

Commanders Meet Here Next Week

MIRCOM will host the DARCOM Spring commanders' conference June 13, 14 and 15 with all working sessions to be held in Bldg. 5250 throughout the three days.

Gen. John R. Guthrie, DARCOM Commander, and all top DARCOM commanders will attend including LTG R. J. Baer, Deputy Commander for Materiel Development, LTG E. J. D'Ambrosio,

Deputy Commander for Materiel Readiness and commanders of all major subordinate commands. About 50 senior officials are expected to attend the conference.

Community leaders and senior officials of MIRCOM and MIRADCOM and their wives will attend a banquet at the Officers Club the night of June 13. Congressman Ronnie J.

Flippo will be the banquet speaker.

On June 14 Gen. Guthrie will be the reviewing officer for a retreat parade on the Redstone parade field at 4 p.m. in observance of the Army's birthday.

The conference is a periodic meeting of top DARCOM officials to review programs and plan future actions within the command.

The Rocket

VOL. XXVII; NO. 3
JUNE 7, 1978



LAX PROMOTED

... Maj. Gen. Means and Mrs. Lax pin stars on Redstone's newest general ...

Project Manager Gets First Star

Colonel Joseph O. Lax, Jr., Project Manager for the Army's Viper-Advanced Heavy Anti-tank Missile Systems, was promoted to Brigadier General Thursday at the Missile Research and Development Command.

Major General Charles F. Means, MIRADCOM Commander, pinned stars on the 46-year-old Georgian with assistance from Mrs. Lax.

A native of Savannah, Georgia, General Lax came to Redstone in March 1977 from Fort Ord, California, where he was commander of the 7th Infantry Division Support Command.

He is a 1953 graduate of the Citadel with a BS in chemistry, holds a master's degree in Industrial Management from Babson Institute, and is a graduate of the Command and General Staff College and the Army War College.

Both Viper and AHAMS, which he now directs for the Army, are anti-tank weapons under development for the soldier.

Viper, which will weigh less than 3.2 kilograms (7 pounds), is light, compact and shoulder-fired from a throwaway case that serves as launcher, and is substantially more powerful, accurate and effective than its predecessor, the M-72 LAW.

AHAMS is one of a variety of concepts MIRADCOM is looking at featuring new and improved capabilities in countermeasures and smoke environments, and boasting a faster, longer range missile which will have

a secondary self defense capability against aircraft.

Among overseas assignments, General Lax has served in Germany and Vietnam, and holds the Bronze Star Medal, Legion of Merit, and Army Commendation Medal with oak leaf cluster.

Gates 2 and 7 Open Monday

Limited use of arsenal gates 2 and 7 will resume next week.

Both gates have been closed since January when new security measures took effect.

Starting on Monday they will now be open for a short period each morning and afternoon, weekdays only, as a convenience to arsenal workers and others with vehicles that carry either Army or Marshall Center decals.

Undecaled vehicles attempting to use the gates will be stopped and turned away.

Both gates will be open for one way traffic into the arsenal from 6 until 8:30 each morning, Monday through Friday. They will reopen at 3:30 for one way traffic out. Gate 2 will close at 5:30, gate 7 a half hour later.

No change is planned in operating hours for the other six arsenal gates.

Piknik Pikins

Count the number of times the MIRCOM picnic date of June 17 appears in this week's Rocket. Be the first to phone the Public Affairs Office, 876-1400, and win two free picnic tickets.

Army Measures Arsenal Noise

An increase in the frequency and intensity of explosions at testing and training sites the Arsenal is expected this week, while an environmental noise study is conducted.

Persons on the arsenal and in areas close by may notice as various types of explosives are detonated for purposes of measuring noise and pressure. The explosions are part of a study of noises resulting from testing and training missions, and of weather conditions that sometimes cause unpleasant noise effects in residential areas on the perimeter of the arsenal.

Data collected during the study will be used in developing a system for predicting when the type of detonation and weather conditions might combine to cause noise problems.

Meteorological conditions will be studied using weather balloons which transmit data to a ground receiving station.

Explosives being detonated include small anti-tank missiles with warheads, training devices used to instruct military students in the handling of hazardous materials, and packaged charges used in demolition of munitions.

A total of eight missiles were scheduled for yesterday and today, from 8:30 to noon, at Test Area 6 near the west boundary of the arsenal.

Packaged explosives, five-charge sequences set to go off at 10-minute intervals, will be detonated at the Demolition Area on the south boundary in the afternoons through Friday between 1 and 3, and between 8:30 and 12, Friday morning.

Training devices will be exploded on Thursday between 8:30 and noon at ranges on the east and south portions of the arsenal.

The study is being conducted by the Redstone environmental staff and the Army Environmental Hygiene Agency, Bio-acoustics Division, based at Aberdeen Proving Ground, Md.

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Solar energy, future power

The energy crunch of the 1970s has focused increased attention on harnessing solar energy for power.

As a major developer and user of solar energy systems, the Department of Defense has over 100 solar heating and cooling projects in various stages of completion.

In addition to these projects, a number of photovoltaic (solar cell) applications which convert the sun's rays directly into electrical energy are being tested.

The Army is actively demonstrating the use of solar energy for heating and cooling buildings, heating water for domestic use, and generating electrical power. Projects include using solar energy in family housing and selected buildings at Army installations and Army Reserve Centers.

Forty-four Army projects are being provided solar energy systems. Five projects have been completed, four are to be completed in 1979, another seven by 1980, with the rest expected soon after. Solar projects being designed or completed include dental clinics in Arizona, California, Colorado, Georgia, Hawaii, Kansas, Kentucky, Louisiana, North Carolina, Oklahoma, and Texas; and Army Reserve Centers in California, Massachusetts, New Mexico, New York, and Texas.

Family housing, barracks, administration buildings, range operation centers, hospitals, field houses, maintenance shops, and solar ponds make up the other projects.

A solar "total energy system," a joint Army and Department of Energy project, is being designed, constructed and evaluated at Ft. Hood, Tex. The plant will provide the electrical power, space and cooling, and hot

water generating requirements for five selected buildings.

Also at Ft. Hood, a new battalion headquarters building with classrooms has been constructed and is using solar energy obtained from collectors on the roof.

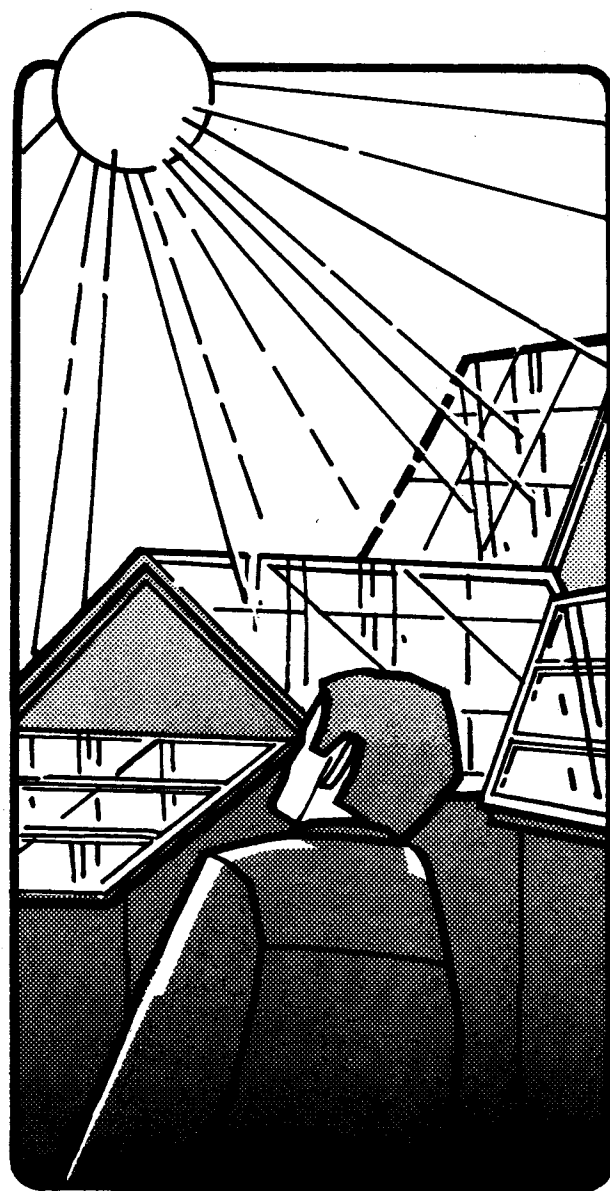
In Connecticut, two Army National Guard and two Army Reserve units have recently moved into the Nation's first solar-heated armory complex. The armory building is heated with a hot-water storage system; the maintenance shop is heated directly by the sun daily.

A solar energy system can be built into new complexes for about one-half the cost of installing the system in already constructed buildings. Even so, modifying existing buildings is economically feasible and a part of the Army's long-range program.

Photovoltaic or "solar cell" systems, in use for about 20 years, convert solar energy directly into electricity without the intermediate heat process. Solar cell power use began with the launching of Vanguard I in 1958.

The Army Mobility Equipment Research and Development Command (MERADCOM), Ft. Belvoir, Va., has prepared five projects covering a wide area of power size, electrical characteristics, and type of use planned. These projects include a small battery charger, radio relay system, truck-mounted telephone operator's switchboard, water purification plant, and remote radar.

The benefits of applying solar energy are many. Solar energy will ease the Army's burden of continually replenishing fuel and batteries; energy and cost savings will be realized in the reduced use and storage of petroleum products; and improved reliability,



availability and maintenance of energy-consuming systems will result.

Of all the possibilities for solar energy, heating water for domestic uses and heating and cooling building space show the most promise for the immediate future.

The success of the Army's program in all aspects of the solar picture will affect, not only persons in uniform, but, everyone dependent on reliable, long-term sources of energy . . . and that's all of us.

Sun: man's oldest energy source

Two hundred years before Christ, Archimedes used solar energy to set fire to an attacking Roman fleet by directing the sun's rays off large flat mirrors.

During World War II, Dr. Marie Telkes, a scientist, designed a solar-powered device to distill water contaminated with salt and other pollutants.

Elements of solar energy have been put to use for many years. The winds, generated

by the uneven heating of the earth's surface, have moved ships and explorers around the world. Two thousand years ago, Egyptians sailed barges down the Nile. Until the 19th century, wind-powered vessels dominated shipping; fossil fuel-driven ships gradually took over the seas. Balloonists and glider enthusiasts have used rising warm air currents to soar aloft for many years.

Since the earth was created, the sun has

been a source of energy. Man, animal and plant life have depended on its rays to maintain the temperature needed to survive.

Expanding the use of solar energy in today's environment offers many advantages. For example, unlike fossil fuels (coal, oil, natural gas), sunlight is abundant, dependable and free. When a gallon of oil is burned, it is gone forever. Solar energy will continue filtering through the earth's atmosphere to strike the surface whether or not it is harnessed. And solar energy is clean.

Problems do exist, however, in using solar energy. First, solar energy is spread out very thinly and must be collected and concentrated as only a small amount arrives in one place.

Secondly, solar energy is intermittent. The sun shines only a part of the day and may be concealed by clouds, so its energy must be stored until needed. If this diffused energy can be collected over a wide area and concentrated to required levels, tremendous quantities of "replenishable" power would be available for our use.

Solar energy is essential to man's survival. The homes we heat with fossil fuels would be a frigid -240 degrees Celsius (-206.2 degrees Fahrenheit) without the sun's warming rays.

Man has used solar energy sources in many ways for centuries. And with the dwindling supply of fossil fuels, the efficient harnessing of solar energy for heating, cooling and other purposes would provide a viable alternative energy source for the future. After all, the sun's rays will be available to provide a clean, replenishable source of power long after fossil fuel sources have been exhausted.

The Rocket

The Rocket is published weekly, on Wednesday. The publisher will receive editorial content for publication in the Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala. 35809, Bldg. 5250, Room A-134. Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P.O. Box 5351, Huntsville, Ala. 35805, telephone 533-2703, as representative of the publisher. The advertising office of The Rocket is located at 2400 Bob Wallace Avenue, Suite 210. Advertising deadline—both display and wanted—is 10 a.m. Monday before publication.

The Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for The Rocket are \$12.72 a year, or \$7.42 for six months, tax included. Mailing arrangements may be made with the publisher, P.O. Box 930, Hartselle, Ala. 35640.

Everything advertised in this publication must be made available for purchase, use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user, or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

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MG Meyer Congratulates The retiring Hightower

High Honor

Lonnie N. Hightower received the Army's second highest award for civilian employees, the Meritorious Civilian Service Award, when he retired from federal service as the final director of the Ballistic Missile Defense Systems Command's PAR Management Office.

The award was presented by MG Stewart C. Meyer, BMD Program Manager and Commanding General of BMDSCOM, in ceremonies that included the retirements of three other PAR Management Office personnel and dedication of a display of historical photos of the Safeguard-BMD System facilities.

Retiring with Hightower were Art Sims, Max Forbis, and Charles Quarles. The retirements marked the closeout of the last readily identifiable element of the organization that developed and deployed the System, the free world's first and only operational ballistic missile defense system.

Hightower served as a top-level manager in the Nation's BMD program for more than a decade, joining the Program as Deputy Director of Production and Logistics in 1968. He became Deputy Director of the Project Office in 1973 and later named Director.

As Director and finally as Chief of the PAR Management Office, Hightower managed the deactivation and disposal of all of the System, except its Perimeter Acquisition Radar, as directed by Congress in early 1976.

EEO an Important Part of Mission

MG Louis Rachmeller told members and guests of the Federally Employed Women, Inc., organization last week at their luncheon meeting in the Officers Club that he is committed to doing everything he can within the law to further equal employment within his command.

The MIRCOC Commander cited two reasons: EEO is the law, and EEO is part of his mission, "as much as making sure that Army missiles throughout the world are ready to fire."

Gen. Rachmeller told the FEW meeting, "I do not view EEO as a program limited to hiring and promoting black people. Black people are the predominant minority group in this employment area. They are — and should be — one measure of my program's success. Just as important, however, is what we accomplish for women," he said.

He told the group that there are some things he cannot do, such as bringing back jobs that have been taken away, and raising the grade point average. "I had my run at that," he said. "The boss listened, and then turned his pockets inside out. There, was nothing there."

"The best thing I can do for women workers is the best thing I can do for male workers and that is try as hard as I can to achieve some measure of stability," he said. "I am determined to get a year at least without a RIF and try to get folks settled down."

Since competition for jobs, promotions, and entry into career fields is going to be fierce, he advised women to look for the competitive edge through education and skills development.

He said mobility is very important now and will become even more so in the future, so women should make careful decisions about whether or not they can be mobile.

In conclusion, the General talked about

professionalism and team work. He said he had remembered Redstone as the home of professionals after he left here in 1973 and went to the Pentagon. He is looking for the kind of team he remembers, and, "The team I remember and the one I want is not a white male club," he said.

"As working women you take pride in the fact that you can do your jobs as well or better than any man. Fine. Do it that way. That's exactly what I need — that kind of performance."

"Good work does make a difference. The outfits that can do the job with fewer people and fewer dollars are the commands that are going to survive. The people who do the best work are going to get moved up."

"Each of you makes a valuable contribution to my team. I need you."

New Furniture

Comfortable wooden furniture is replacing institutional metal bunks and footlockers in Redstone barracks.

Wider, wood-paneled closets take the place of footlockers, and separate sleeping areas in the refurbished barracks. Three drawers help organize closet space. All closets are fitted with combination locks.

Additional storage space is provided in two drawers fitted under the lowest level of the new beds.

The beds are larger and heavier to accommodate more comfortable mattresses.

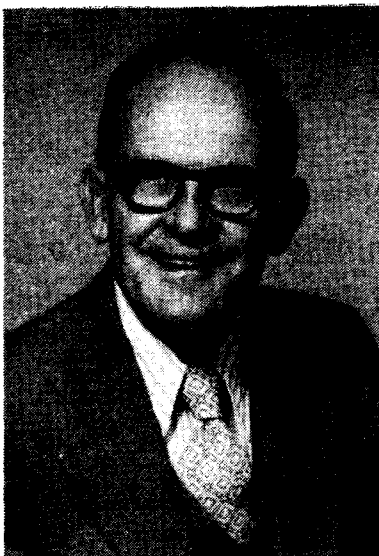
Day rooms in some barracks will also be outfitted with the new style of furniture.

All Redstone barracks are expected to have the new furniture by fall.

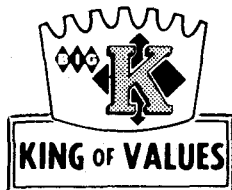
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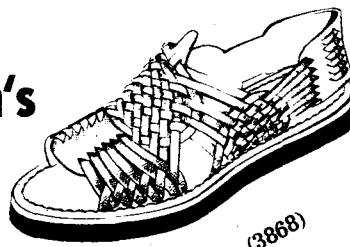


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Laser Induced Chemistry Cuts Costs

In a modern laboratory, a group of silent scientists peer intently into a closed, apparently empty glass vial. One of the men throws a switch, and the soft hum of machinery is heard. Within seconds small crystals begin to form on the walls of the vial. The staid and somber men, standing statue-like in their white lab coats, suddenly erupt in shouts of joy. The room is filled with the exuberance of success.

It happened that way in Miradcom's Missile Research Directorate not long ago. The apparently empty vial contained a colorless gas, B₂H₆. The thrown switch activated a laser beam, invisible because it operated at an infrared frequency. The crystals which formed were Decaborane, an important ingredient in missile propellants.

The scientists had good reason to be happy. Decaborane produced by conventional synthetic techniques costs about \$2,000 per pound. As a result of research conducted by Dr. James A. Merritt and his colleagues here, Decaborane could be produced by laser induced chemistry at a much lower cost.

"By using laser irradiation we can produce new chemical compounds in greater purity and higher yields than can be accomplished with conventional techniques," said Merritt. "This means cost is less."

According to Merritt, chemists produce new compounds synthetically by inducing chemical reactions within or between existing compounds. When molecules collide with sufficient energy, they reorient themselves to form new molecules. For example, when NaOH (Sodium Hydroxide) and HCl (Hydrogen Chloride) react, the different atoms change places, forming HOH (Water) and NaCl (Sodium Chloride).

The conventional way to induce chemical reactions is by heating the substances. Heating causes the molecules to move about faster. More collisions

occur, and more are reactive collisions, or collisions of sufficient energy to cause new molecules to form.

Thermal reactions present several difficulties to the chemist. Because both reactants and products are in a heat bath, all at the same temperature, molecules continue to collide after the desired products are formed. As a result, some of the products re-form the original compounds. Undesired side-products may also be produced.

"When the products revert to their original form, the yield is reduced," said Merritt. "And some of the side-products created interfere with the chemical engineering."

"For example, when decaborane is produced by means of thermal reaction, another solid, a polymer, is also formed. This polymer gums up the whole system. They have to shut it down, clean it up and get that polymer out of there."

"The polymer also presents another difficulty. B₂H₆ is explosive when it mixes with air at room temperature. If the polymer causes the container to crack, they could have an explosion."

According to Merritt, laser induced chemical reactions do not present these difficulties. "In LIC we stimulate specific reaction channels to produce desired products without side-reactions which detract from overall yield and purity," he said.

Merritt explained that instead of heating molecules to promote chemical reactions, a laser beam can be used to excite the vibration of atoms within the molecules at room temperature.

"We call this giving the molecule 'internal energy,'" said Merritt. "The molecule is not moving any faster, but is vibrating much faster. Thus we don't induce any more collisions between molecules than occur normally at room temperature, but the molecules have more energy when they do collide. More of the collision have enough energy to cause chemical reactions."

The greatest advantage of LIC is that it enables the chemist to excite only specific



Dr. James Merritt uses a computer to examine data on a laser induced chemistry experiment.

modes: that is, to control which molecules react.

"By LIC we cause chemicals to react in a selected reaction path to produce only the substances we want," said Merritt.

"Every molecule has fundamental vibrational bands which are unique to it," continued Merritt. "We irradiate the chosen molecule, the one we want to react, with a laser beam operating at a frequency resonant with a fundamental vibrational band within the molecule. Since the energy of the laser beam is the same frequency, or energy, as the vibration within the molecule, it is absorbed, resulting in a higher vibrational level. This internal energy causes the molecule to react when it collides."

"Side-reactions are prevented because other molecules have different fundamental vibrational bands. Since they vibrate at a different frequency, they will not absorb the energy of the laser beam, and will not react."

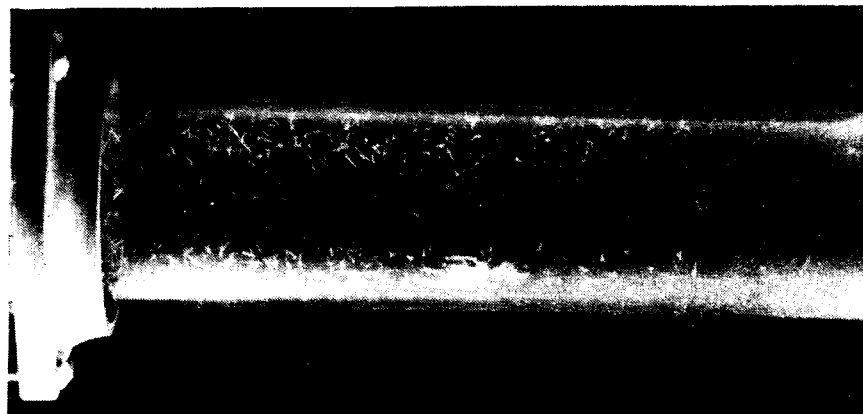
In addition to decaborane, MIRADCOM scientists have used LIC to remove trace impurities from Boron Trichloride (BCl₃),

a substance used in the electronics and plastics industries.

A tenth percent phosgene impurity exists in Boron Trichloride produced by conventional synthetic techniques. This trace impurity interferes with the efficient use of BCl₃ and makes its use more costly. There was no economical way to remove the phosgene without destroying the Boron Trichloride, but now, with LIC, the phosgene trace impurity can be completely removed without destroying any BCl₃.

Merritt and others in the Missile Research Directorate are now examining other possible applications for LIC. For example, they are experimenting with the use of LIC to produce pure silicon for semiconductors and difficult-to-synthesize refractory materials, used for high-temperature linings and coatings.

There should be many such uses for LIC, said Merritt, and they can all save the Army money. "The Army is a user of many products which industry, by using the new techniques of laser induced chemistry, can produce at a lower cost," he said.



Decaborane crystals produced by laser induced chemistry at MIRADCOM's Missile Research Directorate.

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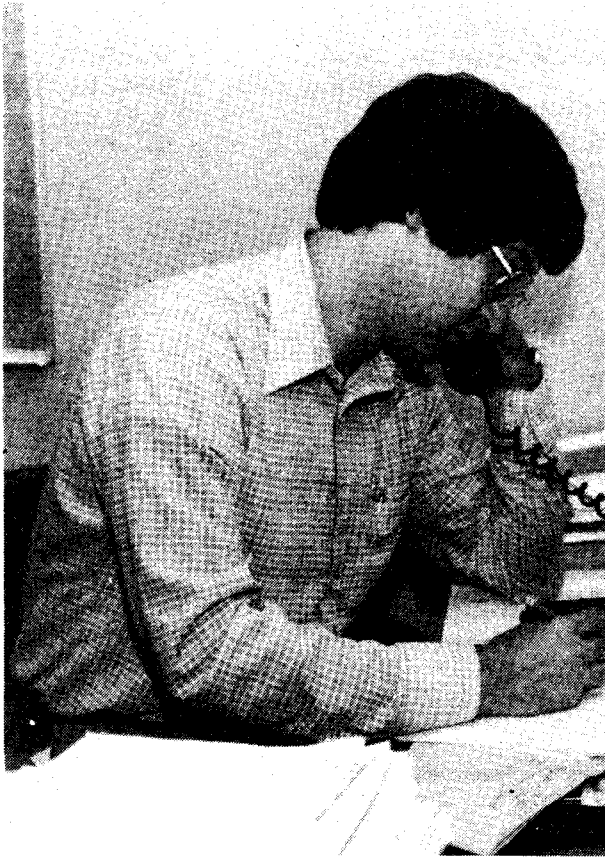
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McBride Named for Graduate Program



Samuel W. McBride

Samuel W. McBride of MIRCOM's Finance and Accounting Division has been chosen to attend the 1978 Army Comptrollership Program at Syracuse University in New York.

A competitive development program, it is designed to help the Army meet future needs in the financial management area. Graduates receive master's degrees in Army Comptrollership.

Only 10 Army civilians are chosen each year for this honor. McBride is the first Redstone civilian worker selected since 1968.

An operating accountant he began his Redstone career in 1969 as a co-operative education student from the University of Alabama at Tuscaloosa. He graduated in 1972 and joined the MICOM Cost Analysis Division as a DARCOM intern, and worked as an accountant there until assigned to Finance and Accounting in 1976.

He credits the Co-op program with giving him a headstart at Redstone by enabling

him to take on more responsibilities earlier in his career than he could have otherwise.

"The Co-op program gave me much of the training that has to be given to new employees to accustom them to Army procedures. So when I became an intern I was really ready to go to work. For me the intern program meant experience more than training," McBride said.

McBride was the Comptroller's representative at a three month long Source Selection Board in Granite City, IL, in 1973 while still an intern. He also represented the Redstone comptroller at a Rock Island Source Selection Board in 1975.

When McBride completes the Comptrollership program in August 1979 he hopes to return to work at Redstone.

"I enjoy working here. There are so many challenging assignments," McBride said.

"But," he added, "I am looking forward to the change right now. I have been here almost 10 years."

McBride and his wife Barbara are natives of the Huntsville area. Although both are enthusiastic squaredancers they hope to use their free time in Syracuse to take advantage of the winter sports, such as snow skiing, available in that area.

Trends in Fashion

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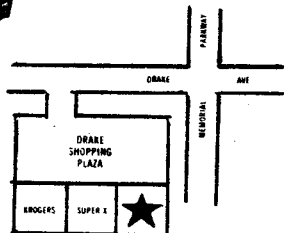
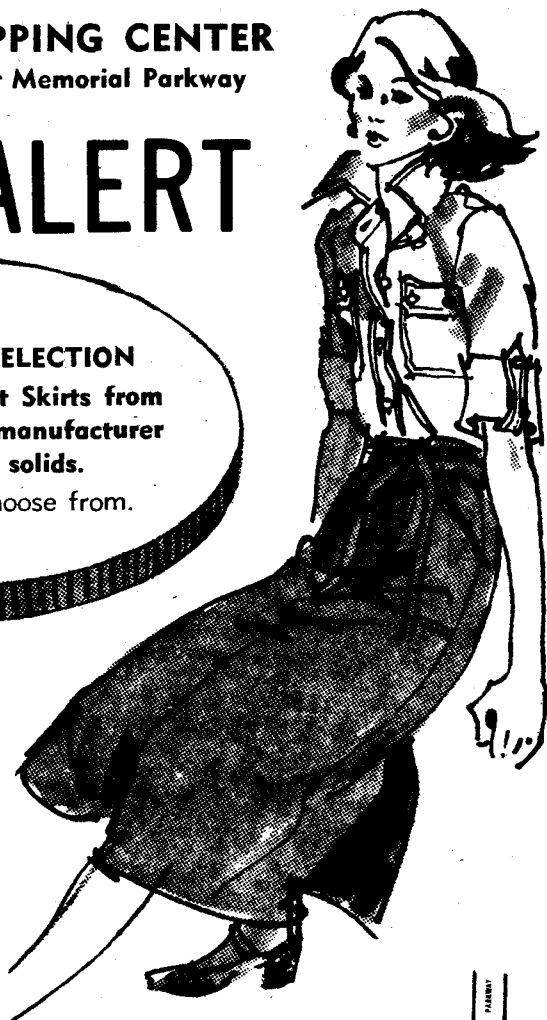
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Since the owners have purchased a larger farm in Tennessee, this presents an excellent opportunity for someone to purchase a tract of land near Huntsville. It is ideal for the person with a longing for a farm or for the investor who fully appreciates the potential of a Madison County farm as an investment.

DIRECTIONS:

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Any announcements made on Sale Date shall take precedence over Previous Advertisements. Information contained in this advertisement is derived from sources believed to be correct, but not guaranteed.

Club Honored

The Redstone Toastmasters Club was honored as the Outstanding Club in the Alabama when the state convention was held recently in Birmingham. There are 30 Toastmaster Clubs in the state.

The oldest club in Huntsville, Redstone was chartered in 1955 at the request of General Toftoy as a means to improve the communicating abilities of his officers.

Thus "grand daddy club" is no stranger to being cited for outstanding achievement awards. Six times Redstone has attained Top Ten status among the 3,000 Toastmasters International Clubs.

TMI is a non-profit group dedicated to improving the individual member's listening, speaking, thinking, and leadership. Persons interested in becoming a part of TM are invited to contact the Area Governor, Don Carswell, at 534-3922.

Now Hear This

Monday, June 12

The regular membership meeting of Local 1858 AFGE will be held at 6 p.m. in Bldg. 5250, Room A-115. All members are urged to attend.



Another Streamer — Jim Horwitz Redstone Club president, accepts the Outstanding Club banner for 1977 from District Lieutenant Governor Lee Watson.



NOTE: Announcements for "Now Hear This" must be received by noon Friday to appear in Wednesday's "Rocket".

Wednesday, June 7

The American Institute of Aeronautics and Astronautics (AIAA) meets at 6 p.m. in the Officer's Club.

F. A. Cleveland of Lockheed Corporation will speak on "Fetters and Freedoms: Factors that Constrain Innovation in Aerospace."

Reservations: Steve Harris, 881-1512 or 883-7357. No tickets will be sold at the door.

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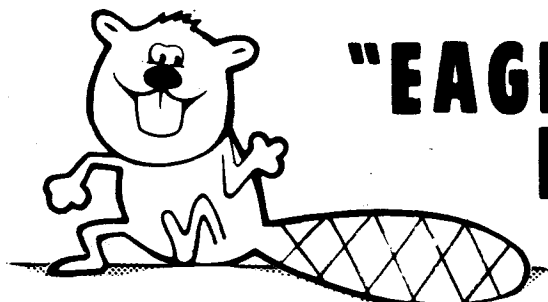
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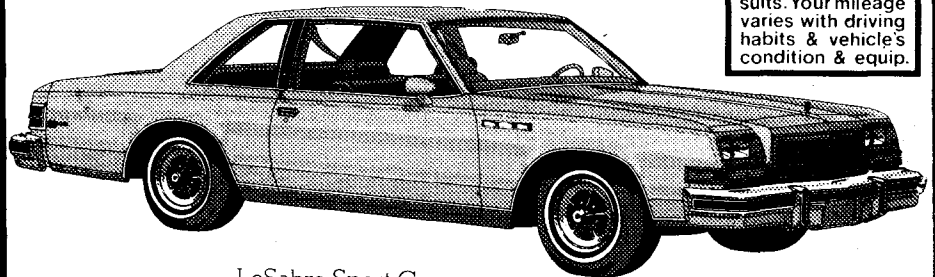
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MIRADCOM Physicist Earns Doctorate

Robert Morgan of MIRADCOM's Missile Research Directorate has received a doctor of philosophy degree in physics from the University of Alabama in Huntsville.

Morgan earned his degree with a study of sodium fluoride crystals, the results of which are to be published in the *Physical Review*. The Army, interested in developing the crystals as a computer memory storage device, supported Morgan's research.

According to Morgan, all sodium-fluoride crystals have defects in them: that is, they have vacancies where sodium or fluorine ions should be. Since each crystal always maintains a neutral charge, there must be a charge somewhere else in the crystal to offset each missing negative ion. X-raying the crystal causes these extra charges to fill the vacancies.

"When you put the crystal in an X-ray beam, it's like hitting it with a hammer," said Morgan. "Electrons in the crystal fall into the vacancies, replacing missing fluorine ions. The resulting configurations are called 'color centers,' because they cause the normally transparent crystal to turn pink."

There can be many aggregations of color centers in a crystal, said Morgan. One electron replacing a fluorine ion is called an "F-center," from the German word "Farben," or "color." When two adjacent vacancies are filled with electrons, this configuration is called an "M-center," in honor of German scientist Ernst Mollwo, who studied color centers in the 1930's.

"The M-centers have less symmetry than F-centers," said Morgan. "Whereas the F-center looks the same from any direction, M-centers look different from different positions. This enables them to be used as a computer memory storage device."

Morgan explained that by irradiating the crystal with polarized light, electrons in the

M-center are caused to wander around the crystal and change places with fluorine ions, resulting in two different orientations of M-centers within the crystal.

"We can readily distinguish these two orientations or positions," said Morgan. "By calling one 'zero' and the other 'one,' they can be used as a binary bit in a digital computer's memory."

Digital computers use pieces of information which are mathematically coded. These pieces are called "bits." The mathematical code used to distinguish these bits is based in the binary system, which deals only in two digits, zero and one, but in limitless combinations.

"Sodium fluoride crystals would have great advantages as computer memory

devices," said Morgan, "because they can store a great deal of information in a very small area and because the information stored on them is very stable, even at high temperatures."

If all this sounds complicated, it is. Morgan spent four years studying the sodium fluoride crystal, but says he has not yet discovered all its secrets.

"Physics is an incredibly complex subject," said Morgan. "What you thought you could investigate in three or four days turns out to be a lifetime of work."

Morgan plans to devote, if not a lifetime, at least the foreseeable future, to continued experimentation with the sodium fluoride crystal.



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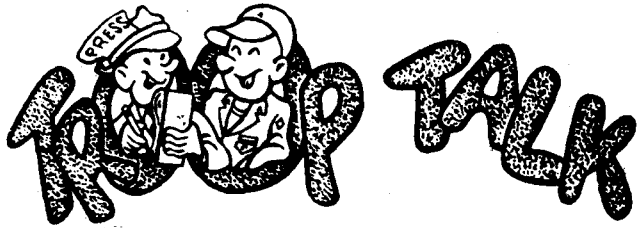
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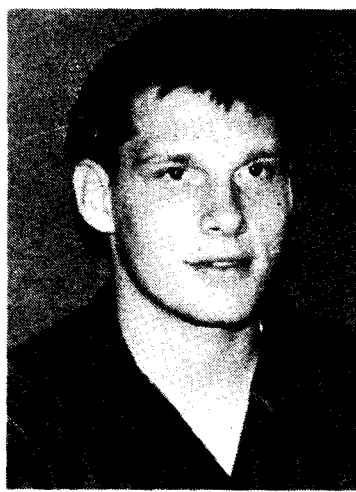
What do you think of Redstone's religious program?



Pvt. Rickey Pryor, 7th SC—"I think it's good because it gives people a chance to be with people, like a family, when they're away from home. The prayer breakfast gives people a change of pace from a regular day, and it brightens your whole day. The problem here is they don't cater to Jewish people. The church, mess hall, and Army don't observe the Jewish holidays. I think that's wrong. The religious program here needs to recognize more faiths than protestants and catholics."

Spec. 5 Morgan Sutton, Jr., Co. A—"We have a nice chaplain program here. I think that Chaplain Martin does a lot for the troops. He offers courses in theology dealing with the Bible. I think he should be in school brigade because he does so much for the troops. I think we as young soldiers should look more into giving and working to support our chapel. I think our creator will reward us in his own way."

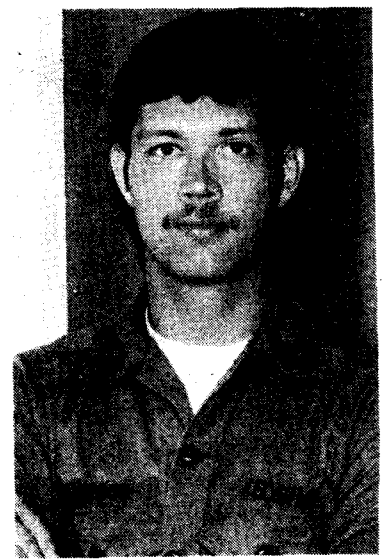
Reserve June 17
— MIRCOC picnic



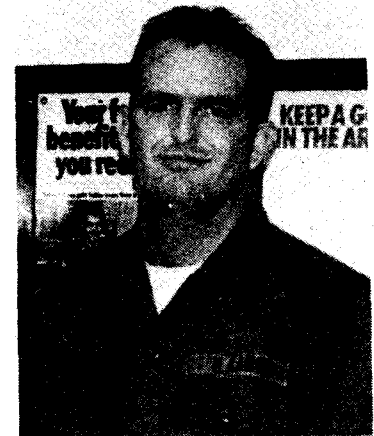
Pvt. Jimmy Cagle, 5th SC—"We went down to the chapel for in-briefing and talked to the pastor, he seemed real enthusiastic. We went to the prayer breakfast, got together and talked, and had a real good time. They have a good program. The chaplains here are super nice."



Spec. 4 Magdalene Ilich, Co. B—"I've been to several of the masses here on post, and I've really enjoyed the sermons in all of them. The chaplains are very kind, willing to help and lend a hand. I enjoy the singing group too. I recommend all military personnel on Redstone to go and take advantage of the religious program here."



SSG Dale Dawson, 5th SC—"I've gone to a couple of the prayer breakfasts, and enjoyed the fellowship. To me, it seems like many soldiers think it's more important to sleep in on Sunday mornings. Those who do must feel that it's more important than religion. But the services are there for those who want them."



Spec. 5 Daryl Tomlinson, Co. A—"I believe it's fantastic. The program involves an awful lot of activities. The chaplains programs are great, it gives a good variety of speakers and guests so no matter what religion or sect you belong to, you will always gain the spiritual guidance you need for the week."

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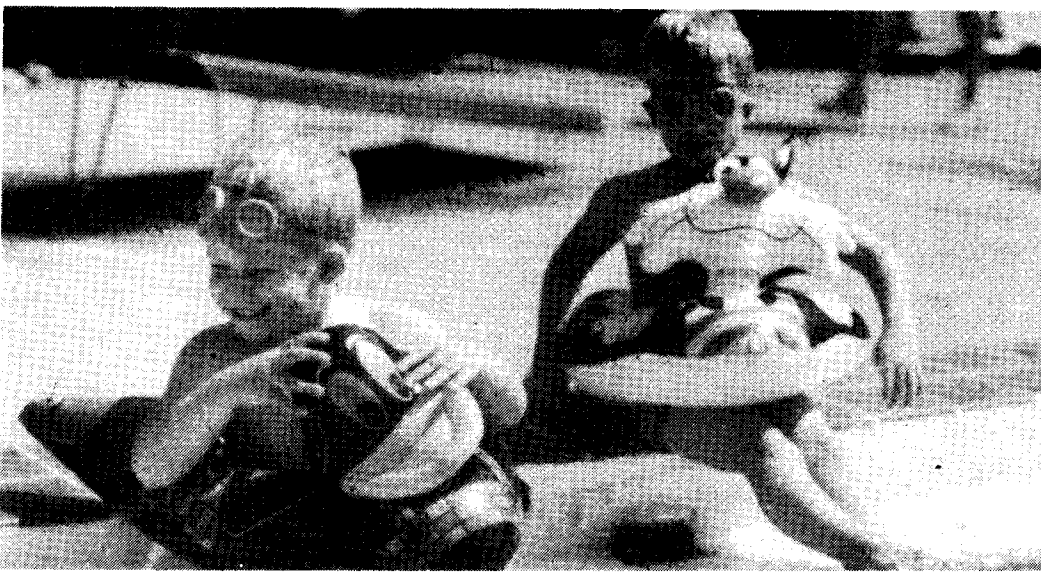
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SOLDIERS FLIP — Private Phillip Barden of the 4th S.C. is caught at the peak of a full gainer. Soaring temperatures have sent many soldiers diving for the comfort of the Arsenal's recently opened pools.

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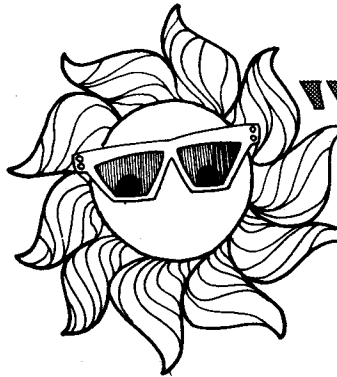
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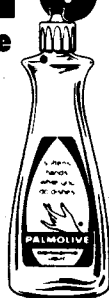
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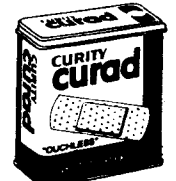
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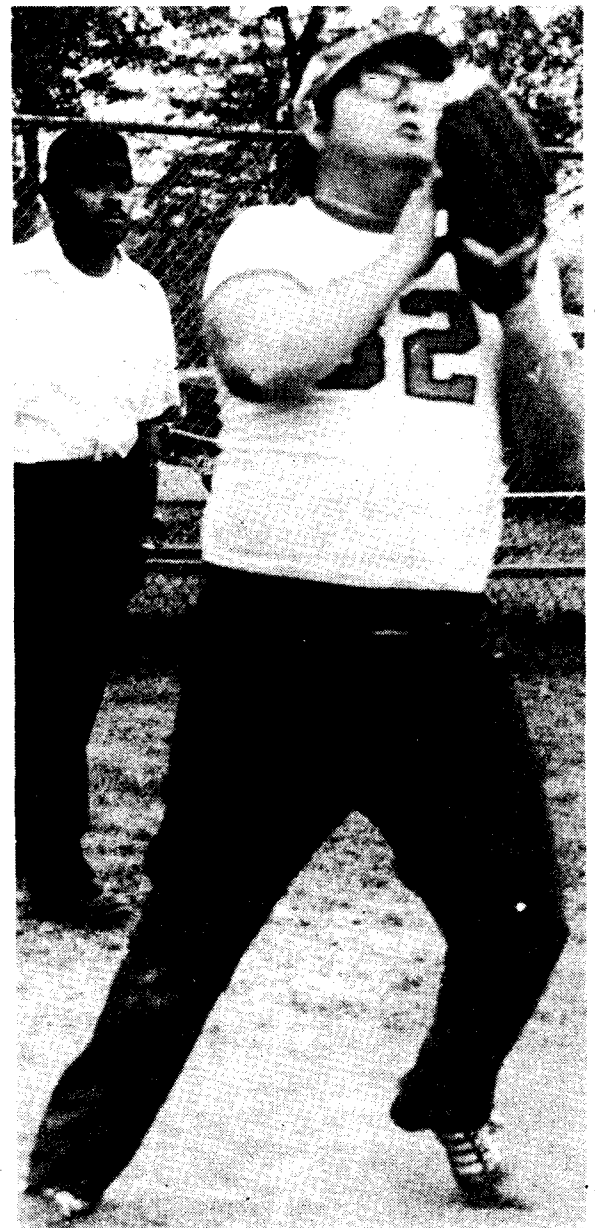
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Meddac	3	2	.600	2	8th SC	3	2	.600	1½
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Miradcom	1	5	.167	4½	95th SVC	3	3	.500	2
Airfield	1	5	.167	4½	7th SC	2	4	.333	3
Co. C	1	5	.167	4½	EOD	2	4	.333	3
					Mircom	1	4	.200	3½

Last Week's Games

95th SVC 10, EOD 9
Co. A 12, 5th SC 9
Marines 11, Miradcom 9
Meddac 24, Co. C 19
7th SC 10, Mircom 8
8th SC 8, Co. B 5

6th SC 6, Airfield 1
291st MP 14, 4th SC 3
EOD 7, 7th SC 5
Co. A 17, 95th 10
Miradcom 10, Co. C 9
Marines 14, Airfield 13

Upcoming Games

Tonight
6:00 291st MP vs. Marines
8th SC vs. EOD
7:30 6th SC vs. Meddac
Mircom vs. 5th SC

Monday
6:00 Mircom vs. 6th
5th SC vs. Meddac
7:30 Co. A vs. Co. C
EOD vs. Marines

Thursday
6:00 95th SVC vs. Miradcom
8th SC vs. 291st MP
7:30 Co. B vs. 4th SC
7th SC vs. Airfield

Tuesday
6:00 8th SC vs. Airfield
95th SVC vs. 4th SC
7:30 7th SC vs. 6th SC
Co. B vs. 291st MP



CULTURAL EXCHANGE — Alan Baker and Major Clinton A. Hodder initiate each other in the mysteries of cricket and baseball. Baker, from London, England, has worked for the last two months in the United Kingdom's Lance-Tow Liaison Office here. Major Hodder, now chief of the Lance Foreign Military Sales Group, will be going to Donnington, England in June as an exchange officer with the British Army. Each is trying to learn about the other's national pasttime. They agree that baseball and cricket have some similarities, although in a cricket test match, 400 runs is an average score and some matches can last five or six days.

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Shortages

(ARNEWS) - Interested in gaining a foreign language and an intelligence MOS?

Milpercen is looking for qualified enlisted men for intelligence MOS 96C and 97B. MOS 96C, interrogator, has a critical shortage.

Requirements for these MOSs are in Chapter 17, AR 614-200. Applications should be processed locally and soldiers should remind personnel officials that paragraph 17-10 (1,c) no longer applies.

E-5 Scores Up

(ARNEWS) — E-5 promotion scores, using the new promotion point worksheet, tended to increase, according to a DA official.

The E-5 promotion scores, effective June, contrast with E-6 scores that tended to drop when figured on the new worksheet for May.

Part of the explanation is the result of E-6 candidates not receiving points for high school education, while E-5 competitors still get up to 60 points, the official said.

Sale of Tickets for Picnic Ends on Friday

Going, going—

If you have been planning to attend the MIRCOC picnic, but have not put in your bid for a ticket, the gavel is descending. Ticket sales will close Friday, June 9. The early close-out for the June 17 picnic is necessary for meal planning.

To be held at the Civilian Welfare Recreation Area, the theme is just a good time get-together. Games for all ages have been planned. The famous three-legged race, egg race, tug-of-war, horse shoe pitching and volleyball are among the events.

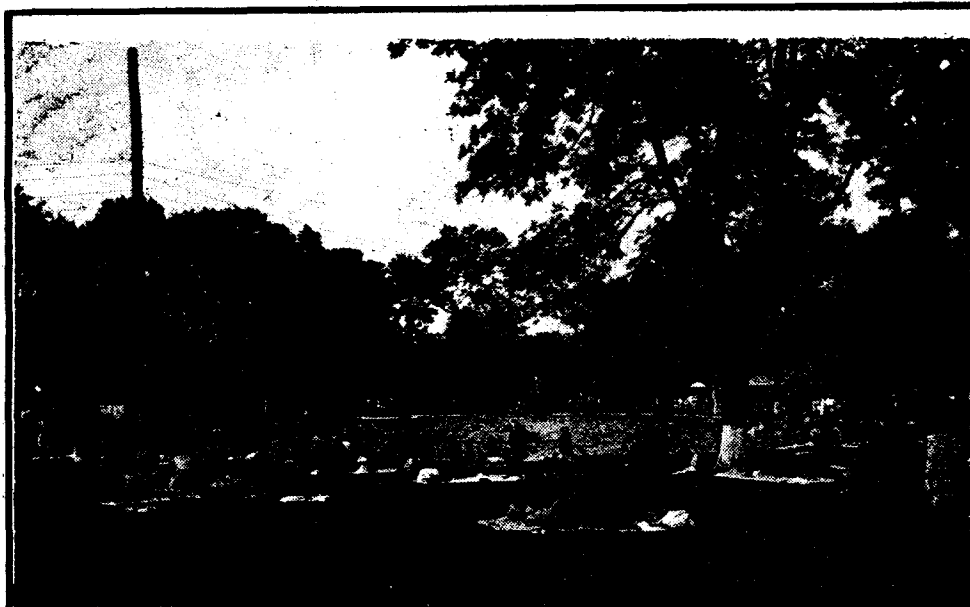
All military and civilian employees of MIRCOC are eligible to attend. Additionally, retired military and retired civilian employees and families formerly associated with MIRCOC or its predecessor organization can attend.

Concessions will go on sale at 10 a.m. and conclude at 4 p.m. Soft drinks, ice cream and beer will be available. Money will not be taken at the stands, but at a central stand where concession chits will be sold.

Dinner will be served from 11:30 to 2. Tickets for the picnic lunch which includes fried chicken and trimmings — even the plastic utensils — can be obtained from any of the following persons:

Doris Agnew	6-1127	Sharon Hall	6-2291
Alice Balleu	6-2376	Thomas DeLong	6-1571-1985
Peggy B. Durand	6-2635	H. E. Love, Jr.	6-7216
Patricia T. Bailey	6-2866	Barbara Chandler	6-5859
Sarah B. McNeill	6-3305	Jan Dill, Pat Orr	6-2540-5386
Barbara Reynolds	6-4577	Gay Porter	6-3974
Ralph Perrill	6-1400	Mildred S. Hanby	6-2029
Dianne Wood	6-4905	2LT Lawrence	6-5154
Dean McPherson	6-7333-5610	Wesley Brown	6-3993
Barbara Smallwood	6-3142	Betty Gass	6-2111
SP5 Mire	6-2337	Margie Meyer	6-3591
CPT Albert Chapman	6-2186	CPT James Fitzpatrick	6-2400-2408
SSG Brewer W. Laggett	6-4449	Marian S. Cjachowski	6-7240
Angie Craig	6-4678	Robert Lipscomb	6-5274
Carlotta Berryhill	6-1584	Roy C. Rogers	6-5185
George Hudson	6-5222	COL Morse	6-3435
Samuel K. Nesbitt	6-7143	Kaye Deck	6-2805
Jo Ann Smith	6-5604-1430	Jean M. Rossman	6-4504
Mr. Robert O. Hunter	6-2251	A. Z. Whitaker	6-2833
Nadine Peck	6-1960	LT. Beckett	6-5468
James G. Coble		LT. Young	6-6269

Fun and games, June 17 — MIRCOC picnic



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LANE MICKLE Residential Marketing Mgr.
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MLS



Patriot Successful in Multiple Target Testing

WHITE SANDS MISSILE RANGE — Patriot, the Army's new plane killer, wrote a new chapter in air defense history by intercepting multiple targets last week in sunny skies over the New Mexico desert.

Major General Oliver D. Street, III, Patriot Project Manager hailed the multiple engagement "... a major milestone not only for the Patriot program but for the Army's air defense arsenal."

"We demonstrated that Patriot can launch, track, guide several missiles and score intercepts against multiple and maneuvering targets, in a countermeasures

environment," General Street said of the flight test.

"We had said Patriot could do it. Now we have proved it."

None of the three missiles, fired from the same launcher only seconds apart, carried live warheads. Two passed well within killing distance of their intended targets, a full-sized jet (PQM-102) and two Firebee drones, flying at different ranges and altitudes.

One missile self destructed, as programmed, when it failed to received guidance commands.

This brings to 31 the number of fully

guided flights thus far in the Patriot program, acclaimed as one of the Army's most successful flight test programs ever.

Being developed to replace both Hawk and Nike Hercules missiles, Patriot will be the cornerstone of field Army air defense against medium to high altitude aircraft in the 1980s and beyond.

Raytheon Company is Patriot prime contractor and Martin Marietta is principal subcontractor for the missile canister and launcher. Thiokol Company is subcontractor for the single stage, solid propulsion unit.

CAP Seeks Members

Cadet program of Huntsville Civil Air Patrol unit is seeking new members, and offering unlimited opportunities for boys and girls, ages 13 through 17, leading to the aerospace age of tomorrow.

CAP provides cadets a chance to learn the basics of aerodynamics, navigation, aircraft and rocket propulsion systems, aerospace history and the impact of aerospace vehicles on society. Equally important are the experiences Cadets receive in leadership training, moral leadership sessions, and physical conditioning.

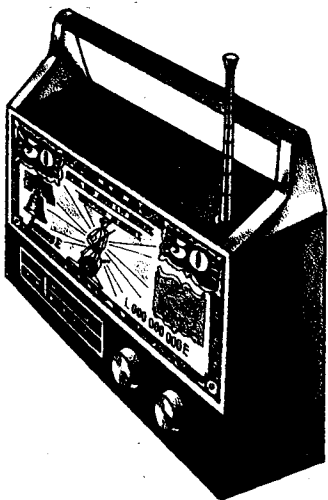
Cadets have the option of spending a week at an Air Force base each summer living the life of a regular airman. They use the same quarters, food service and recreational facilities as Air Force personnel and fly orientation flights in Air Force aircraft.

Interested persons may call Lt. Col. McGill at 534-1846 or Captain Selman at 881-3966, for further information.

Not Adverse

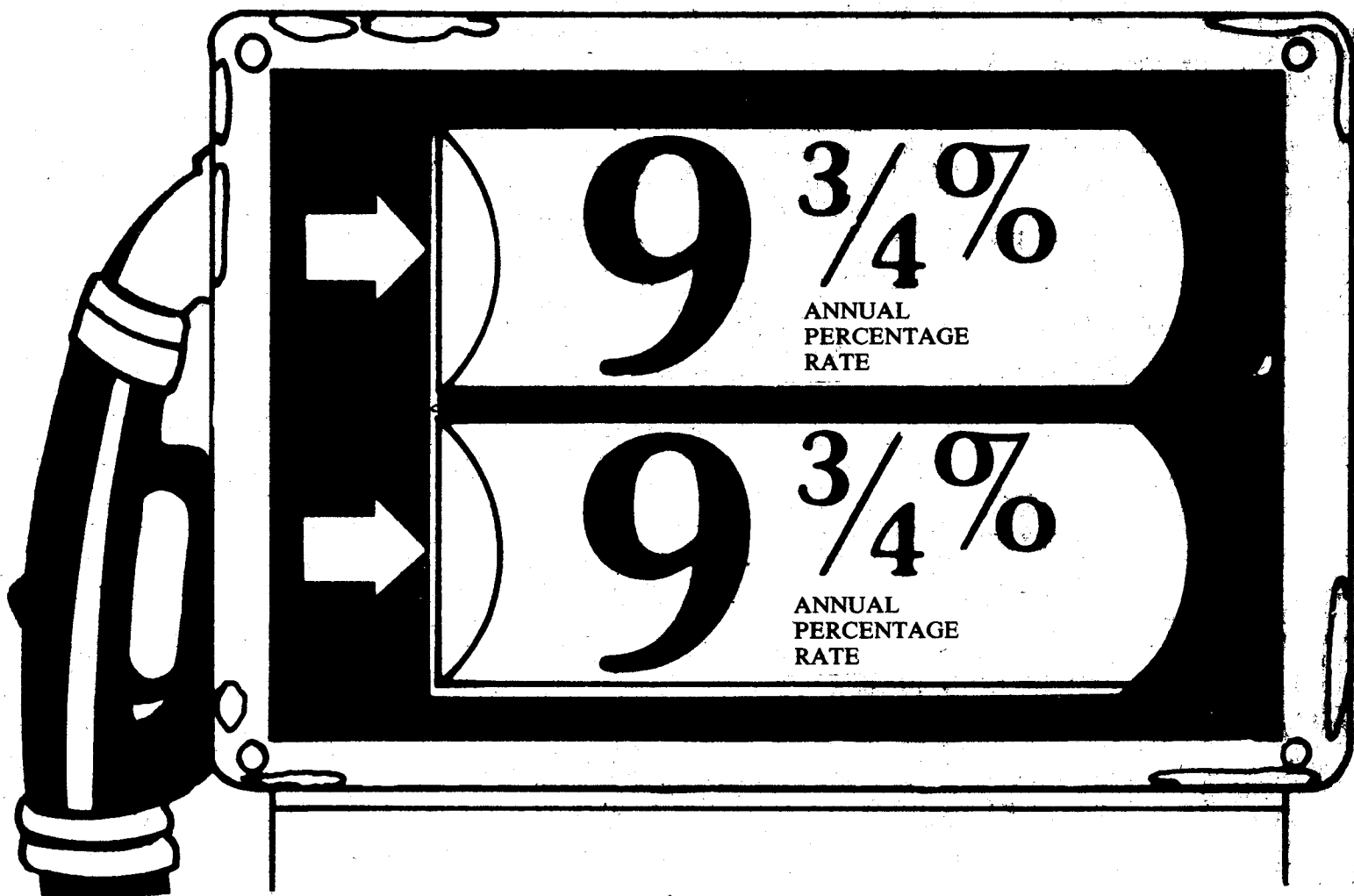
(ARNEWS) — Officers and enlisted men who fail to complete courses and degree programs due to medical, compassionate and other "no fault" reasons will receive academic evaluation reports. However, these reports will not be considered adverse, according to MILPERCEN officials.

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\$4,000.00	\$128.60	\$629.60	\$4,629.60
\$4,500.00	\$144.67	\$708.12	\$5,208.12
\$5,000.00	\$160.75	\$787.00	\$5,787.00
\$5,500.00	\$176.82	\$865.52	\$6,365.52
\$6,000.00	\$192.90	\$944.40	\$6,944.40
42 MONTHS			
\$3,500.00	\$98.69	\$644.98	\$4,144.98
\$4,000.00	\$112.79	\$737.18	\$4,737.18
\$4,500.00	\$126.89	\$829.38	\$5,329.38
\$5,000.00	\$140.99	\$921.58	\$5,921.58
\$5,500.00	\$155.09	\$1,013.78	\$6,513.78
\$6,000.00	\$169.19	\$1,105.98	\$7,105.98



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Army Food Judges Circle the Globe

An Army career is supposed to broaden your experience, not your figure. But soldiers assigned to the Connelly Award judging team can have trouble keeping their waists in line.

The Phillip A. Connelly Award for Excellence in Army Food Service is presented annually to the best large, and the best small dining facilities in the Army.

Each year the Army and the International Food Services Executive Association select a team composed of two soldiers and a civilian representative to judge the finals in each category. During a six week tour of eating and evaluating, these teams sample the service of the winning facility of each major Army command in the world.

Last week major Daniel Kowalewski, Captain Thomas Hunt, and Robert E. Droppa of Johnson and Wales College of the Culinary Arts, inspected Redstone's Dining Facility No. 2, the DARCOM finalist in the large dining facility category.

Redstone was the fourth stop for them. The team arrived at Redstone from Germany. The next stop on their tour was Korea.

Results of the 1978 Connelly competition will be announced July 1.

"We've eaten very well in all the dining facilities," Hunt said.

This is high praise from men who go about dining facilities plunging thermometers into roasts and unsuspecting chafing dishes, investigating the service and the books, noting sanitation infractions, and counting



Droppa and Kowalewski speak with CW2 Gerald Johnstone

the number of flies who enter without a meal card.

"But," Kowalewski said, "Judging the dining facilities is only part of the team's duties. Briefing the commanders about the Army Food Services Programs is a very important function of our tour."

High standards in Army food depend on the commanders' interest. When commanders are interested the food services at their facilities will be good. Fortunately most Army commanders realize how important good food services are to the well-being of their soldiers.

Today's Army dining facilities are under constant scrutiny to assure the quality of their services. Although the Connelly in-

spections are important as evaluations and incentives, they represent only a fraction of the food service inspections conducted by the Army each year.

Kowalewski is the chief of an Army Food Manager's Assistance Team. Hunt is an Environmental Science Officer, and Droppa is an associate professor in the Restaurant Hotel Division of Johnson and Wales College.

Despite the familiarity of the duties, the competition imposes some unfamiliar hours on its judges.

See next page

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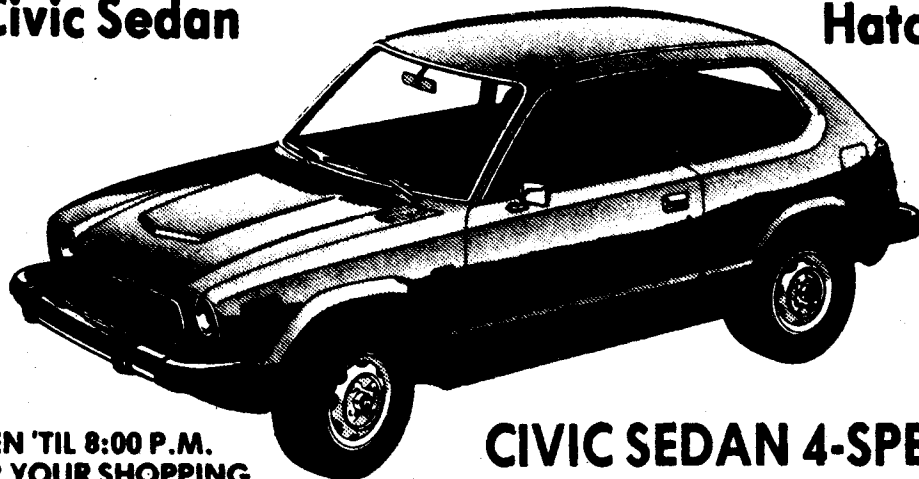
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What the world is coming to. CVCC

Judges



Hunt inspects the facility pantry.

Connelly judges observe operations at the competing facilities even before the facilities are opened in the mornings. A 5:30 facility opening can mean a 3 a.m. wake-up call for the judges.

On the day the judges arrived in Huntsville they had reported for duty at 5:30 a.m. in Germany. They arrived in Huntsville at 10:30 that same evening.

"Time changes are the worst part of the assignment," Hunt said. "Fortunately we don't have to evaluate a facility every day."

However, the difficult hours have not kept the judges from enjoying their assignments

or dulled their appreciation of today's Army food services.

"I am constantly amazed at the professionalism of the Army in changing the old Beetle Bailey mess sergeant concept," Droppa said. "Operating a dining facility is now a dignified career."

Apparently other specialists in the culinary arts agree with Droppa.

Army chefs captured the Grand Award for Best Showing at the National Culinary Arts Salon and Exhibition in Chicago last May. The 19 member Army team won 58 awards, including 17 first place, for their preparation of meats, desserts and other foods. The competition included some of the top hotel and industrial chefs in the U.S.



Kowalewski discusses the facilities services with soldiers who eat at No. 2 every day.

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Soldier's Flying Saucer No UFO

Sp4 Jimmy Wilson knows more than the average person about flying saucers. He is building his second which incidently is the second one he has ever seen.

"People look at me like I am a bit of a fruit cake when I mention the craft as a flying saucer," said Wilson. "I am about to quit using the name. But it looks like one because of the way I want it to fly."

The circular, balsa wood craft features lift through a jet of air forced out the lower side of the saucer. The dome on top has the intake.

"The one I built when I was assigned in Alaska had some errors, but it did lift off. I found that the hull began to rotate and it would settle. It was driven by one .049 model aircraft engine.

"This one I plan to power with two .819 engines. The props will travel in opposite directions so the hull will stabilize."

Built into the craft which resembles two saucers, one turned over on top of the other, is an internal air passage. The intake is located at center of the top. Air is exhausted on the lower side through a narrow circular slot about halfway from the center to the outer edges. Nearing completion, the craft, without engines, weighs in at 7 ounces and is 3 feet in diameter.

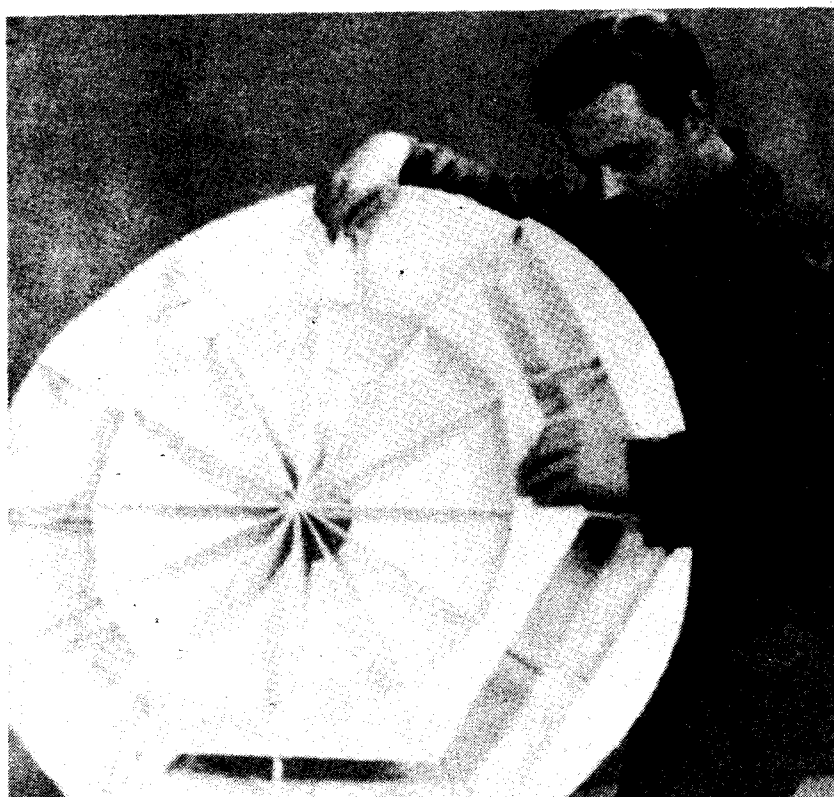
The fact that he is struggling with many aeronautical problems does not deter Wilson. Lack of information does, so he has spent much time in libraries looking through any data which might assist him in deciding how to proportion the machine.

"Right now, I want to get it to lift, or hover. Later I would like to make a vent

arrangement which would cause it to move horizontally. I would like to use a remote control device to guide it. I think it could be made to move in any direction."

Wilson is not certain why he builds flying

saucers. There are two things about which he is certain—he bought out the entire supply of balsa wood at the PX and he determines to prove wrong the statement of an acquaintance: "It will never fly."



FLYING SAUCER — Sp4 Jimmy Wilson adds another piece of skin to the lower side of his 'flying saucer.' The model will be a vertical rise craft. It will be powered by two model aircraft engines, one located in the area where the struts appear to converge. He will

cut them away to allow room for the prop and engine. Much of the structural strength will result from the shell.

June 17 for you — MIRCOM picnic

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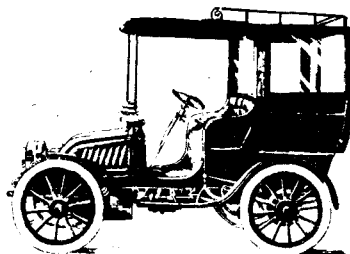
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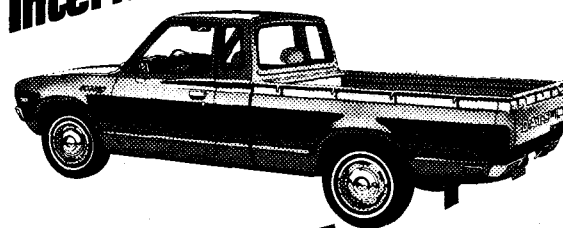
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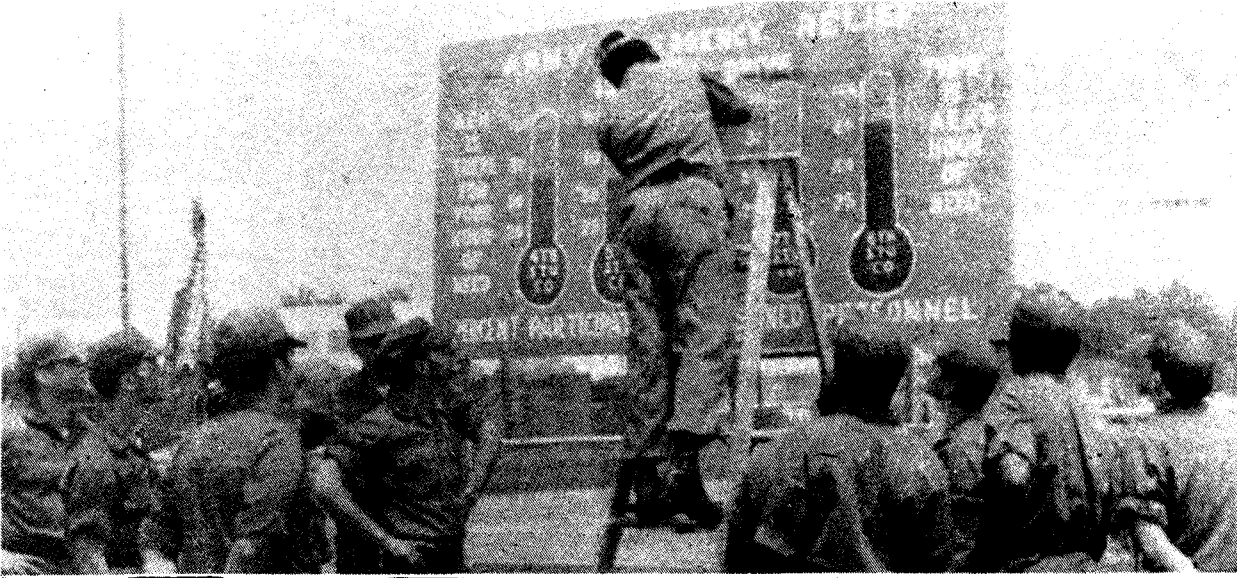
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The following disclosures are made to all share certificate purchasers pursuant to regulations promulgated by the Administrator of the National Credit Union Administration (12 C.F.R. 701.35, Shares Accounts and Share Certificate Accounts).

1. Share certificates will be issued in a minimum amount of \$1000.00 and in increments of \$100.00 above the minimum amount, and when issued may not be reduced below the original amount. No dividends shall be paid on share certificates which have been issued for less than 90 days.

2. Dividends on share certificate accounts shall be credited to the member's regular shares account quarterly and will be paid on the basis of the actual amount of the certificate. No dividends will be added to the share certificate account and, therefore, will not compound unless left in the regular shares account.

3. Federal regulations prohibit payment of dividends in excess of available earnings.

4. Except as otherwise stated herein, in the event of a withdrawal of principal from a share certificate account before maturity the dividend rate on the amount so withdrawn shall be paid to the date of such withdrawal at the then current rate on regular shares accounts for the period since issuance or renewal of the account (whichever is later), less ninety days.

5. Notwithstanding the foregoing, funds in the share certificate account may be withdrawn without penalty:

(a) Upon maturity;

(b) If the withdrawal is made subsequent to the death of any owner of the share certificate account;

(c) If the withdrawal is made pursuant to Article III, Section 5(e) of the By-Laws of Redstone Federal Credit Union (pertaining to termination of membership under certain conditions);

(d) The share certificate account is part of a pension plan which qualifies or qualified for specific tax treatment under Section 401 (d) or 408 of the Internal Revenue Code and withdrawal is made to effect distribution of the funds evidenced by such account following the participant's death or disability or upon attaining not less than 59½ years of age; or

(e) Such withdrawal is made as a result of the voluntary or involuntary liquidation of the Redstone Federal Credit Union.

6. In the event that a share certificate account is not renewed at maturity the account will be converted to a regular shares account and receive dividends at the rate then paid on regular shares accounts.

7. Membership in Redstone Federal Credit Union will terminate upon maturity of a share certificate account, unless renewed, if the holder does not have, establish or otherwise make provision for a shares account or share certificate account in addition to the share certificate account which is maturing.



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Good Ideas Pay Rich Dividends

Robot cars and dummy rounds were the basis for cash awards made during May through the incentive awards program.

Joseph D. Smith of MIRADCOM's Engineering Lab received \$1515 for suggesting the use of a remote-control, electric car as a target in Hellfire tests.

"The tests use a tank as a target on occasion, but Headquarters told us we could not use tanks without protecting them. Hellfire would take them out of commission, and tanks are expensive to replace and repair," Smith said.

However, the additional armor, fire control devices and protection needed for the tank crew in a Hellfire test cost over \$230 thousand per tank.

"I had the idea we could do the job better if we used an automobile of some kind," Smith said.

"I chose an electric car. We installed radio control so the car could be controlled



Smith's Tank with Jim Hill at the controls.



Smith

at a distance, eliminating the need for a crew and their protection. We can also build a mock-up on the car, so it looks like a tank. But it's a lot cheaper to repair."

Smith's suggestion saved the Army \$213 thousand last year.

James H. Love and Phillip W. McGregor of the Engineering Lab also saved the Army money by substitution.

Love and McGregor suggested the use of metal dummies in place of training rounds in tests of wire-bound munitions containers.

"We had the dummies made up to the same weight and center of gravity as the training rounds used in the tests," Love said. The dummies are used in the rail hump tests and in the air drops.

Love added, "Some training rounds continue to be used in the tests to serve as control units."

Love and McGregor were each awarded \$507.50 for their suggestion.

Harvey W. Greenland of the Pershing

Project Office received \$1280 for a different type of suggestion.

Greenland noticed many of the Pershing Rotary Inverters scheduled to be rebuilt in FY 1978 did not need rebuilding. He suggested the Army examine their supply requirements for inverters.

The examination resulted in a substantial cost savings for the Army, and the cash award for Greenland.

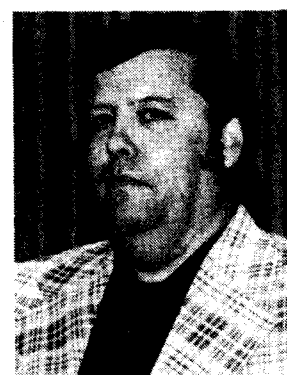
Other cash awards went to: Wiley N. Christopher, \$25, BMDSCOM; SFC Willaim

E. Haskins, \$75, MMCS; Wendell C. Lybrand, \$50, Metrology and Calibration Center; SGT M. D. Nagel, \$100, RASA; Donald F. Pettigrew and Andrew Reiland, both \$75 winners from Materiel Management; and Wesley C. Ruth, \$340, MMCS.

Certificates of Achievement were awarded to: James E. Bunnell and Timothy J. Dart, both of Procurement and Production, MIRCOM; and Charles S. Williams, Maintenance and Engineering.



Greenland



McGregor



Love



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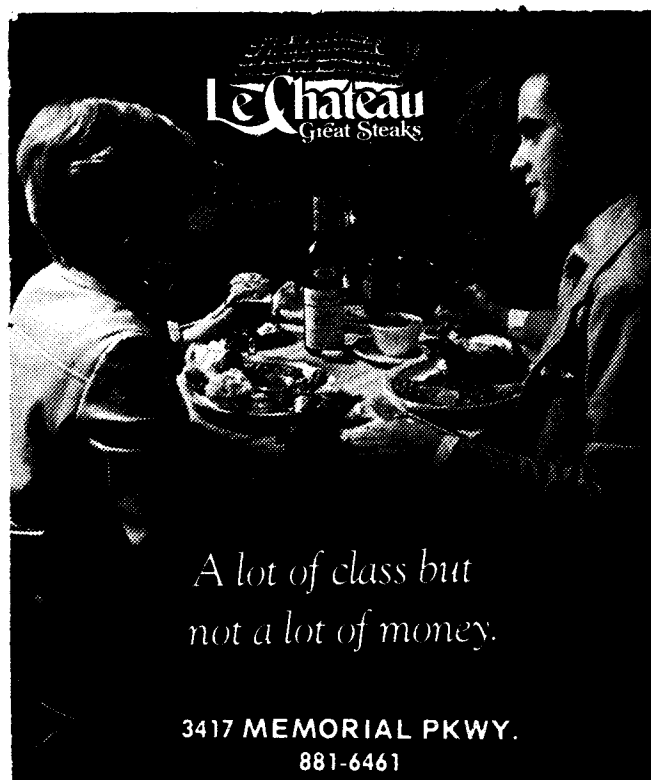
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ADMITTEDLY EXPENSIVE — But worth it! Over 4000 sq. ft. "Raised Cottage" is full of charm and history. 11ft. ceilings, 5 fireplaces, and 5 brick thick outer walls for low utility bills. This lovely home is surrounded by a beautiful lot. Gorgeous terraced back yard with patio, pool and cabana area. This is an exclusive listing priced at \$159,500. A "must" to see if you're in this price range and are interested in Exclusive "Twickenham" Area. 883-1200.

EXECUTIVE SUITE

This elegant home in the newer part of Jones Valley is just broken in and ready for real use by a family. Dad will enjoy the den with its own wet bar and built-in bookshelves and door to a covered patio. The youngsters will enjoy the lovely carpeted rec room with space for a pool table and great storage. Mom and the whole family will enjoy the guest bedroom and bath downstairs. The large living room, separate dining room, kitchen with roomy breakfast area. Some of the extras include a big utility room with sink and exit to the yard, custom drapes throughout, three additional bedrooms with extra large study off the master, laundry chute to the utility room from the master bedroom, closets galore and an oversized yard on a quiet cul-de-sac. Oh yes, for Dad and the boys there is a two-car garage with custom-built workbench. \$139,900. MC6006. 883-1200.

DOUBLETREE — Tucked away on quiet cul-de-sac. Lovely English Tudor, 2-story set on pie-shaped lot, framed by tall trees insuring shade and privacy. 4 bedrooms, 2 1/2 baths, 19'x19' den with fireplace impressively bricked to meet beamed cathedral ceiling. 2550 sq. ft. beautifully maintained \$81,900. 883-1200.

MARSHALL COUNTY-ARAB, AL. Look at this — 77 beautiful rolling acres with: 1 1/2 story brick "Farm House" — 3448 sq. ft. of finished floor space plus 957 sq. ft. basement plus, over sized double garage. Home features 2 master bedrooms, 2 other large bedrooms, living room, dining room, large family room with hearth, later, fireplace, fully equipped kitchen with inside bar, bistro grill. Home is fully carpeted, lots of wall paper, intercom system. All this plus — 60 acres, pasture, fenced — cross fenced, plus 4-35x350' automatic broiler houses, 2 large ponds and much more. 1-753-2295.

DOUBLETREE FINEST — tri-level is now on the market. This immaculate 4 bedroom home offers the following: superb landscaping, Spanish decor, large entry foyer, spacious living and dining rooms, eat-in kitchen with all the built-ins, large den with arched fireplace and dry bar with bar stools, 2 1/2 baths, double garage, covered and carpeted patio, carpeted front porch. I could go on and on but don't take my word for it go see it, you'll be impressed. (7907D) 883-1200.

TWICKENHAM'S COUNTRY COMFORTABLE — A must if you're interested in the Twickenham area. This home makes you feel at home and comfortable when you step in the door. Home is situated on lovely lot with sunshine through every window. Home features beautiful hardwood floor, lovely decor, gorgeous window treatments, garden room, full basement for your every need, 3 lovely bedrooms, 2 baths, huge living room with fireplace, huge dining room overlooking garden room, eat-in kitchen offered at \$97,500. (7CA), 883-1200.

4600 SQUARE FEET OF LUXURY — In this basement rancher. Completely maintenance free exterior, 5 bedrooms, 4 luxury baths, 2 equipped kitchens. Extra large den with rock fireplace. Master suite with sitting area, walk-in closet and huge bath-dressing area. Total price \$84,500. Arab. 533-1490.

MONROVIA ACRES — Beautiful built tri-level home with 4 bedrooms, 3 1/2 baths, 2 car garage, double fireplace. Big machine shed & Barn with stalls. Extra land available. (NRMAD.) 533-1490.

WALKING DISTANCE TO GRISSOM — This lovely two-story home offers over 2500 sq. ft. of comfortable living area. It has four bedrooms, 2 1/2 baths, large living room with beautiful hardwood floors, formal dining room, den with fireplace, study, double garage, covered patio and situated on a huge lot with many trees and flowers. \$72,500. (1015SR) 883-1200.

PICK YOUR SHADE TREE ... and relax as the kids walk to school and the SE YMCA close by. Outstanding features of this new home include wooded lot, 4 BR's, family room, fireplace, decorator kitchen and quality extras found only in this price range. \$74,900. (10027B) 883-1200.

QUALITY, SPACE, LOCATION — Perfect for a large family. Over 4800 sq. ft. of quality: cathedral ceilings w/solid beams, thermopane windows, beautiful hardwood floors, 2 fireplaces, and a large flagstone patio surrounding the pool. Five of the six bedrooms overlook the pool and the valley beyond, the dining room is huge, the rec room has a fireplace and a wet bar, and there is even a two-story playhouse! Blossomwood School zone. \$127,000.00. (2206A) 533-1490.

QUALITY MINDED? — For those who appreciate the finest construction techniques as well as an up-to-the-minute floor plan. Now is the time to own! NEW tri-level built by Scenic Homes with 4 bedrooms, 2 1/2 baths, convenient kitchen and breakfast area with a view. Family room PLUS rec room. Trees! Walking distance to Weatherly Heights School and Southeast Y. Better Hurry! (10002C) 883-1200.

NORTHEAST HUNTSVILLE — one of the most beautiful homes in the city is what you will see if you call for an appointment. Five large bedrooms, entry foyer, formal living room and dining room, large eat-in kitchen, den with raised hearth fireplace, and very tastefully decorated, outside you find a deck beautiful landscaping and lots of trees. (02015) 533-1490.

ONE OF A KIND — A truly unique contemporary, two level home with an open informal living arrangement. Custom kitchen on each level. Three fireplaces, 5 cedar decks, in-ground heated pool, lighted tennis court, all on twelve beautiful wooded acres. Exclusive listing. Shown by appointment only. \$325,000. 883-1200.

SE EXECUTIVE RANCHER — Here is an immaculate home that features formal dining room & living room, spacious kitchen with breakfast area, large den with fireplace, 2 1/2 baths, Rec room with wet bar, double car side entry garage, and beautiful 20 x 40 in-ground pool, many extras. (A-1104) 533-1490.

UNDER CONSTRUCTION — On a lovely S.E. wooded lot. Two story home offers 4 BR, 2 1/2 baths, den w/fireplace, 2275 sq. ft. of living + 2 car garage. Beautifully decorated. \$77,900. (C10003) 883-1200.

GLEN ECHO S/D. — You can see the extra thought and attention this builder has given in design, room arrangements and choice of materials in this new home. This 2 story home is nestled on a large wooded lot in a cul-de-sac. Large formal living room, separate dining room, den with fireplace, 4 large bedrooms and 2 1/2 baths. Near completion. Only \$74,900 (10306AC) 883-1200.

NEW LISTING NORTHEAST — This lovely home offers 2380 sq. ft. of living area which includes formal living room and dining room, 4 bedrooms, paneled study and playroom, spacious eat-in kitchen, cozy den with raised hearth, 2 1/2 baths and lovely landscaped lot. Priced \$71,500. (2017 S).

BEAUTIFUL TWO STORY, just listed, less than two years old on an acre lot. Five bedrooms (four up, master down), three baths, huge kitchen and laundry room. Lovely wallpaper, carpet and drapes. Thirty year vinyl siding. Many, many extras. Approx. 2900 square feet of living area. 1275. \$105,000.

\$60's

BRICK RANCHER ON A HILL — sits this brick rancher with a huge lot and close in. Excellent location. Home features formal living room, dining room, 3 bedrooms, 2 baths, huge den, storage galore, inside laundry, workshop. Offered at \$49,950. (409D) 883-1200.

BASEMENT RANCHER — Just outside city in choice area. Over an acre of land. Excellent condition — 3 1/2 years old. All brick home has 3 bedrooms, study, sewing room, den with fireplace, eat-in kitchen, foyer, living & dining rooms, side entry 2 car garage, additional 786 sq. ft. of basement area that's heated cooled, power ventilator, storm windows and doors. (473B-5) \$63,500. 883-1200.

PERFECT LOCATION - PERFECT HOUSE - PERFECT INVESTMENT — Close to schools, shopping, S. Y. YMCA, you'll love this brand new tri-level under construction. Features 4 BR's, den, family room, bay window breakfast area, fireplace, professional decorating. (9013C) \$66,900. 883-1200.

NEW SUBDIVISION (North of Weatherly Rd.) ... under construction, 4 BR brick rancher, living room, dining room, den with fireplace, double car garage and MORE! Excellent location walk to school, good floor plan and quality builder. Priced at only \$67,900. (9015 C) 883-1200.

BAY WINDOW — in breakfast area is only one of the many special features about the plan for this home just now under construction. Four bedrooms, den with corner fireplace, 16' master bedroom formal living and dining rooms, north side of Weatherly rd. but walk to school. See plans at South office. \$65,900. (C9004) 883-1200.

IS YOUR WIFE A DREAMER? Has she been dreaming of decorating that new 4 bedroom brick rancher? Give her that chance while there's still time. New development now starting across from Y.M.C.A. in Weatherly. Construction to begin soon on lovely 1970 sq. ft. rancher. Super location. \$65,900. (9005C) 883-1200.

EXCELLENT "Family" Floor Plan — 2000 sq. ft. 2-story home with separate entertaining areas for the whole family. Large living room, formal dining room, beautiful kitchen and breakfast room, 12x22 ft. den with fireplace, 4 bedrooms (large master), 2 1/2 baths, beautifully decorated and brand new. \$65,900. (C9007)

COUNTRY FRENCH CLASSIC — Just listed, on 1 acre lot. Walk to Monrovia School, double car garage, rear entrance. Super master bedroom with fireplace, built-in bookshelves and door to a covered patio. Moving down hallway one finds plenty of closets, pull down stairs for attic storage, 4 bedrooms & 2 lovely baths. Entering foyer front one finds twin parlors, one a formal dining room, the other a reception room. Tomorrow's plans capturing yesterday's style & flavor. (JR) \$63,500. 533-1490.

DEN & REC ROOM — Tri-level, 2050 sq. ft. hearing completion. Beautifully decorated and wallpapered in shades of rust and gold. Four bedrooms, 2 1/2 baths, fireplace in den + + + Rec Room, paneled in blanked English Oak. Large corner lot with fantastic view of the mountains. \$63,900 (12105) 883-1200.

FIVE UNIT EFFICIENCY APARTMENT COMPLEX — Brick, one level, nice corner lot. Each unit has large LR/BR combination, nice kitchen eat-in area, large ceramic bath. Fully carpeted. All units are appliances & drapes remain fully occupied. Returns \$120.00 each unit per month. (\$7,200 annual). Total price \$65,000. (28009th), 533-1490.

CONTEMPORARY RANCHER — Unusual floor plan offering 4 bedrooms (Master suite is isolated), living room, dining room, large den with fireplace, efficiently arranged built-in kitchen with pantry, double garage with completely finished storage, nicely decorated & situated on well landscaped lot with large yard. (10205M)

SOUTHEAST SECLUSION — Wooded hillside surrounds you with a feeling of seclusion living in this brick woodframe "rancher house". Well off the road with patio and large wooded back yard, also located on cul-de-sac street to insure your privacy and peace. The specialty of this house is the large living area it affords one with a large great room and adjoining big kitchen. Other features include two car garage, 2 baths, and formal areas, with large two car garage. \$68,900. (10309AC) 533-1490.

APPROXIMATELY 2 ACRES and a beautiful new home in the country. Only 15-20 minutes from University Dr., this lovely home has a foyer, formal living room, dining room, sparkling built-in kitchen, three large bedrooms, a huge bath, a large living and dining room, and a garage with extra space for storage. Plenty of closets and cabinets! Enjoy the peaceful beauty of the surrounding countryside from the large deck. Low \$60s. (HGMR), 533-1490.

TRIBE SIZED — Regardless of the size of your tribe, they'll have plenty of room to romp at 2520 Excalibur Dr., SE. Features include: 1500 square foot rec room, 4 large bedrooms, 2 1/2 baths, large living and dining room, kitchen, oak paneled den with bookcases and a fireplace, double garage, and its only 6 years old. Priced below the market for this area at \$69,900. Available now. 883-1200.

JOE STEELE EXCLUSIVE — Contemporary rancher in choice SE location. Great room concept with wide expanse vaulted ceiling. Three bedrooms, 2 baths, fenced yard, double garage. Call today. \$61,500. (2411A) 883-1200.

INVEST IN HAPPINESS — What a return your investment will afford you and your family! When you view this all electric three bedroom home on Arrowwood Drive, you will quickly "add up" all the special features incorporated into this charming family type home. Construction is Brick, frame 3 bedrooms, 2 baths, large living and dining room, large kitchen, oak paneled den with bookcases and a fireplace, double garage, and its only 6 years old. Priced below the market for this area at \$69,900. Available now. 883-1200.

WOULD YOU BUY... A HAT... without trying it on? ... of course not... That's why you should definitely try this. So unusual cedar cape cod "for size" ... 3 airy bedrooms (large upstairs area with expansion possibilities ... great for storage now) Weather protector carport, good size utility. Laundry room inside. And all these Goodies too. Cushiony wall to wall carpeting, drop ceiling, drop ceiling, drop ceilings, wainscoting, drapes and its sauce pan bright! Just \$68,500 and the children can walk to Grissom (SR1016) 883-1200.

ROCKMONT-ON-CARDESSA High above lake Guntersville rests a home of unique dimensions and character. A modified A-Frame, its three levels feature 4 bedrooms, 3 baths 28x24 Great Room with A massive full masonry fireplace, luxury kitchen, fully equipped eat-in kitchen, and loads of storage. A full width deck perfectly complements its setting on 2.1 acres of immaculately kept grounds featuring 600' of road frontage and intensely natural landscaping. It is pleasantly close (but not too close) to schools, shopping, Turner's Marina, Public docks, Guntersville, and the beautiful lake. We'll throw in this "Million Dollar View" of the lake below for absolutely nothing. (CL) 883-1200.

\$50's

IMPRESSIVE SPLIT-LEVEL under construction in Fox Run one of Huntsville's newest and best neighborhoods. Located on a corner lot with a great view of the mountains. Features 3 good-sized bedrooms, 2 baths, foyer, living and dining, den with fireplace, hobby room, inside laundry, central heating and cooling, double side entry garage. \$55,900. (SC14001). 533-1490.

QUARRY TILE ... everywhere in this lovely custom built brick 2179 sq. ft. rancher situated on a very private lot high on Russellville. Large living room with fireplace. The most inviting kitchen/family room offers a wall of built-in 3 bedrooms, 2 baths. Lovely patios. A home to enjoy. \$59,900. (C3922).

LACEY SPRINGS COMMUNITY — Super sharp brick rancher on 2 beautiful acres with a great view overlooking a 1500 acre farm. Over 2000 square feet plus double garage and a 25' x 30' detached workshop. 3 spacious bedrooms, 2 baths, foyer, sep. living and dining, paneled den, kitchen, breakfast room, fireplace, central heat and air. A quality home for a reasonable price. \$59,900. 533-1490.

SOUTHEAST — BASEMENT RANCH — only 7 years old. Beautifully decorated tri-level. Upper level consists of 4 bedrooms, 2 baths, large den with fireplace, foyer, formal living and dining rooms, eat-in kitchen, all nicely decorated, Rec room and additional semi finished area on lower level. Side entry 2 car garage. \$59,500 (2612GM) 883-1200.

HERE'S WHAT YOU HAVE BEEN LOOKING FOR — Nice comfortable home and small acreage not too far from town. 1.5 acres of beautifully landscaped. Seclusion, full daylight basement with lots of room for expansion. Kitchen overlooks privacy of back yard. Carpeted master bedroom has its own bath. On city water. Carport plus 20x30 metal shed. Located on Hwy 731 just South of Morgan City. Shown by appointment only. Nothing on the market like it for \$51,500.

DISCRIMINATING? Then beautiful Rainbow Drive in Madison could be for you! This lovely four bedroom home is better than new. Add two full baths, living, dining, rooms, nice family room for casual entertaining. Top it off with manicured acre lot and separate 3-car garage and you have a great place to live. (198 RD) \$59,500.

MONTE SANO — BRICK rancher offers 2000 sq. ft. of living area. Large den w/fireplace and bookshelves. Delightful kitchen has range w/double oven, dishwasher + refrigerator remains. Huge LR-DR over looking wooded lot, completely fenced. 3 bedrooms & study or 4th bedroom. 1 1/2 baths. Home is newly painted inside & out. Excellent condition. (C4712) Low \$50's. 883-1200.

BEAUTIFUL VIEW — Under construction in one of Huntsville's most desirable neighborhoods. "FOX RUN". This tri-level features foyer, living room, dining room, den w/fireplace, 4 bedrooms, 2 1/2 baths, eat-in kitchen w/built-ins, central heat/air, carpet throughout, double garage. \$58,500. (14003M). 533-1490.

OUTSIDE CITY — STOP! Just one step outside the city next door to Riverston School. LOOK: View this new 3/BR rock rancher, LR/DR combo, large sunken den w/fireplace, 2 baths w/vanities, large kit. w/breakfast nook. (LSTEN): situated on 2 1/2 acres approx. 8 miles from North Parkway out Winchester Road. \$56,500. 883-1200.

HICKORY HILL — JUST LISTED — Real Nice 3 bedrooms, 1 1/2 bath, separate dining, eat-in kitchen, double side entry garage, beautiful yard. \$53,000. (8502HH)

TRADE IN ... your old house on this new, 3 bedroom home in Fox Run. Professionally decorated to please even the most discriminating lady. Foyer, living room, dining room, cheerful eat-in kitchen with bay window, den with fireplace, inside laundry, large side-entry garage. Almost ready for occupancy. (12055) 883-1200.

BEAUTIFUL HOME — Beautiful view — this super nice English Tudor is located on the Lake in Arab's Pine Lake Village subdivision. Home features 3 or 4 bedrooms, 2 full baths, large den with fireplace, living room, dining room, and eat-in kitchen. Fully carpeted, tastefully decorated. Choice location — low equity — swimming, fishing, tennis, or boating. \$54,000. Call 1-753-2295. (20G).

GUNTERVILLE LAKE — Holiday Shores — Authentic reconstructed 170 yr. old log house on 3 water front lots — 270 ft. Two hand cut, masonry fireplace and foundation. Cedar, hardwood floors, mature pine trees. Sand & d. beach. \$53,900. 883-1200.

GOOD COMMERCIAL INVESTMENT on Oakwood Ave. Large home, 3 bedroom, in good condition suitable for renovation to office use. Lot is 60 x 331 and would be suitable for use to build office complex, retail store ETC. (C-306) 533-1490.

\$40's

MONTE SANO ... on a large wooded lot. This Contemporary rancher offers 3 large bedrooms, formal living and dining & great rec room. 2 full baths, ever-lasting vinyl siding and storm windows. (H3416). 883-1200.

TREES & LOTS OF LOT ... goes with this lovely 2 story home located on a quiet cul-de-sac, offering 4 bedrooms, 2 1/2 baths, formal living & dining rooms, den, eat-in kitchen, inside utility, large double garage & a huge deck. Only \$49,500. (12206G). 883-1200.

EASY-LIVING FLOOR PLAN ... in this contemporary ranch on large lot, living/dining combination, unusual den/kitchen combination with separate eating area and open bar area. Hobby room with counter and sink. Three bedrooms, 2 baths, double paneled garage. J2200. \$47,300.

GARDEN SPOT ready for planting in this beautifully landscaped backyard with utility bldg. Attractive 4 BR home included, featuring large den, carpets throughout, large patio, and garage. Walking distance to Johnson High School. in the \$40's. (P4032). 533-1490.

CONDOMINIUM ... Sumptuous decoration and exciting floor plan are prime features in this unit. Home offers living room w/fireplace, separate dining, separate breakfast area, masterful kitchen, 2 1/2 decorator baths, private master suite, balcony or study overlooking fireplace and too much more to mention here. \$41,900; \$7,900 equity. (1425). 883-1200.

BUILDER SAYS "REDUCE IT!" — Reduced from \$43,200 to \$42,350. This new home is nearing completion. Great Room concept with rock fireplace, 3 bedrooms, 2 full baths and garage. Decorated in "Golden Ale" for a more formal look. (10465) 883-1200.

\$30's

MEDICAL DISTRICT — 2016 Stanford, \$30,500 Total Price. Large LR, Separated Dining room, nice den/kitchen combo, 3 BR's, 2 Baths, Central heat and air, new carpet and freshly painted, attractively decorated throughout. (20165) 533-1490.

IT'S NOT TOO LATE — You can still own a NEW home in the Grissom High District for only \$31,650. 3 bedrooms, 2 baths, fully-equipped G.E. eat-in kitchen. Single garage. Come early and you can coordinate your carpets and wallpapers. (14024G) 883-1200.

SUPER SHARE — Sparkling brick rancher with L-shaped living/dining room, large DEN, spacious kitchen, three bedrooms, one bath, double carport with workshop. Large corner lot with nice shade trees and garden spot. \$32,500 (2200L) 533-1490.

THE BORN COUNTRY GENTLEMAN — and gentle woman will find peace, contentment and enter satisfaction in this brick ranch style home situated on approximately 2 acres of well landscaped land w/fruit trees, grape vines, garden spot. This home has 3 nice size bedrooms, LR/DR, kit/den combo, large utility room, DBL/garage, 2 baths. (RT-1-H) 533-1490.

200 10TH AVENUE ARAB, AL. — Extra nice 4 bedroom brick and frame tri-level located convenient to shopping and schools. Home features 4 large bedrooms, 2 baths, living room, den, rec room, eat-in kitchen. \$39,500. 1-753-2295.

FOR THE GROWING FAMILY — A spacious two-story home with four bedrooms, living room, dining room and good-sized den, this home has had plenty of loving care, from the fresh paint and new vinyl kitchen floor inside to the well maintained outside. It also boasts pretty wallpaper, an inside laundry, storm windows and a garage. Comfortable living for only \$36,000. (4702D). 533-1490.

BEST BUY IN GUNTERVILLE for those who love serenity, and relaxation. Best fishing in area approx. length of football field behind this gorgeous newly decorated 3 BR., 2 Bath A-Frame — featuring standing stone fireplace, rustic decor in greatroom, tinted sliding glass doors into upstairs and downstairs decks. Owners leaving town — Approx. 1 1/2 acre lot. Make offer. (C6) 533-1490.

HOLIDAY SHORES — Two story brick home ideal for week-end or year around, living room, with stone fireplace, 2 bedrooms, 1 1/2 baths, large screened porch, over 1 acre with a stocked fish pond, lots of fruit trees, excellent garden spot. Water access and use of barn and pasture for horses. \$31,000. (H5) 533-1490.

BRAND-NEW START ... in this adorable home under construction. 3 BR., 1 1/2 baths, built-in kitchen. Pick your colors. \$31,650. (G14020) 883-1200.

SANDHURST PARK ... New rancher almost completed in nice S.W. neighborhood. Beautifully decorated with 3 bedrooms, 1 1/2 baths, living & dining rooms, built-in kitchen single garage. \$31,650. (14014G) 883-1200.

DECORATE YOUR OWN new home in Sandhurst Park. 3 bedrooms, living room, built-in kitchen, 1 1/2 baths, single finished garage. Central heat & air. All for only \$31,650. (14022 G)

SANDHURST PARK is a growing area of young families. Many have purchased in the last month and are now moving in. Listing features 3 bedrooms, 1 1/2 baths, GE kitchen, central heat and air, complete decorator package of carpets, wall coverings and vinyl and much more. You can't buy more anywhere else. \$31,650. (14023G)

If you're serious about getting a lot for your money, this 3 bedroom brick rancher has 1666 sq. ft. of great living area. Features include a huge den with brick fireplace, inside laundry, eat-in kitchen, dining room, living room, 1 1/2 baths, central heat/air. Storm windows/doors. The fine home sits on a large lot big enough for a garden. Mature trees. Walking distance to elem. and high school. (S4005) 533-1490.

CUSTOM BUILT — All brick rancher on large lot with mature trees. Many outstanding features. 3 bedrooms, 2 are kingsize, 23' x 14 1/2' den, 1 1/2 baths, large living room, fireplace, eat-in kitchen with new built-ins, inside utilities, central heat and air, roof 2 yr. old, thermopane windows. Excellent condition. \$36,500. (3617GR)

NEW LISTING in excellent condition in a very desirable location. Unique features not found in most homes — extra storage space above good disappearing stairway and huge separate work shop. PLUS carpeted living/dining room den, kitchen with bar, 3 (1 king) bedrooms, 2 baths, central heat & air. Nice lot with fenced back yard. (S2611). \$34,500.

ARAB — Brick rancher features large living room, cozy den, 3 large bedrooms, 2 full baths, large laundry room. Single garage. \$37,000. Extra finished bldg. 621 sq. ft. could be office. 1-753-2295.

S.W. RANCHER \$31,450 — This lovely home is almost complete — & you'll love the color co-ordinated carpets & wallpaper that has been selected. Featuring 3 bedrooms, 1 1/2 baths, living & dining room & nice eat-in kitchen with built-ins. Plus single garage. (14012 G). 883-1200.

DAHLIA DELIGHT ... very nice & cozy 4 bedroom home located conveniently to shopping & schools. Features include entry foyer, large LR, kitchen. Downstairs den, single car garage, fully carpeted over hardwood. (D4702). 533-1490.

COUNTRY LIVING at its best, 3 bedroom, 1710 sq. ft. frame rancher on 1 acre, just minutes from Huntsville city limits. Home features 3 huge bedrooms, 1 bath, living room with real fireplace, country kitchen, detached garage with breezeway. Nice 1 acre lot on Highway 231. 1-753-2295. (124AYG).

GREENBRIAR EST. — This 3 bedroom, 1 1/2 bath rancher has just been freshened up inside. The beautiful hardwood floors have been stained & the walls painted. Special features in this home are, walking distance to school attic turbines, vinyl siding, a maintenance free backyard, and a nice view from the front of home. Price only \$39,000.00 (G3612) 533-1490.

\$20's & BELOW

IN TRIANA! Pretty 10 yr. old yellow frame home in pleasant surroundings. 3 BR., 1 bath home convenient to industries close to Jetport. Eat in kitchen with new vinyl. Lots of nice paneling. Priced right at \$19,000. (R-3-8138B) 533-1490.

MOM & DAD — do you prefer to own your home and, better yet, have a completely fenced yard? Your young children could play all day without getting in the street. And this 3-bedroom home is carpeted, cute and affordable. Priced at only \$17,500. (2123E). 533-1490.

LACEY SPRINGS — One acre lot with beautiful pine trees surrounds this mobile home with a permanent add on. 3 bedrooms, eat-in kitchen, living room, 1 1/2 baths, inside laundry, double carport and detached 24 x 24 garage. \$16,900. 883-1200.

BETTER THAN AN APARTMENT — there is room for a garden and a swing set, and a bar by the grill, there is no one living on the other side of the wall, and you'll be building an equity in a home of your own! Now under construction, this pretty 3 bedroom home will have plush carpet and 2 sparkling kitchen, complete with a dishwasher. Only \$800 down. FHA, nothing down VA. Seller will pay closing costs. (2310MV)

NEED A RICH UNCLE — to help you buy a house? You only need \$800 down payment to get a house, make hamburgers in a fully equipped kitchen and enjoy all the quiet comforts of central heat and air. It's brand spanking new and priced at \$25,050. Qualifies under the new 235 program and Uncle Sam may help you make the payments. P.S. The rest of the good news is that the seller will pay your closing costs. For details call 533-1490. (3312MV)

YOU'LL KNOW IT — is a livable house once you step inside. You'll find soft tones in wallpaper and carpet in the formal LR; a perky eat-in kitchen. The single garage has been converted into a large comfortable den complete with brick fireplace and laundry area behind louvered doors. Small private study + 3 BR and 1 1/2 baths. Soon to have new roof. (NR2228) 533-1490.

UNDER CONSTRUCTION — 3 bedroom rancher, central heat and air, carpets, inside laundry, modern kitchen w/built-ins. \$25,050. (MV2309) 533-1490.

NEW HOME, NEW START — Perfect for the small family. Attractive L-shaped living, dining area. Conveniently arranged kitchen with built-in range, vent and dishwasher. Vanily bath, 3 bedrooms. Wall-to-wall carpet, central heating and air conditioning. \$25,050 with all types of financing available. (MV2315) 533-1490.

SOON TO BEGIN CONSTRUCTION ... in Mt. Vernon Heights. This rancher will have 3 bedrooms, 1 bath, living/dining room combo, kitchen equipped with a range, dishwasher, and utility outlet, and a storage room in the back. Builder will pay closing cost. Will finance FHA, VA, or 233 FHA. (MV2317) 533-1490.