry Coons and Walter Crumpton returned to their Alma Mater, Auburn, when Auburn and Mississippi State played. This was their Thanksgiving visit. Mrs. Judy Viceo made her Thanksgiving visit to her mother in Lexington, Ky. early this year. Jean Bratton went to Nashville. Elmer Gunter to Memphis. Gloria and Jimmie to Montgomery, and most of the rest of us worked a long weekend. Lucky you.

Christmas Party: It's in the offing. . . isn't that interesting? Soon invitations will be out to our annual Christmas Party at the Russell Erskine. . . And you are to ALL COME. . .

Add to our cradle roll: the little girl, who made her first appearance recently at the Holy Name of Jesus Hospital, Gadsden, as the daughter of Evelyn and Harold Fuqua. Harold is an employe in Scheduling & Statical Control Unit, under the supervision of Mr. McDemott and Evelyn is an employe of Personnel Office, Redstone Arsenal.

General Staff, South African Forces. The Franks were married in Cairo, Egypt, and have two children, Selby, age 11, and Alexandra Helyn, 6 years old. Selby was born in Capetown, South Africa, and Helyn was born in Montgomery, Alabama.

Col. Frank received a B.S. Degree in Mechanical Engineering from the University of Maryland

During World War II he served in the Middle East, U. S. North African Military Mission and 9th U. S. Army Air Forces. Assignments after the war included Ordnance Officer for the Air Training Command, Barksdale, La., student and instructor Air Command Staff College, Maxwell Field, Montgomery, Alabama, Ordnance Board, Director of Supply and Chief, Management Branch, Aberdeen Proving Ground, Md., Deputy Commander, Sierra Ordnance Depot and Ordnance Advisor, Joint U. S. Military Advisory Group to Philippine Republic.

Col. Frank has spent over six years of his military service in foreign countries and brings a wealth of experience with him to Redstone Arsenal.

We of the Administrative Office have a new project officer. Recently assigned to us is Lt. S. H. Anderson. He calls Minneapolis, Minn. home, and has a degree from the University of Minnesota. A recent letter from Col. George E. Levins tells of his assignment as Commanding Officer of USAEUR Supply Depot of

# OOPS — WRONG BOX

That article in last week's Rocket headed "Found in the Suggestion Box" wasn't referring to the suggestion boxes operated by Frank Holmes, executive secretary of the post's Incentive Awards Committee.

As most readers perhaps confusedly found out, the story was one that should not have appeared in The Rocket at all, but instead in a Morgan County High School paper called The Riddle.

And the answer to that riddle is that both papers are printed by the same publisher at the same plant, in Hartsville, and somehow our type got mixed up in this instance. It won't happen again (we hope)

# OCO PIO VISITS HERE

Lt. Col. Charles Arnold, Public Information Officer in the Office of the Chief of Ordnance, visited Redstone Arsenal, the Ordnance Guided Missile School, and then received the regular Army Ballistic Missile Agency orientation course last week.

some 600 people in Orleans, France. Living in France is vastly different from "life in these U. S.," says the colonel, but on the whole is most enjoyable. He's made some side trips to Paris and Nice. Mrs. Levins expects to join him the latter part of November.

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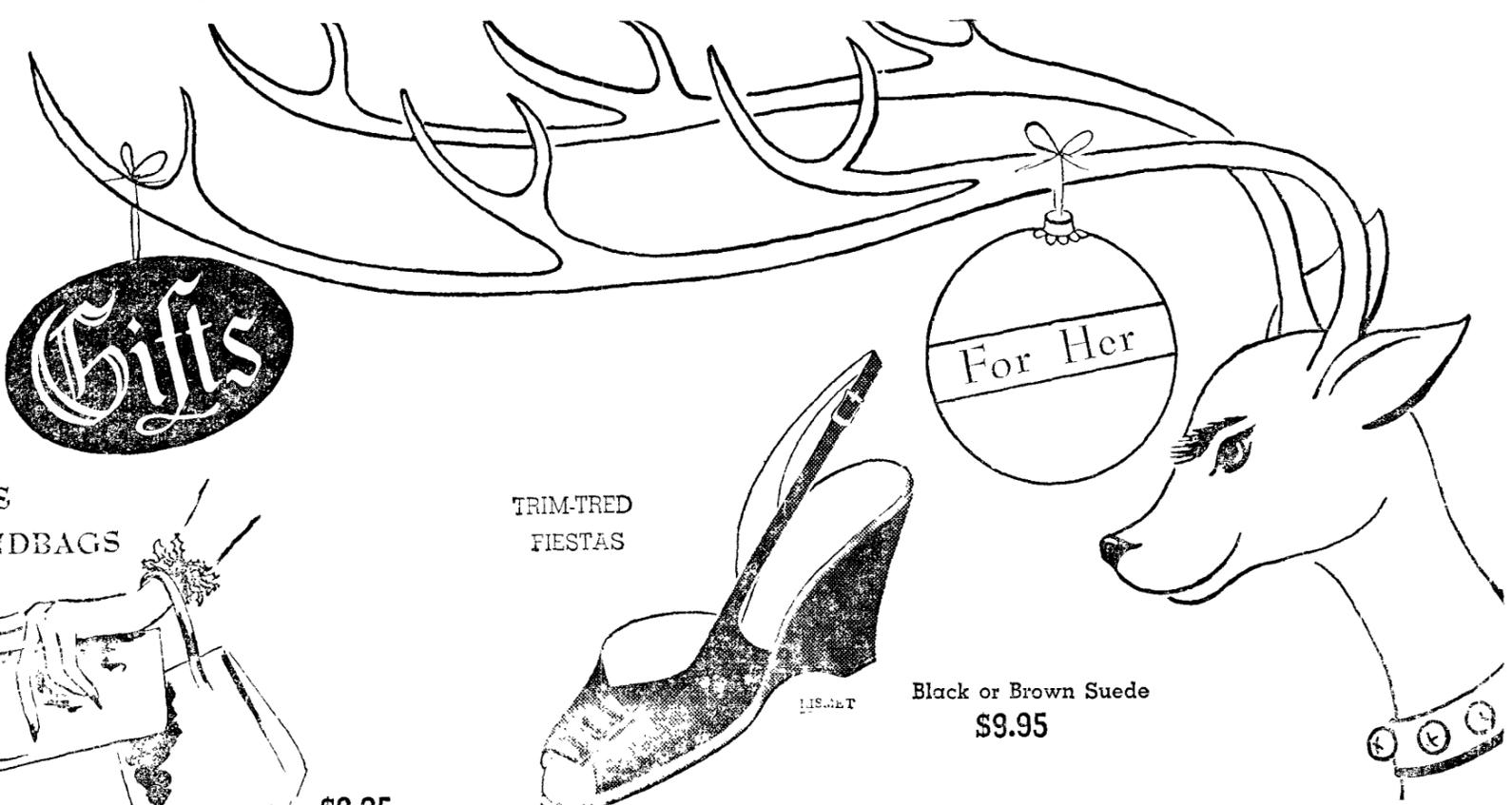
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SET TO GO — Poised at launching, the high performance, high altitude Terrapin Missile prepares to blast into outer space.

## Thiokol Rocket Engine Reaches 80 Miles

In a series of recent tests head-stage Terrapin Missile was proved by Dr. S. Fred Singer of the newly formed Allegheny Ballistics University of Maryland, the two-Laboratory rocket engine and a

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Thiokol rocket engine to 5.8 times the speed of sound and to an altitude of about 80 miles. Named after the University of Maryland mascot, the rocket is less than 15 feet long, six and a quarter inches in diameter at its thickest point, and weighs only 224 pounds. It was designed and produced by Republic Aviation Corporation's Guided Missiles Division.

The ABL rocket engine boosted the Terrapin to 10,000 feet in six seconds at a speed of 1,900 miles per hour; at that altitude, the second stage separated and coasted to 30,000 feet where the Thiokol rocket engine took over to boost the missile to an altitude of 50,000 feet. It then coasted to 422,000 feet or about 80 miles. The rocket firing was the first in a series of correlated launchings to be made from different areas around the earth to probe the ionosphere, a layer of space above the stratosphere beginning eighty miles up. Data obtained from these firings will be used by a group of scientists to formulate an integrated picture of the upper atmosphere.

Robert G. Melrose, General Manager of Republic's Guided Missiles Division, said that the Terrapin is "one of the cheapest and most portable high performance rockets of its kind", and said that its cost is only a fraction of missiles previously used to obtain high altitude data. These factors make the Terrapin a potential weather and research vehicle for the Armed Services, he said.

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"Don't you know that crime does not pay?" asked the judge. "Yes I know," replied the thief, "but the hours are so good."

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# Complete Text of Sec. Wilson's Memo on Guided Missiles

Following is the text of a memorandum by Charles E. Wilson, Secretary of Defense, defining the responsibilities of the Army, Navy and Air Force in the development and use of missile weapons:

## MEMORANDUM FOR: MEMBERS OF THE ARMED FORCES POLICY COUNCIL.

**SUBJECT: CLARIFICATION OF ROLES AND MISSIONS TO IMPROVE THE EFFECTIVENESS OF OPERATION OF THE DEPARTMENT OF DEFENSE.**

Important changes in organization and in roles and missions are not easily decided upon or effected. It is not as though we were starting fresh with a clean sheet of paper, so to speak, or could set up a theoretically perfect organization and division of responsibilities between the military departments. Assignment of responsibilities must continue to recognize the precedents of the past and the availability of men and facilities for carrying out assigned missions. Problems of this nature would be easier to solve if there were always complete unanimity of opinion among all responsible executives of the Defense Department, both military and civilian. The very nature of the problems, however, and the varying background and experience of the individuals serving in responsible positions make some differences of opinion normal and to be expected.

In spite of the differences of opinion which may exist, there are times when conditions require that changes should be made in administrative responsibilities and at such times decisions are mandatory. That is the situation now.

The National Security Act of 1947 states:

### DECLARATION OF POLICY

SECTION 2 — In enacting this legislation, it is the intent of Congress to provide a comprehensive program for the future security of the United States; to provide for the establishment of integrated policies and procedures for the departments, agencies and functions of the Government relating to the national security; to provide three military departments, separately administered, for the operation and administration of the Army, the Navy (including naval aviation and the United States Marine Corps), and the Air Force, with their assigned combat and service components; to provide for their authoritative coordination and unified direction under civilian control of the Secretary of Defense but not to merge them; to provide for the

effective strategic direction of the armed forces and for their operation under unified control and for their integration into an efficient team of land, naval and air forces but not to establish a single chief of staff over the armed forces nor an armed forces general staff (but this is not to be interpreted as applying to the Joint Chiefs of Staff or Joint Staff.)

Nine years of experience operating under the National Security Act of 1947, as amended, have proved the soundness of this comprehensive program for national security.

The statement of roles and missions recommended by the joint Chiefs of Staff at Key West and Newport and approved by the Secretary of Defense James Forrestal, and as modified in 1953, have also proved to be sound and effectively to implement the intent of Congress as expressed in the National Security Act.

No basic changes in the present roles and missions of the armed forces are necessary, but the development of new weapons and of new strategic concepts, together with nine years' operating experience by the Department of Defense have pointed up the need for some clarification and clearer interpretation of the roles and missions of the armed services. We have recognized the need for a review of these matters and from time to time certain steps have been taken and we are now taking others to improve the effectiveness of our over-all military establishment, to avoid unnecessary duplication of activities and functions and to utilize most effectively the funds made available by the people through Congress.

### Different in War and Peace

We would like to point out that clarification and interpretation of roles and missions does not in itself predetermine the weapons to be used by each of the armed services and their numbers, nor the numbers of men to be trained in various fields. It should be carefully understood that the approval of roles and missions of armed services for guidance in peacetime does not predetermine the weapons or forces which a commander in the field would be permitted to use in the event of war. Also, the development of a weapon by a particular military department does not in itself predetermine its use. Such determinations rest with the Secretary of Defense after considering the recommendations of the Joint Chiefs of Staff and the secretaries of the military departments.

The recent clarification of command responsibilities for field commanders should be most help-

ful in determining weapons and forces to be employed in various missions and should assist the Joint Chiefs of Staff in making recommendations in this regard to the Secretary of Defense in order to determine approved requirements for each of the armed services.

We have recently reviewed five important problem areas which need to be cleared up. The recommendations of the Joint Chiefs of Staff in regard to these matters have been carefully considered and their differences of opinion carefully weighed. In addition I have given consideration to the opinions of these areas of responsible officials, both military and civilian, in the office of the Secretary of Defense. These matters are being resolved as follows:

### ARMY Use of Aircraft by U.S.

In matters affecting the use of aircraft by the U.S. Army, the combat zone is defined as extending not more than 100 miles forward of the general line of contact between U.S. and enemy ground forces. Its extension to the rear of the general line of contact will be designated by the appropriate field commander and normally extends back of the front lines about 100 miles.

The Army aviation program will consist of those types of aircraft required to carry out the following Army functions envisaged within the combat zone:

- A. Command, liaison and communications.
- B. Observation, visual and photographic reconnaissance, fire adjustment and topographical survey.
- C. Airlift of Army personnel and materiel.
- D. Aeromedical evacuation.

The Army aircraft program to carry out these functions will be subject to the following limitations:

- A. Fixed wing aircraft, convertiplanes and vertical short take-off and landing aircraft will have an empty weight not to exceed 5,000 pounds. Rotary wing aircraft will have an empty weight not to exceed 20,000 pounds. Specific exceptions to weight limitations for specific aircraft for specific purposes may be granted by the Secretary of Defense after consideration of Army requirements and appropriate Air Force functions and capabilities. For example, the Secretary of Defense has just approved the purchase by the Army of five De Havilland D HC-4 airplanes, "Twin Otter," for test and evaluation and is giving consideration to another project involving a plane in the development stage.

B. The provision of a limited airlift capability within the Army aviation program shall not serve as a basis for increasing or decreasing Air Force forces necessary to support or protect the Army's limited airlift capability will apply only to small combat units and limited quantities of materiel to improve local mobility and not to the provision of an airlift capability sufficient for the large-scale movement of sizable Army combat units which would interfere on the mission of the Air Force.

C. As limited Army aviation airlift capability becomes available to active Army forces, provision should be made for compensation reductions in other forms of Army transportation designed to operate within the combat zone.

Restrictions on Army D. The Army aviation program will not provide for aircraft to perform the following functions:

- (1) Strategic and tactical airlift.
  - (a) Airlift of Army supplies, equipment, personnel and units from exterior points to points within Army combat zone
  - (b) Airlift for evacuation of personnel and materiel from Ar-

my combat zone. (c) Airlift for air movement of troops, supplies and equipment in the initial and subsequent phases of airborne operations.

(d) Aeromedical evacuation from Air Force operating locations within the combat zone through Air Force casualty staging units to hospital facilities outside combat zone and aeromedical evacuation from an airhead or an airborne objective area where airborne operation includes air-landed logistic support by Air Force.

- (2) Tactical reconnaissance.
- (3) Interdiction of the battlefield.
- (4) Close combat air support.

The Army will not maintain unilateral aviation research facilities but will confine itself to development and determination of specific requirements peculiar to Army needs, to evaluation of proposals and to user testing of equipment. The Army will make maximum use of Air Force and Navy aircraft research and development facilities. The Air Force and Navy will be responsible to Army needs in such research activities on a reimbursable basis.

F. The Army will use existing types of Navy, Air Force or civilian aircraft when they are suitable, or may be suitably modified, to meet Army requirements, rather than attempt to develop and procure new types.

With regard to the 4 November 1952 Pace-Finletter Memorandum of Understanding, I am directing my staff to prepare an appropriate technical and detailed directive for coordination and issuance. Until this directive is approved, the Memorandum of Understanding will remain applicable except as specifically amended herein or by subsequent Secretary of Defense direction.

### 3. Adequacy of Airlift

There has been a great deal of discussion and consideration given to the requirements for the airlift of tactical units and supplies. The current composition of the Air Force structure has been carefully examined and it appears that it presently provides adequate airborne lift in the light of currently approved strategic con-

cepts. (3)

**Air Defense** Consideration has been given to distinguishing between Air Force and Army responsibility for surface-to-air guided missile systems for defense of the continental United States on the basis of area defense and point defense, as well as the criterion of an arbitrary range limitation.

Area and point defense systems cannot be defined with precision. Area defense involves the concept of locating defense units to intercept enemy attacks remote from and without reference to individual vital installations, industrial complexes or population centers. For such a defense system to be effective, extensive information-gathering networks such as the Semi-Automatic Ground Environment (SAGE) system are required to trace continuously the enemy attack and transmit the present data in usable form for guiding the defense weapons to counter the attack. As applied to surface-to-air missiles, this means that area defense missiles, because of their widespread sitings, will normally receive their guidance information from the network system than from acquisition and tracking radars located in the vicinity of the missile launching site.

Point defense has as its purpose of defense of specified geographical areas, cities and vital installations. One distinguishing feature of point defense missiles is that their guidance information is received from radars located near the launching sites.

The present state of the art (Continued on Next Page)

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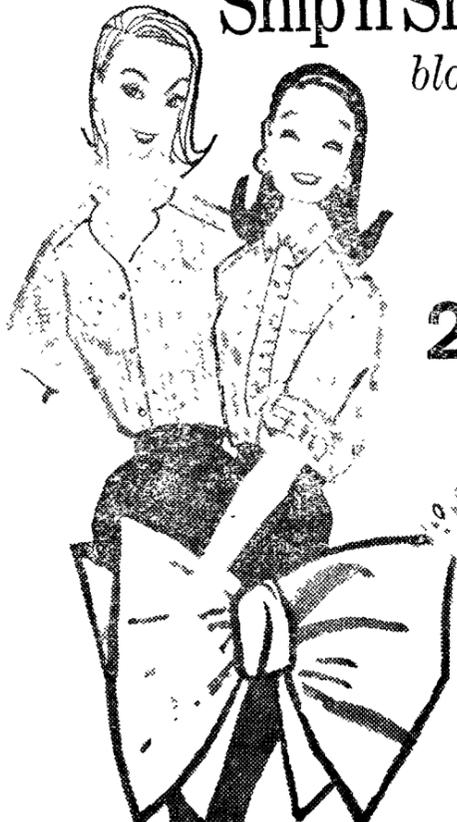
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(Continued From Opposite Page)

justified development of point defense surface-to-air missile systems for use against air targets at expected altitudes out to a horizontal range of the order of 100 nautical miles.

It must be clearly understood that the Commander in Chief, Continental Air Defense Command, who has been given the responsibility for the air defense of the continental United States, Alaska and the United States Area of responsibility in the Northeast, also has the authority and duty for stating his operational need for new or improved weapons systems and for recommending to the Joint Chiefs of Staff all new installations of any type. Therefore, no service shall unilaterally plan for additional missile installations of either category (point or area defense) in support of CINCONAD's responsibilities until and unless they have been recommended by CINCONAD to the Joint Chiefs of Staff, and approved by that body.

**Missiles Roles Assigned**  
In conformance with the above:  
A. The Army is assigned responsibility for the development procurement and manning of land-based surface-to-air missile systems for point defense. Currently, missile systems in the point defense category are the Nike I, Nike B, and land-based Talos.

B. The Air Force is assigned responsibility for the development, procurement and manning of land-based surface-to-air missile systems for area defense. Currently, the missile system in the area defense category is the Bomarc.

C. The Navy, in close coordination with the Army and Air Force, is assigned responsibility for the development, procurement and employment of ship-based air defense weapon systems for the accomplishments of its assigned functions.

D. The Marine Corps is authorized to adapt to its organic use, such surface-to-air weapons systems developed by the other services as may be required for the accomplishment of its assigned functions.

E. In overseas areas, the U.S. theatre commander should normally assign responsibility to air defense to an air component commander, with appropriate participation by other components. Under this arrangement, Army units in the combat zone should continue to be responsible for their own local defense, employing organic means. Other Army air defense units should carry out point defense missions under the air component commander. Air Force units should carry out the area defense missions. Special emphasis should be given to simplicity, flexibility and mobility of weapon systems employed in air defense in overseas areas. Navy forces should continue to be responsible for their own air defense of sea, employing organic means. As approved by the theatre commander, the air component commander should establish such procedures for coordinating Army, Navy and Air Force air defense forces as may be required to carry out his responsibilities, and, in addition, should establish such detailed procedures

as are necessary for proper coordination with national air defense commanders of Allied countries.

(4)  
**Air Force Tactical Support of the Army**

The Army will continue its development of surface-to-surface missiles for close support of Army field operations with the following limitations:

A. That such missiles be designed and programmed for use against tactical targets within the zone of operations, defined as extending not more than 100 miles beyond the front lines. As such missiles would presumably be deployed with in the combat zone normally extending back of the front lines about 100 miles, this places a range limitation of about 200 miles on the design criteria for such weapons.

B. That the tactical support functions beyond those that can be provided by Army surface-to-surface missiles as above defined remain the responsibility of the Air Force.

It is evident that the tactical air forces programmed for Army support should be reconsidered and the Joint Chiefs of Staff have been requested to furnish me with their recommendations for specific adjustments as to the number and types of planned Army guided missile and unguided rocket units and with the number of Air Force tactical wings which may be eliminated as a result of these decisions.

In preparing these recommendations, the development of balanced and interrelated Army and Air Force tactical support forces for the accomplishment of overall U.S. national security objectives must be considered, rather than the development of completely independent Army and Air Force forces to accomplish tactical support tasks. In developing force recommendations in this area, as well as for other U.S. military forces, it should be recognized that all operations in which our forces will be employed will be conducted under the command of the designated commanders who will have the necessary forces assigned to them for the conduct of their missions by higher authority.

(5)  
**Intermediate Range Ballistic Missile (I.R.B.M.)**

In regard to the intermediate range ballistic missiles:

Operational employment of the land-based intermediate range ballistic missile system will be the sole responsibility of the U.S. Air Force.

Operational employment of the ship-based intermediate range ballistic missile system will be the sole responsibility of the U.S. Navy.

The U.S. Army will not plan at this time for the operational employment of the intermediate range ballistic missile or for any other missiles with ranges beyond 200 miles. This does not, however, prohibit the Army from making limited feasibility studies in this area.

(The intercontinental ballistic missile has previously been assigned for operational employment to the U.S. Air Force.)

There are a number of other matters relating to research and development of particular weapons

that will affect the choice of weapons to be used for various missions in the armed services. These choices can only be made after a careful technical review of the capabilities of the various weapons under development. I refer particularly to weapons systems such as the Nike and Talos and the multiple approach (Jupiter-Thor) to developments such as the intermediate range ballistic missile. This memorandum does not attempt to answer those questions which can only be decided after studies now in progress are completed and should not be so interpreted.

In the meantime, these competing weapons systems will be continued with support from fiscal year '57 funds until the completion of the technical evaluation referred to above. Budget support in fiscal year '58 for the land-based Talos, as required, will be provided by the U.S. Army. Budget support in fiscal year '58 for the land-based intermediate range ballistic missile program, as required, will be provided by the U.S. Air Force.

In view of the great interest in these matters in the Congress, copies of this memorandum are being sent to the appropriate Congressional committees. In addition, in order that there can be full understanding of these decisions within the military departments and by the public, copies of this memorandum are being made available to the press.

C. E. WILSON

"May I have this dance?" "I'm sorry, but I never dance with a child," said she, with an amused smile. "Oh, a thousand pardons," he said, "I didn't know your condition."



AWARD FOR POSTER — Miss Nancy Carter, center, of the Mfg. and Svcs. Branch of the Arsenal Safety Office, is shown receiving a check for her award winning poster denoting the dangers of mixing "drink with driving." Mr. Albright, left, chief of the Safety Office, is presenting the award along with Miss Carter's supervisor, Ed Summers, right.

Herb Shriner says alcohol and gasoline don't mix. "Actually they mix," says Herb, "but they don't taste too good."

Too many people nowadays reach for the stool when there's a piano to be moved.

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**ENLISTED BOWLING NEWS**  
BY CULP

22 Nov. — Too much turkey, combined with trips home for the holidays, left the Plamor Alleys with only four teams rolling on Thanksgiving night. It was quite a night, however, for the league leaders, runners up, and the 4th and 5th place teams. The 5th place Zebras rolled against runners up Signaleers, dropping them three games to one. It was a 839, 766, 784, 2389 series for the Zebras, against which the Signaleers rolled games of 743, 724, 759, plus a 32 pin handicap, for a scratch series total of 2226. It was a close battle in the 2nd and 3rd games, with the Zebras coming from behind to win the second by 11 pins and the Signaleers holding on for a 7 pin win in the 3rd game.

It was 2 apiece for league leading Strikers and 4th place Launchers in their bout. With a 28 pin handicap the Launchers took the 2nd and 3rd games while the Stri-

kers held the 1st and total pins. For the Launchers it was a 710, 838, 756, 2304 series, plus the handicap, while the Strikers hit it high for their new season high series with a 868, 813, 763, 2444. With the 1st game an 868 the Strikers tied their own high league single game, and if Gundy had picked up one pin on his final 7-10 split they would have had the new high. Some days you can't hit a heck, Ken.

High for the Zebras in their win was Culp with a 186, 174, 174, 534, with Bollenbacher holding runner up with a 166, 166, 165, 497, and may I tell you about his 'almost-three-in-a-row.' In the final game Dutch had a 146 in the 9th frame and began the 10th with a strike. Needing only ten pins for a three-in-a-row ABC award, Dutch threw his first ball and lo! and behold; a baby split (3-10). This being the easiest split to pick up I could practically see myself submitting the necessary papers for the ABC award, but Dutch missed his board, caught the 3 pin heavy and had a 165 for just another game. For the Signaleers Easterbrook

had a good night with 181, 191, 187, 559, with Hanson second with his 172, 141, 160, 473. For Easterbrook it was his 'do or die' effort for the Enlisted League. Jack receives his release on 29 November and will be gone by the time you read this. On behalf of the entire league may I wish him well in civilian life.

Hot and high for the Launchers in their two wins was Mahalik, who has been going like a house afire of late. His 175, 194, 171, 540 was high for his team, with Hickey and Ridgeway hitting in the 470's behind him. It was Miller who led the Strikers with his 204, 147, 186, 537, with Gundy second with a 202, 188, 115, (?), 505. With Mosher at 475, Pons 464, and Villanueva 463 the Strikers had a very good night of it.

The league standings had two changes, winding up as follows:

Team	Won	Lost	GB
1. Strikers	24	16	
2. Transients	23½	16½	½

A fat lady stepped on the scales, not knowing they were out of order. The indicator stopped at seventy-five pounds. "Holy Smoke!" exclaimed a drunk who watched her "She's hollow!"

3. Zebras	25	19	1
Launchers	25	19	1
Signaleers	25	19	1
6. Alley Cats	20	20	4
7. Bugouts	19½	20½	4½
8. Split Kings	18	22	6
9. Commodores	14	26	10
10. Jesters	10	26	12

With Easterbrook dropping from the league the top ten had a new addition:

Name	Games	Aver.
1. Varney	24	172
2. Miller	10	171
3. Ross	27	170.8
4. Hickey	31	170.3
5. Smith	23	169
6. Gundy	21	165.7
7. Trowbridge	18	165.2
8. Mosher	16	164
9. Swisher	26	163
10. Culp	33	162.7

**SAFE BETS**



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9,000 Rockets — 18,000 Readers



Keep on The "Well-Dressed" List

By Letting Us Keep Your Clothes Sparkling Clean At All Times!

**MARCUS PENDER CLEANERS SHIRT SERVICE**

22 Years at This Address  
217 WASHINGTON ST.  
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Use Our EXTENDED Charge Account Plan! !

THE BEST IN MEN'S WEAR AND FURNISHINGS . . . THE NEWEST IN WOMEN'S CLOTHING AND ACCESSORIES . . . CLOTHING FOR TOTS AND TEENS TOO.

Just Say "Charge It" at NATIONAL

**HOLIDAY CASH FAST**

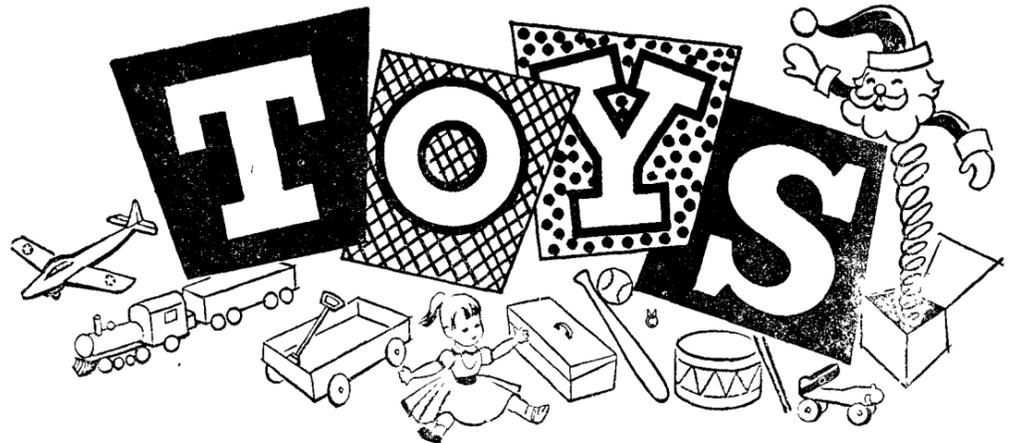
Along with speed, you get privacy, convenience and flexibility when you come to us for money. Ours is an unusual loan service from every angle.

Loans \$60 to \$2000

**G.A.C. FINANCE CORPORATION**



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



START RIGHT NOW TO HAVE THE MERRIEST CHRISTMAS EVER BY MAKING A TRIP TO ROYAL AUTO STORES TOYLAND.



Hurry . . . hurry . . . hurry to the BIG show for the small fry! Santa bows in with a colossal collection of toys for girls and boys of all ages



Gifts for Mom and Dad too!

- Tricycles
- Bicycles
- Wagons



**Wheel Toys**

ALL PRICED RIGHT!

**Gun and Holster Sets**

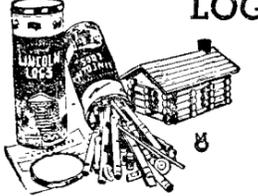


What young cowboy wouldn't like one of these good looking tw n gun and holster sets?

SEE THEM BEFORE YOU BUY!

**For the Builder — LINCOLN LOGS**

Many hours will be happily spent with a set of Lincoln Logs. It's fun for young and old.



For The Car Owner and The Man of The House



**Seat Covers**

Your Choice of Colors Fibre or Plastic



**DRILL AND SAW KIT**

**FOR THE LADIES**

select a \_\_\_\_\_ DORMEYER MIYER OR A STEAM OR DRY IRON

**COME IN AND COMPARE OUR PRICES!**

Autcmobile Tires, Batteries and Accessories

**ROYAL AUTO STORES**

J. E. Peck, Jr., Mgr.

121 W. HOLMES ST.

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**SAFE-DRIVING AWARDS GIVEN** — Twenty-eight civilian employees of the External Ballistic Section of the Test and Evolution Laboratory, Research and Development Laboratory, Redstone Arsenal, received safe driving awards from the Arsenal Safety Office recently. Lapel pins for five years of accident-free Federal vehicle driving were given to eight men, denoted by (5 years) following each one's name. Other drivers pictured received awards sponsored by Maj. Gen. H. N. Toffey, Redstone's Commanding General, for 12 months of accident-free driving. Shown above are, front row seated, left to right: Clifford G. Spearman, senior driver; Kenneth L. Carroll (5 years); Elbert Hurst; Lee R. Reagan; Robert L. Clements; Alvin Reid; second row, left to right: Col. Thomas J. Raber, who presented the awards; R. L. Body of the Safety Office; Glenn C. Potterson; James B. Beyer; John O. McGhee (5 years); Gilbert M. Hice; Robert C. Taylor; Martie H. O'Dell; David H. Stoner (5 years); Virgil Harwell (5 years); Frank Bunn; top row, left to right: Robert E. Turner; Leon F. Ivy; William F. Bass; Hugh Reed; Mahlom C. Gorner; Robert R. O'Bryan; Jack L. Childers (5 years); Individuals not shown who received awards are: Manuel R. Garcia (5 years); James R. Williams (5 years); S. F. Adams; Joseph R. Black; Charles A. Caldwell; James L. Cooper. (Photo by Carl Pickens)

# LYRIC THEATRE

WILL PRESENT

## December Art Festival

OF MOVIES

Sponsored by **JUNIOR CHAMBER OF COMMERCE**  
Huntsville

Buy Advance Tickets From Members of Junior Chamber of Commerce!

WED., THURS., FRI., DEC. 5-6-7

**"A DIABOLICAL HORROR FILM! ITS SENSATIONAL SHOCKS AND SHUDDERS ARE SCARING THE WITS OUT OF AMERICANS"** — LIFE MAGAZINE

**DIABOLIQUE**

ADMITTANCE LIMITED TO SHOWTIME  
1:16 — 3:19 — 5:22  
7:25 — 9:28

THURS. — FRI. — DEC. 13-14



**THE DIVIDED HEART**

Winner of 2 British ACADEMY AWARDS!

WED., THURS., FRI., DEC. 19-20-21



**"ENOUGH RAW SEX TO ELEVATE EVERY EYEBROW!"** — Daily Mirror

**"A SUPERIOR MOVIE ... SO BRILLIANT THAT MOVIE FANS WILL BE TALKING ABOUT IT FOR SOME TIME!"**

—Herald Tribune



**"★★★★...THE SUSPENSE IS ALMOST UN-BEARABLE!"** — Daily News

A Sensational New Motion Picture

**"RIFIFI"**  
... means Trouble!

Directed by JULES DASSIN

No One Seated Once Feature Has Started.

Wantads Get Results

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507 Terry-Hutchens Bldg.  
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You'll Get an Answer Day or Night



**HEADS NEW LABS** — Above is Dr. William S. Carlson, who was recently named chief of Redstone Arsenal's new Air Defense Laboratories, a part of the Research and Development Division.

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

### WHITESBURG DRIVE-IN

TODAY & WEDNESDAY

**The LEATHER SAINT**  
VISTAVISION  
PAUL DOUGLAS JOHN DEREK  
A PARAMOUNT PICTURE

THURSDAY & FRIDAY

**DUEL IN THE JUNGLE**  
TECHNICOLOR  
Dana ANDREWS  
Jeanne CRAIN

STARTS SUNDAY

**ANSON** 23 PAGES TO BAKER STREET  
SCOPE  
Release

### GRAND THEATRE

"NEWLY DECORATED"

TODAY & WEDNESDAY

Paramount Presents  
AUDREY HEPBURN HENRY FONDA MEL FERRER  
**War and Peace**  
LEO TOLSTOY  
A PONTI-DELAURENTIS PRODUCTION  
COLOR BY TECHNICOLOR VISTAVISION

THURSDAY & FRIDAY

"BLACK JACK KETCHUM DESPERADO"  
Howard Duff  
Victor Jory

### LYRIC THEATRE

"HUNTSVILLE'S FINEST"

LAST TIMES TODAY

M-G-M PRESENTS  
**JULIE**  
MASTERPIECE OF SUSPENSE!  
An ARWIN Production  
An M-G-M Release

STARTS SUNDAY

**Attack**  
JACK PALANCE  
EDDIE ALBERT  
RELEASED THROUGH UNITED ARTISTS

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Speed Limit 25 MPH  
For Every Additional Mile \$1 Fine  
Choose the Speed You Can Afford!

Fear of failure will help you fail just as surely as faith in success will help you succeed.

### Army-Navy SURPLUS CO.

Men's Insulated Leather Hunting Boots \$16.95

Use Our Lay-Away  
No. 7 S. Side Square  
"We Buy and Sell Anything"  
Phone JE 4-6991

### PARKWAY DRIVE-IN THEATRE

LAST TIMES TONITE

CAGNEY IN HIS GREATEST ROLE!  
M-G-M PRESENTS  
JAMES CAGNEY IN CINEMASCOPE AND IN COLOR  
**Tribute To A Bad Man**

WED. & THURS.

**MEET ME IN LAS VEGAS**  
LOVE STORY OF AMERICA'S FAMED PLAYGROUND!  
DAN DAILEY · CYD CHARISSE  
M-G-M PRESENTS  
IN COLOR AND CINEMASCOPE

FRIDAY & SATURDAY

COLUMBIA PICTURES presents  
**FURY AT GUNSIGHT**  
PASS  
starring  
Lana BRYAN · Myrtle BRAND · Richard LONG

PLUS

**RED CAPTAINS**  
A Paramount Picture

STARTS SUNDAY

"WHILE THE CITY SLEEPS"  
with  
DANA ANDREWS  
IDA LUPINO

### 17 New Members Attend Meeting Of NCO Auxiliary

NCO Auxiliary met recently with 14 members and 17 new members attending the regular meeting.

Games were featured and refreshments were served. Thank-giving theme was used in decorations. Hostesses were Mrs. Othal Roark, Mrs. Adelbert Castinoglia and Mrs. Kenneth Colburn.

Mrs. Matt Marinovich won the door prize.

New members were: Mrs. Gene Fields, Mrs. Webster Robinson, Mrs. William Baxter, Mrs. Carlos Dewitt, Mrs. Ben Marrow, Mrs. Edward Hickey, Mrs. James Walden, Mrs. Willis Baker, Mrs. Roger Culp, Mrs. Daryl Fairchild, Mrs. Orville Thorpe, Mrs. Grace Elkins, Mrs. Gordon Elford, rMs.

### Christmas Tea Set By Officers' Wives

A Christmas tea sponsored by the officers' wives of Redstone Arsenal's Industrial Division will be held on Dec. 11 from 2 to 4 p.m. at the Officers' Open Mess.

Mrs. B. B. Drummond is chairman of the tea.

The Missilemen and Missilemaids will present a program of Christmas carols.

All reservations for the tea and the nursery must be made or cancelled by noon on Monday, December 10.

Reservations for the tea may be obtained by calling the Mess office at Arsenal extension 2951.

Nursery reservations should be made through Mrs. Hazzard at Jefferson 4-6307 or Mrs. Weiss at Jefferson 6-3966.

### RSA Comptroller Christmas Party Set Of RSA Ind. Div.

Plans for the RSA Comptroller Christmas party have been made at the Officers' Open Mess.

The party will be Saturday night (Dec. 8), from 7 p.m. to 1 a.m.

A buffet supper, floor show, and dancing will round out the evening. Reservations were supposed to have been made by yesterday.



**GIRL SCOUTS PRACTICE CEREMONY**—Redstone Arsenal's Girl Scout Troop 53, an outdoor troop, is shown above practicing the Flag Ceremony. Cold weather hasn't dampened their spirits for outdoor camping and every Saturday they take to the woods to practice one phase or another of outdoor camping to prepare themselves for overnight camping next Spring. This Flag Ceremony being conducted at their camp site on Squirrel Hill begins and ends each camping day. Girls making up the Color Guard are attired in bright red sashes. The camp flag pole is improvised from a tree with the lanyard thrown over a high branch. (Photo by Bill Kellar)



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CALL US Day or Night For Your PRESCRIPTION NEEDS!

**BENTLEY DRUG CO.**

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### RELIGIOUS SERVICES

The following religious services are held each Sunday at the Post Chapel, Building T-151, in the old Troop Area. You are invited to attend the services of your faith regularly.

#### PROTESTANT

10:00 a.m. — Morning Worship.  
10:00 a.m. — Sunday Church School for children ages 3 to Se-

nior High.  
Holy Communion is served the first Sunday of each month.

#### CATHOLIC

7:30 a.m. — Confessions.  
8:00 a.m. — Sunday Mass and Benediction.

#### JEWISH

Services are held at Temple B'Nai Shalom, Lincoln and Clinton Streets, Huntsville, at 8:00 p.m. on Friday.  
Attend the services of your

faith regularly. If you haven't already started, begin this Sunday. A free nursery is conducted during both Protestant and Catholic services for babies and small children.

#### CHAPEL BUS SCHEDULE

**Catholic Mass:**  
Leave Troop Area — 7:25 a.m.  
Arrive Chapel, Bldg. T-151 — 8:00 a.m.  
Leave Chapel — 8:50 a.m.  
Arrive Troop Area — 9:00 a.m.

#### Protestant Service:

Leave Troop Area, Bldg. 681 — 9:30 a.m.  
Arrive Wherry Housing Area — 9:40 a.m.  
Leave Wherry Housing Area — 9:45 a.m.  
Arrive Chapel, Bldg. T-151 — 9:55 a.m.  
Leave Chapel — 11:05 a.m.  
Arrive Wherry Housing Area — 11:15 a.m.  
Arrive Troop Area — 11:25 a.m.

## MILLER Appliance Furniture COMPANY

Your  Dealer

ALSO **QUALITY FURNITURE**

At LOW Prices!

We Have A Large Selection of Tables - Chairs - Mirrors And Other Gift Items

Phone JE 6-1882

113 W. Clinton

## HEY, FELLAS! --

DON'T FRET AND FUME

Over What To Get For "The Women in Your Life" For Christmas!

MARY SHOPPE

Can Help You Solve That Problem!

We know what she likes. The size she wears . . . And Remember . . .

We Gift Wrap!



Open 'Til 8 P.M. Thursdays

Among Our Suggestions Are:

ROBES — HOSTESS COATS — LINGERIE  
COCKTAIL DRESSES — SPORTSWEAR  
COSTUME JEWELRY — BAGS — GLOVES  
LINGERIE by Barbison and Rogers

**MARY SHOPPE**

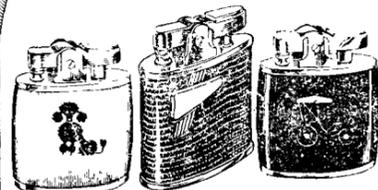
ON WASHINGTON STREET

# LAY AWAY GIFTS for CHRISTMAS!



## RIGHT NOW is the best time!

**NO DEPOSIT NEEDED!**



LARGE SELECTION OF **RONSON LIGHTERS** from \$3.95



Save 50.95  
"Eternally Yours" and "First Love" patterns  
at 50% OFF!



**10 DIAMOND PAIR**  
only \$49.95  
ON EASY TERMS



**1/4 CARAT DIAMOND DUET**  
only \$99.95  
USE YOUR CREDIT



**BULOVA WATCHES**  
Your Choice  
only \$75 PAY ON EASY CREDIT



**2 DIAMOND STUART**  
for "Her"  
only \$39.95 NO MONEY DOWN

1847 ROGERS BROS. SILVERPLATE SET  
America's finest silverplate at a huge price reduction for a limited time only! Hurry!  
**\$49.75 ON CREDIT**



Corner C

SUS V. JOH CINCEN C&C

**\$1 DOWN DELIVERS**  
up to \$50.00  
**Jewelry**  
Phone JE 2-5681



**THE BLOODMOBILE IS COMING!**

YES, YOUR RED CROSS Bloodmobile is coming. Blood is vitally needed for emergency transfusions, to make blood derivatives, and for research. The Bloodmobile will be at Redstone Arsenal on Tuesday, 4 Dec. at Bldg. T-155 (old Troop area) from 0900 to 1300 hours.

Let's see that Redstone Arsenal helps to replace the blood used in Madison County and helps to keep a good supply always available!

**New York Times Is Delivered to Post**

Arrangements have been completed and daily and Sunday copies of the New York Times are being flown to Huntsville. They are presently being delivered in the early afternoon to buildings 488, 421, 111, and 690 daily except Saturday and Sunday when copies are available at the airport. Cost will depend upon the total number subscribing and presently stands at 15 cents for the weekday edition and 40 cents for the Sunday edition. Those interested in subscribing should call JE 64411, extension 4137.

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Huntsville, Alabama

# Jewelry Gifts

to dream about

**HEAVENLY GIFTS**

... from  
**A. L. HIPPI**  
jeweler



**ELGIN BOUQUET**  
Superb styling with high curved crystal. Unfailing accuracy. \$33.75

Give her the incredibly tiny watch

**ELGIN MARLENE**  
Delicate end pieces. Matching expansion bracelet. \$39.75

**ELGIN CLEOPATRA**  
Refreshingly uncluttered round design. Nylon cord. \$39.75

**ELGIN SUSAN**  
Decidedly different case styling. Highly styled dial. \$49.75

**ELGIN CAPTIVATOR**  
Graciously styled for that very particular person. \$49.75

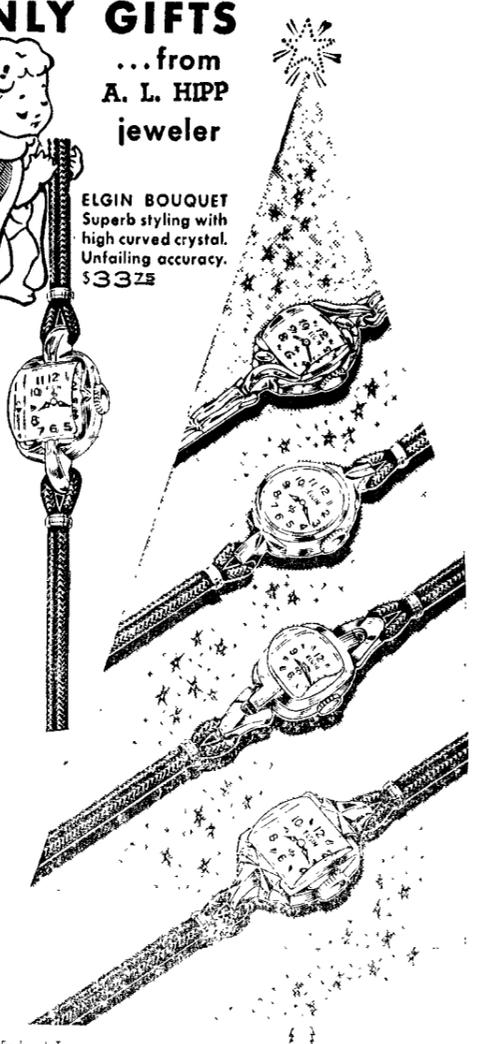


Photo Illustration by Fedra at Tax

Other Watches By

- BULOVA** — \$27.75 up
- HAMILTON** — \$47.50 up
- TISSOT** — \$47.50 up
- TIMEX** — \$6.95 up

For Men and Women

**IDEAS FOR YOUR CHRISTMAS LIST**

Initial Rings \$15.00

Emblem Rings \$17.50

Pearl Rings \$11.00



Open 'Til 8 p.m. Thurs.

Christmas dreams come true in our wonderland of lovely jewelry gifts to delight every taste — suit every pocketbook!



Simulated Pearls \$2.50 Up

LADIES AND MEN'S Birthstone Rings \$6.95 Up

Buxton Billfolds \$3.95 to \$35.00

Cigarette Cases \$2.95 to \$5.00



She Will Love

**IMPERIAL CULTURED PEARLS**

- Necklaces ----- \$30.00 Up
- Bracelets ----- \$6.00 Up



**Shaffer PEN & PENCIL SETS**

Make Wonderful Gifts Give Someone A Snorkel This Year

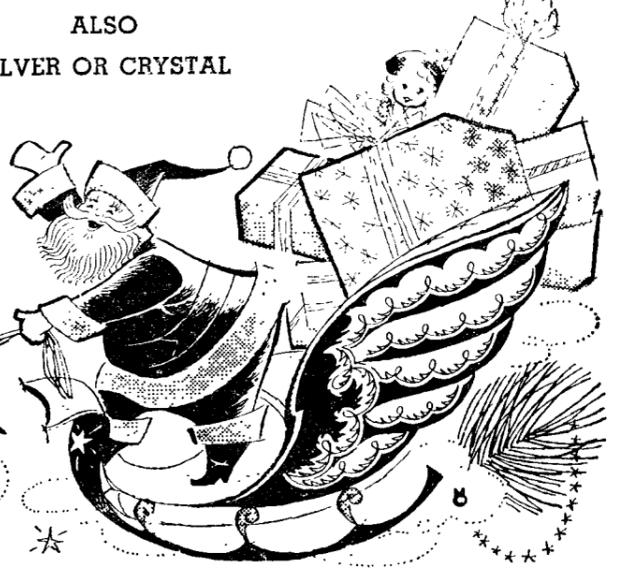
**Free Gift Wrapping Free Engraving!**

*Beautiful China*

Many Patterns From Which You May Choose ... A Long Cherished Gift Any Housewife Will Love ...

ALSO SILVER OR CRYSTAL

Be sure to visit our 2nd floor Gift Shop — you'll find lots of interesting items for Christmas giving.



17 More Shopping Days Before Christmas!

# A. L. HIPPI, Jeweler

OUR 54TH YEAR

Phone JE 4-7282

102 N. Washington St.

## RESERVE FORCES ACT PERSONNEL TO BE ASSIGNED TO POST SOON

### Success

(Continued From Page 1)  
 Arsenal Among them were: Comptroller's Office, \$30.75 per person; Management Division, \$15.44 per person; Executive Office, \$22.30; Public Information Office, \$18.94; Field Service Division, \$19.33; Special Projects, Post Engineer, \$16.50; Water Planning and Control Post Engineer, \$10.59; P.M. Mechanical, Post Engineer, \$16.26; Service Shop, \$15; Preventive Maintenance, \$12.05.

The Army Ballistic Missile Agency reports also indicated that average gifts per contributor were high. One hundred forty-three people in Guidance and Control, ABMA, gave \$1,636.50, for a per person average of \$11.45. In the Structures and Mechanics Lab, ABMA, 129 people gave \$1,382.45, averaging \$10.70 per gift.

Other ABMA average contributors were Financial Management Office, \$13.33 per person; Office of the Director, DOD, \$16.34; Executive Office, \$17.10; Signal Office, \$13; and Control Office, \$11.38 per contributor.

### Oberth

(Continued From Page 1)  
 Cuban Navy from 1950 to 1953 in similar work.

His publications include "Means for Astorities," "Men into Space," which will be published in English from the original German edition of 1954 and "Investigation and the Line to Come." He is a member of the Association of German Inventors and received the Diesel Medal from that society in 1954. He also inspired the Hermann Oberth Medal awarded yearly by the German Society for Space Research. In 1920 he received the RFP-Hersch award of the Astronomical Society of Bonn.

Last week's presentation was witnessed by Mr. Gen. J. B.

## WANTADS

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. tfe

FOR SALE — Guadalupe, large family home, 3 bedrooms, 2 baths, paneled den with fireplace, dishwasher, within one block of lake. Home FHA commitment for a year. GI loan. Call Mrs. Joan Bestwick, 3597, Guadalupe. 12-11-p

FOR SALE — 2 bedroom home in Athens, Ala. 192, \$4,200.00. 7 room home, \$3,450. Desirable building in the City of Athens, \$1,290. per a limited time. See us before buying. YARBROUGH-PESNELL INSURANCE & REAL ESTATE AGENCY, 300 Strange Street (Booster Club Office), Athens, Ala. Phone No. 692 — Night's 1736. tfe

FOR SALE — LOTS—16'x170' rezoned for 2 to 4 unit apartments. Located at intersection of Jordan Ln. and Highway and Highway 72nd St. Approx. 1/2 mi. S. of S. Adams. Best lot for lot sign. Phone JE 2-2812. 12-11-c

FOR SALE — 4 bedrooms, 2 1/2 baths, large living room, dining room, kitchen, and garage. Located at intersection of Guadalupe and Highway and Highway 72nd St. Approx. 1/2 mi. S. of S. Adams. Best lot for lot sign. Phone JE 2-2812. 12-11-c

FOR SALE — 2 bedrooms, 2 baths, large living room, dining room, kitchen, and garage. Located at intersection of Guadalupe and Highway and Highway 72nd St. Approx. 1/2 mi. S. of S. Adams. Best lot for lot sign. Phone JE 2-2812. 12-11-c

FOR SALE — 2 bedrooms, 2 baths, large living room, dining room, kitchen, and garage. Located at intersection of Guadalupe and Highway and Highway 72nd St. Approx. 1/2 mi. S. of S. Adams. Best lot for lot sign. Phone JE 2-2812. 12-11-c

WANTED TO BUY — Gasoline 250 gallon, unrefined. Bu-Line gas tank. Max Slate, 414 Pearl St., Hartselle, Ala. phone 7280. tfe

ROOM AND BOARD — 5 blocks from Square, clean, spacious, single or double room, home cooked meals for men with good habits. Mrs. Field's, 211 Monroe, dial JE 2-8849 1-2-57-c

The Reserve Forces Act of 1955, provides for the voluntary entry into the Armed Forces of enlisted personnel for a period of six months active duty training and upon completion thereof such personnel are to be returned to the Army Reserve for comple-

tion of their military obligation. The Chief of Ordnance has been informed by the Department of Army that RFA personnel will be assigned to all branches of the service in order to provide the maximum training and fullest utilization of available manpower. Further, the Chief of Ordnance has informed this headquarters that RFA personnel will be assigned to this installation in the near future to fill authorized position vacancies.

Prior to arrival at Redstone Arsenal, RFA personnel will have completed eight weeks of basic training plus a maximum of 10 days delay enroute. Therefore, it may be assumed that they will

be physically present for assigned duties for a period of approximately three months. The first group of trainees to be assigned to this arsenal will be classified in the scientific and professional fields, however, it is expected that other individuals classified in support-type MOS's may also be assigned in the future. Distribution of such personnel will be made on a pro-rata basis to all user agencies consistent with personnel allocations and existing vacancies.

Receipt of this type personnel provides this arsenal with an excellent source for recruiting critical specialists for later employment as civilians.

Chiefs of Divisions are encouraged to continually screen such personnel and, when deemed advisable, contact the Civilian Personnel Division for necessary coordination.

A crowd gathered about the small boy who had just saved a playmate from an icy pond. "You wonderful boy!" gushed one woman. "Tell us how you came to be so brave and dive in that water."

"I had to," said the hero bashfully. "He was wearing my skates."

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"I had to," said the hero bashfully. "He was wearing my skates."

Read the Wantads

# Everything nice for Girls and Boys TO DELIGHT YOUR CHILD



## BABY BLANKETS

of WASHABLE ORLON

Made By

- QUILTEX • SPRINGFIELD MILLS

\$3.98 TO \$6.95

ALL POPULAR COLORS



## TODDLER ROBES

\$3.98

- Corduroy
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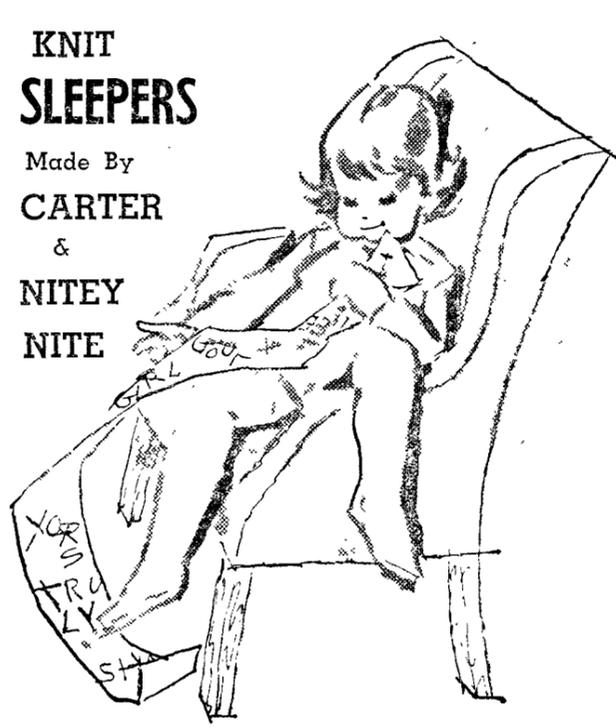
by QUILTEX SAUTER BROS.

Size 2 to 2K

## KNIT SLEEPERS

Made By

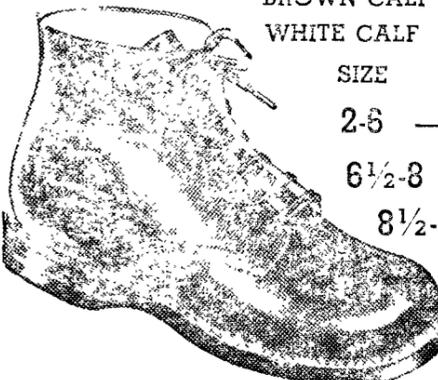
CARTER & NITEY NITE



\$2.50 to \$3.25

MEDIUM and ARCTIC WEIGHTS WITH PLASTIC FEET

SIZE 1 to SIZE 4 MANY POPULAR COLORS



BROWN CALF  
WHITE CALF

SIZE

2-6 — \$5.50  
6 1/2-8 — \$5.95  
8 1/2-12 — \$6.95



America's Favorite Children's Shoes

# DUNNAVANT'S

Your Quality Christmas Store for The Entire Family

We CASH Payroll CHECKS

Open THURS. Until 8 P.M.