

# The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 23, 1959



**CHILDREN REPRESENTED**—Attending the Redstone Arsenal kick-off meeting for the third annual UGF fund drive were the children above, representing some of the Huntsville agencies which are benefited by the campaign. Behind the children are Walt Linde, Huntsville UGF drive chairman, and Maj. Gen. J. B. Medaris, Chairman of the Arsenal drive.

## Third Annual UGF Drive Is Launched Here Monday

The third annual Redstone United Givers Fund Drive was launched at Rocket Auditorium Monday morning before an audience of solicitors and workers which filled all the seats, stood in the aisles, and overcrowded into the lobby.

Walt Linde, chairman of the Huntsville UGF drive, dramatically illustrated the work of the 21 agencies participating in the campaign in providing help for those in need.

Principal kick-off speaker was Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command and Chairman of the post's drive.

"There could be no better atmosphere for the opening of this campaign than a keen awareness of our traditions and faith regarding our love and concern for our fellowman, characteristic of the approaching Thanksgiving season," Gen. Medaris said. "This is followed closely by our observance of the birthday on One whose life and death were characterized mainly by giving and sharing with others.

"This concern seeks expression in lending a hand to those less fortunate than ourselves," he said.

Citing the success of the drive on post last year, he said that it could be used as a measure of our duty today. Last year's record presents a challenge which will test our mettle.

It can, and should be surpassed, (See THIRD on Page 3)

## Auto Registrations Reach 28,500 Mark

Active auto registrations at the headquarters of the Army Ordnance Missile Command here has reached the 28,500 mark.

Col. Owen T. McCloskey, commander of Redstone Arsenal, which serves the Missile Command and its agencies and the Ordnance Guided Missile School, reported 23,000 of the vehicles have Alabama registration tags.

Another 2,000 are of Tennessee registration while 350 carry Georgia tags. The remainder, covering practically all the States of the Union, number 3,150.

Most of the vehicles are driven by persons permanently employed by the Government or its contractors. Others are operated by military personnel, stationed with the Command or the other agencies, contractor representatives and vendors.

**TIME CHANGE**  
Redstone Arsenal and Huntsville will convert to Central Standard Time at 2 a.m. next Sunday, Sept. 27.

## COL. HIRSCH IS ABMA DIRECTOR OF INDUSTRIAL DIV.

Announcement of the appointment of Lt. Col. Oliver M. Hirsch as director of the Industrial Division, Army Ballistic Missile Agency, has been made by the Agency's commander, Brig. Gen. J. A. Barclay.

Col. Hirsch recently returned to the Missile Command after completing the Army Ordnance Corps' Executive Development Program which combined a 2-year course in the University of Chicago's Graduate Business School with a managerial survey of industrial practices in a number of large international corporations. There he received a M.B.A. degree.

During his previous assignment at Redstone, from January, 1955 to June, 1957, Col. Hirsch served as executive to the Arsenal's commander, Maj. Gen. H. N. Toftoy.

Mrs. Hirsch and a daughter, Karen, remained at the residence, 1008 Edgewood Ave., in Huntsville, during the colonel's tour in Chicago. Karen, a 1959 graduate of Huntsville High School, has entered Alabama Polytechnic Institute at Auburn, where a son, Martin, a senior there, resides with his family. Martin's wife is the former Eva Ruth Ford, daughter of Mr. and Mrs. Earl R. Ford, Jr., of Huntsville.

Col. Hirsch attended the University of Missouri and is a graduate of the Ordnance Corps Advanced School and the Army's Command and General Staff College.

In civilian life Col. Hirsch works manager for a Kansas City refrigeration manufacturing corporation. He entered the Army in 1942 as an Infantry reserve officer and was later transferred to the Ordnance Department where he subsequently commanded the Cornhusker, Neb., and Denver Ordnance Works and was later executive to the commanding general at the Ordnance Ammunition Command. During the Korean conflict he commanded a (See COL. HIRSCH on Page 2)

## GEN. HINRICHS VISITS AOMC

Lt. Gen. John H. Hinrichs, Army Chief of Ordnance, wound up a two-day stay last Friday at Redstone Arsenal, where he visited headquarters of the Army Ordnance Missile Command and the Ordnance Guided Missile School.

The general, who was recently promoted to his three-star rank, heard progress reports on Army missile and space programs, and toured research, development, and training facilities of the Arsenal.

He was welcomed to the post by a group of senior officers headed by Maj. Gen. J. B. Medaris, AOMC Commanding General.

At the Army Rocket and Guided Missile Agency, an element of AOMC, Gen. Hinrichs was briefed on the Agency's supporting research and ARPA (Advanced Research Projects Agency) program, the Nike Zeus missile, and other ARGMA programs. Gen. Hinrichs also witnessed a rocket firing on one of ARGMA's ranges.

At the Army Ballistic Missile Agency, he was briefed on the (See VISITS on Page 2)

\* \* \*

## Gen. Trudeau Introduces Conference Keynote

### REDSTONE SCORES FIVE INLAND FIRING SUCCESSES

"Field-trained Army troops have successfully conducted the fifth inland firing of the Redstone ballistic missile at White Sands Missile Range, N. M., the Army announced today.

The reduced-range firing under simulated tactical conditions at the 100-mile-long New Mexico desert range was conducted by missile-men of the 209th Field Artillery Missile Group trained at Fort Sill, Okla.

Redstone's dual-purpose flight provided engineering data for WSMR's Redstone project and user evaluation information for the Army Artillery Board, Missile Division.

"The 'hot' firing was a bonus to the troops; it climaxed months of tactical maneuvers and training in handling, servicing and erecting the 69 foot missile at Fort Sill.

Army missilemen conducting similar inland firings at White Sands Missile Range have been assigned to Redstone units in Europe as part of the North Atlantic Treaty Organization Shield Forces.

The first overland launch of the 200-mile range ballistic Redstone was carried out at WSMR in early June 58. Three other successful firings in the current engineering and user evaluation series were conducted at the 4,000 square-mile range in January, February, and April of this year.

Engineering evaluation information provided by the fully instrumented ballistic flight of the Redstone was forwarded by WSMR to the Army Ballistic Missile Agency, developing agency for the Redstone.

ABMA and White Sands Missile Range both are elements of the Army Ordnance Missile Com- (See INLAND on Page 3)

### Human Engineering Factors Are Studied

Lt. Gen. Arthur G. Trudeau, chief of Army Research and Development, was the keynote speaker Tuesday at the opening of the Fifth Annual Human Factors Engineering Conference, being held at the Rocket Auditorium, Redstone Arsenal.

The theme of the conference is "Man and Firepower," the subject on which Gen. Trudeau based his address. Some 200 scientists from the Army, other services and industry are attending.

The general warned against modern machines of war being made so complex that they become masters of men assigned to them. He said, "Men, not machines win or lose battles.

"This will be the case until we have weapons that reach logically sound conclusions, with and adversity and match hardship and danger, devotion and courage to carry on to a final victory.

"There certainly are no such weapons on the horizon now."

Maj. Gen. J. B. Medaris, commanding General of the U. S. Army Ordnance Missile Command, officially welcomed the conferees and participants on the program Tuesday. The three-day meeting, which includes a tour of Army facilities here, will end Thursday.

Dr. Lynn E. Baker, chief psychologist in Gen. Trudeau's office, was session chairman for the opening of the conference. Redstone Arsenal Chaplain (Maj.) James H. Goewey delivered the invocation at the opening session.

Col. Keith H. Eubank, assistant to the deputy Chief of Staff for Materiel Developments at Headquarters, U. S. Continental Army Command, delivered a paper on the "Interdependence of Man and Firepower."

Donald I. Graham, human factors engineer at the Army Roc- (See HUMAN on Page 2)



**REVIEWS HONOR GUARD**—Lt. Gen. John H. Hinrichs, (center, foreground) Army Chief of Ordnance, reviews an honor guard upon his arrival at Redstone Arsenal last week to visit the Army Ordnance Missile Command. Welcoming Gen. Hinrichs to the Arsenal was Maj. Gen. J. B. Medaris (right), AOMC Commanding General. Escorting the two generals in photo above is Lt. Donald C. Becker, Officer of the Guard, Redstone Arsenal Provost Marshal Office. Following a helicopter tour of the post, Gen. Hinrichs visited the Ordnance Guided Missile School. Friday, he heard briefings and inspected facilities of the Army Rocket and Guided Missile Agency and the Army Ballistic Missile Agency, both elements of AOMC.

# The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday at no expense to the Government by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

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## HUMAN

(Continued From Page 1)

ket and Guided Missile Agency Research and Development Division, outlined the Ordnance Corps program as an Army Ordnance Missile Command representative.

Graham discussed the methods used by Army scientists to keep the Jupiter intermediate range ballistic missile from becoming too tricky for the men who operate it by applying lessons learned in development of the earlier Redstone missile.

Dr. Marvin Schneider, research psychologist at Aberdeen Proving Ground, described in detail how human factors engineers worked with design engineers in development of the Army's Sergeant surface-to-surface ballistic missile to make certain crews could handle the weapon easily and efficiently.

Tuesday lunch was served the conferees at the National Guard Armory in Huntsville. Approximately 200 scientists and engineers from the Army, Air Force, and Navy commands and technical services and from industries and universities performing development services for the Army are attending.

Tuesday's afternoon session was presided over by Col. S. C. Holmes, assistant Chief of Staff, Research and Development, AOMC, at which four industrial firms were represented.

Papers were presented by M. P. Wilson and J. R. Melville of the Bell Telephone Laboratories, Earl B. Gardner of the Operations Research Group, Convair Division of General Dynamics, Lawrence Pitman of Raytheon Corp., and Maurice A. LaRue, Jr.,

of the Martin Co. The last hour of the day was devoted to a tour of the Ordnance Missile Command facilities and observation of missile systems equipment and demonstrations.

At this morning's session, R. W. Cuthill, AOMC chief scientist, is the session chairman and will preside over the portion of the conference devoted to the Army Medical Service presentations.

Lt. Col. Ernest K. Montague, director of the Psychology Division and two others, from his staff at the Army Medical Research Laboratory at Ft. Knox, Capt. John L. Fletcher and Capt. William B. Ross, are scheduled to talk about the Medical service contribution to firepower, the "Acoustic Reflex as a Protective Mechanism against Firing Noise" and "Biomedical Aspects of Missile Transport: Effects of Restraint on Primates."

Other selected problems related to firepower will be discussed from the point of view of the Transportation Corps, the Corps of Engineers, the Signal Corps, and the Quartermaster.

Col. M. R. Collins, Jr., chief of the Army Rocket and Guided Missile Agency's Research and Development Division will be the session chairman this afternoon.

Scheduled to deliver papers are Dr. E. Ralph Dusek, chief of the Psychology Branch, Quartermaster Research and Engineering Center; Capt. Thomas H. Burkhalter, QMC; and Dr. Walter F. Wood.

Principal speaker at dinner tonight will be Dr. Charles Lundquist of the ABMA Research Projects Laboratory who will talk about "Man's Environment in the New Frontier."

Tomorrow will be devoted to summarizations and reports on various aspects of the Human Factors Engineering program including the status of the Army Regulations covering this field.

## IBEW RECOGNIZED

Howard Hovis, president of the International Brotherhood of Electrical Workers Local Union 558, announced that this chapter had been recognized as an authorized agency by the Personnel Offices at the Army Ballistic Missile Agency and at Redstone Arsenal.

## VISITS

(Continued From Page 1)

Redstone, Jupiter, Saturn, and Pershing programs. The general also inspected mock-ups of the Pershing ballistic missile and Saturn space vehicle.

At the Ordnance Guided Missile School, he toured troop facilities Corporal missile classrooms, the Officers Training Division, Television Branch, Surface-to-Surface Division, and Surface-to-Air Division. He also addressed a meeting of officers and key instructors of the School.

## COL. HIRSCH

(Continued From Page 1)

separate battalion in U. S. X Corps, transferring to Japan where he commanded the Insular Ammunition Depot Complex.

His decorations include the Legion of Merit, Bronze Star Medal, Army Commendation Medal and various World War II and Korean Theatre and service medals. He is a member of the Association of the U. S. Army, American Ordnance Association, Rho Nu and Sigma Chi Fraternities.

## 80 PER CENT OF DAY'S PAY WINS UGF ROCKET

Each person at Redstone Arsenal who contributes 80 per cent of one day's pay in the current United Givers Fund campaign will be presented with a "Fair Share Rocket," Jackson Balch, the Redstone UGF executive chairman, announced.

Officials in charge of the drive are suggesting that each employe give 80 per cent of a day's pay as a "fair share."

Balch describes the rocket as a small plastic item about five inches high and an inch in diameter.

"The Fair Share Rocket" has very little intrinsic value, but it certainly represents in a very real way the spirit displayed by all fair share contributors," Balch said.

Each rocket will be inscribed "Redstone UGF — Fair Share Gift."

In addition to the small Fair Share Rocket for presentation to individuals, a large version will be given to each of the various Arsenal Army and contractor agencies that reach a fair share goal. These larger rockets will have the name of the division on it, plus the words: "Redstone UGF — Award for Outstanding



**GIVE THE UNITED WAY**—This banner is strung between two Nike-Hercules Missiles pointed at the sky near Gate 1 and will remain there during the Arsenal United Givers Fund Campaign. The UGF kickoff meeting was on Monday.

Citizenship." These campaign tokens compare with the "Oscar" that was presented to each division in last year's campaign that raised a fair share.

The 1959 UGF drive began Monday (Sept. 21) and ends November 5. All Army agencies and contractors located on the installation are taking part in the Arsenal campaign.

A tourist was crossing the ocean for the first time, and began to feel strangely dizzy. Staggering to the steward, he asked what would prevent seasickness. "Have you a quarter," the steward asked. "Certainly," replied the tourist, taking the desired coin from his pocket, "but do hurry." "Now," said the steward, "put it between your teeth, and keep it there."

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(Continued From Page 1)

he pointed out, if the twin goals of 100 per cent participation and fair share giving are reached.

A fair share gift for each employe has been established at 80 per cent of one day's pay.

In contributing, each person should remember that a total of 21 agencies share his gift, and that it contributes to a budget for an entire year's operation.

Military personnel should remember that a substantial part of their contributions will go into the Redstone Arsenal Joint Activities Council.

Directing his remarks to out-of-county residents, Gen. Medaris pointed out that the location of the Arsenal here was a tremendous economic asset to the entire Tennessee Valley. But at the same time, he said, "It places a terrific burden on the City of Huntsville and Madison County to provide expanded community services and facilities. Each out-of-county resident should recognize his obligation to Madison County, and should allocate a substantial part of his contribution to the Huntsville-Madison County UGF."

Let us meet our pledge to the sick and needy just as we have met our pledges on time and in every case to the nation in the scientific and military fields, he said.

Attending the meeting from Huntsville were Mayor R.B. Searcy, Harold Bronfin, UGF executive director, and Daniel C.

(Continued From Page 1)

mand. Although full electronic and optical instrumentation provided data on the missile's flight, pre-firing and launch activities of the troops were carried out under field conditions which simulated as closely as possible tactical situations.

While the return of engineering and user evaluation data was a major reason for the test firing, the trained Army missilemen reaped a by-product benefit in applying their know-how to set up the missile, zero it on a target-impact area far up the missile range and then launch the big liquid-propellant Redstone toward that target.

The firing group from Fort Sill is unique in that Artillery, Ordnance and Engineer Corps missilemen worked side-by-side as an integrated missile group to perform the operations leading to the successful impact.

Battery B of the 209th conducted the firing. Colonel Howard E. Von Kaenel is commanding officer of the 209th Group; Capt. Robert E. Wright commands B Battery.

Captain David P. McNamara is commanding officer of 89th Ord. Co. and Captain Earl P. Fielder is commanding officer of the 76th Engine Co. Both companies are elements of the 209th.

Boone, last year's UGF drive chairman for Huntsville.

The Master of Ceremonies was Jackson Balch, Redstone executive chairman. Representatives of organizations and firms on the post who were introduced by him included: Joe Wiggins, Thiokol Chemical Corporation; Allen Deschere, Rohm and Haas Chemical Co.; Col. Thurston T. Paul, Jr., deputy commander, ABMA; Col. Reino O. Lehtonen, deputy commander, ARGMA; Col. Owent T. McCloskey, commander, Redstone Arsenal; Col. Charles W. Eifler, commandant, OGMS; and Maj. John A. Zwack, Assistant Post Chaplain.



**SHAPELY NUGGET** — Maybe they didn't dress like this in the gold rush days, but who'll quibble when it's Dorothy Provine sweetening up the sourdoughs? She'll star in "The Alaskans," a new fall TV series.

Women never can be as successful as men. They have no wives to advise them.

## How's Your Know-How?

1. Headquarters of the following Air Force commands are at what bases? (a) Air Defense; (b) Materiel; (c) Research and Development; (d) Training.
2. Where did the word "salary" originate?
3. Who built the first practical U. S. gasoline automobile? When? Where?
4. After the Revolutionary War, the Navy was disbanded. When, how and why did Congress reactivate it?
5. When and where did Britain acquire her first overseas colony?

### (Answers to the Quiz)

1. (a) Ent AFB, Colo.; (b) Whight-Patterson AFB, Ohio; (c) Andrews AFB, Md; (d) Randolph AFB, Texas.
2. Roman soldiers got a special stipend to buy their ration of salt. They called it "salarium"—hence the English word salary.
3. The Duryea brothers; in 1892-93 at Springfield, Mass.
4. On March 27, 1794, by ordering the building of six frigates to protect U. S. shipping from Barbary pirates.
5. In 1583 when Sir Humphrey Gilbert laid claim to Newfoundland in the name of Queen Elizabeth.

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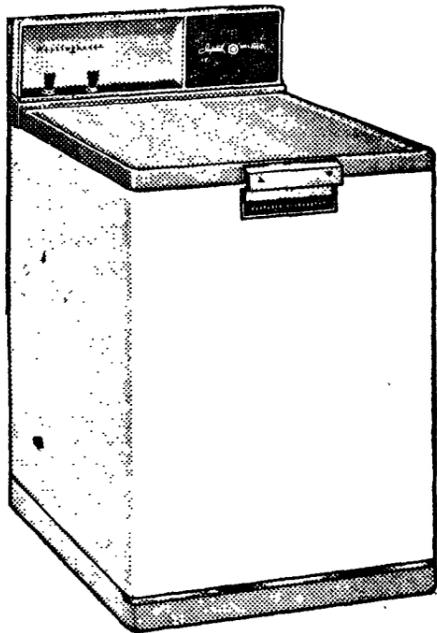
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# Social News



**FAREWELL LUNCHEON**—On behalf of the Redstone Arsenal Officers Wives Club, Mrs. W. F. Kaiser (right), Wives Club president, presents a farewell gift of engraved silver to Mrs. J. M. Colby, wife of Brig. Gen. Colby, Deputy Commander of the Army Ordnance Missile Command. The presentation took place during a farewell luncheon held by the Club in Mrs. Colby's honor Monday. General Colby announced his intention to retire from active duty earlier this month.

\* \* \* \* \*

## WIVES CLUB GIVES FAREWELL LUNCHEON FOR MRS. COLBY

Mrs. J. M. Colby, wife of Brig. Gen. Colby, deputy commander of the Army Ordnance Missile Command, was honored Monday with a farewell luncheon at the Redstone Arsenal Officers Club. More than 100 members of the Redstone Arsenal Officers Wives Club attended the event, which was highlighted by the presentation of an engraved silver serving

shell to Mrs. Colby as a farewell token from the Club. The gift was presented by Mrs. W. F. Kaiser, Wives Club president. Mrs. J. G. Zierdt, luncheon chairman, opened the program by reading a letter from Mrs. J. B. Medaris, wife of Maj. Gen. Medaris, Commanding General of the Army Ordnance Missile Command, in which Mrs. Medaris ex-

## MRS. CHENAULT VISITS RUSSIAN LIBRARIES DURING VACATION

Mrs. Charlotte F. Chesnut, chief of the Army Ballistic Missile Agency Technical Documents Library, recently returned from a three-week tour of Russia with a group of American librarians.

Mrs. Chesnut also visited in Vienna and attended the International Astronautical Federation Conference in London before her return to the U. S.

The Russian tour was arranged for the librarians through Intourist, the state-run Russian travel agency.

The group visited three cities: Kiev, Leningrad, and Moscow. The libraries visited contained both modern and ancient documents and had a large section of foreign journals, books and documents from many other nations. The greatest volume of exchange in this collection was from the United States and the United Kingdom.

Some of the libraries were very old, Mrs. Chesnut said. The Library of the Academy of Science in Leningrad was established by Peter the Great in 1714. As a result, the libraries have built impressive collections of incunabula (rare books either block printed or hand written before 1501 A.D.) as well as the modern collections.

The visiting Americans, who were also authors, were shown books of their own. Mrs. Chesnut did not have a book, but she found a document furnished as an AEC exchange service when she worked at Oak Ridge.

The Russian libraries are divided into categories and run as chains. The categories are: the Academy of Science Libraries, state and public libraries, university and school libraries, trade union, collective farms, and children's libraries.

One thing the members of the group missed in the cities were children. Since it was summer, most of the children were in state-run camps.

The people with whom the group came in contact were courteous, curious and friendly, said

pressed her regrets at Mrs. Colby's departure. Gen. Colby announced his intention to retire from active duty this month.

Mrs. Zierdt was assisted in planning the luncheon by Mrs. H. M. Murray, Mrs. W. J. Fries, and Mrs. Glenn Crane. Mrs. R. L. Crossman, Mrs. H. R. Del Mar and Mrs. C. R. Blaha served on the reservation committee while Mrs. S. C. Holmes and Mrs. H. C. McClain poured during the social half hour preceding the luncheon.

Luncheon tables were decorated with bouquets of fall flowers, with the floral centerpiece at the main table highlighted by miniature pennants expressing wishes of joy, health, luck and success to Mrs. Colby.

Mrs. Chesnut.

The questions asked most often by chance acquaintances on the street as well as by the librarians were:

"Do you own your home?"

"Do you own a car? How much did it cost?"

And, "Why can't the Russians and Americans have an understanding?"

Intourist guides were assigned to the group, "but no one was restricted in his activities except by a strenuous schedule of library tours," she said.

The opera was closed for the summer and the largest crowds seeking entertainment went to the stadiums for the athletic events. Music halls and the cinema also drew large crowds, including the librarians.

Art galleries, church services, and a trip to GUM, a state-run department store in Moscow, were also included on the itinerary for those who wished to visit.

The Americans gave a farewell dinner for their hosts at the close of their stay. Conversation in four languages and good food "made a convivial farewell," Mrs. Chesnut said, and "spoke of universal friendship and professional interest."

The language barrier was not important, Mrs. Chesnut said. People wanted to understand as much as the Americans wanted to communicate. In addition three of the Americans spoke fluent Russian, and the guides were fluent in English. Many of the chance ac-

## OGMS Reception Will Be Held on Friday

The Army Ordnance Guide Missile School's regular bi-monthly "Hail and Farewell" reception will be held next Friday, Sept. 25, at 6:30 p.m. at the Redstone Arsenal Officers Club & Squirrel Hill.

About 500 officers and their wives are expected to attend the event which is held every two months to greet new arrivals of the OGMS staff and say adieu to those being transferred elsewhere.

Uniform for the occasion will be either tropical worsted or whites, and military personnel are asked to wear name tags. Free hors d'oeuvres and "dutch" drinks will be served.

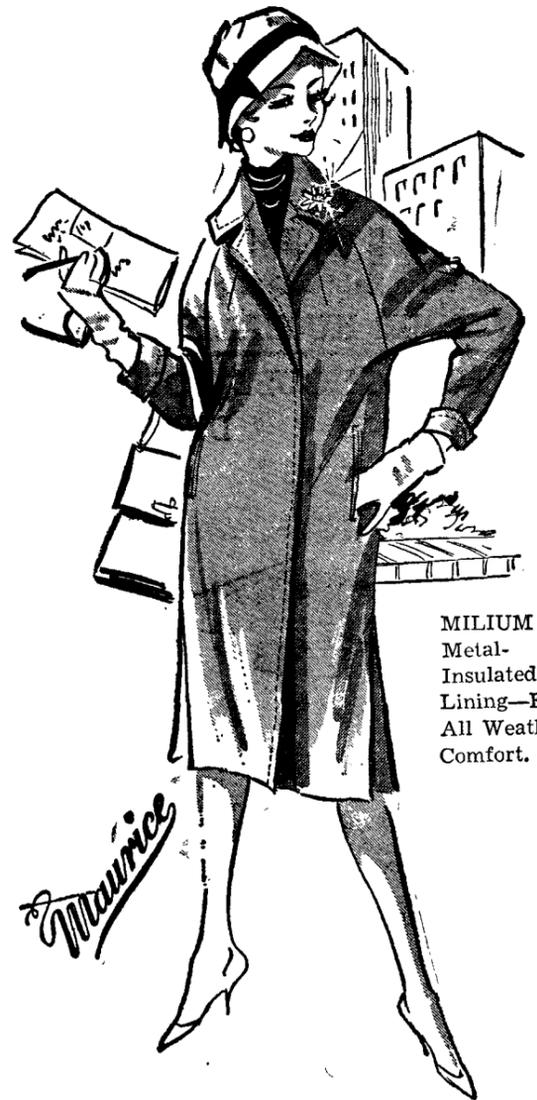
The OGMS Surface-to-Air Division is the official sponsor of the event. A "missile-launching" game is to be staged for the guests, and a door prize is offered for a lucky lady.

acquaintances on the street and among the librarians also knew English or French or German and were able to talk to the visitors without trouble.

The group visited the American Exposition during the stay in Moscow.

At the University of Moscow Library, Mrs. Chesnut tried to explain her position at the Army Ballistic Missile Agency to the director of a library. Since the interpreter could find no word in Russian for ballistic missiles, the library director suggested, "Let's say, 'She works for a sputnik.'"

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MILIUM Metal-Insulated Lining—For All Weather Comfort.

Here's Exactly What You Ordered and It's Milium Lined

An easy-fitting coat by MAURICE, in luxurious 100% Wool "Grandessa" following the preferred lines of Fashion '59. Paris-inspired in design, U.S.A. inspired in versatility and price. From its novel open or buttoned collar to its willowy side pleats, a true fashion find. Lined with Milium for any-season wear.

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**Gray Ladies Plan Programs for Year**

Twenty-three Gray Ladies met at 10 p.m. in the Post Chapel to view programs, discuss news and schedules, and for a refresher talk on volunteer work in dependent clinics.

Mrs. H. D. Arrott, chairman of post volunteers presided and introduced the speakers. Mrs. E. Larson, nurse from the post hospital discussed procedures for volunteers who assist in the clinics.

Mrs. J. N. Jean, chairman of the blood volunteers, advised the next bloodmobile visit will be Oct. 7. She praised the volunteers for efficient help given in the operations but especially the Aug. 12 visit when 932 units of blood were donated.

Mrs. R. N. Flint discussed the Gray Lady duties for ward visiting and personnel services for patients. She emphasized the importance of giving service to patients as a basic service of the Gray Lady program.

Mrs. David Robinson, Gray Lady service chairman, reported that the Gray Ladies had done an exceedingly fine job during the summer months, in August alone 7 Gray Ladies gave 602 hours of service in the clinics, in the hospital, and in the blood program. Mrs. G. C. Macey will be in charge of providing tray favors for the hospital trays on the forthcoming holidays — Halloween, Thanksgiving, and December for the patient Christmas party.

Mrs. F. D. Cressy, vice-chairman of Gray Lady Service, reported on her trip to the National Convention of the American Red Cross which met in Atlantic City in June. Mrs. Cressy and other volunteers from Madison County Chapter attended this meeting where she said the emphasis of the meeting was on the important place of the volunteer in the national organization and its many services.

Gray Ladies attending the Sept. 14 meeting: Mrs. L. M. Anderson, Mrs. M. Axelsen, Mrs. G. M. Arnold, Mrs. G. L. Barnhill, Mrs. C. R. Blaha, Mrs. Glen Crane, Mrs. J. H. Davitt, Mrs. R. N. Flint, Mrs. J. H. Goewey, Mrs. C. E. Harrison, Mrs. L. P. Jeck, Mrs. W. M. Kaiser, Mrs. J. B. Levaass, Mrs. G. C. Macey, Mrs. H. M. Murray, Mrs. J. H. Morrison, Mrs. J. G. Shinkle, Mrs. G. M. Van Keuren, and Mrs. C. A. Van Pelt.

Mrs. H. D. Arrott, chairman on-post volunteers; Mrs. R. H. Granger, co-chairman of volunteers; Mrs. Davie Robinson, chairman of Gray Lady Service; Mrs. F. D. Cressy, vice chairman of Gray Lady Service; Mrs. J. N. Jean, chairman of Bloodmobile volunteers.

Visitors attending the meeting were: Mrs. R. Benito, Mrs. J. R. Cox, Mrs. Foster Furphy, Mrs. S. C. Holmes, Mrs. J. L. Johnson, Mrs. E. J. Kloos, Mrs. J. A. Knight, Mrs. Charles Mauceri,

**Garden Club Holds September Meeting**

The Redstone Garden Club meeting for the month of September was held at Squirrel Hill Offshooters Club.

Mrs. Marian Steinger, president, and all old members welcomed new members who include Mrs. Georgia Bluhm, Vivian Bofferf, Norma Cranford, Mary Harrison, Joan Harris, Topsy Horton, Barbara Lamoure, Kathy Lowell, Petie Lynn, Phyllis Maliskey, Gloria Mitman, Jean Morrison, Ellen Morrow, Frances Scalzo, Inez Seigle, Ann Spinello, and Cecilia Washbourne.

The Garden Club Plaque for the month of September was awarded to Capt. and Mrs. Young Moore III, 201 A Dyer Circle.

The program for the evening was presented by Mrs. Carol Freyder and Mrs. Anita Wooten. Mrs. Freyder discussed fall planting of "Bulbs, Perennials, and Seeds." Mrs. Wooten discussed "Dry Arrangements" and displayed her arrangements to complement the discussion.

Cake and coffee was served by Mrs. Carol Freyder from tables decorated with dry arrangements. All members followed the usual practice of individual arrangements following the discussions.

The next meeting of the Garden Club will be Oct. 20. Mrs. Nan Devine will present a program on "Corsages." All interested in attending the next meeting contact Mrs. Pat Bice, ext. 7643. All new members are welcome.

**Community Chorus Is Rehearsing 'Requiem'**

The Huntsville Community Chorus is currently rehearsing the "Requiem" by Johannes Brahms, Opus 45, which will be their first presentation of the 1959-60 season.

Other planned performances include a Gilbert and Sullivan Operetta that will be given in cooperation with the Civic Orchestra and the Little Theater, a Christmas Concert, and Honegger's Symphonic Psalm, "King David."

Kenneth V. Turvey, music director at the First Methodist Church will direct the chorus this year. Turvey previously served as accompanist for the chorus and last spring directed the chorus, orchestra, and little theater groups in the presentation of the Gilbert and Sullivan operetta "Trial By Jury." He succeeds Mrs. Pat Hamm who retired last season.

The chorus members live in Huntsville, Decatur, Athens, and other surrounding communities.

Individuals including Redstone

Mrs. E. J. McGinnis, Mrs. C. L. Payne, Mrs. P. B. Schuppener, Mrs. C. N. Thran.

Mrs. J. H. Morrison was in charge of refreshments for the meeting.

**Toastmistress Club Meets at Morrisons**

The Huntsville Toastmistress Club, composed largely of women working at Redstone Arsenal for one of the Army Ordnance Missile Command Agencies, the Ordnance Guided Missile School, and of officers wives, heard reports of community service performed by members speaking in behalf of Friends of the Library, during their meeting at Morrisons Restaurant last week.

The club also received an invitation to participate in the Toastmistress Council meeting at Montgomery Oct. 24-25.

Mrs. P. K. Gibbs was selected as the evening's best speaker, her second award in two weeks. Her topic was: If I were Mrs. Krushchev, What Would I Like to See in America."

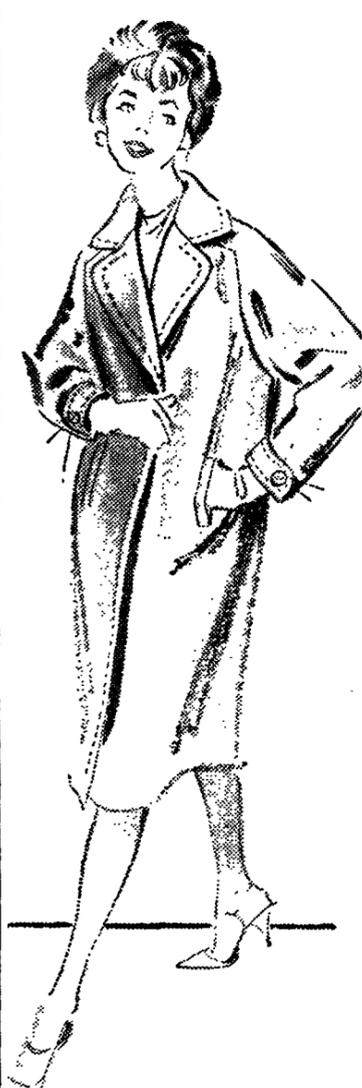
**Mrs. Spragins Wins At Thursday Bridge**

The party bridge group of the Redstone Arsenal Officers Wives Club met Thursday morning at the Officers Club with five tables in play.

Mrs. R. L. Spragins took high, Mrs. O. C. Grummt placed second, Mrs. J. M. Blank was third, and Mrs. A. Creel scored low.

The party bridge group meets weekly on Thursday mornings and all members of the Wives Club are invited to participate. Reservations should be made not later than Wednesday noon with Mrs. A. Y. Harper Jr., JE 9-2606.

Arsenal military and civilian personnel who would like to sing with the chorus are invited to attend the rehearsals held every Monday evening at 7:30 p.m. in the First Presbyterian Church Annex. Those desiring to sing the Brahms's "Requiem" should plan to attend the rehearsals on Sept. 28th.



**Dee Dee Deb**  
Dee Dee Deb has the casual look of luxurious fashion. Smartly tailored in Cashmere and Wool and with a clutch front closing, scalloped collar that is handsomely and completely hand picked. Sizes are 6 to 16. Colors are Red, Blue and Natural.

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**Reservation Deadline For Wives Club Lunch Is Noon Tomorrow**

Members of the Redstone Arsenal Officers Wives Club are reminded to make reservations not later than noon tomorrow, Sept. 24, for the Officers Wives Club luncheon to be held Tuesday, Sept. 29 at the VFW Hall, Huntsville.

Feature attraction on the luncheon program will be a fashion show by Blach's of Birmingham. Robbins Music Company of Huntsville will provide organ music for the occasion with Mrs. William R. Martin as organist. The luncheon will begin at 1 p.m. following a social half hour beginning at 12:30.

Reservations can be made by calling: on post — Mrs. J. L. Barnhill, ext. 8456; Mrs. P. A. Lamoure, ext. 8559; Mrs. E. A. Rudd, ext. 8056; off post — Mrs. R. W. McNamee, Jr., JE 2-8870; Mrs. S. J. Dobbs, JE 2-3972; or Mrs. H. R. Lowers, JE 4-1284.

Cancellations should be made through Mrs. H. N. Brownson, ext. 8848. Nursery reservations can be made by calling ext. 8745.

Reservations for the event are limited to 400.

**Sewing Classes Start This Morning at Club**

Sewing classes for the Redstone Arsenal Officers Wives Club Sewing Group will begin this morning from 9 to 11 a.m. at the Squirrel Hill Officers Club.

The group will meet every Wednesday. There will be two classes of instruction, one for beginners and one for advanced students.

The instructor will be Mrs. James MacDonnell, Arsenal ext. 6-5942.

One of the bridge rooms will be used for the sewing classes. The first meeting will be organizational.

**Mrs. Roberts Wins At Canasta Thursday**

The canasta group of the Redstone Arsenal Officers Wives Club met Thursday evening at the Officers Club with two tables in play.

Mrs. Roy Roberts placed high and Mrs. Fred Dean was low.

The canasta group will meet weekly at 7:30 p.m. on Thursday evenings at the Officers Club beginning Oct. 1. All members of the Wives Club are invited to participate. For reservations call Mrs. Donald Voorhees, JE 9-2452, not later than noon on Wednesday.

**Mrs. Finch and Fred Ellis Win at Bridge**

Five tables of party bridge were in play Monday night, September 14, at the Officers Club with Mrs. Homer Finch and Fred Ellis taking first place honors.

Second among the women was Mrs. Hugh Carmichael, while Mrs. P. F. Brinkpeter placed low.

Major Jim Clift took second among the men with CWO W. Hudgins placing low.

Mrs. Homer Finch and Capt. Josephine Walls were hostess for the evening.

**DRAPERS TO SHOW JEWELRY**

Maj. and Mrs. Andrew Draper will display their silver wire jewelry with exotic woods at the 13th annual Plum Nelly Clothesline Art Show Oct. 10-11.

Maj. Draper is the Post Quartermaster at Redstone Arsenal. He and Mrs. Draper make jewelry as a hobby.

The Plum Nelly show is held in an open woodland off Georgia Highway 143 near the Tennessee border.

This Missile Age Army! — NIKE missiles have been operational since the first NIKE AJAX battery was installed in 1953 at Fort George G. Meade, Maryland.

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## Religious Services

### POST CHAPEL — BLDG. 3714

#### PROTESTANT

Sunday: 1000 and 1115 hours — Morning Worship, general Protestant services.

Church School — 1000 hours — 1st session 4th grade thru Adult Class.

1115 hours — 2nd session 3 yrs. of age thru 3rd grade. Nursery for babies and small children is open during these two services.

1830 hours — Christian Youth Fellowship, Jr. Hi and Senior Hi. Buses will pick up those attending.

Tuesday: 1830 hours — Enlisted Men's Christian Union.

Wednesday: 1845 hours — Chancel Choir Rehearsal.

\* \* \*

### REDSTONE PARK COMMUNITY HALL

Sunday: 0945 hours — Sunday School Classes.

11 hours — Morning Worship Service.

Wednesday: 1930 hours — Family Night Service.

### JEWISH

Temple B'Nai Shalom (Corner of East Clinton and Lincoln). Friday — 2000 hours — Regular Service. O'Neg Shabbot (Sabbath

## Special Services Activities

### POST SERVICE CLUB OPERATING HOURS

Monday thru Saturday 1000-2200

Sunday and Holidays 0900-2200

### POST LIBRARY OPERATING HOURS

Monday thru Friday 0900-2200

Saturday and Holidays 1000-2200

Sunday - 1200-2200

### CRAFTS SHOP OPERATING HOURS

Monday thru Friday 1000-2200

Saturday and Holidays 0800-1630

Sunday - Closed

### RSA BOWLING LANES OPERATING HOURS

Monday thru Saturday 1200-2200

Sunday and Holidays — 1300-2100.

### POST GYMNASIUM:

Monday thru Friday 1300-2100.

Saturday 0900-1630.

Sunday and Holidays 1300-1630.

### GOLF COURSE OPERATING HOURS

Saturday, Sunday and Holidays 0730 until dark.

All other days — 0800 until dark.

### TENNESSEE RIVER PICNIC AREA

Weekdays — 1300-2100.

Social) at Temple Annex.

### CATHOLIC

Sunday: Masses — 0745, 0845 and 1230 hours (Nursery available during Masses).

Baptisms — 1330 hours (By appointment).

Teenage Religion Class — 1830 hours.

Monday: Inquiry Class — 2000 hours.

Tuesday: Altar Boys' Class — 1830 hours.

Novena in Honor of Miraculous Medal—1930 hours.

Choir Rehearsal—2000 hours.

Wednesday: Mass—1700 hours.

Saturday: Catechism Classes—1000-1130 hours.

Confession—1800-1900 hours.

Daily Mass: 1130 hours (except Wed.)

CHAPEL NO. 2 (A. F. Area)

Sunday: Mass (Italian) 1100 hours.

### CHRISTIAN SCIENCE SERVICES

Sunday — 1100 hours—Held in Huntsville at White St. and Wells Avenue.

Wednesday meeting—1930 hours.

## Post Library

BY ANNA L. FARRAR, Librarian

Books from the Post Library will banish boredom, keep you informed, give you ideas, help you on your job, and make problem solving easy. Decide NOW to visit your library more often.

These are among the many new books on the shelves and in circulation:

Dora Albert, "Stop Feeling Tired and Start Living."

Kendall Banning, "West Point Today."

Edith Begner, "Just Off Fifth."

John Blackburn, "A Sour Apple Tree."

Paul Bonner, "Art of Llewellyn Jones."

Jim Bosworth, "Long Way North."

John Brimer, "Designs for Outdoor Living."

James Brussell, "Just Murder, Darling."

William Burnett, "Mi Amigo."

Christopher Bush, "Case of the Running Man."

George Coxe, "Slack Tide."

John Creasy, "Trouble at Saxby's."

Sam Crowther, "Small Boat Guide."

Martin D'Arcy, "Communism and Christianity."

Dorothy Davis, "Old Sinners Never Die."

Lotan De Wolf, "The Case for Theology in Liberal Perspective."

Davis Dresser, "Date With a Dead Man."

Allen Drury, "Advise and Consent."

Cyril Falls, "The Great War."

Vardis Fisher, "Love and Death."

"German Photographic Annual, 1959."

Adolphe Goutard, "Battle of France."

Gilbert Govan, "The Chattanooga Country, 1540-1951."

Robert Graves, "The Greek

Saturday, Sunday and Holidays — 0900-2100.

For reservations of more than two tables, contact the Sports Section, ext. 2943.

### Myths."

Lorraine Hansberry, "A Raisin in the Sun."

Mark Harris, "Something About a Soldier."

Mark Harris, "Wake Up, Stupid."

Philip Hitti, "Syria."

"How to Help Your Children."

Karl Jaspers, "The Idea of the University."

Frank Kenyon, "The Golden Years."

Norah Lofts, "The Town House."

Winifred McConville, "Shadow in the Glen."

Walter Macken, "Seek the Fair Land."

Lucy Malleson, "Prelude to Murder."

Edison Marshall, "Pagan King."

Ruby Phillips, "Cuba."

Patrick Quentin, "Shadow of Guilt."

Robert Reynolds, "Choice to Love."

Fred Reinfeld, "Way to Better Chess."

Davenport Steward, "Black Spice."

Eleanor B. Roosevelt, "Day Be-

WASHINGTON, (ANS) — The Third Annual Secretary of the Army's Award Ceremony, here — when the Secretary presents appropriate awards to Civilian Employees of the Army for their outstanding achievements — highlights the Army's advancement and forward thinking through its efforts to establish and constantly emphasize its Incentive Program.

fore Yesterday."

Victoria Sackville-West, "Daughter of France."

James Sanderson, "Behind Enemy Lines."

William Stevenson, "Thirteen Months in the Rebel Army."

Gladys Taber, "Stillmeadow Sampler."

Robert P. Warren, "The Cave." Elliott West, "Man Running."

"Who's Who, 1959."

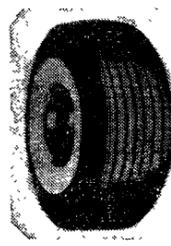
World Health Organization, "Effect of Radiation on Human Heredity."

John Wyeth, "That Devil Forest."

## CUSTOM BUILT DENMAN TIRES

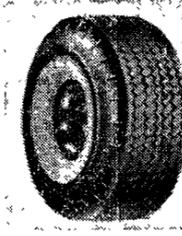
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5.00x15	14.96	16.92
5.60x15	15.83	17.92
5.90x15	15.72	18.22



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If the services of an eyesight specialist (or of a general physician, for that matter) were like sugar or potatoes, you could buy as little or as much as you want and pay accordingly. With sugar or potatoes, the quality is the same whether you buy one pound or ten.

But eye-care isn't like sugar or potatoes. You can't buy it in small amounts, for eyes demand total correction of all their shortcomings. And when you try to save money by visiting a cut-rate practitioner, the quality of the service nearly always goes down.

If you have to consult a conscientious professional, after all, the fee you paid the cut-rater was a sheer waste of money. Low-grade visual service is as bad as, or worse than, none at all.

Doubtless you will agree with all of that, in principle. But maybe you would like to know exactly what are the principal differences between the methods of the cut-rate "quickie" and those of the painstaking, thorough professional. Well, here they are:

1. The first thing you notice about the "quickie" is that his is quick—too quick. Generally the fast-working, corner-cutting eye-man spends about six minutes on the visual examination. Now a good complete examination takes longer than that.
2. One result of the corner-cutting examination is the possible failure to detect diseased conditions, or incipient glaucoma or cataract that may make you blind. The conscientious specialist, on the other hand, will find that 3 out of every 100 patients have diseases of the eye or body. He will either help or advise you in these matters.
3. The "quickie" as a rule doesn't bother to correct small degrees of astigmatism. It takes time, and the glasses needed to correct it are more costly. And too often his other findings are not correct, due to his speed-up methods.
4. The high-grade professional man wants his patients to have only the finest lenses and materials from reputable manufacturers.
5. So you see, it's perfectly easy to cut prices. Anybody can do it, if he has little ethics and less reputation to protect. As far as you are concerned, the point is that you don't save anything in the long run—and your eyes pay the bill of damages—that one and only pair of eyes that must serve you in comfort and safety for a full lifetime.

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3. Accurate interpretive fitting and servicing.
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## ROHM AND HAAS CELEBRATES 10TH ANNIVERSARY

On Friday and Saturday (Sept. 18 and 19), the Redstone Arsenal Research Division of Rohm & Haas Company celebrated its tenth anniversary at Redstone Arsenal. Rohm & Haas Company, founded in 1909 is celebrating its 50th anniversary this year.

On Friday afternoon there was a general meeting of all employees. Allen R. Deschere, general manager of the Redstone Division, briefly reviewed the performance of the division in the past ten years, summarized its present position, and analyzed future prospects. Long service employees were introduced by Dr. Darrel Butterbaugh, manager of the Redstone Division from 1950 to 1956, and presently assistant director of Research in Philadelphia.

Dr. Ralph Connor, vice president and director of Research of Rohm & Haas, reviewed the founding of the Redstone Division in 1949. He also noted that the division had grown considerably faster than the parent company. At the end of its first ten years Rohm & Haas Co. had only 75 employees as compared with the Redstone Division's present 270.

At a dinner for long-service employees on Friday night ten-year pins were presented by Dr. Butterbaugh to the following employees of the division who had started in 1949 at Redstone: Mrs. Ann Logel, Donald DeYoung, Louie Levan, Howard Martin, J. P. Pitts, Lawrence Maples, Richard McNeal, Harvey Meier, John Medlin, and James Morris. Dr. Connor reviewed the first 50 years

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504.00	442.39	28.00	61.61
684.00	607.52	38.00	76.48
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of Rohm & Haas Company.

A luncheon was held at noon Saturday in the Rohm & Haas cafeteria for local and arsenal people who are closely associated with the division.

Saturday afternoon over 400 employees and guests attended an Open House held from 1:00 to 5:00 p.m.

The Redstone Division was founded in 1949 when the Army requested that Rohm & Haas Company undertake the operation of a government-owned facility for research and development of new propellants. The division operates under a basic contract which specifies in broad terms the nature of the work to be carried out, and is supplemented as funds are assigned for basic research or particular projects.

Almost \$17,000,000 has been made available for the support of research and development by this division over the past ten years.

At the end of 1949 there were 30 employees. This was increased rather rapidly to 230 by the end of 1952, but from 1952 to 1958 the staff size was relatively constant. Recently, more work has been added and the staff should reach 280 by the end of 1959.

FROM THE ARMY ALMANAC: September 12, 1959

## Local Security Men Will Attend Meet

Three security officials from Redstone Arsenal will attend the Fifth annual convention of the American Society for Industrial Security in Los Angeles next week.

Local delegates are James C. Lynch, chief, Intelligence and Security, Redstone Arsenal; Bill Johnson, chief, Security Survey and Visitor Control Branch, I&S, Redstone; and Leo Brookshire,

THE REDSTONE ROCKET — SEPT. 23, 1959

Page 7

Security Officer, Thiokol Chemical Corporation, Redstone Division.

The Society has a membership of approximately 2,000, from both private industry and government agencies.

During the convention, Lynch will be installed as a member of the Society's 22-man Board of

Directors.

The three Redstone delegates are all members of North Alabama Chapter of the American Society for Industrial Security. Brookshire is chairman of the chapter. Lynch, a former chairman, is vice-president in charge of the southeast region. Johnson is also a former chairman.



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# SPORTS

## Smallbore Rifle Men Score High in Tennessee Match

At the recent smallbore rifle match at Kingsport, Tenn., the annual East Tennessee Roundup, the Redstone Arsenal Smallbore Pistol Team came home with the following honors:

CWO. John W. Mann, Jr., scored 3144-143x as a sharpshooter bringing home three firsts, three seconds and one third place.

PFC. Leigh Anderson, expert, scored 3172-164x and won three firsts, one second and three thirds.

PFC. Robert R. Ackley, Jr., expert, scored 3135-144x and won one second place.

SFC. Edr. M. Beeler, expert, scored 3129-152x and brought home two second places.

Pfc. Paul S. Birman, sharpshooter, scored 3152-166x to win four first places, four second places, and three third places. This gave him eleven places in 11 tries.

## Redstone Commercial League Bowling - - -

	Won	Lost
Bentley Drug	18	0
Smith Pontiac	6	2
Huntsville Hobby shop	5	3
Brownie Center Drug	4	4
Wilson's Laundry	4	4
Whitesburg Beverage	3½	4½
Radio TV Center	3	5
Aerojet Engineers	3	5
Bill's Men's Wear	2½	5½
R & D	1	7

200games: Gore, 213; Robinson, 203;

## FOOTBALL SCHEDULE

23 Sept. - 30 Sept.  
 Sep 23 "B" Det ABMA -vs- "A" Det OGMS  
 24 3rd ETD -vs- Hq Det USAG  
 25 Hq Det UTC -vs- "B" Det OGMS  
 28 1st ETD -vs- "A" Det ARG-MA  
 29 864th Air Force -vs- "A" Det OGMS  
 30 291st M.P. Co -vs- Hq Det USAG

## SPORTS QUIZ

1. Who was the most recent prizefighter to hold two titles simultaneously?
2. What baseball team put together the longest winning streak in major league history?
3. Who is the only heavyweight champion to go undefeated throughout his career?
4. What is the lowest percentage to ever win a major league batting championship?
5. Who spoiled Floyd Bevens' bid for a no-hitter in the 1947 World Series with a two-out double in the last of the ninth?

### (Answers to the Quiz)

1. Ray Robinson held both the welterweight and middleweight championships.
2. The 1916 New York Giants won 26 straight games.
3. Rocky Marciano with 49 wins (43 knockouts).
4. Elmer Flick of the Cleveland Indians won the American League crown with a .306 mark in 1905.
5. Cookies Lavagetto, then a Brooklyn Dodger and now managing the Washington Senators.

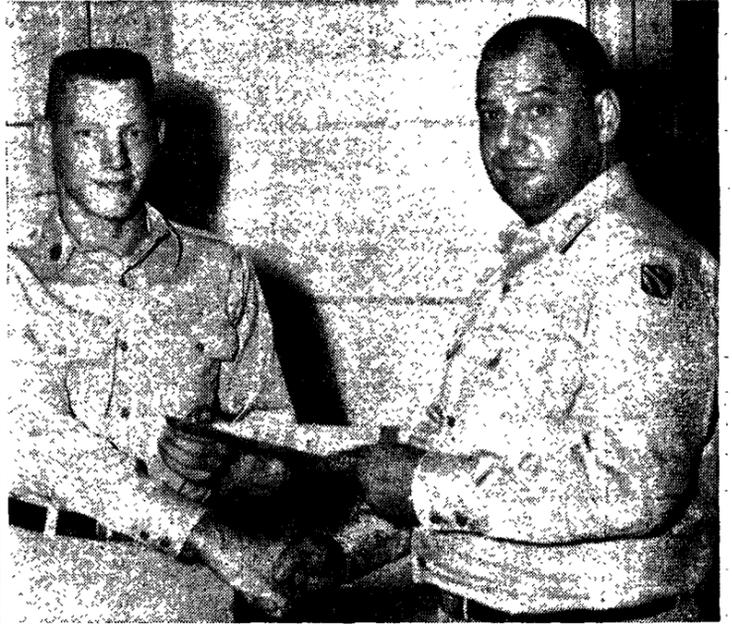
1. Who is the only man ever to win the Professional Golfer of the Year award more than once?
2. Who won the first World Series? When?
3. Who was the only fighter in ring history to fight in all divisions from flyweight to heavyweight?
4. What was the quickest knockout ever scored in a world title fight?
5. What sports thrill is known as "the shot heard 'round the world"?

### (Answers to the Quiz)

1. Ben Hogan in 1948, '50, '51, and '53.
2. Boston beat Pittsburg five games to three in 1903.
3. Georges Carpentier of France. He won the light heavyweight title.
4. Al McCoy won the middleweight title from George Chip in 1914 by knocking him out in 45 seconds of the first round.
5. Bobby Thompson's three-run home in the bottom of the ninth that gave the Giants the 1951 National league flag after trailing Brooklyn 4-2 in the crucial



IN THE SWIM — "Miss Lifeguard," Martha Andersen, 21, may do a lot of work when swimmers see this picture. She is a lifeguard and won the contest at Newark's Palisades Amusement Park.



MILITARY POLICEMAN OF THE MONTH—Capt. Shirley C. Jacobs, Assistant Provost Marshal, congratulates SP/4 Donald F. Miller for his being selected as the Military Policeman of the Month for August 2.

## Golfers Must Qualify By Friday to Play For Chrysler Cup

The golf group of the Redstone Arsenal Officers Wives Club met last Wednesday morning for a Points Tournament with 21 golfers participating.

Mrs. W. F. Kaiser placed first in the event with Mrs. C. J. Payne second, Mrs. H. H. Wishart, third, and Mrs. H. E. Fite, fourth. This week the group is playing for low gross, low net, and low putt.

The group will begin its Chrysler Cup Fall Tournament next week and all members of the Wives Club are invited to participate. In order to compete players must complete an 18-hole qualifying round by Friday, Sept. 25.

A news story is to the effect that new developments in the field of medical radiology will make the stethoscope obsolete. That is going to the tough on actors who play the part of doctors in plays. The good old stethoscope was one of the most reliable of props.

playoff games.

## END OF SEASON SALE!

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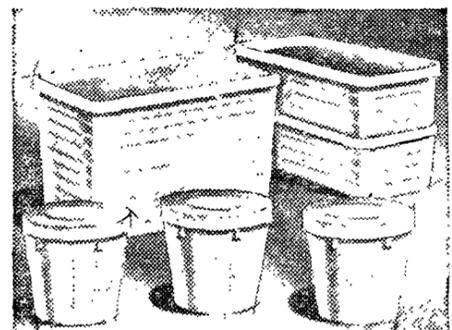
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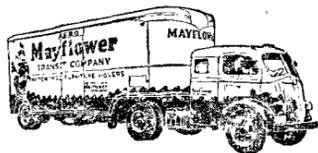
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# INCENTIVE AWARDS

The Incentive Awards Committee at Redstone Arsenal has announced the award of outstanding sustained superior performance and special acts or service awards to the following members of the Army Ordnance Missile Command and its Agencies.

Sustained superior performance awards went to:

Claude E. Stockton, Chief, Financial Mgmt Office, Financial Mgmt. Off, ARGMA; Gustavus N. Brown, Chief, Facilities Plng. Off, Facilities Plng. Off., ARGMA; Eddie F. Stone, Secretary, Operating Services Off, ARGMA; Edith Nance, Secretary, Res. & Dev. Div., ARGMA; Gustav Ingold, Chief, Supply Mgmt. Br., Field Svc. Div., ARGMA;

Anna A. Sartain, Clerk Typing, Industrial Div., ARGMA; Harry F. Vincent, Chief, Surface-to-Air Missile Br., Res. & Dev. Div., ARGMA; Doyle E. Carter, Digital Computer Programmer, Field Svc. Div., ARGMA; Horace M. Williams, Chief, Administrative Office, Comptroller, AOMC; Hazel G. Lansing, Publications Editor, Structures & Mechanics Lab, ABMA;

Virginia J. Hancock, Supv. Military Personnel Clerk, Adjutant General Office, AOMC; Henry T. Williams, Administrative Officer, Adjutant General Office, AOMC; Alvin Baggett, Employee Mgmt. Relations Spec., Civilian Personnel, RSA; Charles L. Barrineau, Director, Civilian Personnel, Civilian Personnel, RSA; Barbara M. King, Personnel Clerk, Civilian Personnel, RSA;

Mary L. Lockard, Position Classifier, Civilian Personnel, RSA; Mary B. Howard, Personnel Clerk, Civilian Personnel, RSA; C. A. Busbice, Personnel Mgmt. Assis-

ant, Civilian Personnel, RSA; Eugene J. Secreti, Reproduction Equipment Operator, Missile Firing Lab., ABMA; Max E. Mallernee, Accountant, Control Office, RSA; Garland G. Buckner, Supv. Purchasing Agent, Purchasing & Contracting, RSA;

Harmon Kelley, Engineering Draftsman, Depot Division, RSA; Glenn W. Test, Rocket and Guided Missile Motor Assembly Inspector, Inspection Div., RSA; Robbie J. Hagler, Purchasing Agent, Purchasing & Contracting, RSA; Robert H. Labbe, Security Program Officer, Provost Marshal Office, RSA; Rhoda B. High, Secretary, Asst. Chief of Staff, Research and Development, AOMC; Anna N. Brown, Secretary, Asst. Chief of Staff, Research and Development, AOMC.

A special act or service award went to James R. Johnson, incentive awards program specialist, Redstone Civilian Personnel office.

Outstanding performance ratings were presented to:

Gustav Ingold, Chief, Supply Mgmt. Branch, Field Service ARGMA; Anna A. Sartain, Clerk Typing, Industrial Division, ARGMA; Harry F. Vincent, Chief, Surface-to-Air Missile Br., Res. & Dev. Div., ARGMA; Henry T. Williams, Administrative Officer, Adjutant General Office, AOMC; Forest W. Horton, Jr., Administrative Officer, Operating Services Office, ABMA;

Werner von Braun, Director, Dev. Operations Div., ABMA; Hazel G. Lansing, Publications Editor, Structures & Mechanics Lab, ABMA; Theodore U. Hardeman, Supervisory Production Specialist, Control Office, ABMA; Friedrich Duerr, Supervisory Research

## Ground Is Broken For Nike-Hercules Site Near Shreveport

The Army Rocket and Guided Missile Agency participated Saturday in breaking ground for a new Nike-Hercules air defense facility near Shreveport, La.

Rep. Overton Brooks of Louisiana was a special guest at the ceremony.

ARGMA displayed a Hercules missile and launcher at the site, which is at Bellevue, 23 miles from Shreveport. Lt. William E. Meek, Hercules project officer in the ARGMA Control Office, presented a brief description of the weapon system.

The Hercules site will be constructed by the Army Corps of Engineers, represented at the ceremony by Brig. Gen. William Whipple, chief of the Southwestern Engineer Division, and Col. Arthur M. Jacoby, chief of the Little Rock District.

Others present included Capt. James W. Donald of ARGMA.

Engineer, Systems Support Equipment Lab., ABMA; Garland G. Buckner, Supervisory Purchasing Agent, Purchasing & Contracting Div., RSA; Robbie J. Hagler, Purchasing Agent, Purchasing & Contracting Div., RSA; Anna N. Brown, Secretary, AC/S Res. & Dev. Div., AOMC.

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## Movie Schedule

Wednesday, Sept. 23, "The Man Upstairs" starring Richard Attenborough and Banard Lee. Time 1315, 1815 and 2015.

Thursday and Friday, Sept. 24 and 25, "Hercules" starring Steve Reeves and Sylva Koscina. Time 1315, 1815 and 2015.

Saturday, Sept. 26, SPECIAL MATINEE, "Merry Andrew" starring Danny Kaye and Pier Angeli. Time 1000.

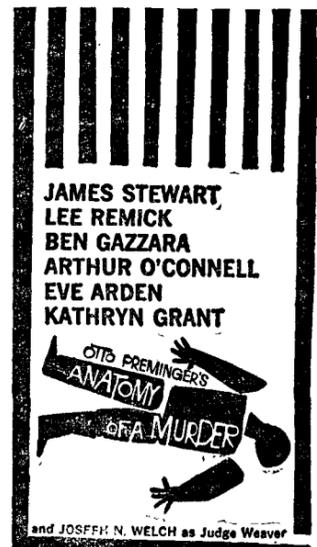
Saturday, Sept. 26, "Heaven Knows, Mr. Allison" starring Deborah Kerr and Robert Mitchum. Time 1815 and 2015.

Sunday and Monday, Sept. 27 and 28, "Sleeping Beauty." Time Sunday 1400, 1815 and 2015; time Monday 1815 and 2015. No Matinee Monday.

Tuesday, Sept. 29, "Web of Evidence," starring Van Johnson and Vera Miles. Time 1315, 1815 and 2015.

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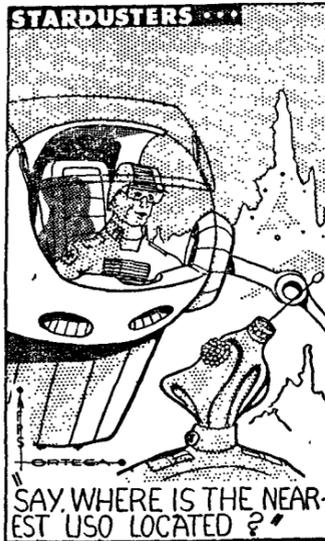
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### Safety Scoreboard

(As of 21 Sept.)

Days since last civilian disabling injury	16
Our goal	45
Days since last military disabling injury	6
Our goal	30
Days since last contractor personnel disabling injury	38
Our goal	50
Days since last government motor vehicle accident	0
Our goal	30

### DRIVING RECORD

(Government Vehicles)  
(As of 21 Sept.)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	13	3
Post Engineer Div. (RSA)	13	16
Provost Marshal Div. (RSA)	17	0
Depot Operations (RSA)	14	24
All Other RSA	6	55
Thiokol (ARGMA)	11	19
All Other ARGMA	7	20
OGMS	11	55
ABMA	7	29



SFC BEEM

### SFC. Beem Is Named Week's Safe Worker

The Safe Worker of the Week is SFC. Nathaniel Beem, Instructor of the Corporal Branch, SSM Division, OGMS.

Sgt. Beem was nominated by his supervisor and was selected by the Redstone Safety Division.

"Safety minded and efficient" are the words used by his supervisor to describe the safe worker. He not only teaches and practices safety on the job, he preaches and practices it on the streets and highways, the supervisor said.

SFC. Beem joined the Army in 1939 at Hamilton, N.Y., and served in the Pacific during World War II. He was at Pearl Harbor, Okinawa, Japan; Germany, France, and many other places.

Sgt. Beem and his wife reside at 4206 Cloverdale Drive, Huntsville. Golf, hunting, fishing and gardening are among Sgt. Beem's hobbies.



H. F. PITT

### Pitt Is Chosen Safe Supervisor of Week

Howard F. Pitt, supervisor in the Jupiter Crew Training Department of Chrysler Corporation Missile Division, has been selected as this week's Safe Supervisor.

The department has the responsibility for the integrated weapon system training of Air Force SAC Crews in the procedures and techniques of maintaining and operating tactical launch sites.

Continual close observation of safety is necessary as the handling of high pressure pneumatic and hydraulic lines, liquid nitro-

gen, liquid oxygen and high power is a daily routine on the training sites.

Mr. Pitt served in the Navy for five years as a radioman. He attended Pomona College in California majoring in mathematics and physics. He has been with Chrysler one year. However, he has been associated with Redstone Arsenal for four years doing field engineering. During his year with Chrysler, neither he nor his employees have had a lost time injury.

Mr. and Mrs. Pitt have a month-old daughter Maryn. Among Mr. Pitt's hobbies are golf, oil painting, hunting and fishing.

A dull person is one with too much polish.

### Hansotte Promoted To Lieut. Colonel

Promotion of Maj. Raymond Hansotte to lieutenant colonel was recently announced by Col. Charles W. Eifler, commandant of the Ordnance Guided Missile School.

Lt. Col. Hansotte, who entered the Army in February, 1941, is chief of the Guided Missile Branch in the School's Officer Training Division. Prior to his assignment here, he was Ordnance advisor at the Armored Force Command, Chinese Army, Taiwan.

Maj. and Mrs. Hansotte reside at 2704 Scenic Drive, S. E., Huntsville.

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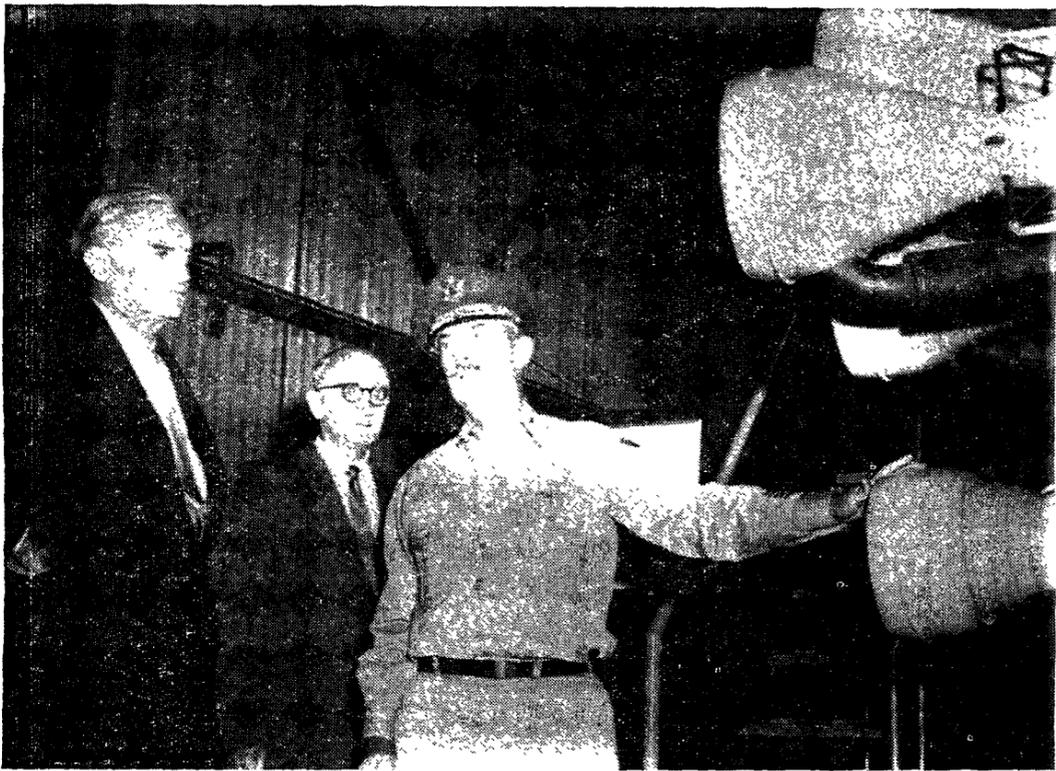
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SATURDAY



MAJ. GEN. J. B. MEDARIS, (right), commanding general of the Army Ordnance Missile Command, shows quarter-scale model of giant Saturn space vehicle to Sen. Stuart Symington (left) (D., Mo.) during the senator's visit to Redstone Arsenal last week. In center is Hans H. Maus, Director of the Fabrication Laboratory, Army Ballistic Missile Agency, AOMC.

**Sen. Symington Tours Facilities Of Missile Command**

Sen. Stuart Symington (D., Mo.) visited the Army Ordnance Missile Command last week for a tour of Redstone Arsenal facilities as the guest of Maj. Gen. J. B. Medaris, AOMC Commanding General.

The Senator heard briefings on Army missile and space programs. Sen. Symington addressed a

convention of the Alabama League of Municipalities during his visit in Huntsville.

At Redstone he was briefed on organization and management philosophy, Army missile programs, the current Saturn space vehicle program and future Saturn capabilities. Saturn is being developed for the Advanced Research Projects Agency.

Whisked from point to point on the Arsenal by helicopter in order to meet a full schedule, Sen. Symington later toured the Fabrication and Assembly Engineering Laboratory and the Test Laboratory of the Army Ballistic Missile Agency. ABMA is an element of the Missile Command.

At the Fabrication Lab, his tour was directed by the lab chief, Hans Maus. Here, Sen. Symington witnessed work in progress on fabrication of the giant Saturn booster.

Karl L. Heimburg, chief, described the operations of the Test Lab, and escorted him on an inspection of ABMA's huge 15-stories-tall static firing test stand.

**AF Awards Made To JUPLO Personnel**

Three awards were made recently to personnel in the Air Force Jupiter Liaison Office at the Army Ballistic Agency.

Capt. Summer W. White, Strategic Air Command Liaison office, was awarded the Air Force Commendation Medal by Col. John E. DeVine, chief, AFJUPLO. Capt. White has been assigned to JUPLO since March, 1958 as a project officer in the SAC Liaison office.

M-Sgt. William E. Brock was awarded the bronze clasp with five loops to the Good Conduct Medal. M-Sgt. Brock is the chief of the JUPLO flight section.

Mrs. Erlene L. Swanson was awarded two certificates from the

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**Bar Association Holds Election of Officers**

The Explorer Chapter of the Federal Bar Association held an election for 1959-60 officers at their Sept. 18 meeting.

Col. Morton S. Jaffe, Judge Advocate, U. S. Army Ordnance Missile Command, was named president; William C. Sayre, Chief, legal office, Army Rocket and Guided Missile Agency is executive vice president; Victor Billings, in the Legal Office of

Extension Course Institute of the Air University for completion of the administrative officer course.

AOMC, is the vice president-national delegate; Lawrence Garrison, procurement officer, AOMC, is secretary-treasurer; and P. Fearson, Shortridge, AOMC Legal Office, is the parliamentarian.

The Association has chapters in the principal cities of the United States. Explorer Chapter has jurisdiction in Northern Alabama. Membership is composed of attorneys who are or have been in the employ of the Federal government.

In the fall a young man's fancy turns to the thoughts of how to get a better job and support the girl his fancy turned to in the spring.



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## At the Service Club

**DRAMATICS:** If you were one of the unfortunate people who could not crowd in the Service Club Thursday night you will have another opportunity to see the production "A Crack In The Wall". Date will be announced soon.

The original musical comedy was quite frustrating for a chap named Joe who finds that his escapades into Dreamland increasingly consume much of reality. Joe pragmatically decides to visit a psychiatrist and secure a remedy for his Fever, but finds the beautiful Doctor to be very difficult at times. Throughout the exploration of Joe's dreams, we encounter many beautiful women and perplexing situations. Jeanne Tyson and Bob Morgan were the leading cast members.

The performance included singers Gail Godsey, Frank Carbaugh and Chick Jonick. Dancers were Ken Ford, Pat Morgan, Rena Huei, Judy Jonakin and Toby Varnie. Combo consisted of Wally Cwian, director; Charlie Lyle, John Duggan, Bill Pelegimi, Day Dreeman and Bill Harrison.

Delicious Pantomime was presented by Sarah Denney and Wally Cwian. Pianists for the performance were Bill Walker and Dave Hall.

Southern Belles were Sara Griggs and Jean Sheppard. Last but not least were the behind the scene technicians. Technical Lighting Advisor, King Harrison,

Chuck Adamec, and Randell Tuten. Directors Joe Rinsky and Stan Spiewak. Technical director Jim LaVersa, Pete Leahy, Wm. Jimbo and George Cialino, Bernie Pustik and Bob Statthem, Al Navaroli and Rockne Kock, Audio by Bob Davies. Set design was exquisitely done by Tom Stachowiak.

The Show Production Cast is to be congratulated highly for an excellent performance.

**MOVIES:** Thursday night the movie "Pacific Sails at Arms Length," a fishing film, will be presented in the TV room at the Service Club at 1830 hours. This film is rated excellent for fishing enthusiasts and it will possibly be of interest to other sportsmen too.

**TOURNAMENTS:** Wayne Dasey and Bob Clune were the winners of the bridge tournament Thursday night. A tournament is scheduled each month so plan now to participate in the next competitive play.

John Allo was the winner of the pool tournament last week. This makes the third consecutive time he has won the monthly tournament. We would like to encourage a few more champs to enter the next tournament. The date will be announced soon.

The chess and pinochle enthusiasts will complete in their monthly tournament Friday night at 1830 hours. If you have not already made reservations to play

## Technical Writers Hold First Meeting

The recently organized Huntsville chapter of the Society of Technical Writers and Editors held its first fall meeting at Clark Steadman's Restaurant last

Thursday evening.

President Al Jupiter of Army Rocket and Guided Missile Agency presided over a meeting which was devoted primarily to acquainting members, with functions of the various writing organizations of the major activities within the Redstone Arsenal complex. Speakers for the evening were Ira Remer, Army Ballistic Missile Agency; Ed Hart, ARGMA; Capt. P. C. Kouchoukos, Ordnance Guided Missile School; John D. Nilsson, Thiokol; and Billy White, Royer and Roger.

Thursday evening.

The local chapter, with membership composed of individuals representing most of the major industries and government agencies employing professional writers within the Huntsville area, has been organized to promote interest in the technical writing and graphic arts fields, and to provide programs which will be of mutual benefit and interest to individuals and organizations in these fields. Future programs will include distinguished guest speakers, workshops, and discussion panels to exchange ideas, and to present new developments and techniques.

in the tournament do so soon. **DANCES:** The 55th Army Band will play for the birthday dance on September 27 from 2000 til 22000 hours. The Birmingham and Huntsville Hostesses will be guests for the dance. For an evening of good entertainment combined with the finest dance music in Huntsville we think Charlie Lyle and his orchestra are hard to beat. Incidentally did you hear the fabulous trumpet solo at the Show Production Group's "A Crack in the Wall?" It was none other than Charlie Lyle himself. Sept. 29 is the date for the last dance of the month. Charlie will start his orchestra playing promptly at 2030 hours and will continue until 2400 hours.

**PREVIEW OF OCTOBER ACTIVITIES:** It's time to make hay while the Autumn moon shines by having a rip-roaring genuine hay ride. We'll bundle up our picnic coats and hats and depart on the wagons at 1700 hours on October 10. We'll corral all of our friends with hearty appetites around a cozy blaze at the picnic area at the post pool and roast weiners. Sign up for the evening of fun and relaxation soon.

**TOUR:** Plans are about completed for the trip to the Smoky Mountain National Park on October 3 and 4. The bus will depart from the Service Club at 0800 hours and return 2200 hours on Sunday. Arrangements have been made for Park Naturalist Russell to meet the group at Park Headquarters Building for a guided tour of the Great Smoky Mountain National Park. We will visit Gatlinburg, Tenn, and Cherokee Indian Reservation in North Carolina. Make reservations soon for the tour.

**DANCE:** "The Fireman's Ball" is scheduled for Oct. 8. Oct. 4 through 10 is Fireman's Week and we will recognize the celebration with a "Ball" in the Service Club. **FRANCES**

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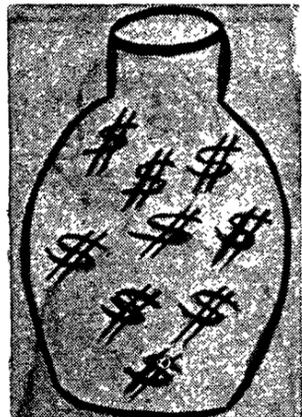
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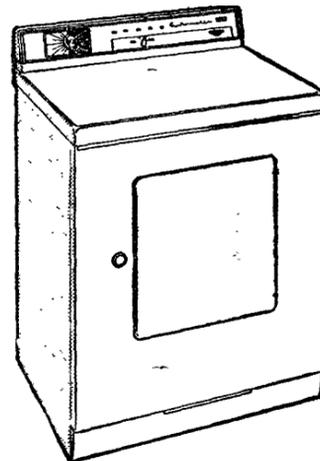
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PHO. JE 4-1191

### Service Academies Adjust Courses to Meet Modern Needs

Washington (AFPS) — The problem of keeping service academies apace with the complexities of modern weaponry and the world-wide battle of ideas is receiving close study by military educators.

Each of the three major academies is undergoing academic revolutions designed to give future career officers an education strong in science and the humanities.

The Air Force Academy splits its curriculum evenly between science and humanities in an attempt to give "education, not training." Cadets rarely sit in a cockpit during their four years.

The Army is in the midst of a wide-ranging study of its curriculum. Last year, the Military Academy queried 13,000 graduates on what changes they thought should be made. It then called on

a panel of consultants to suggest revisions.

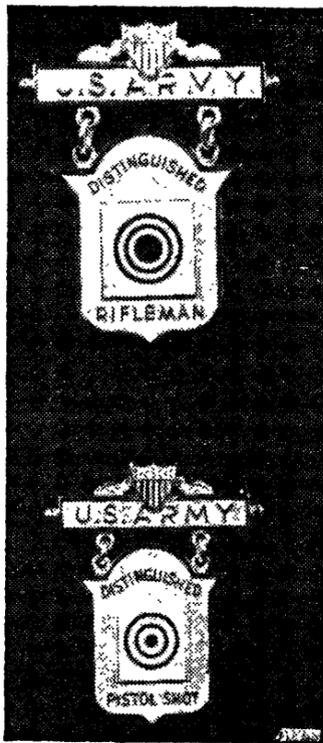
The educators proposed some elective courses, more humanities, and more specialization in the upper classes. Locating space in the curriculum is a problem, the head of the panel observed, but he estimated changes will go on gradually for the next five years.

This fall, West Point will shorten classes in vocational subjects, such as map reading and graphics, to lengthen classes in social sciences. Advanced science courses will be emphasized for outstanding plebes.

The Naval Academy is the latest to revamp its curriculum. In late August, the Navy announced a sweeping change in its approach — the most extensive since 1850.

Returning middies find no more "hardware" courses such as "Naval Boilers" and "Ship Stability". Instead they will study mathematics of moving bodies under conditions of gravity and aerodynamic forces, or developments in weapons control and target interception systems.

Object of the new approach is to offer studies of a more fundamental nature "which will not soon go out of date." There is also a new emphasis on language and social science studies.



### Army Changes Marking On Top Marksman Award

Camp Perry, Ohio (AFPS) — The Army has adopted a new design for the nation's highest award to rifle and pistol marksmen.

The new designs for the Distinguished Marksmanship badges now carry a bar with the words "U.S. Army." Former designs which carried the legend "U.S." in the top bar will be presented to civilian marksmen.

Army Chief of Staff, Gen. Lyman L. Lemnitzer, made the first formal presentation of the medals for rifle and pistol marksmanship here.

To win either distinguished badge, a competitor must place in the top 10 per cent of firers in high-level service matches, or the National Trophy Matches, on three different occasions.

Since the rifle badge was first awarded in 1884, 1,452 Army personnel have won the distinguished badge. As of June 1953, 333 soldiers have won the pistol badge and only 165 have won both badges.

### Sergeant's Widow Surprises Clerks

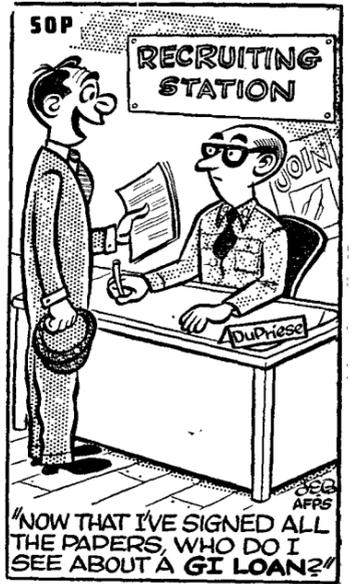
Ft. Lewis, Wash. (AFPS) — She wanted a dependent's Medicare card and the clerks in the ID card section were glad to oblige, but they blinked when Mrs. Bettina I. Crean began to fill out the application.

The widow of deceased Army Sgt. Arthur B. Crean, listing her husband's serial number, simply wrote: R-1. This in a day when most service numbers run to eight digits.

How come? Mrs. Crean explained that the sergeant had worked in the office of General of the Armies John J. Pershing during WWI when the system of consecutive service numbers was set up.

"Black Jack" Pershing, initiating the system that was to span 40 years, three wars and 60 million serial numbers, took 0-1 for himself and gave Sgt. Crean R-1, the first number for enlisted men.

Irishman—The bullet went in me chest and came out me back. Friends — But, it could have



gone through your heart and killed you.

Irishman—Me heart was in my mouth at the time.

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20 acre school site just across the street recently purchased by the City of Huntsville.  
Go North on Jordan Lane to Oakwood Road. Sign on left. Call our model home JE 9-3321 or JE 6-8980.

VETERANS MOVE WITHIN 10 DAYS  
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**FOR SALE!**  
LOTS

From 1 to 10 acres. Go out Highway 72 about 8 miles to Rock Clift, turn right, follow road and look for sign on property.

**OFF WALKER LANE**  
Nice placement for trailer. 1 lot, 110'x300' with well, 600 gal. septic tank installed, pump and field tile on property to install, \$1500. down payment \$700., balance in monthly payments.

**PARKWAY NORTH**  
Nice 3 bedroom house, end of Parkway at Four Lane & Meridian N., immediate possession.  
804 McCULLOUGH AVE.  
One 10 room house, including 3 apartments. Nice income from rent.

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### Tank Demonstration Is Held Here Monday

A light-weight all-aluminum truck possessing the cross-country versatility of a tank yet can float and be parachuted from the air, designed and built for the U. S. Army by Chrysler corp. was demonstrated Sept. 21 before Army officials of the various Command at Redstone Arsenal.

The vehicle was developed under a contract administered by the Detroit Ordnance District, and in cooperation with Ordnance Tank Automotive Command.

The exceptional light weight of the truck permits the vehicle to float, yet carry a load of 5,000 pounds without potential travel delays caused by water barriers or bridge crossings. Engineers cite this as a desired military advantage since, under actual combat conditions, the truck can avoid bridges which are natural targets for enemy fire.

Eight independently sprung wheels, together with wide section low pressure tires, give the truck the cross-country versatility of a tank or track-laying carrier. Ground pressure under the tires, Chrysler Defense Operations' engineers report, is lower than that of tanks and many track-laying vehicles, yet maintenance costs are substantially lower and the vehicle can operate at high speeds, an advantage not shared by track-laying carriers.

#### CAN CARRY MORE

Advanced design and unitized construction integrating body and chassis makes it possible for the truck to carry a greater payload in proportion to its overall weight than is the case with other ground vehicles. On cross-country operations the truck can carry two-thirds of its own weight in men and weapons as against one-third to one-half in the case of vehicles currently used.

This aluminum truck is one of

a family of three prototype vehicles being developed by Chrysler Corporation for the Army which will use identical components for 4-wheel, 6-wheel, and 8-wheel drive units. All three vehicles have been designed so as to use existing production facilities for Chrysler 361-cubic inch, 8-cylinder engines, transmissions, drive lines, and axles. This adaptation will reduce by many millions of dollars the cost which would otherwise confront the Government for such facilities and tooling. Moreover, the manufacture of the new vehicle can be readily adapted to commercial techniques and processes. Chrysler engineers declare.

Also high on the list of military benefits is the unusual interchangeability of parts and components which will effect a sizeable reduction in the number of spare parts required for servicing the truck in the field. Chrysler officials say that spare parts items can be reduced by as much as one-third from the number of spare parts presently required in the Army's world-wide supply system for servicing comparable vehicles.

#### REDUCES COST

Among the many features incorporated into the truck for reducing maintenance costs in the protection of engine, transmission, brakes, drive lines and axles within the hull-type unitized construction. The protection thus provided against dirt, mud and water will prolong the life of these components immeasurably.

The new truck is about 2½ feet shorter than comparable Army trucks and weighs some 5,000 pounds less. The truck's com-

pastness and lightness in weight make it readily transportable by air so that it can flow to distant strategic area if necessary.

Upon arrival at its destination, the eight independently sprung wheels of the vehicle will enable it to roll over terrain undaunted by inland water barriers such as lakes and streams or the vulnerability of bridge crossings.

These advantages, Chrysler engineers point out, will become even more significant during military campaigns in the future when mattle lines may be 150 miles in depth rather than five or six as was frequently the case during World War II.

### Births at Post Hospital

Tress Edwin Chapin, 7 lbs. 4 ozs., Sept. 6, son of Pfc. and Mrs. Edwin C. Chapin.  
 Sandra Lee Carleton, 8 lbs., 2 ozs., Sept. 7, daughter of M-Sgt. and Mrs. Jay L. Carleton.  
 Jane Marie Bartlett, 7 lbs. 11¾ ozs., Sept. 8, daughter of SFC. and Mrs. Thomas J. Bartlett.  
 Mary Lynne Wright, 7 lbs. 9¾ ozs., Sept. 8, daughter of Sgt. 1-C and Mrs. Kermit P. Wright.  
 Sheila Diane Swinford 6 lbs. 10¼ ozs., Sept. 12, daughter of A. 3-C and Mrs. Floyd N. Swinford.  
 Lynda Marie Peperak, 8 lbs. 5½ ozs., Sept. 12, daughter of SP5 and Mrs. Andrew A. Peperak.

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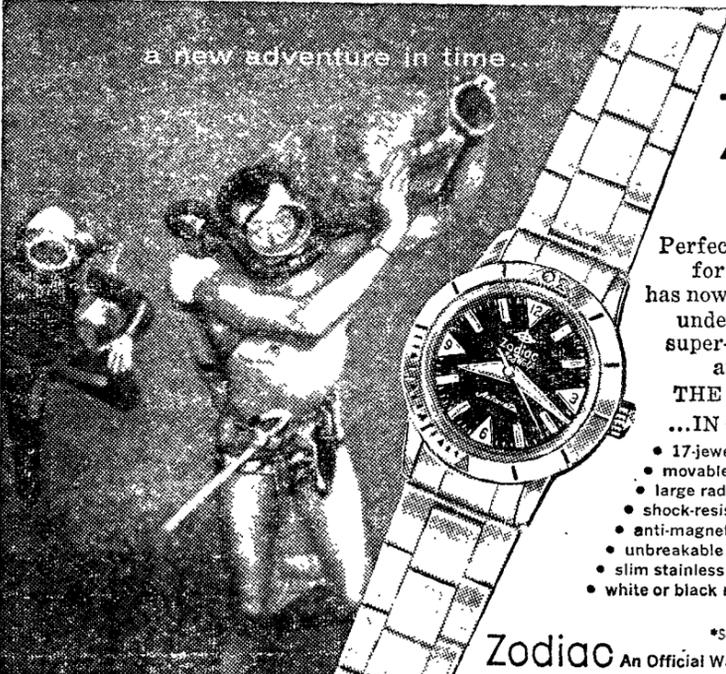
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**HAVE YOU SEEN** the new N. S. U. PRINZ? The newest thing in Foreign Cars! It is only \$1395.00. See it today at Texas Auto Sales, 1013 Meridian St., Phone JE 6-6121. 1tc

**WANTED:** Two passengers, preferably a married couple, to share expenses and drive new car to West Coast about October 15. JE 2-5290, 6:00 p.m. to 9:00 p.m. 1tp

**FOR SALE —** 1954 2-tone Plymouth hardtop, radio, heater, power steering, \$400. Phone JE 2-2708. 1tp

**FOR RENT —** Immediate possession, nice 4-room and bath furnished apartment, private entrance, close to downtown Huntsville business district; also 1 bedroom air conditioned trailer. Apply City Trailer Park. 1tp

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**"THE LARK" —** For '60 we don't expect a change except PRICE close-out on all '59 models, 3 station wagons, V-8, 4 doors and 4 door 6. Call for demonstration. LEWIS ROBINSON, JE 2-3852. After 6 p.m., JE 2-3339. 1tc

**FOR SALE OR TRADE —** Real clean 1957 Volkswagen, new paint, two new recaps. Would consider real clean '53 thru '55 Plymouth, Ford, or Chevy. Have new Volkswagen coming. Practically new 16 gauge Model 12 Winchester pump shotgun, \$85. Call JE 4-1732. 1tp

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**FOR SALE —** 1959 Volkswagen, dark blue, with Sun Roof and leatherette interior. Excellent condition. Less than 10,000 miles. Also DeJur Tape Recorder. Phone JE 4-6712. 1tp

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**GUNTERVILLE LAKE —** Two new waterfront subdivisions. Beautiful lots 3 miles north of Guntersville, ¼ down, balance three years. See Ed Neely, Real Estate, Phone JU 2-3914 or JU 2-3230. 9-30c

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**FOR SALE** in Fleming Meadows Chadwell Rd., 3 bedroom brick veneer, dining room, 1½ ceramic tile baths, large kitchen, attached garage, patio, antenna, venetian blinds, other extras, quick possession, purchase equity, payments \$100 month; kitchen appliances, air conditioners, carpeting, automatic washer, also for sale. Phone Redstone ext. 6209 or JE 4-1197. 1tc

**FOR RENT—**6-room house, large basement, bathroom, hot-cold water, outbuildings, one acre of land. One mile southwest of Somerville east of Decatur. Call EL 3-4218. 1tc

**FARM FOR SALE—** 60 acre farm only \$3,000. Between Lacey's Spring and Valhermoso on Highway 36. Twenty minutes drive to arsenal. A steal. See O. D. ATKINSON or J. M. CHUNN at Valhermoso, Ala. 1tp

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**FOR RENT —** Two bedroom brick home with patio, 1 bath, den, living room, kitchen and eating area located in 'Holiday Homes,' 3531 Flamingo Road, S. W. Phone JE 4-6712. 1tp

**FOR SALE —** 1953 Studebaker Champion Sports Coupe \$395; 1956 Cadillac 4-Door Sedan \$2295; 1957 MGA Roadster \$1600. Call THOMAS, Ext. 6160 or JE 6-9353 evenings. 9-23-p

**ROOMS FOR RENT—**Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-6452. 1tc

**FOR SALE —** 1956 Star 45x8, 2-bedroom trailer. Newly painted. Approximately \$450.00 down. See at ALCO Trailer Sales or call JE 6-7267. 1tp

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**FOR SALE —** 1950 Olds 98 Holiday Hardtop, radio, heater, power windows, and seats, good condition, \$150.00. Call Redstone ext. 2015 or JE 6-7922. 1tc

**FOR SALE —** If interested in Mobile Home Call JE 4-1060 or JE 6-8030 before you buy: 1959, 10x45 Elcar, automatic washer, carpeted floor. Priced below wholesale. 1tp

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**BOAT FOR SALE—** 16' Magnolia fiberglass, Taylor Top, Scott 40 electric start, Holtzclow trailer, cover, extras. Phone Arsenal extension 2340 (duty hours) or 8843. 1tp

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**FOR SALE OR RENT —** See it now! Trailer living at its very best in lovely Madison Meadows. Available now choice corner lot 150x150. School bus, city utilities, safe place with plenty of space for the kids to play. Call JE 6-3172. 1tp

**FOR SALE** in Guntersville city limits on the lake. 6 room, 3-bedroom home with large play room, air conditioned, 180x360' lot. Fully landscaped, patio in rear, house 3 years old, for sale by original owner. Will be sold below FHA appraisal. May be seen by appointment by calling Redstone ext. 4816 or Guntersville JU 2-4651. 1tc

**FOR SALE —** New Oldsmobile 98 sedan. Save \$\$\$ on this beautiful car. For details call Mr. Vann, Redstone ext. 4053 or 2856. 1tc

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## GEN. TRUDEAU SAYS 'MEN, NOT MACHINES, WIN OR LOSE BATTLES'

Lt. Gen. Arthur G. Trudeau, Chief of Army Research and Development, told more than 200 scientists at an Army science meeting at Redstone Arsenal, that man is and will remain the most essential element in a war.

Gen. Trudeau was the keynote speaker at the Fifth Annual Engineering Factors conference being held here Sept. 21-24. The conference is sponsored by the office of the Chief of Research and Development. Gen. Medaris welcomed the conferees.

"Men, not machines, win or lose battles," he said.

"This will be the case until we have weapons that reach logically sound conclusions, withstand adversity, and match hardship and danger, devotion and courage to carry on to a final victory.

"There certainly are no such weapons on the horizon now."

If weapons cannot be made compatible with the human capabilities and limitations of the soldiers who must use them, the general said, then the weapons should be discarded or redesigned.

"It is better to reject a weapons system now because of operator failure than to find it rendered useless on the field of battle, perhaps exposing our forces to needless losses," he said.

General Trudeau outlined several broad areas in which he said there is urgent need for human engineering research.

New techniques need to be developed for selecting individuals best suited for assignment to complicated weapons and for giving them technical training quickly and efficiently, he said. Beyond this, means must be found for increasing the independence and autonomy of the soldier in the application of his skills and knowledge on the battlefield of the future, the general said. Also needed, he said, are methods of accurately predicting individual behavior under conditions of stress and methods of preparing soldiers, emotionally and physically, for the atom battlefield environment.

General Trudeau gave a word picture of what battlefields of the future probably will look like.

Range and destructiveness of atomic weapons, he said, will make it necessary to disperse forces on a wide scale and in small, mobile units.

Maurice A. La Rue, Jr., chief of Human Factors Engineering for the Martin Co., Orlando, Fla., said that without early recognition of human factors, engineers run the risk of sending to the field equipment which might have to be abandoned because of so-called "man-machine incompatibility."

The Martin Co., makes a series of missiles for the Armed forces including the Army's Lacrosse, and the Army's Pershing ballistic Missile.

Other Missile experts described techniques they used for figuring in human factors early in development of the Hawk antiaircraft missile and in development of Redeye, a bazooka-type anti-aircraft missile designed for use by one man.

Lawrence Pitman of the Raytheon Corp. said Hawk engineers compared the missile system to the ability of crews to use it at three points in its development. First, he said, Hawk was checked for man-machine compatibility when still in the blueprint stage. A second series of human factors checks was made with the first "breadboard" model—a working model laid out on a large board, its components not yet packaged. More human factor tests were run with the full-scale engineering model of the missile.

At each stage, human engineering dictated modification in design, relatively easy to make at the time. But they would have been costly if the need had not been detected before later development, Pitman said.

Dr. R. E. Ralph Dusek of the Army Quartermaster Corps talked about studies on the effects of cooling and rewarming the hands on manual performance and dexterity. He stated that despite low

body temperature, if the hands are warm, dexterity is maintained.

Cold weather protective clothing is only one aspect of Army Quartermasters Corps Research efforts, Dr. Dusek said. Extensive studies on face masks, and face creams which will protect soldiers from the heat generated by an atomic explosion are also being conducted. In another presentation, Dr. Earl Davy of the Army Chemical Corps said researchers

in his laboratory at the Army Chemical Center, Md., are trying to find out precisely how the new "psycho gasses" affect humans.

"We are especially interested in the effects these agents have on command and decision functions and on communications among persons," he said.

"The 'psycho gasses' do not kill but they cause temporary incapacitation. Persons exposed to them take on bizarre behavior patterns and are unable to carry out their missions."

Two members of the staff at the Army Medical Research Laboratory, Ft. Knox, Ky., will

deliver papers today and tomorrow.

Capt. John L. Fletcher, an Army psychologist will speak of experiments which show fighting men can be protected from being deafened by gunfire by taking advantage of a natural protective mechanism in the middle ear.

The experiments show the protective mechanism can be activated by a harmless noise sounded a split-second before a gun goes off. The finding suggests the possibility that shells or guns or both might be designed to produce automatically a protective noise just before firing to give the

operator built-in hearing protection.

Scheduled tomorrow is Capt. William B. Ross who will tell of the experiments in pre-conditioned restraint with the monkeys used by the Army in space investigations.

D. I. Graham, Human Factors Engineer in the Research and Development Division of the Army Rocket and Guided Missile Agency, and Dr. Marvin Schneider, research psychologist at Aberdeen Proving Ground, described how missile engineers work with the design engineers to develop man-machine compatibility.



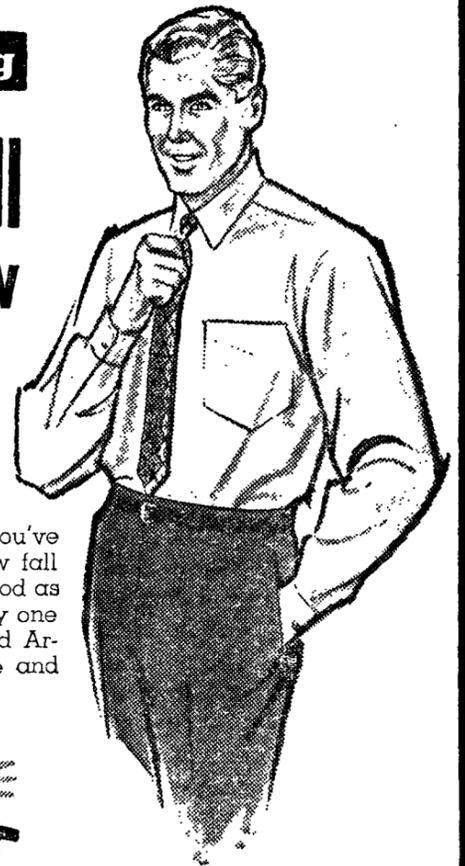
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