

Arsenal-Wide

Spot News

Dial 112

The Redstone Rocket

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VOL. XIII; NO. 16

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

AUGUST 26, 1964



HONORED FOR SCIENTIFIC ACHIEVEMENT—This four man team from the U. S. Army Missile Command was among the 23 Army engineering and scientific personnel to be awarded the 1964 Army Research and Development Achievements Awards. From the left are William B. McKnight, Ralph W. Hawkins, James R. Dearman and William F. Otto, all from the Electromagnetics Laboratory of the Directorate of Research and Development.

TEAM CITED

A four man team of U. S. Army civilian missilemen was among 23 individual Army engineers and scientists selected for the 1964 Army Research and Development Achievements Awards.

William B. McKnight, William F. Otto, James R. Dearman and Ralph W. Hawkins were presented the group citation for the concept, research, design and development of a multiple unit Laser array activated by a unique storage system.

Gen. Zierdt Presents Award

The awards were presented to them by Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command in the name of Lt. Gen. William W. Dick, Jr., Army Chief of R&D. The ceremony was attended by top military and civilian leaders at the Army's missile and rocket center and by the wives of the winners. The four are in the Electromagnetics Laboratory of the Directorate of Research and Development.

Apply In Other Areas

The system they developed is the first to have been operated. Techniques developed by them have application in other areas of Laser research.

In May of this year the group of Laser experts was also awarded the Missile Command's Scientific and Engineering Achievement Award.

Second For McKnight

This is the second time McKnight has received the Army's Achievement Award, having won (See TEAM on Page 3)

Fallout Shelter Manager Course Scheduled Today

A fallout shelter manager course began at 8:30 this morning in the Rocket Auditorium under the joint sponsorship of the Huntsville-Madison County Civil Defense Office and the Army Missile Support Command according to an announcement by Col. Thomas W. Cooke, Commander of AMSC.

A second session is scheduled for 1 p.m. today.

Harris Mitchell, Huntsville-Madison County CD Director, worked with the Support Command's Assistant for Operations and Security to bring two courses—shelter management and radiological monitoring—to key military and civilian personnel of the Army Missile Command, the Ordnance Guided Missile School and Marshall Space Flight Center.

Lecturers and instructors will be officials from the State of Alabama Office of Civil Defense.

The radiological monitoring course will be held in September (See FALLOUT on Page 3)

Employees To Get U Of A Envelopes

The expansion program for the University of Alabama Huntsville Campus is being reemphasized on Redstone Arsenal this week.

Army Officials are taking steps to assure that both civilian and military personnel are fully acquainted with the objectives of the current fund raising campaign and that all personnel have the opportunity to contribute.

Beginning with the distribution of civilian paychecks and records tomorrow, continuing with military pay Aug. 31, and ending with civilian pay on September 3, all personnel will receive information material concerning this campaign.

This packet will include:

A prepaid envelope addressed to the University which may be used for mailing contributions or pledges;

A fact sheet outlining the benefits of the Huntsville Campus to all personnel;

And a letter supporting the campaign signed by Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command.

A University of Alabama fund raising campaign will not be conducted on the Arsenal with periodic reports such as is done for the annual United Givers Fund campaign and the National Health

drives but all personnel are being asked to consider the benefits which will result from an expansion of the Huntsville Campus.

In his letter to all military and civilian personnel, Gen. Zierdt said:

"The University of Alabama Campus is engaged in a major expansion to meet the growing de-

(See U OF A on Page 3)

Redstone Benefit Association Opens Enrollment Period

An open period will be held during October for enrollment in the Group Life Insurance Program for civilian employees of the Army Missile Command. The program is sponsored by the Redstone Benefit Association.

RBA President Jarmon C. McKinney, Jr., Assistant for Technical Missions, Missile Support Command, said that employees not previously enrolled may do so during the open period without the normally required physical examination. This waiver of examination (See BENEFIT on Page 10)

Cerebral Palsy Fundathon Receives Arsenal Support

Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command kicked-off Redstone Arsenal participation in a Fundathon supporting the United Cerebral Palsy Association of Huntsville and the Tennessee Valley.

His pledge was to Sgt. 1st Class John B. Bullock who is in the command's Directorate of Research and Development.

Accompanying Sgt. Bullock was his nine year old daughter, Gloria Kay, who is a victim of cerebral palsy and a recipient of training and assistance through the Unit-

ed CP Association. She attends the Special Education Class of Huntsville schools and has learned to read, play with peg boards and clay and to use a special electronic typewriter that permits her to write.

The Fundathon will actually start on Aug. 29 and will cover the counties of Madison, Marion, Limestone and Jackson. Funds will be used to set up local cerebral palsy clinics under the direction of a medical advisory board composed of local physicians.



A SMILE FOR THE GENERAL—Nine year old Gloria Kay Bullock shows a pretty smile as Maj. Gen. John G. Zierdt hands her a model of an Army missile. Kay is the daughter of Sgt. First Class and Mrs. John B. Bullock. She has been a victim of cerebral palsy since birth and her visit with the Commanding General of the Army Missile Command was made so he could give the first donation toward the Fundathon being sponsored by the United Cerebral Palsy Association of Huntsville and the Tennessee Valley. The drive starts Aug. 29. Sgt. Bullock is assigned to the Command's Directorate of Research and Development.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 345, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

Rocket Ruminations

A man does not plant a tree for himself, he plants it for posterity.
—Alexander Smith

Votes Supply Climax To Campaign Drama

One of the greatest dramas on earth is entering the final scenes. The players are performing with great intensity, building toward the big climax.

The drama, of course, is the 1964 presidential campaign, and the big climax is Election Day, Nov. 3. The players are the candidates, the campaign managers and all the people it takes to get the production on stage.

But this is one production in which, ultimately, the audience plays a greater role than any of the principals. Without them and their vote, the drama would have no big climax.

As servicemen, we are an important part of the audience—the American people. We are the first to be affected by the course of national defense policy. We can reasonably be expected to scrutinize the ideas of the candidates on this great issue more carefully than the average citizen.

And we should never delude ourselves that, because we wear uniforms, we should remain aloof from the contest. The uniform doesn't amount to a reason **not** to vote; it amounts to a **duty** to vote!

Your branch of the Armed Forces wants you to vote! It urges you to apply for an absentee ballot. It appoints a voting officer to give you assistance in obtaining it.

Your home state wants you to vote! It provides all the necessary ballots and voting information.

And above all, the candidates want you to vote! After all, one of them will be your Commander-In-Chief as a result of the election. Your interests and your mission will be among his greatest concerns.

So why not join the cast? Send for your absentee ballot today and make sure your name is listed in the credits when the final curtain comes down. (AFPS)



STUDIES MANAGEMENT—Max D. West of the Future Missile Systems Division, attended Georgia Tech's month-long executive program in Engineering Management. West is shown discussing a point with Professor George E. Maddox, Academic Administrator of the course.

Disruption Anticipated In Rodents' Home Life

The moles and woodchucks on Redstone Arsenal will soon have more intrusions on their privacy. The Army Missile Command has ordered \$667,876 worth of underground telephone cables from a Birmingham firm, one of the purchases among the many placed during July with firms throughout the nation.

The total of all awards, large or small, was more than \$5 million. A healthy share of the amount, \$2,313,897, was spent in the Southeast. Tennessee and Georgia firms received \$855,136 to top the list

with Birmingham second at \$710,950. Huntsville business concerns got more than \$220,000. Other Alabama cities shared approximately \$530,000.

Contracts for seasonal painting, renovation of roads and buildings and some new construction accounted for many of the larger awards.

The contracts for a million dollars or more that cover procurement of missiles and supporting equipment are not included in these orders.

The \$2.7 million spent outside

the Southeast went to firms in Arizona, Pennsylvania, New York, North Carolina, California, Illinois, Florida, Connecticut, Indiana, New Jersey, Massachusetts, Texas and Ohio, and several orders were awarded to Canadian companies.

The people whose daily business is the negotiation, execution and administration of these purchases work in the Army Missile Support Command Purchasing and Contracting Division and in the Army Missile Command and Production Directorate.

The American-Korean Foundation helps provide Korea's orphans with shelter, food, clothing, training for the future. Give to the American-Korean Foundation through your Federal Service Joint Crusade.

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REAL ESTATE

U OF A

(Continued From Page 1)

mands for higher education in this area.

"The recent establishment of the full four-year College of Arts and Sciences, enables Redstone Arsenal military, civilian, and dependent personnel to pursue bachelors and masters degrees at minimum cost with maximum convenience.

"Courses are now available for credit toward doctorate degrees and it is anticipated that opportunities will soon exist for the awarding of the Ph.D. degree in residence at Huntsville.

"The vital importance of the University of Alabama Huntsville Campus is evident from any official, civic, family or personal viewpoint. It merits this official endorsement and our personal support.

"Information is being distributed concerning our need for the University of Alabama Huntsville Campus and how we may participate in this program. Please give careful attention to this information and judge for yourself the importance of your contribution toward the construction of campus facilities for us today and those

who follow tomorrow.

"The University needs \$300,000 now to complete its \$1,250,000 minimum requirement for expansion this year.

"Speaking for the Army Missile Command, the Commandant of the Ordnance Guided Missile School and the Nike-X Project Manager, I urge you to consider making an effective, personal contribution directly to the University of Alabama Huntsville Campus. Certainly all will share in the benefits to be derived from living in a University community; all will have the opportunity to profit in a very real sense from the growth of this laudable enterprise."

TEAM

(Continued From Page 1)

it in 1961, the first year that the award was given. He is Chief of the Applied Physics Branch. A graduate of Purdue University, he has been at Redstone since 1953, and is now primarily engaged in the exploration of optical and microwave masers for military purposes.

Vanderbilt Graduate

Dearman is a 1950 graduate of Vanderbilt University. He has been with the Army at Redstone since 1961 working in the design and development of infrared instruments used to guide missiles.

Otto attended Ohio State University and holds the equivalent of a bachelor's degree in electrical engineering from the University of Alabama. He is a servo and control project engineer with the Electromagnetics.

New Orleans Native

Hawkins is an electronic engineer in the Electromagnetics Lab, having come to the Missile Command in 1962. He is a native of New Orleans and a graduate in Electrical Engineering from the University of Alabama.

The Army R&D Achievement Award was established in 1961 by Lt. Gen. Arthur G. Trudeau, Chief of Research and Development at that time, to give "recognition of technical achievements of scientists and engineers by accepted leaders in their field."

Any scientist or engineer of the Department of the Army is eligible. Technicians or subprofessional personnel may also be nominated for the awards. Criteria required that a recipient of the award be directly responsible for a significant scientific or engineering achievement that:

Establishes a scientific basis for subsequent technical improvements of military importance; and/or

Materially improves the Army's technical capability; and/or

Contributes materially to national welfare.

Sergeant System To Be Used In Navy Experiment

The Army's Sergeant missile system will test-fly for the Navy an experimental model of a simplified inertial guidance system, (SIGS).

The flight test, which calls for the SIGS to be carried "piggy-back" aboard the Sergeant, will be conducted during one of a series of scheduled Sergeant product improvement evaluation program tests which will be conducted by the Army.

A \$356,000 contract has been awarded to Sperry Utah Co., Sergeant Prime Contractor, by Applied Physics Laboratory of the Johns Hopkins University for testing of the experimental model which is under consideration for the Navy's Landing Force Support Weapon.

Sperry will perform the necessary modifications on the Sergeant missile and will conduct the tests which are scheduled to begin in early 1965.

The Sergeant system is managed by the Army Missile Command under Col. J. Mort Loomis, Jr., Project Manager.

The 60,000,000 dozen eggs purchased annually by the Defense Subsistence Supply Center, Chicago, Ill., for the Armed Forces would supply one egg per day to every resident of Washington, D. C., for nearly three years.



DISCUSS END-OF-SUMMER SERIES—Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, talks over the progress of the Annual Summer Lecture Series in Aerospace Science and Engineering with Dr. Reginald I. Vachon, Director, (right) and John S. Hinkle. Dr. Vachon is a Professor in Mechanical Engineering at Auburn University, and Hinkle is Chief of the Training and Development Division, Civilian Personnel Office of the Missile Support Command. Gen. Zierdt will make closing remarks at the Series' final lecture on Aug. 28. The series is sponsored for summer employees at Redstone Arsenal by the Missile Command and Marshall Space Flight Center.

FALLOUT

(Continued From Page 1)

as part of a continuing effort by Federal, State and local officials to inform the public on the Civil Defense program as an essential to security of the Nation through

survival of communities.

The radiological monitoring course is scheduled in September and is a part of the continuing Civil Defense program to inform communities on methods of survival—a primary objective of Civil Defense.

Both courses are a part of the

Civil Defense education program designed to protect the people of the nation if a nuclear weapon should shower radioactive fallout on a community.

Survival of individuals could depend on personnel trained in the various aspects of fallout shelter operation.

Thiokol-Martin Team Use Motor In Re-entry Tests

A Thiokol solid propellant rocket motor of unusual design and performance was successfully static fired recently at Martin Company's Orlando (Florida) Division. The motor was used to create on the ground the velocities and aerodynamic heating that would be experienced by rocket or missile components during re-entry into the earth's atmosphere.

The motor, designed jointly by Martin and Thiokol and produced by Thiokol Chemical Corporation's Huntsville Division, expels an extremely hot exhaust at an exceptionally high velocity. Rocket or missile components placed in the exhaust stream can be subjected to the same conditions they would experience during actual re-entry, without the time and expense involved in actual flight tests. This method is also an improvement over previous means employed to simulate re-entry conditions.

The motor incorporates a number of unusual innovations and advancements in the state-of-the-art. It is the largest solid propellant motor designed and tested to operate at pressures between 3500 and 6000 psi. It has a wide degree of built-in flexibility which permits variations in burning time, chamber pressure, propellant composition, and total propellant weight.

The motor contains more than 2500 pounds of propellant and has an operating time of approximately 10 seconds. The motor case is fabricated from 0.8" maraging steel, heat treated to a stress of 250,000 psi.

Of particular significance, the motor can be re-fired numerous times. After each test, a new propellant grain is simply inserted into the motor case, the nozzle re-attached, and the motor is ready for re-use—a distinct economical advantage.

The Thiokol motor will be used by Martin at its new Flame (Facility Laboratory for Ablative Material Evaluation) Test Site at Orlando, Florida.

June 16, 1775—Finance Corps established as a result of a resolution by the Continental Congress "that there be one Paymaster General for the Army."

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or grade 4 and up. (Chapel Nur-
series open during the Service).

JEWISH SERVICES

CONSERVATIVE JEWISH Ser-
vices are held each Friday at
2000 hrs, and each Saturday at
1000 hrs, at 2333 Poincianna
Street, SW, Huntsville, behind the
Scottish Rite Temple, which is lo-
cated at 314 Bob Wallace Avenue,
SW, Huntsville.

REFORM JEWISH Services are
held at Temple B'Nai Sholom each
Friday, at 2000 hrs, at the corner
of Lincoln & Clinton Streets, SE,
Huntsville.

For further information con-
 cerning Jewish Services — con-
 tact Rabbi Stein, 534-4771.

CHRISTIAN SCIENCE SERVICES
Sunday - 1100 hrs

Wednesday Services are held at
 2000 hrs, at S. White & Weels
 Avenue, Huntsville. For further
 information or transportation, call
 Christian Science Armed Services
 Minister, collect 776-2791.

GREEK ORTHODOX SERVICES
SATURDAY — Worship Ser-
vices are held on the second Sat-
urday of the month at the Post
Chapel, Bldg. 3714, between 0930-
1030 hrs.

MONDAY — Choir Practice —
1930 hrs, Post Chapel, Bldg. 3714.

For further information con-
 cerning Greek Orthodox Services,
 contact Mr. Jacovides, 876-5272.

GREEK ORTHODOX LENTEN
SERVICES. Special Lenten Ser-
vices will be conducted Friday, 10
April, at 1930 hrs., at the Post
Chapel, Bldg. 3714. The Akathist
Hymn will be sung. The regular
Liturgy and Communion Service
will be held Saturday, 11 April, at
0930 hrs., at the Post Chapel.

CATHOLIC

SUNDAY — Masses — 0730,
0845, 1230 & 1700 hrs. (Chapel
Nursery open during Masses at
Post Chapel only).

TUESDAY — Catechism classes
from 1830-1950 hrs, in Chapel An-
nex, Bldg. 3151. Novena Services
—1930 hrs. Confessions — 2000
hrs. Choir Practice — 2000 hrs.

DAILY MASS — Tuesday thru
Saturday — 1100 hrs.

BAPTISMS — by appointment

**Sperry Awarded
 More Money For
 Sergeant System**

The Army awarded a \$2,216,720 contract to Sperry Utah Company for production of Sergeant Missile System components.

Sperry Utah Company, prime contractor for Sergeant which is a surface-to-surface, solid-fuel missile, earlier was awarded a letter contract for \$900,000.

The Army Missile Command's Procurement and Production Directorate negotiated and executed the contract. Balance of the administration will be turned over to the Los Angeles Procurement District.

The Sergeant Missile System is managed by the Army Missile Command under Col. J. Mort Loomis, Jr., the Project Manager.



only.
SATURDAY — Confessions —
1800-1930 hrs.

June 16, 1775—Adjutant General's Corps established, with Brigadier General Horatio Gates appointed the first Adjutant General the following day.

GUIDANCE PACKAGE—Maj. Gen. Louis O. Gravely, Jr., gets an explanation of an experimental guidance package from Col. John T. O'Keefe (left) and Lt. Col. Stanton W. Josephson, Director of Research and Development for the Army Missile Command. Gen. Gravely is a reserve officer on two weeks active duty training with the Army at Redstone Arsenal to study management procedures in the missile area; Col. O'Keefe is Chief of the Development Division, Directorate of Research and Development.

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Engineers 'Okay' Gen. Eifler Says

Brig. Gen. C. W. Eifler had a pat on the back for government engineers when he addressed the local chapter of the American Institute of Aeronautics and Astronautics last week.

"I have frequently heard that junior engineers make critical technical decisions without having to share the responsibility for the consequences," the Army Missile Command's Deputy Commanding General for Land Combat system said.

"For many years I have had the opportunity to view in detail work being done in both industry and government and to discuss such work with the engineers located either with industry or the government," he continued.

"We have good engineers and poor engineers in both government and industry and they can be found in somewhat the same levels of responsibility.

"But let's put an end to the myth that technical direction comes from unskilled government employees and that this direction is so frequent that large and essential programs are being jeopardized."

Gen. Eifler said he had yet to be given a specific example of a project being jeopardized when he had heard the criticism.

"Both the government and industry are essential to make the pattern of our security complete," he said.

Gen. Eifler cited the phrase "defense cut-back" as another myth he wanted to dispell.

"Our level of defense is far better than ever before and we are getting this defense for less dollars than would have been achieved under different procedures," he said.

The Deputy Commanding General said the government sought

to get the most for its dollar and would continue to seek ways to achieve the level of defense necessary at the best price just as any customer who calls upon industry for a product.

In conclusion Gen. Eifler advised industry to "keep your minds alert, your stomachs lean, your pencils sharp; insist upon quality and volunteer wherever you believe you can help, but don't expect to be drafted 100% of the time."

General Dynamics Receives Contract

The Army has announced the award of a \$10,015,741 contract to General Dynamics/Pomona, a division of General Dynamics Corporation, for additional effort under the feasibility validation program for the Mauler weapon system.

Mauler is designed to engage high performance aerial targets in

the battle area.

Col. B. R. Luczak is the Mauler Project Manager.

Work on the contract will be performed at the Pomona, Calif., plant of General Dynamics Corp., and at major sub-contractor installations.

The Los Angeles Procurement District will administer the contract for the Army.

July 8, 1963—U. S. banned virtually all financial transactions with Cuba in a new move to isolate the Castro regime.

Col. Clark Heads Communications

Col. Sam J. Clark has been named the Assistant for Communications in the Army Missile Support Command according to an announcement by Col. Thomas W. Cooke, Commander of the Support Command.

He comes to Redstone Arsenal from VII Corps in Germany where he served as the Signal Officer. Col. Clark entered the Army in September 1940 and earned the Bronze Star medal in Italy during World War II. While serving at Ft. Huachuca, Arizona the Army awarded him the Army Commendation ribbon.

His assignments have taken him across the world from Ft. Sill, Okla., during World War II into Africa and up the boot of Italy into Germany with the 45th Infantry Division.

He has also held assignments in Washington, D. C., Paris and Greece. The Colonel is a graduate from the Command and General Staff College and has studied at Northwest Oklahoma State and the University of Maryland.

Col. and Mrs. Clark have two daughters, Constance Jo and Celeste Sue.

Col. Clark's mother lives at Ft. Huachuca and Mrs. Clark's father, J. W. Fox, lives at Grandfield, Oklahoma.

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Arr. San Francisco 4:28 pm 10:48 pm
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Leave Huntsville 3:50 pm
Arrive San Diego 9:57 pm
Tourist Fare \$113.85

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Arrive Houston 12:12 pm 8:52 pm
Tourist Fare \$65.35

Evening service to Orlando/Cape Kennedy

Lv. 5:51 pm for Atlanta and one-stop DC-7 arr. at Herndon Airport at 10:29 pm

All Huntsville departure times shown are via Southern Airways to Atlanta

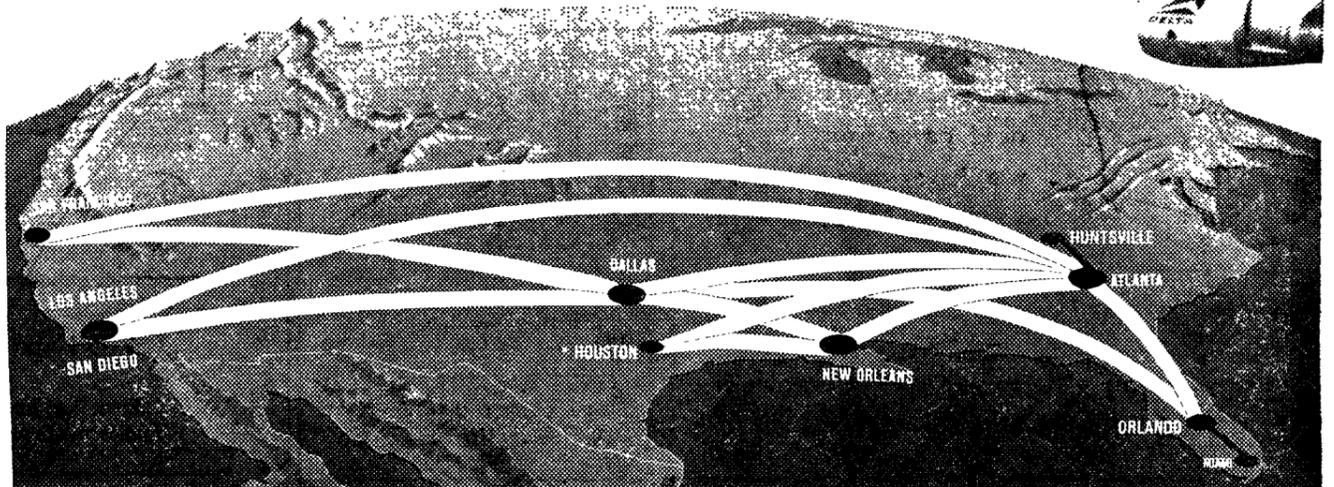
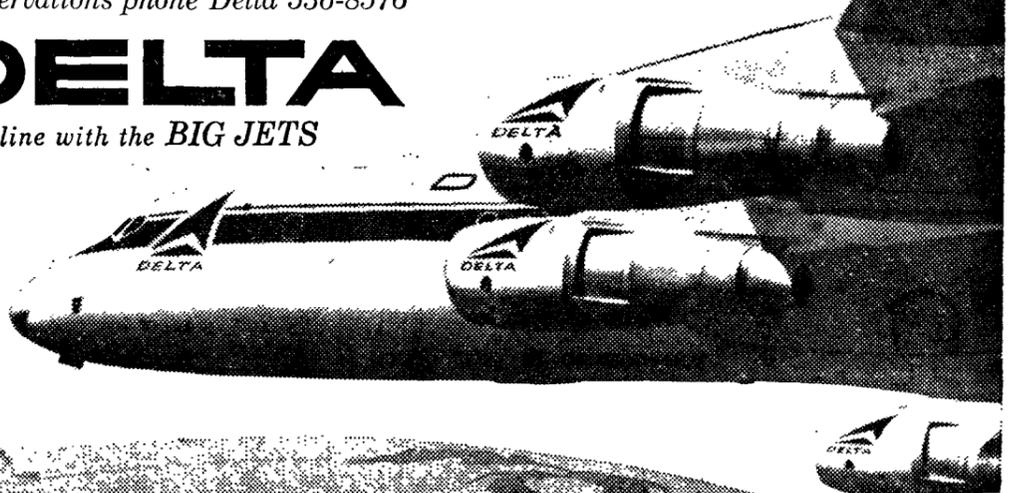
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Maintenance Men Are 24-Hour Clock Watchers

Maintenance dispatchers work round the clock to keep every little thing in order on Redstone Arsenal for the population located here to further development of the Army's missiles and rockets.

The Work Reception Branch of the Army Missile Support Command's Post Engineer organization has five men to maintain this 24-hour service to employees of the Arsenal and the occupants of 1,073 sets of family quarters. These are the men who answer the phone when distressed post residents and workers call the number listed for Minor Repair.

The office supervisor is Ernest Beard, a stocky young man who has put in eight years working in various areas of the Post Engineer. During this time he has gotten to know the people and what they can do. In his business it's both "what you know" and "who you know" that counts.

When a call comes in for help it is essential to evaluate the call to determine if it is an emergency and to know which Post Engineer section can do the work; the names of the men and where they live. One of the best things about the boys who work in the Work Reception Branch is that they

know where all the workmen live and even their habits so they can reach them when an emergency arises at night or on week-ends.

L. W. Wicks is Chief of Production Control & Service Office of which the minor repair maintenance dispatchers are a part. Jimmy Layne and William J. Wynne are the employees on the daytime shifts. Donald Lawrence, Milton Stover and Larry Shifflett ride the other shifts.

Most of the calls come in during normal working hours, Monday through Friday, but nights and week-ends are not free of requests. Many of the more complex problems arise during these periods.

Wynne says that one week-end a little girl called and asked, "Can you fix my bicycle? My Daddy can't." People often come down and ring the bell at Post Engineer Headquarters on week-ends with pieces of things in their hands which they hope Wynne can fix for them. A kindly gentleman, he's sympathetic to their needs, but can only try to find the right men to do the work.

Layne is a slender young man who has been in and out of the maintenance dispatching business for the last seven and one-half

years. He was once replaced by a machine, a telephone answering service equipped with a recorder to tape the calls. The recorder was checked periodically by a stand-by crew of technicians. Layne says this didn't pan out as expected.

Although the men who answer the phone in Minor Repair don't go out and make the repairs themselves, it still takes a human touch to relay the messages successfully and do the necessary follow up.

Wicks makes an estimate that about 100 calls a day is the normal average. When there's a storm or during inclement weather, Layne says the phone rings incessantly, probably running the total to as high as 200 calls. Naturally, he hardly has time to count the rings! Many of the calls are pertaining to the same problem.

There is a \$100.00 limit on the amount that can be spent to cover work orders emanating from Minor Repair folks. Every request that comes in must be charged to the proper work order, so the men must know where to "bill" the work and keep a careful record. In spite of the relatively small amount of money they can charge against a minor repair order, they once received a request to dismantle and move an item of equipment and install it behind a building. They ran an estimate on this job and found it would run in excess of \$30,000. They didn't move the equipment!

One of the oddest requests Layne recalls came when some alterations were made on a small building at one of the Arsenal gates. The caller claimed that Post Engineer workmen had boarded up the building and left a dog in it because he could hear the dog whining. Workmen rushed to the scene and tore off the boards. There was no dog inside, yet periodically they too had heard a dog whining as they worked. They finally decided that someone was "throwing his voice" into the building because they realized they had heard the "dog" only when a certain man was nearby.

Wildlife on the Arsenal causes quite a few calls. A secretary reported Monday morning that rats had built a nest in her typewriter over the week-end. Snakes crawl into buildings and even into desk drawers. Wasps swarm. Everything that flies or crawls on the Arsenal and "gets into people's hair" brings a call to the maintenance dispatchers.

To expedite emergency repairs, the dispatchers have two-way radios which are hooked up with maintenance crews and the Fire Department. In case of a fire in a building, the dispatcher sends an electrician to the scene.

Among the calls that come in during odd hours, Wicks recalls one at 4 a.m. from a man who wanted to get his name first on list for a lawn mower so that he could mow his grass early before it got too hot. Another time the dispatcher was called at 3 a.m. one Saturday stating that a resident had piled grass in the street after mowing his lawn and that it was a traffic hazard which should be removed immediately.

Many requests for help come at all hours from people with "stopped up" commodes and sinks. Wicks says they've saved a lot of calls and money by purchasing "plumbers friends" to assign to

each set of family quarters. Now sell. people are very cooperative about taking care of their own problems to the extent possible.

Over-all boss of this busy and vital Arsenal element is Colonel R. P. Davidson, the Post Engineer. His deputy is William R. Henry, and the assistant is Oscar C. Rus-

It shouldn't be assumed that all calls are for unusual or peculiar emergencies. Most are routine minor breakdowns and ordinary maintenance matters. It's the odd ball ones that put the spice in the job for the men who must keep operating through thick and thin.



CALLS, CALLS, CALLS—Every time the phone rings in the Work Reception Branch of the Army Missile Support Command Post Engineer, it means a request for a minor repair. Each piece of paper in the files represents one of the orders for work to fix everything from ailing plumbing to cleaning up after a storm. Ernest Beard (center), the office supervisor checks with Jimmy Layne (standing) and William J. Wynne to get the background information on some of the orders.



THE BOSS BUZZES—L. W. Wicks, Chief of the Production Control and Service Office at the Army Missile Support Command Post Engineer, tries the buzzer to summon the minor repair clerk. The Work Reception Branch is the service called for minor repairs and is a part of Wicks' office. The buzzer rings frequently on weekends and nights when people around the arsenal have lesser but pressing problems that require some fast action to put them back in business.

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\$50	\$ 9.23	\$ 5.02		
75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Above payments include principal and interest. Life Insurance is available at group rate on loans above \$100.

Cash You Get	MONTHLY PAYMENT PLANS		
	12 Payments	24 Payments	30 Payments
\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.



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40-Day Duck Season To Open On Nov. 25

MONTGOMERY — Conservation Director Claude D. Kelley has announced that Alabama duck hunters can enjoy five more days of hunting this season than last as well as an increase in the bag limit on certain species.

Kelley said the hunting season on ducks and coots will run for 40 consecutive days from Nov. 25 to Jan. 3. Last season the duck hunting season lasted 35 days.

The season on geese will be the same as last season's. It will run for 70 consecutive days from Nov. 7 to Jan. 15.

The more liberal bag limit will include two redheads, or two canvasbacks, or one of each species, the director said.

Charles Kelley, Chief of the Game and Fish Division, said, "This is the best news for Alabama duck hunters in several years."

He expressed reasonable satisfaction over the longer season and greater bag limit on ducks. Kelley said, "It is my opinion that the season and bag limit increases were due largely to the efforts of Alabama and other Southern states working through the Mississippi Flyway Council.

The council is an organization of game administrators and waterfowl specialists who study waterfowl conditions and then make recommendations regarding them to the U. S. Fish and Wildlife Service,

Mrs. Budd Wins Flag Tournament

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club held a flag tournament on the Arsenal course last Wednesday.

Winners were Mrs. Gene Budd, first; Mrs. Frank Napper, second; and Mrs. A. McL. Cobban, third. Fourteen players competed.

CIV SOFTBALL STANDINGS

	Won	Lost
Hq	5	1
F & A	4	1
NASA	4	1
P & P	4	2
Pershing	4	2
S & M	3	4
Comm	2	3
Struc. & Mech.	2	4
Comp. Center	1	5
Prop Lab	0	6

which has final authority in matters concerning length of season and bag limit.

Further details on the waterfowl seasons may be obtained from the Alabama Conservation Department.

The American-Korean Foundation does pioneer work in Korea by assisting technical training for the blind, the deaf-mute, providing rehabilitation equipment, supplies, and therapy for the disabled. Give to the American-Korean Foundation through your Federal Service Joint Crusade.



DEFENSIVE STALWARTS—Little Dave Rosado (left) and Frank McMillan have provided the Redstone Rockets with near perfect protection on the right side of the infield all season. Rosado is the team spark plug and has teamed with shortstop Mel Anderson in providing the Rockets with a strong double play combination. McMillan is a slick fielding first sacker who also wields a potent bat. The Rockets are at Ft. Jackson, S.C., this week competing in the Third Army tournament.

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WEDNESDAY, 26 August
"The Mouse on the Moon" (F)
THURSDAY-FRIDAY, 27-28 August
"The Bridge on the River Kwai" (F)
SATURDAY, 29 August
"Sing and Swing" (F)
SUNDAY-MONDAY, 30-31 August
"Under the Yum Yum Tree" (M)

"MGM's Big Parade Comedy" (F) Saturday matinee at 1:00 p.m.,
Two shows nightly at 6:00 and 8:30 p.m. and Sunday matinee at 2:00 p.m.

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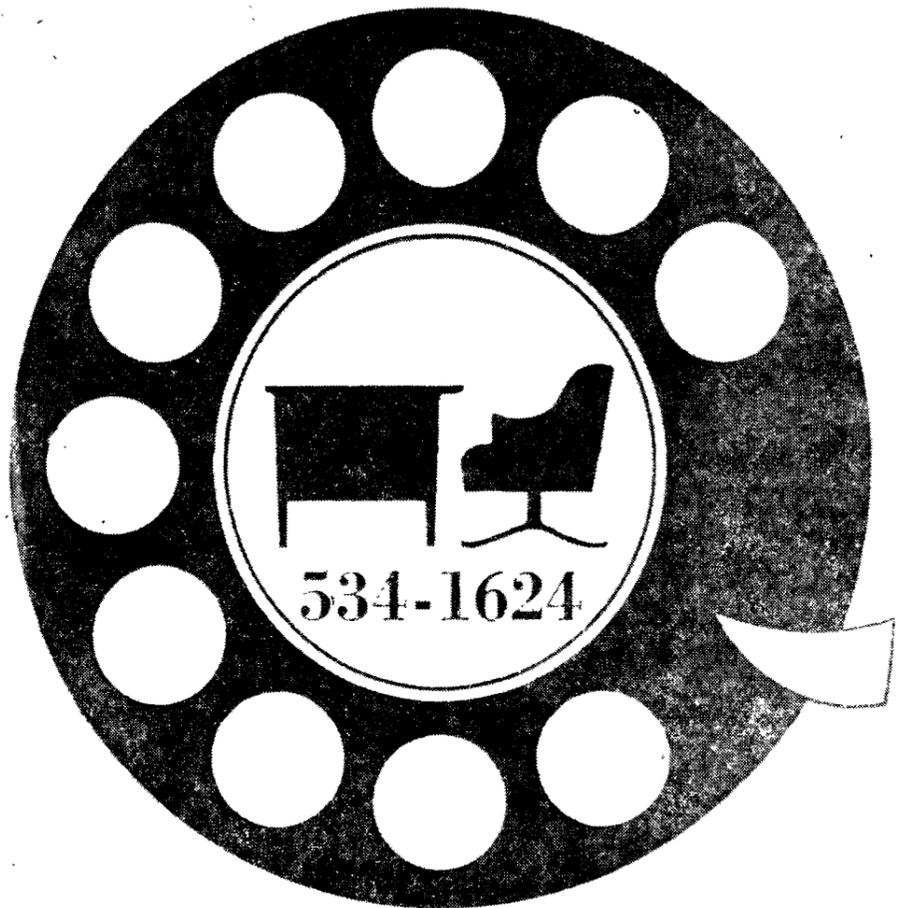
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SOCIAL ^{and} CLUB EVENTS

Gray Lady Classes To Start

Volunteers will have the opportunity to take Gray Lady training Sept. 14-15 at the Redstone Post Chapel.

Ten hours of classroom training between 9 a.m. and 2 p.m. will be followed by 10 hours of duty at one of the Post Clinics or the U. S. Army Hospital before the volunteers qualify for Gray Lady caps.

The nursery is free to everyone who undertakes this service and transportation is furnished to those who need it between home

Fantasy Teen Guild To Play 'Stage Door'

The Teen Guild of Fantasy Playhouse has developed and produced "Stage Door" during its summer workshop training.

The play is being presented at the temporary Civic Arts Center on West Clinton Street beginning tonight, and running through Saturday. Curtain time is 8 p.m.

Leads in the play are Becky Queen as Terry Randall, Ronnie Wainscott as Keith Burgess, Louis Delionback as David Kingsly and Diane Delionback as Jean Maitland. The scene is a club for young women aspiring to fame and fortune in the theater.

and clinic.

Mrs. R. W. Mundy, Chairman of Volunteers, is appealing to everyone interested to participate in the program.



PRETTY POSIES ALL IN A RING—Mrs. Ralph A. Newman pauses in tending her garden which won the Redstone Garden Club of the Month award for August. She and Col. Newman have a wide variety of flowers in their carefully cultivated lawn and garden at 8 Wadsworth Drive. Honorable Mention for August went to Capt. and Mrs. Harold Stubbs, 263-A Wesson Circle.

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Distaff Foundation Ball Scheduled September 26

Committee Chairman have been named for the annual Army Distaff Foundation Fund dance — scheduled as a Harvest Ball Sept. 26.

Mrs. Howard P. Persons, Jr., overall chairman has chosen Mrs. J. G. Higgins as menu chairman; Mrs. Harold Zier, decorations; Capt. Jack Farrington, entertainment; and Capt. Safron Canja, ticket coordinator.

The Redstone Arsenal Officers Wives Club is the sponsoring organization.

Residents at the Army Distaff Foundation in Washington, D. C., are elderly wives, daughters or close relatives of deceased Army officers. The Foundation is a non-profit, charitable corporation incorporated in the District of Columbia in February, 1959.

To maintain a sound financial position and carry out its chari-

table purposes the Foundation carries on a drive for funds in order to give confidential assistance to needy cases.

Active and retired Army personnel contribute and many officers wives clubs raise funds through socials such as pancake parties, garden parties and costume parties.

At Redstone Arsenal, the Wives Club has established a tradition

Monday Night Bridge

Mrs. R. W. Washburn and Bob Van Roo were winners at Monday night bridge at the Squirrel Hill Officers Club last week.

Runnersup were Mrs. Stanley Tyler and CWO J. N. Crawford.

Mrs. Crawford handles the reservations to play with the group which competes for a men's and for a women's high score.

of an annual ball preceded by a buffet dinner. The dinner reservations will probably be limited to 500 this year but latecomers can still enjoy the dance and the floor show.

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School Graduates 60

Close to 60 graduating Pershing and Nike missile students at the Army Ordnance Guided Missile School heard Maj. Gen. Louis O. Gravely Friday at a formal commencement exercise.

Following a keynote address by the visiting general, five honor students were named by Lt. Col. Robert A. Robinson Jr., executive officer at OGMs.

Included in the honor student line up were Sp/5 Jerry F. Boan of Augusta, Ga., Sfc Earl M. Hansen of Eldorado, Ark., Sp/6 Robert A. Loy of Knoxville, Tenn., Sfc. Leamon C. Jarmon of Gunterville, Ala., and Pvt. Wilbur R. Long of Niles, Ill.

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Garden Club Sponsors First Full-Fledged Show

The Redstone Garden Club's flower show last Tuesday at the Officers Club was a gala of "firsts." It was their first full-fledged show, there were first prizes awarded in every class, all but one exhibitor entered a show for the first time, and all members except one are in their first year of club membership.

Theme of the show was "Give My Regards to Broadway" with the flower arrangements interpret-

ing Broadway musicals. Mrs. Harold Frear won the blue ribbon in Class I, "No Where to go But Up", and her arrangement for this class also took the sweepstakes and best of show ribbons.

Winner of first in Class VI, "The Girl Who Came to Supper" was Mrs. Therman Richards who also had a first place in Class V, "A Gift of Time", and two firsts and best of show in the horticulture



THE BEST OF ALL—Mrs. Harold Frear is proud of her three ribbons, one for first in the class for vertical arrangements, and the sweepstakes and best of show ribbons. The awards were won during the Redstone Garden Club's first flower show, held last Tuesday in the Officers Club. The winner's husband is assigned to the Army Missile Command.



THE RED, WHITE AND BLUE—Mrs. Anthony Johnson displays her arrangement which won first in the "All American" class at the Redstone Garden Club flower show last Tuesday at the Officers Club. With the theme "Give My Regards to Broadway," the different classes were named for popular musicals, and the arrangements were used to interpret the titles of the shows. Mrs. Johnson's husband is a captain assigned to the Ordnance Guided Missile School.



DINNER BY CANDLELIGHT—Candles are lighted by Mrs. Therman Richards, blue ribbon winner in the class "The Girl Who Came to Supper" at the Redstone Garden Club show last Tuesday. Mrs. Richards also won first in another class and two firsts and best of show in the horticulture classes. Capt. Richards is in the Personnel Office of the Ordnance Guided Missile School.

classes. One of her horticulture entries that placed first was a Mirandy tea rose, and the other was the best annual, a marigold.

Second place in Class I went to Mrs. R. H. Lee, and third to Mrs. Anthony Johnson. Class II, "South Pacific", winners were: first, Mrs. Frear; second, Mrs. Lee; and third, Mrs. C. C. Wagner, who is the club's president.

Arrangements in red, white and blue in Class II entitled "All American", won first for Mrs. Anthony Johnson, second for Mrs. Jerry Gibbs, and third for Mrs. George Harrison.

The musical interpreted in Class IV was "My Fair Lady." The winners were: first, Mrs. Stanley Tyler; second, Mrs. Richard Rogers; and third, Mrs. Robert Cosentino.

Other winners in Class V, in which Mrs. Richards placed first, were Mrs. Wagner who won second, and Mrs. Cosentino who received the third place ribbon.

Ribbons of merit were awarded to Mrs. Robert Sandstrom for her

table of Oriental arrangements, and to two Huntsville merchants for their displays of horticulture necessities and books on garden-

ing. The Garden Club is an activity of the Redstone Arsenal Officers Wives Club.

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Boy Scouts Planning To Be At 1964 Frontier Roundup

The Army at Redstone Arsenal is already making plans for the Frontier Roundup finale in December where Boy Scouts from throughout the Tennessee Valley Council will be honored at an awards ceremony. Redstone will host the affair.

District and division chairmen kicked off the Roundup at a meeting hosted by Col. Thomas W. Cooke, Commander of Redstone Arsenal and Council Roundup Chairman. He and Col. William J. Macpherson will co-host the December ceremony. Col. Macpherson is Commandant of the Army Ordnance Guided Missile School and

a member of the Tennessee Valley Council.

Council President Dan Mitchell and Scout Executive Robert Haskins spoke before the kick-off meeting. Capt. R. E. Lees of the Army Missile Support Command was master of ceremonies for the event.

Roundup chairmen of the nine county Council include R. D. Lowery, Wayne Robinson, Welton Reynolds, Dr. Eugene Chanualt, R. B. Moyer, G. L. Tapscott, Dr. A. M. Christopher, Charles Moore, Dr. Charles L. Neese and Allen Pope.

Army Missile Command and Ordnance Guided Missile School personnel who are assisting the Council district and division roundup chairmen include: 1st/Lt. William F. Paris, Sgt. Edward R. Warren, 1st/Lt. Edward L. Cousins, PFC William E. Devorak, (See ROUNDUP on Page 3) 2nd/Lt. Burt R. Mann, SFC Patrick Hoban, 1st/Lt. Perry W. Fischer, Sgt. Howard W. Swick,

Capt. William J. Fiorentino, Sgt. James Robinson, Capt. John S. Farrington, S/Sgt. John Plummer, 2nd Lt. Robert K. Kalbert, PFC Gary G. Buck, 1st Lt. James T. Holt, SFC Herman D. Hilmes, Capt. Charles Lounderman, Sgt. James E. Stinson, 2nd/Lt. Roy H. Zumwalt, SFC Hubert Parnell, Capt. Henry Bohn, Capt. Billy W. McCarty, 2nd Lt. Russell B. Herbert and Sgt. Adolfo Morales.

University Offers No Credit In Rapid Reading

The University of Alabama in Huntsville is offering a non-credit course in reading improvement.

This course beginning in early September is designed specifically to enable adults to satisfy more adequately their reading needs. The course is established to produce faster and more flexible readers that can master the deluge of printed materials encountered by adults in general and by business and professional leaders in particular.

Emphasis in the course is placed on developing planned, purposeful reading approaches that utilize techniques considered most effective for the material and the reader's individual purpose and situation. Controlled self-testing and instructor-guided appraisal occur frequently throughout the course. The latest research results on reading by adults are utilized in the techniques and assessment tools.

To insure the individual instruction, the enrollment will be limited to 16 students selected on the basis of data of receipt of application from those admitted by the office of Student Records at the Huntsville Campus. Application forms must be completed by Sept. 10; the first class will meet Sept. 17, and each Thursday thereafter from 8:10-10:15 p. m. for a 14 week period. Since a testing session will be held during the first meeting of Sept. 17, each student must be present for that class.

Mrs. Ruth Bolton is the instructor for the class. This summer

Mrs. Bolton received her M.Ed. in Reading from Marquette University. Her thesis reported the results of her research performed for two years with students of reading here in the Huntsville area. This study has afforded many interesting features. One such item is that one student during the reading course advanced from 250 words a minute to 450 words per minute; with independent study, this same student advanced 1400 words per minute in less than one year.

All interested persons must complete application forms at the Office of Student Records by Sept.

10. For further information call 837-4700.

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(Continued From Page 1)

is also available to new employees for 90 days following the date they report for duty.

"The Benefit Association, which provides low cost life insurance, was begun in 1962," said McKinney. "More than three thousand employees have taken advantage of this additional life insurance coverage," he added.

Gilbert P. Chandler, Management Service and Data Systems Office, MICOM, is vice-president of the Association.

In charge of the program administration and available full time in room 17, Building T-3161 to assist employees is Mrs. Beatrice E. Robinson, secretary-treasurer.

Concerning the program Mrs. Robinson, said that because the plan is one of group participation, members can make the plan more efficient through prompt premium payment.

"When the 30-day grace period is exceeded," she said, "the insurance lapses and is automatically terminated."

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1961 AMERICAN Station Wagon with radio, heater, std. shift, brown and white. Real nice one-owner wagon. \$1075

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1963 RAMBLER CLASSIC Four-Door "6" with standard shift, heater, and it's two-tone green. Real sharp car. \$1575

1961 FORD Galaxie "500" Fordor sedan with V-8 motor, auto. shift, radio, heater, white tires and it's priced to sell quickly at \$1275

1961 T-BIRD Hardtop Tudor with shining maroon finish, white top and fully equipped. This is a real cool one for only \$2475

1960 T-BIRD Hardtop Tudor with cool solid white finish, all equipment and it's ideal for this hot weather. Priced at \$1875

1958 T-BIRD Hardtop Tudor with auto. shift, power brakes, power steering, radio, heater and solid white finish. It's ready to go for \$1275

1959 TAUNUS German Ford—2-dr. station wagon with economical 4-cylinder engine, std. shift. This is a real gas-saver. \$475



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END-O-SEASON MARK-DOWNS ON ALL '64 RAMBLERS & DEMONSTRATORS

University Needs Faculty Members

The faculty in Huntsville for the fall quarter consists of approximately 22 full time and 90 part time members. That group will be the largest teaching force since the University opened for classes fourteen years ago here in Huntsville.

During the past years, the number of faculty members has rapidly increased and the course offerings have become widely varied. In some academic areas, there are multiple sections of the same course offerings. This situation will be even more complex in semesters to come. Each day brings a steady flow of student applications.

Dr. Charley Scott, stated in an

interview: We are making a survey and it appears that we will need additional personnel because of the expanding program. The critical areas seem to be in languages, sciences, art, political sciences, education, and business administration. Dr. Scott continued by saying that persons with previous teaching experience and higher education are encouraged to consult with him about the possibility

of teaching.

This area has produced many outstanding persons who like to teach and these have shared their knowledge with the local University students. Many of them hold full time positions and teach a class in the evenings. There are

many such talented people in this area.

In the October issue of ARMY Magazine, Col. Eben Swift in a fictionalized amphibious operation labled, "Operation Carica," points up a few misconcepts of beach-head landings.

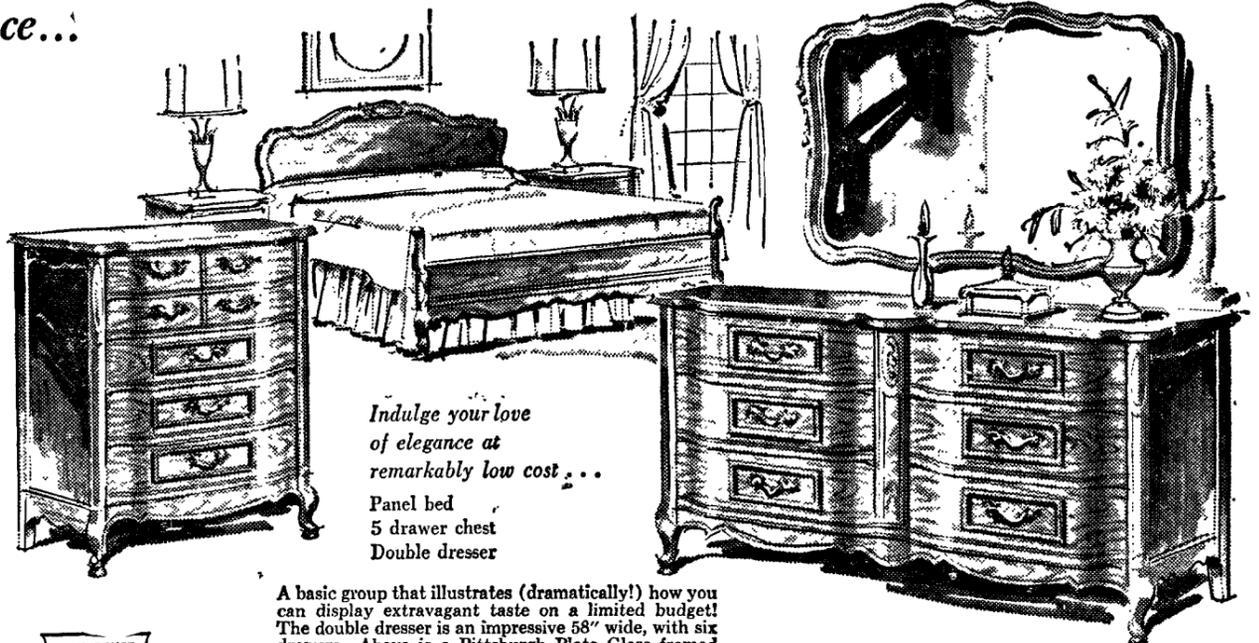
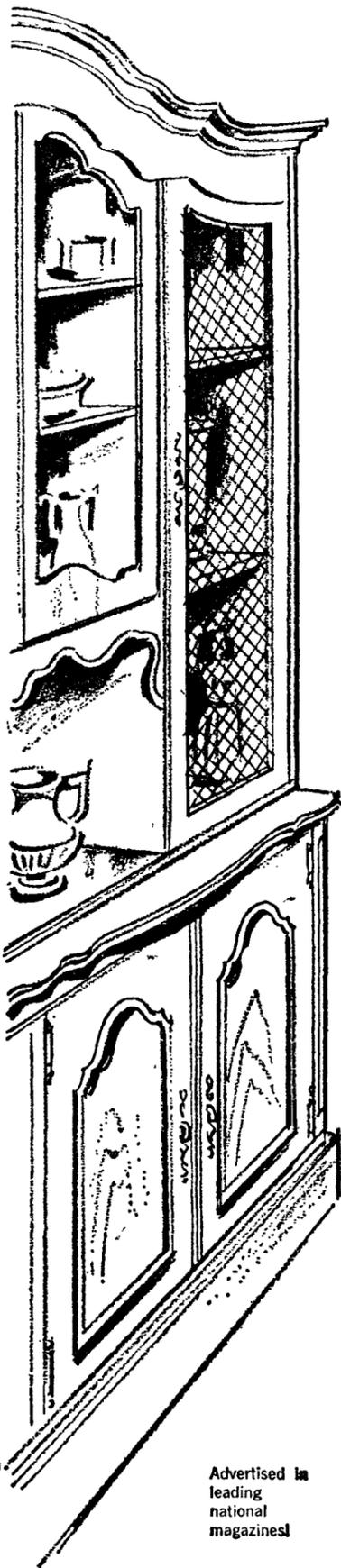
Barbizon

A new group by famous Bassett that captures the mood and elan of la belle France...

Barbizon . . . a village near Fontaine Bleau . . . was the source for this inspired collection by the international designer, Leo Jiranek. Here — in abundance — are the pure French Provincial pieces that find their origin in the era of Louis XV. Hand selected cherry veneers, exquisite detailing . . . and proportioned in the grand manner. Also available in Lorenthian White, an antiquated finish that is prized among decorators. Isn't it astonishing how little you need pay for this luxurious furniture?



Poster Bed
Canopy Frame



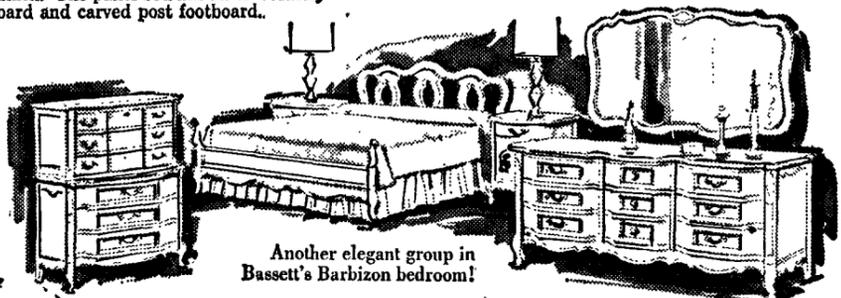
Indulge your love of elegance at remarkably low cost . . .

Panel bed
5 drawer chest
Double dresser

A basic group that illustrates (dramatically!) how you can display extravagant taste on a limited budget! The double dresser is an impressive 58" wide, with six drawers. Above is a Pittsburgh Plate Glass framed mirror 42"x30". At left is a 5 drawer chest that has storage space that you may never fill! All drawers with no-sag Permasheen interiors. Grand Rapids Guardsman® finish. The panel bed has an elaborately shaped headboard and carved post footboard.



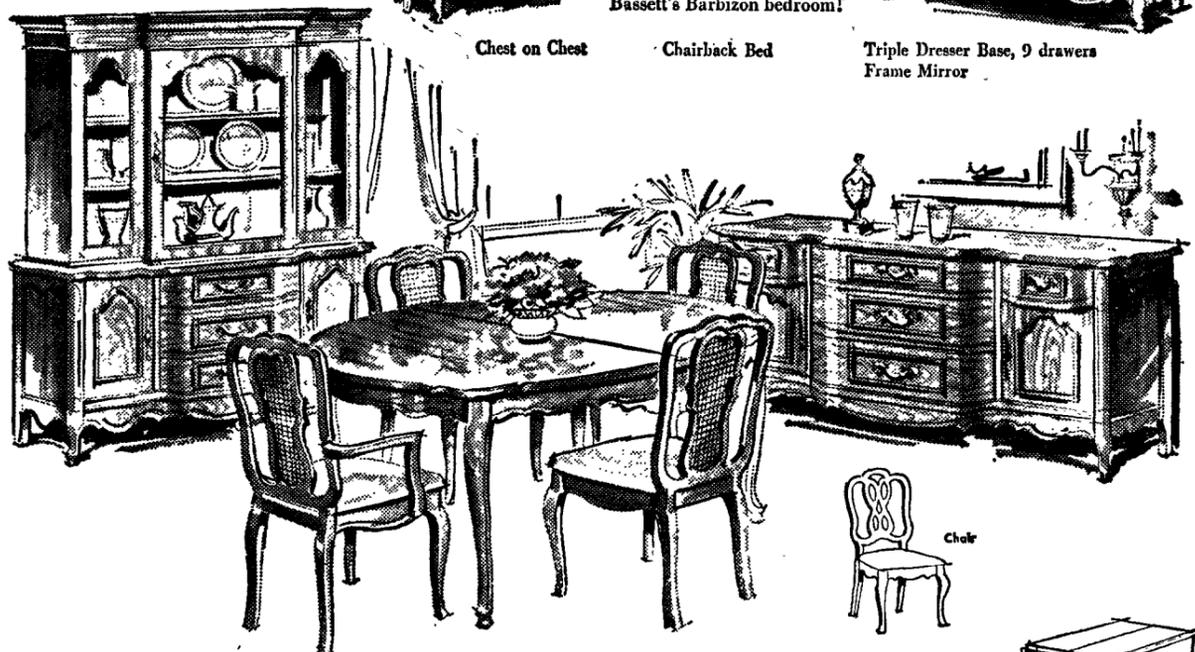
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COL. B. A. SAHOLSKY

Col. Saholsky Heads P & P

Col. B. A. Saholsky, a career officer who has already held several key positions in "buying for the Army," has been named Director of the Army Missile Command's Directorate of Procurement and Production.

With nearly 30 years of military service to his credit, Col. Saholsky has taken over the post formerly held by Col. E. V. Lau who has been assigned as Commanding Officer of the U. S. Army Procurement Agency in Japan.

A native of Shamokin, Pa., Saholsky came to Redstone Arsenal from Army Command Headquarters in Europe where he was Director of Procurement. Prior to that, he served in the Contracts Branch, Procurement Division of the Deputy Chief of Staff for Logistics in Washington and as Director of Procurement and Production at the Transportation Materiel Command in St. Louis, Mo.

Col. Saholsky is a graduate of Pennsylvania State College where he received a BS Degree in Mechanical Engineering. In addition, he attended the Industrial College of the Armed Forces where he studied Industrial Mobilization.

He has been awarded the Bronze Star Medal, the General Staff Identification and the U. S. Army Commendation Medal with three Oak Leaf Clusters.

Col. and Mrs. Saholsky have three children, Carol, Robert and David.

The Procurement and Production Directorate which the colonel heads has the responsibility for negotiating, executing and administering contracts for procurement

Huntsville University Center Degrees Listed

As the fall quarter approaches at the Huntsville Campus many former students are checking their current standing before the September registration. Students who have been away from the Huntsville Campus for a year or more are urged to check in the office of Student Records before the date of registration to determine if their records are in order.

Many of these former students have attended other universities since they last attended classes at Huntsville; any credits earned in this intervening period must be recorded by means of official transcripts in the student's folder.

Registration is Sept. 21 and 22. This date is too late for a student to begin a collection of transcripts from various colleges over the country.

Since students in Huntsville may now complete work toward various degrees, some further explanation of available courses may be helpful.

In the school of Arts and Sciences: a student may complete in Huntsville a major in history, English, math, or physics. He may complete a minor in French, German, or psychology.

In the school Engineering: the total curriculum planning is not yet complete, but an announcement of the program will be made within the year.

In the school of Commerce: a student at the Huntsville campus may complete course work leading to certificate credit but all the courses leading to a degree

THERE'S ONE IN EVERY OUTFIT



are not yet available on this campus.

In the school of Education: in elementary education, a student may complete in Huntsville two years of the required course work. In the secondary education area, a student may complete all but one semester of his work. Many persons choose to complete requirements for the Arts and Sciences degree with the education courses as electives.

The university in Huntsville is planning an even broader curriculum. Much time and effort has

gone into the above offerings. This varied curriculum affords many previous students definite goals to work toward. If any student has further questions to ask about his course of study, he is asked to call the office of Student Records.

June 26, 1917—First contingent of U. S. First Division (as First Expeditionary Division) arrived at St. Nazaire, France.

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Welcome Mat

The ROCKET extends a welcome to the following civilian employees who have recently accepted positions with the Army organizations at Redstone.

ARMY MISSILE COMMAND

Air Defense Fire Control and Distribution System: William D. Hagler, Nancy H. Pepper, Isabel A. Wood and the following personnel who were transferred to Redstone from Ft. Meade, Md.; Mortimer Barnett, Stewart J. Baker, Albert H. Bauman, Ruby B. Blalock. M. Gurnialene Braswell, John R. Burke, James R. Cronin, John Cusick, Jack A. Davis, Jessie E. Eastman, Thomas N. Ferrell, Ferris D. Garcia, Edward Gilgenast, Janette Harper, Brenda J. Moore, John H. Moore.

Taylor E. Owens, Francis E. Roddy, John F. Rohl, Rockwell L. St. George, Howard M. Scheinberg, James H. Segraves, Linda G. Sewell, Howard M. Sheaff, Leo L. Sumlin, William B. Wilson, and Andrew T. Witles.

Supply & Maintenance: Grady F. Berryman, Betty L. Blancett, Franklin C. Causey, Joseph B. Fisher, Billy J. Gabe, Lieunell S. Hatch, Charles I. Holland, Rhonda P. Hollingsworth, Franklin D. Hunley, Tauna W. Moorehead, Stanley J. Provost, Alice M. Stewart, R. Gayle Stotts and Mildred H. Whitlock.

Procurement & Production: How-

ard E. Christiansen, Robert L. Crossman, Thomas D. Edgil, Jr., Martha J. Ferrell, Hilda S. Gentry, Clara M. Hawk, Willodean Kelley, Walter G. Kittelson, Ruth H. Larkin, Paul McLin, J. L. Miller, Charles I. Rosenblatt, Varian C. Scott, Jr., Bobbie L. Smith, Glenda G. Smith and Leon W. Thomas.

Research & Development: James F. Howison, Estelle P. Johnson, Joyce H. Koerner, Bobby R. Mullinix, Kenneth W. Peterson, Jean C. Pomeroy, Rebecca J. Rice, Alta L. Varner, Brenda J. Washburn, John M. Whitaker, and Ben F. Wilson.

Others: Mary C. Allen, Helen M. Jeffers and Clarence A. Martin, Administrative Office; Lloyd D. Baldwin, Jr., General Counsel; Clifford H. Barton, and Mildred S. Hanby, Hercules; Flora M. Ferguson, Installation & Svs; Glayds K. Gresham and Robert R. Walthall, Msl Intell; and Katherine I. Smith, Redeye.

NIKE X PROJECT OFFICE

Lois H. Aymett, Fernando Barbaria, Doris C. Gilliam, Betty H. Hawkins, Valeria C. Mehr, Jackson M. Miner, Paul S. Moore, Charles D. Smith, Jr., Nancy H. Walker and Frances S. Williams.

MISSILE SUPPORT COMMAND

Barbara A. Condrey, James C. Lynch, Carolyn A. McKissack and Benita L. Mann, all with Intelligence & Security; Faye S. Daly and Donna P. Morris, Civilian Personnel; Juanita H. Caffee, Post Engineer; and Larry L. Hodson and Helen G. Thomas, Consolidated Supply.



REDSTONE BENEFIT OFFICERS—Newly appointed Redstone Benefit Association president, J. C. McKinney, right, discusses the upcoming 'Open Period' for enrollment into the group life insurance program with Vice-President Gilbert Chandler and Secretary-Treasurer Mrs. Beatrice E. Robinson. A physical examination requirement for employees entering the program will be waived during the open period.

Support Command Gives Most Blood

The Army Missile Support Command donated the largest percentage of the 652 pints collected at the Bloodmobile visit at Redstone Arsenal Wednesday.

Trophies for military participation went to the 291st Military Police in Category 1 and to the 13th Ordnance Detachment at the Missile School in Category 2.

Col. William Luk, Troop Commander and Provost Marshal, is the Bloodmobile coordinator. Maj. George E. Parker is his assistant. Mrs. R. B. Braid is in charge of

Civil Service Note

TRAVEL: Joint Senate-House legislation, enacted in mid-October, amends the Administrative Expenses Act of 1946 to authorize payment of travel and transportation expenses to student trainees when assigned, with or without promotion, upon completion of college work to positions for which there is determined by the Civil Service Commission to be a man-power shortage. Present law limits such payment to

the Gray Lady, Volunteer Nurse and Red Cross Staff Aides who man the Bloodmobile stations during the monthly visit.

student trainees who are promoted upon graduation.

House bill provides for payment of pre-employment interview expenses for persons in shortage occupations who are invited to visit agencies or installations for purposes connected with employment.

On their first day's fishing with the help of CARE-supplied outboard motors, nylon nets and other gear, fishermen of the Panamanian villages of Higo and El Farallon more than tripled their best previous catch. CARE contributions under the FSJC program helped provide some of the new equipment.

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Yes, you may make application by phone at C.I.T. Or even by mail. But, frankly, we enjoy meeting people so much we hope you drop by our office in person. That way we can talk over your loan to pay bills, or the money you need for travel. Or discuss whatever problem a C.I.T. loan can solve for you. Remember, you'll find a C.I.T. office just about anywhere you happen to be. There are over 400 C.I.T. offices from coast to coast. There's a welcome waiting for you at every one. Why not call now?

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14	245.29	192.55	139.36	70	\$2084.75	1773.92	1115.05
16	282.45	220.36	159.26	100	3000.00	2556.53	1696.33

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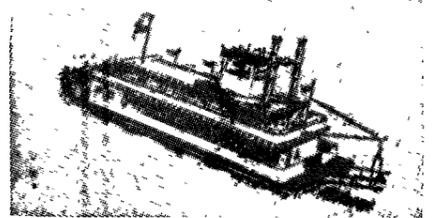


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Page 14 The Redstone Rocket — August 26, 1964

1. For Rent

FOR RENT—TV's portables, UHF-VHF, by day, week or month 1964 models. Phone 534-9761. Central TV and Stereo Co., Inc., corner Governors Drive and Parkway. Open 8 a.m. to 7 p.m. daily. Phone 534-8689. tfc

FOR RENT—4000 sq. ft. workable area of office space, second floor Quick Building. Available July 1. 117 Greene St., Downtown Huntsville. Phone 534-5127 or 534-4551. tfc

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tfc

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2. Cars For Sale

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FOR SALE—1964 M.G. Convertible, fully equipped, less than 7,000 miles, also 1963 Volkswagen sedan, like new. Call Stackhouse, Decatur, 353-8378. ttc

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3. Miscellaneous

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GUNTERVILLE LAKE—Pine Island brick summer home completely furnished all very clean, large beautiful lot, 300 water front several hundred deep—2 slip boathouse, dock-patio barbecue, all this with 26 Correct Craft Cabin Cruiser, 16 1/2 Sports Runabout 75 Johnson, 14 fishing with 18 Johnson, everything is first class and there is much more not described here. Sell 31M would cost to reproduce about 50M. Show by appointment. Owner M. E. Lott, 900 Irving Road, Birmingham, Ala. 35209, or call after 6 p.m. 871-3981. 8-26p

6 ROOMS—Central heat, semi-furnished house Pratt Avenue, large lot. Total \$14,500.00 Contact Mrs. H. R. Hope, 303 Sherwood Dr S.E., Huntsville, Ala. Tel. 881-1227 (after 4). 1tp

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3 BEDROOM, 2 bath, house, kitchen and den combination Near Willowbrook Country Club Finance F.H.A. No money down G.I. \$23,900 539-0702 or 881-5584. 1tc

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GUNTERVILLE LAKE — House for sale, 3 bedrooms, 13x26 living room, central heat, air conditioning, near lake, choice Sunset Drive residential area. \$16,500 Phone 582-3972 Gunterville. 1tc

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Museum's Large-Scale Model Reveals Details of Living Cell



Freidoum Jalayer is shown with his remarkable plexiglass model of a living cell.—Maris-Ezra Stoller Photo.

With unusual clarity the innermost details of the structure of a living cell are revealed in this three-dimensional plexiglass model in the American Museum of Natural History in New York City.

The 120-pound model, pictured with its creator, Freidoum Jalayer, of the Museum's technical staff, represents in cross-section an idealized cell magnified 40,000 times. It is part of a new exhibit, "The Origin and Structure of Life," designed by Dr. Dorothy E. Bliss, the Museum's associate curator.

Such minute details of cell structure have been discerned only in recent years from studies of photos taken through electron microscopes. The model represents information gleaned from hundreds of such photomicrographs.

A cell may be described as a tiny chemical "factory." Each cell produces thousands of different chemicals and chemical reactions which are necessary to maintain the life of the cell and the organism of which it is a part.

At the molecular level, the materials that make up living things do not themselves "live," but are organized in a complex,

interacting relationship which we call "life." This remarkable "organizer" is found in every cell. It contains a complete set of instructions, or master plan, for building the entire organism.

The organizer is a complex chemical called DNA (shorthand for deoxyribonucleic acid). DNA transmits genetic information from one generation of living cells to the next and organizes their activities so that they perform their roles in maintaining larger organisms. The genetic information, which determines whether an organism is to be a flower, a tree, a frog, or a human being, is contained in a code built right into the DNA molecule's structure. The code in a single molecule, if put into English instructions, might fill a 1,000-volume library.

Most of the DNA is found in the nucleus (marked N in the photo). This round, double-walled object might be called the "headquarters" of the cell.

In the nucleus one sees the darker, denser nucleolus (Ns), which is believed to be a center of synthetic activity and possibly a storage area for chemicals.

Other letters identify these objects: (E) the beaded sac-like endoplasmic reticulum, a

site of protein production; (R) the beads—both free-floating (arrows) and those covering the nucleus and the endoplasmic reticulum—which are the ribosomes where the final stages of protein synthesis take place; (C) the centriole, a particle important in cell reproduction; (G) the Golgi bodies, which secrete chemicals; and (M) the mitochondria, or "powerhouses," of the cell, which provide much of its energy.

All these fascinating objects in the jelly-like cytoplasm surrounding the cell nucleus will provide subjects for investigation for years to come before all their secrets are learned.

Other interesting features of the exhibit in the Museum's new Hall of Biology of Invertebrates are a large model of a DNA molecule, and films, models, paintings, and photographs suggesting how life may have arisen on earth some one and one-half billion years ago.

The exhibit, which is sponsored by Eli Lilly and Company, will be giving students a "short course" in biology at the molecular level for many years. Visitors will find the American Museum at Central Park West and 79th Street.

Col. Meaders Is Logistics Chief

Col. George E. Meaders, a native Mississippian, has spent more time overseas during his 24 years of Army service than he has in the U. S.

He came to Redstone Arsenal July 27 after completing an assignment as Chief of the Logistics Division for the Joint U. S. Military Advisory Group in Thailand.

Col. Meaders is now Assistant for Logistics in the Army Missile Support Command which is headed by Col. Thomas W. Cooke.

Col. Meaders graduated from the Command and General Staff College in 1945 and was on the faculty for three years, 1951-54. In 1958 he graduated from Industrial College of the Armed Forces.

His stateside assignments have included a tour in the Office of the Deputy Chief of Staff for Logistics in Washington, and as a member of the 82nd Airborne Division at Ft. Benning.

He earned the Bronze Star medal in the Pacific Theater during World War II and another in

Korea in 1950, and during his assignments in Japan and Thailand, he earned the Army Commendation ribbon and a cluster.

Married to the former Miss Dorothy Teate, the couple has four children, a married daughter, Anne Parker; Betty, Jean and George Jr., 9.

June 14, 1775—Birth date of U. S. Army. Continental Congress voted to raise ten companies of riflemen in Continental service and appointed committee to prepare regulations for the Army.

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DOUBLE DANGER—A "duplex" 7.62mm rifle cartridge has been developed and adopted by the U. S. Army that increases soldier's ability to hit a target at ranges less than 150 meters. The cartridge is being produced in limited quantities for both the Army and the Marine Corps.

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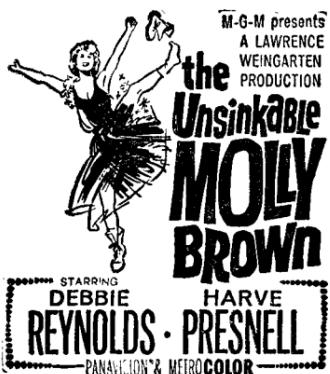
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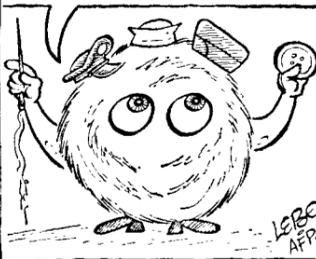
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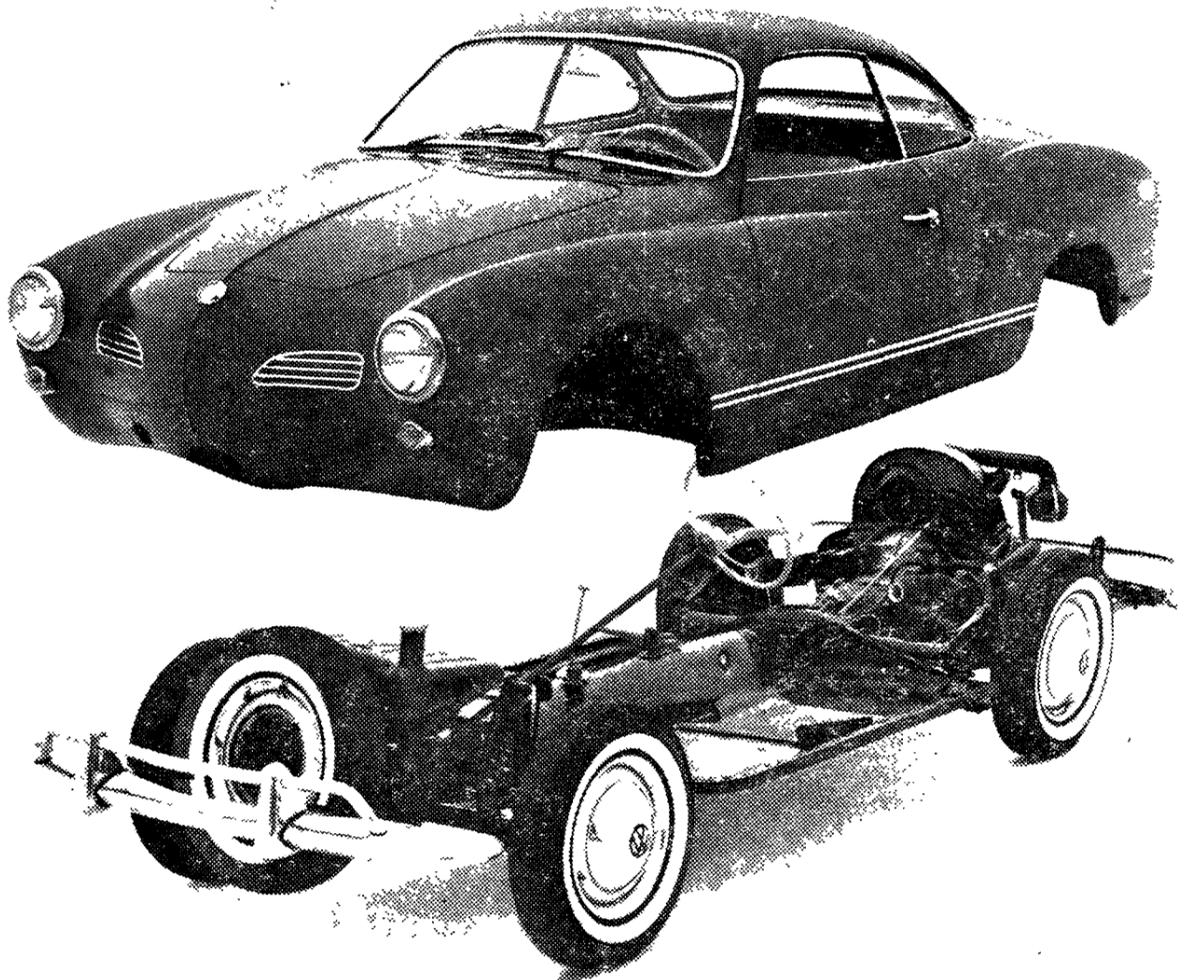
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