

The Redstone Rocket

VOL. XXVII; NO. 9 JULY 19, 1978

In brief

Move into hospital still underway here

New equipment is still being installed and additional ancillary staff hired at the new post hospital, causing some delay and inconvenience to patients, according to Hospital Commander Col. Robert B. McLean M.D.

Patients occasionally may have to wait longer than they or the hospital would like until all systems are fully operational. The hospital equipment is very sophisticated and requires careful adjustment to insure safe, efficient operation. All patients will be cared for, but waiting times during the next few weeks will be extended as the move toward full operation progresses, McLean added.

Instructors needed

WASHINGTON (ARNEWS)—ROTC units and Army Readiness Regions are looking for E-7 and E-8 11B volunteers to serve stabilized tours as instructors in several states, MILPERCEN Officials have announced.

Persons selected for these assignments will serve a two-year stabilized tour; tours may be extended to four years with special approval.

Prehistoric artifacts found

Archaeologists search for Redstone's past

It appears to be an ordinary borrow pit, where dirt is scooped up and trucked away for use as fill.

But on close examination, a small dark patch is discernible in the red earth where surface soil had been removed. To Carey Oakley and Lawrence Alexander, the circular patch is a telltale sign.

Using trowels, they scrape away the dark soil a thin layer at a time and sift it through their fingers, searching patiently for a flint chip, a pottery shard, a fragment of mussel shell. The trowel strikes an object. It is carefully dislodged. They identify it as an ancient milling stone.

They have been making similar discoveries here for the past five weeks while conducting an archaeological survey for the Facilities Engineer Environmental Office.

The archaeologists from the University of Alabama at Tuscaloosa have combed hundred of acres of the installation, looking for evidence of prehistoric man. The milling stone, used for cracking nuts and grains, was found at a camp site, evidenced by a circle of darkened earth left by a camp fire hundreds of years ago, and exposed only

MPs to crack down Monday on all vehicles lacking decals



STOP — Spec. 4 Michael Epley and other Military Policemen are stopping all cars without proper decals at access gates

Army authorities will begin a crackdown July 24 and require all vehicles driving on the military reservation to carry either proper identification or visitor's authorization.

This advance notice is to minimize inconvenience to individuals who may wish to register vehicles before that date.

The only private vehicles authorized access to the arsenal carry bumper decals issued by Army or Marshall Space Flight Center security offices.

Application can be made for a visitor's car pass at the arsenal visitor center outside Gate 1. It operates from 7:30 a.m. to 4 p.m. weekdays and can be reached by driving west on Martin Rd. from South Parkway (highway 431) in Huntsville.

Vehicles without proper identification will be turned away at the gates. There may be congestion at gates for a few days during peak morning traffic hours and arsenal workers should make allowance for it in their travel plans.

In an attempt to minimize congestion, roving patrols of military police inside the arsenal will stop undecaled cars and issue warnings to drivers. Repeated violators will be cited and face loss of arsenal driving privileges.

recently when fill dirt was taken from the site.

The archaeologists have discovered a

wide variety of artifacts, including projectile points 5,000 years old.

(continued on page 14)



GOOD POINT — Lawrence Alexander shows off a 5,000-year-old projectile point. Admiring the artifact are, from

left, Bill Schroder, David Cass and Roger Ling.

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not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

OPINION

Dear Editor

I, Spec. 4, Ronald L. Gowdy, 088-42-9542, assigned to the 80 1st Maintenance Battalion, Delta Company, Fort Campbell, Kentucky, would like a State Side Swap with anyone of Grade E-4 and MOS 27 F 20.

I can be contacted at: 80 1st Mt. Bn. "D" Company, Mail Box 104, Ft. Campbell, Kentucky 42223. Phone: (502) 798-4189.

RONALD L. GOWDY, SP 4

Do you have something on your mind? We'd like to hear about it. Send your letters to:

**The Redstone Rocket
DRSMI-G
Redstone Arsenal, Ala. 35809**

Dear Editor

While in Germany, I ran across this article approximately three years ago, and I feel that it expresses the feelings of most all policemen, both military and civilian.

"ME, THE LOUSY COP"

"Well, Mr. Citizen, I guess you've got me figured out. I seem to fit neatly into the category you placed me in."

"I'm stereotyped, characterized, standardized, classified, grouped and always typical. I'm the 'lousy cop.'"

"Unfortunately, the reverse isn't true. I can never figure you out."

"From birth you teach your children that I'm a boogiemán and that you are shocked when they identify with my traditional enemy, the criminal."

"You accuse me of coddling juveniles, until I catch your kid doing something."

"You may take an hour for lunch and several coffee breaks each day, but point me out as a loafer if you see me having just one cup."

"You pride yourself on your polished manners but think nothing of interrupting my meal at noon with your troubles."

"You raise hell about the guy who cuts off in traffic, but let me catch you doing the same thing and I am picking on you. You know all the traffic laws, but you never got one single traffic ticket you deserved."

"You shout 'FOUL' if you observe me

driving fast enroute to an emergency call, but literally raise hell if I take more than ten seconds responding to your call.

"You call it 'part of my job' if someone strikes me, but it's 'Police Brutality' if I strike back."

"You wouldn't think of telling your dentist how to pull a badly decayed tooth or your doctor how to take out your appendix, but you are always willing to give me a few pointers on law enforcement."

"You talk to me in a manner and use language that would assure a bloody nose from anyone else, but you expect me to stand there and take it without batting an eye."

"You cry, 'Something has to be done about all the crime', but you can't be bothered with getting involved."

"You've got no use for me at all, but of course it's OK if I change a tire for your wife, or deliver your child in the back seat of my patrol car on the way to the hospital, or save your son's life with mouth-to-mouth resuscitation, or maybe work many hours of overtime to find your lost daughter."

"So, Mr. Citizen, you stand there on your soap box and rant and rave about the way I do my job, calling me every name in the book, but never stop a minute to think that your property, your family, or maybe your life might depend on one thing — me or one of my buddies. 'Yes, me the Lousy Cop.'"

DALE E. MARKIN SP4
Military Police Traffic Section

THE REDSTONE 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 therefore 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 wanteds — is 10 a.m. Monday before publication.

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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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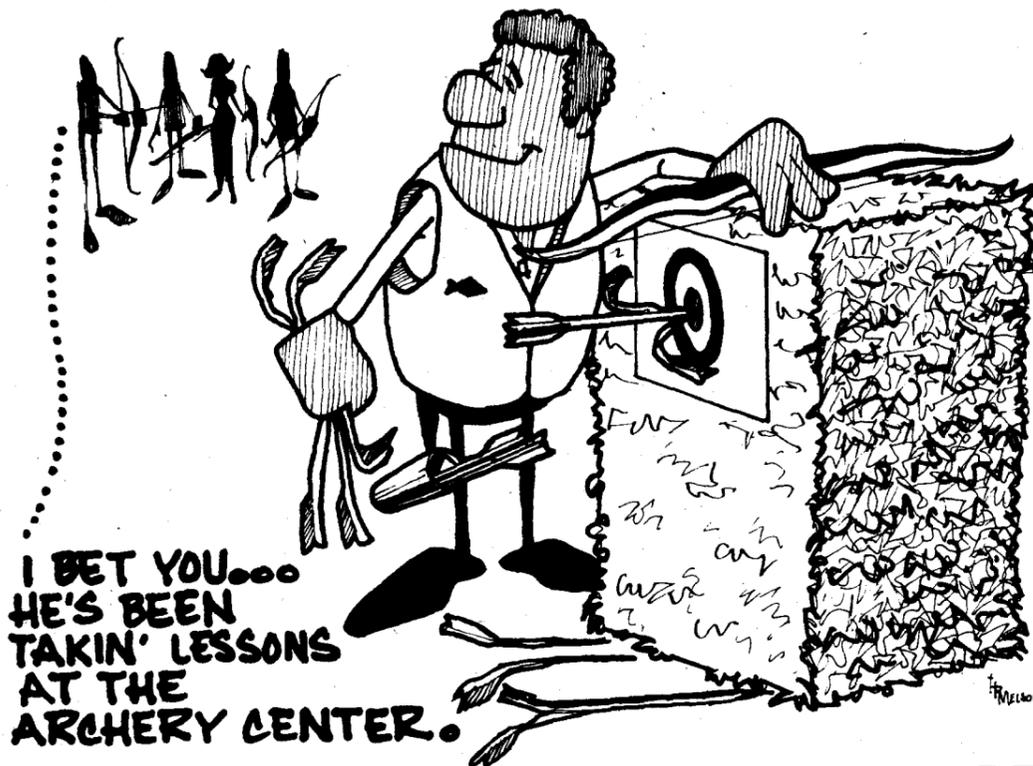
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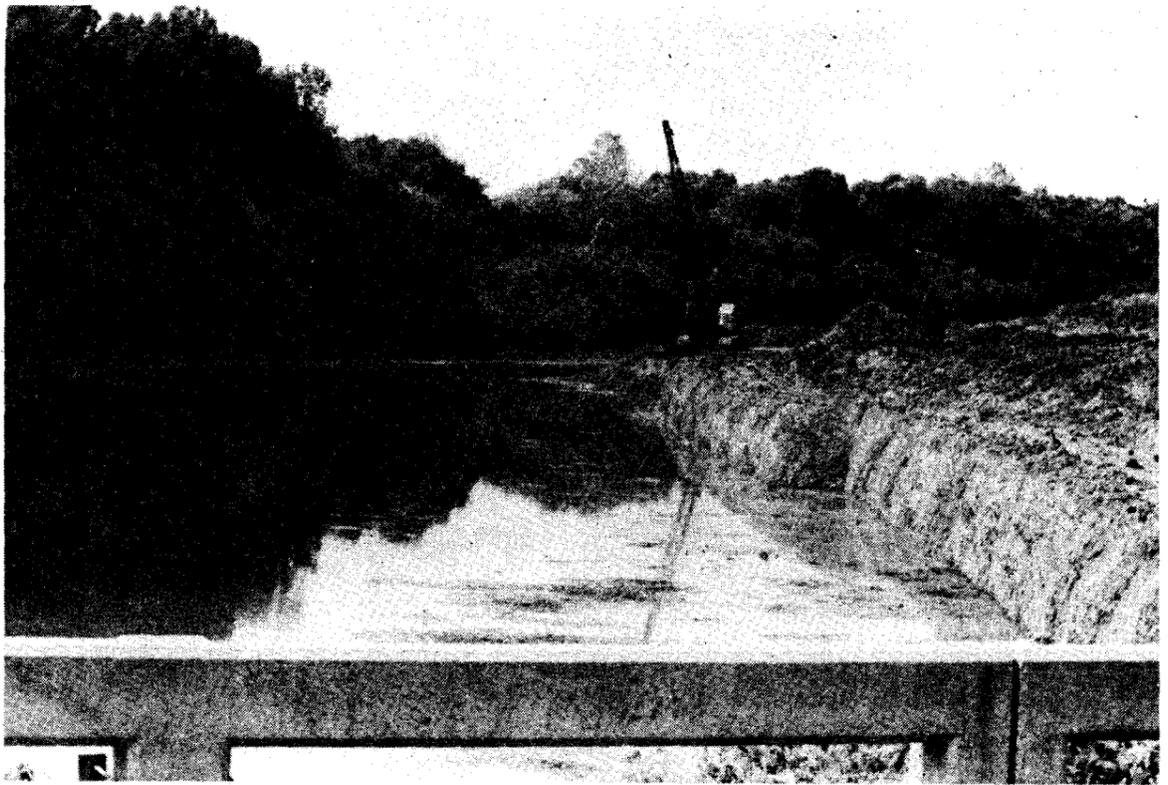
Arsenal, city officials meet to discuss flooding

A proposal to extend creek channelization from the city onto Redstone Arsenal was aired last week at a meeting of concerned federal agencies and Huntsville public works officials.

The city wants to widen and deepen Huntsville Spring Branch inside the arsenal, but it is the judgment of local Army officials that flood relief benefits of the action may not be sufficient to justify disturbing the stream. That judgment was concurred in at the meeting by representatives of the Environmental Protection Agency, Tennessee Valley Authority, Wheeler National Wildlife Refuge and Army Corps of Engineers, Nashville District. Their interpretation of available flood and topographical records indicates channelization on the arsenal may not be a practical solution to the storm flooding problem in Huntsville.

The city is channeling Huntsville Spring Branch to the point it enters the arsenal at Martin Road. At that point the city believes a bottleneck exists that causes flooding of areas to the north in periods of heavy rain.

Detailed surveys of the flood plain north and south of Martin Road are to be conducted to gain more information on whether channelization on the arsenal is worthwhile.



DREDGE — Huntsville Spring Branch is being channeled to the arsenal boundary. Photo shows work performed earlier this year.

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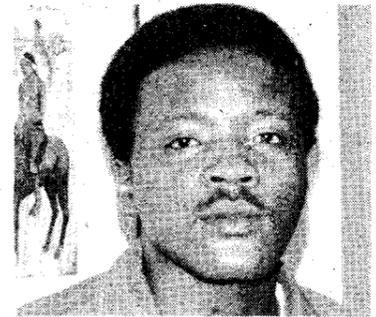
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QUESTION: DOES THE ARMY NEED A HIGHER PERCENTAGE OF CAREER SOLDIERS?



WO1 Cody Phillips, Co. B — "Yes, I think they do. I used to be a recruiter, and I could see the number of people available for duty is low. More career people would of course keep recruiters' goals down. Not only that, it would help keep down personnel turbulence as far as rank and assignments go. More careerists would also keep the Army's budget down, which is very important right now."

Pvt. Douglas Waller, 5th SC — "I think it's the first-termers that really make the Army go—but only to a certain extent. They contribute a lot. Although many first-termers do their jobs as well as many career soldiers, some just don't want to stay in. I think a lifer is better for the overall morale of the Army, because he wants to be there. To get an individual to stay in the Army,



giving rank faster would help retain him."

I support one thing that would make more career soldiers, that's to lower the entrance standards. That would do a service to society, the individual, and the Army. Take these high school drop-outs and give them a job, let them get an education. That would also lower unemployment . . . I don't think that faster promotions would keep that many people in. In an MOS like Pershing where a soldier can look forward to one year at Redstone and three in Germany, which just repeats over and over again, that drives people out. Increasing the number of soldiers in the States and giving them more time here would be one solution to keeping people in."

SSG Pete Voltz, Co. A — "No, the Army needs a higher percentage of quality one- and two-term enlistees. The rank structure is top-heavy now. Rather than a high percentage of career soldiers, we need a higher percentage of the American population who have served in the armed services because it's important to reinforce the idea that everyone should serve their country in some way. And the make-up of the Army should reflect the image of the general population in race, education, and background. In my opinion there



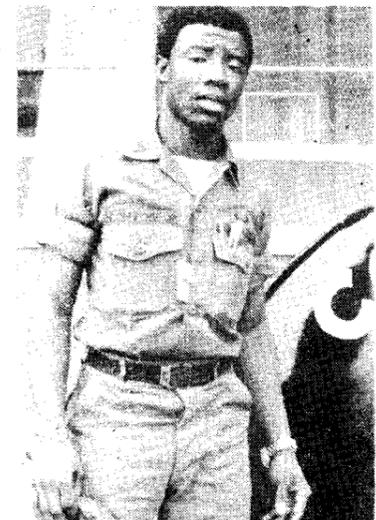
are too many chiefs and not enough Indians in the Army now. Having a higher number of career soldiers would only make it worse. In essence, we need a return to the draft."



1st Sgt. Kenneth Elms, Co. A — "Yes, we do need more career soldiers. However, with the system the way it is now, we won't be getting a higher percentage . . .



Spec 4 Charles Davis, 291st MP — "I don't think it would. When a man gets to a certain age, he can't function as a soldier."



Spec 5 Morgan Sutton Jr., Co. A — "I think they do, for the simple reason that people come in and learn an MOS, get experienced in doing that job, and they will be better at that job than a new soldier. A lot of guys come in the volunteer Army now just as a way to spend a few years—they don't really care. One solution to the problem is to make the promotion system faster. That would inspire soldiers to be career soldiers."

Army to increase senior enlisted strength

WASHINGTON (ARNEWS) — The Army plans to increase E-4 through E-8 strength by 15,000 over the next five years. The increase, plus a shift from grades E-1 through E-3 to grades E-4 and above, will net an additional 25,000 career soldiers, DA personnel officials said today.

The plans for enlisted strength increases between 1979 and 1983 are subject to DOD approval and congressional funding.

The tentative plans call for increasing E-4 strength about 6,500; E-5 increases of about 4,300; E-6 increases of about 3,300 and E-8 increases of about 1,000. E-7 strengths are not affected.

The increases will not affect any one MOS or geographic area more than others, according to an official. All MOS are expected to benefit from higher promotion quotas, he added.

Strength increases in grades E-4 through E-8 are planned, the Official said, because higher skills and more experience are justified by enlisted personnel management system (EPMS) studies.

The increases, coupled with a smaller E-3 and below soldier strength and fewer first term soldiers, will increase the career-first-term mix from the current 45-55 percent to 49-51 percent. This idea was also endorsed in a recent RAND corporation study on the volunteer force.

The increased mix will cost about \$15 million annually by 1984, an official estimates. Much of the added costs for supporting a more senior force will be offset by reduced recruiting and training of junior soldiers. It is also expected to result in lower recruiting objectives, the official said.



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- Marines 14, Meddac 8
- 6th SC 13, Co. C 12
- 4th SC 15, 6th SC 5
- 291st MPs 19, Miradcom 1
- Marines 7, Co. C 6
- Meddac 10, Airfield 5

**Army to announce
more 'MOD' jobs**

ALEXANDRIA, VA.—One hundred jobs will be created as a part of Secretary of the Army's Mobility, Opportunity and Development (MOD) Program, according to program officials.

The new positions, to be announced next month, will be filled in part from the 6,000-plus applicants who sought one of the 30 Civil Service jobs originally planned for the program.

Total MOD positions, now 130, will include the 13 internships, 10 fellowships and seven management positions previously approved. All of the 100 new positions will be internships, program officials said.

Program officials plan to write each of the more than 6,000 previous applicants; these applicants need not reapply but may designate a specific field of work if they choose.

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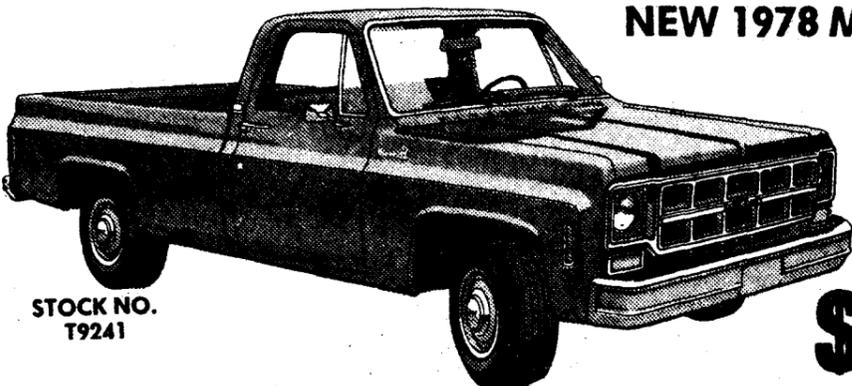
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R&D continues to dominate CWF softball

R&D all but wrapped up the regular season title in the CWF slo-pitch softball league last week with a come from behind, 17-16 decision over Materiel Management, their only serious rival for the crown.

In pounding out their third straight win over MM the Engineers ran their seasonal slate to 16 wins in 17 starts. Two games this week and another pair next week are all that stand between R&D and a successful defense of the CWF championship.

The Engineers had handed P&P a 10-5 setback earlier in the week while MM had prepped for the showdown battle by handing Raytheon a 9-3 defeat and Finance and Accounting a 17-2 drubbing.

For Raytheon it was a long and unprofitable week with a 11-9 defeat by the Master Batters and a 13-8 dousing doled out by the Comptrollers included. The Batters went two of three on the week with a 16-7 conquest of Metrology, before ending up on the short end of an 8-3 count against the Comptrollers.

Materiel Management jumped off to a 6-0 lead but the Engineers crossed the plate eleven times to lead 11-9 after four innings. The lead changed hands the following stanza when MM put a six-spot on the scoreboard only to have R&D score four runs in the sixth and win the game with a deuce in the bottom of the seventh.

Lloyd Brooks delivered the winning blow with a ringing single up the middle that sent Jay Loomis and Al Ingram scampering home with the tying and winning runs.

Loomis and Ingram were poison to MM all day scoring eight runs and hitting safely nine times between them in ten tries. Jerry Arszman got his mates rolling with a third inning grand slam and Dean Reese helped his own cause with three run round tripper an inning later.

CWF Softball

Standings

	W	L	PCT.	GB
R&D	16	1	.941	—
M&M	14	4	.778	2½
Comptroller	11	6	.647	5
Raytheon	9	10	.474	8
P&P	7	10	.412	9
Master Batters	7	11	.389	9½
F&A	5	12	.294	11
Metrology	1	16	.063	15½

Arszman and Brooks provided the home run power against P&P as Ron Eyestone took over the pitching chore and hurled a neat seven hitter.

Linden Calvert hurled the MM win when he blanked Raytheon after a three run first inning outburst. Dewey Wilson and Bill McCormack provided the offensive leadership with three hits apiece.

Leonard Hatcher homered twice and Gary Sams handled the pitching that got the

Comptrollers their win from Raytheon. Cleadus Thompson hurled the Comptrollers into sole possession of third place when he let the Master Batters down on a five hit ration.

Dick Mohlere and Mike Mitchell teamed up to provide the leadership to get the Master Batters past Raytheon and Metrology. Mitchell homered twice as Mohlere picked up the first win and they each contributed a round tripper in the second.

Ocke Fruchtnicht went four for four in the win over Metrology with Tom Wallenfang, Dave Odett and Jack Tesch each hitting safely three times.

Gil Henderson and Buddy Lewis were the hitting stars as Materiel Management disposed of the Accountants. Each collected three hits and they drove in seven runs between them as Bruce Coker picked up the win. Harold Jacobs put F&A on the scoreboard with a fourth inning homer that accounted for both runs.

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Hilinski's grand slam powers Co. B over MIRADCOM

Jim Hilinski smashed a grand slam homer and drove in six runs to lead Company B over Miradcom 11-8 Wednesday night.

Hilinski's blast came in the third inning when Bravo scored eight times on four hits, three walks, and three Mircom errors.

Nash hit a two-run homer for Miradcom. Bravo, playing well of late, sports an 11-5 record and trails western division leader Company A by two and one-half lengths.

8th SC 16, 95th SVC 6

Nelson Benedict drove in four runs with a homer and a single as the 8th Student Company defeated the 95th SVC 16-6.

Ken Scott and Victor Abraham, who also homered, added two rbi's a piece for the 8th.

Morgan went three-for-three with two rbi's for the 95th.

Our sportswriter, Dan Fuller, will be on his way to Korea soon. The Rocket needs a volunteer to write about company softball until Dan's replacement arrives. Anyone interested should contact Ray Rowden in the MMCS Public Affairs Office. The phone number is 876-4644.

5th SC 12, 7th 'sc 6

Thirteen 7th SC errors combined with nine 5th SC

hits, including a homer by Jack Dickey, lifted the 5th to an easy 12-6 victory.

The 5th scored at least one run in every inning of the contest while the 7th could manage only six hits.

With the victory, the 5th improved its record to 7-10, good enough for fourth place in the west.

Co. A 15, EOD 1

Bob McClurre pitched a two hitter and Charles Van Oostrum cracked a pair of home runs and drove in five runs and drove in five runs as Alpha routed EOD 15-1.

The victory was Company A's tenth in their last eleven games, and it moved them to a one and one-half game lead over the 8th.

5th SC 10, EOD 8

The 5th Student Company scored seven runs in the final inning, four on a grand slam by Bill Moczygamba, coming from behind to nip EOD 10-8.

Smith led EOD with three hits and an rbi.

Co. A 8, Mircom 7

Despite three run homers by William Nash and Doug Gurley in the final inning, Mircom lost to Company A 8-7.

Mircom committed five errors in the fifth inning allowing Alpha to take the lead.

Marines 14, Meddac 8

Anthony Petroski belted a three run homer and Tim Grant added two rbi's as the Marines overpowered Meddac 14-8.

The Leathernecks, 11-6, trail the 291st MP's, leaders in the west by three and one-half games.

6th SC 13, Co. C 12

Charles Gauzer ripped four hits, including a homer and two doubles, and drove in four runs, leading the 6th to a 13-12 come-from-behind victory over Charlie.

Gauzer drove in the tying run in the final inning with his second double, and later scored the winning run on a triple by Chad Cherry.

4th SC 15, 6th SC 5

Edward Williamson, James Flynn, Tim Ramsey, and Ken Smith each hit a homer and drove in two runs as the 4th SC demolished the 6th 15-5.

The 4th scored nine runs in the fifth inning to break open a one run game.

291st MPs 19, Miradcom 1

MP ace Franklin Chrisman tossed a four hitter while Richard Kisling cracked a pair of homers and drove in four runs to lead the Policement to a 19-1 rout of Miradcom.

Henry Salazar also connected for a homer and drove in four runs for the Cops.

The 291st, with a 14-2 record, leads in the east by two and one-half games over the 6th.

Marines 7, Co. C 6

Bob Watson smashed a pair of doubles to lead the Marines to their fifth straight victory.

Mike Kilgore hit a two run shot for Charlie.

Meddac 10, Airfield 5

The Airfield committed eight errors and Marc Hulse belted a two run homer to lead Meddac over Airfield. Meddac, 11-6, is in a third place tie with the Marines in the east.

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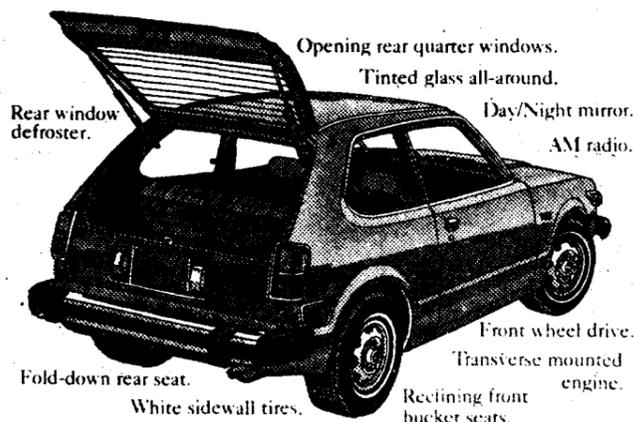


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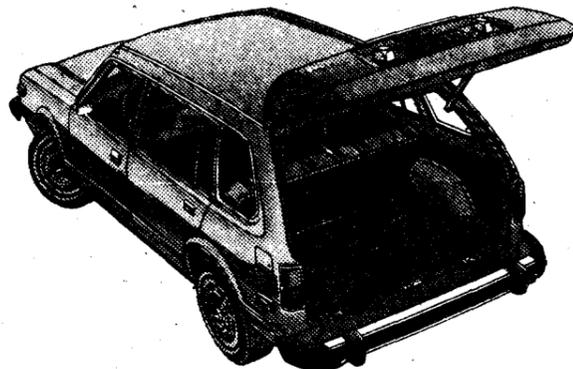
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Swept-gain superradiance

Scientists find new way to produ

By DR. DOMINIC AMATORE

An experiment conducted by members of the MIRADCOM Technology Lab's Research Directorate and the High Energy Laser and Research Laboratory reflects a change in the way scientists view the physical universe, and especially the production and propagation of electromagnetic energy, according to Dr. David Howgate.

"Our experiment evinces a view of nature which goes beyond the single-atom concept," said Howgate. "It shows that atoms actually communicate with one another and act collectively."

In a MIRADCOM laboratory Howgate, Dr. Charles M. Bowden and John J. Ehrlich proved for the first time that swept-gain superradiance is a reality.

The men caused a volume of methyl fluoride gas to radiate coherent pulses of electromagnetic energy of high intensity and short duration. They did so by using a carbon dioxide laser to send an energy pulse through the gas, causing individual atoms to become excited and release photons simultaneously. These photons, or units of electromagnetic energy, were swept through the gas at the speed of light, gathering more groups of photons along the way and steadily increasing the intensity of the energy pulse.

atom is bombarded with energy, some of these electrons are knocked out of orbit and move away from the nucleus, increasing in energy in the process. That same electron or another displaced electron then returns to the vacant orbit position, releasing its recently gained energy in the form of electromagnetic radiation, called a photon.

Each photon is a short-duration, uni-directional burst of energy. The photon's frequency depends upon its energy level: the more energy, the higher the frequency.

Photons which make up ordinary light are incoherent: they are of many different frequencies and travel in different directions. Since the photons are emitted randomly, they aren't in phase with each other (photons are said to be in phase when they originate from a point source or are capable of being imaged to a point).

In a laser, light is amplified by the stimulated emission of radiation. Its atoms are "pumped": that is, they are made to absorb energy, thus becoming excited and releasing photons.

When a photon travels past an atom in the excited state, it triggers the release of that atom's photon, without losing any of its own energy. As this process continues in a laser, more and more photons are produced, all

other photons, and become influenced to emit their energy in step with the others. They can't do it individually, but are induced by mutual interaction to emit photons simultaneously. In effect, the atoms are communicating."

As an energy pulse travels through a volume of material at the speed of light, explained Howgate, atoms begin to release their photons behind it. Since the pulse is traveling at the speed of light, events occur in a retarded time frame. Thus everything which happens as the pulse progresses is influenced by what happened before. Atoms in the early part of the system have time enough to communicate with atoms at the end via the pulse.

Cumulative effect

In other words, said Howgate, the pulse causes a cumulative effect: an atom in its path sees an intense field of electromagnetic energy behind it, and must release its photon at that time and no other.

"The result is a pulse of electromagnetic energy which is very narrow and of abnormally high intensity," said Bowden. "Swept-gain superradiance gives the greatest intensity by far of any known electromagnetic energy amplification method. In fact, it gives the maximum intensity possible in accordance with physical conservation laws."

In a laser, said Bowden, the intensity of the pulse is directly proportionate to the number of atoms participating. But in swept-gain superradiance, the intensity is proportionate to the square of the number of atoms.

Superradiance itself is not a new form of energy amplification, explained Ehrlich. It was introduced in 1954 by a scientist named Dicke. But Dicke superradiance has many limitations which swept-gain superradiance has overcome.

Dicke superradiance

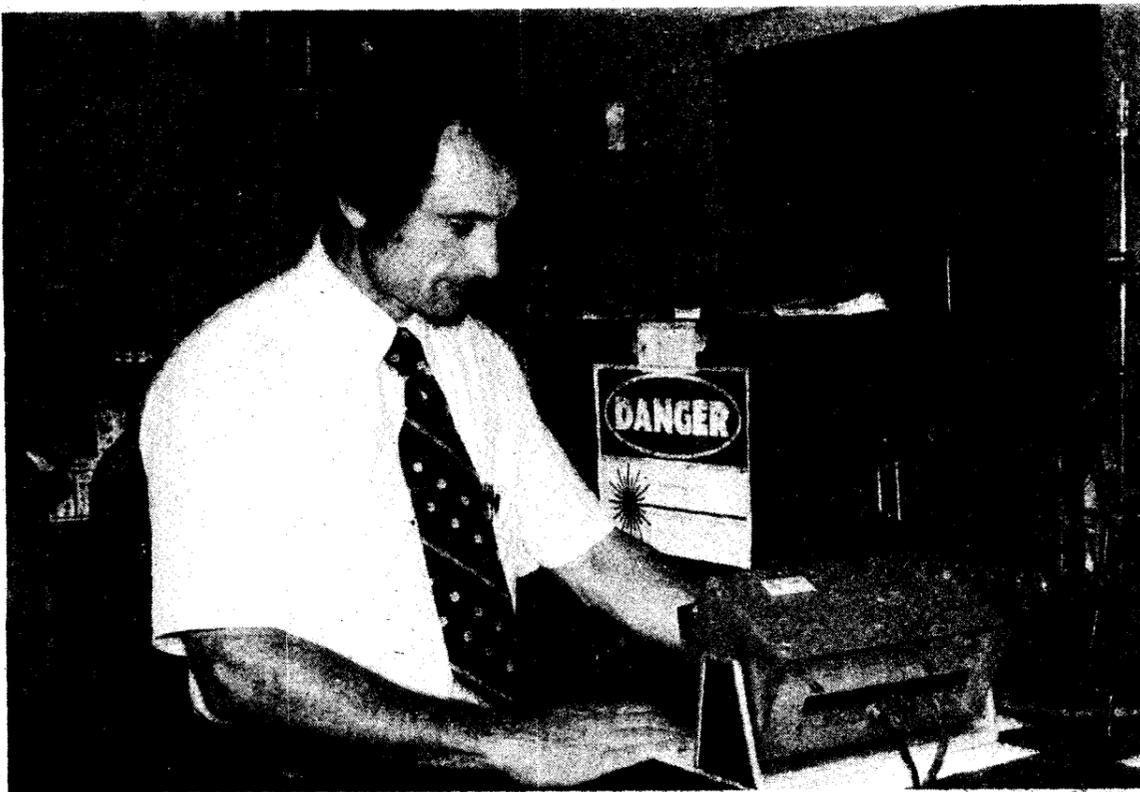
In Dicke superradiance all the atoms of a material must be stimulated at once; thus the process can work only within certain rather narrow volume and density restraints.

Because swept-gain superradiance sends the excitation down the major axis of a volume of material at the speed of light, there is no volume limitation. "That's perhaps the most exciting thing about this process," said Ehrlich. "The only limitation on our glass cell holding the treated material is the room size."

Again, in the swept-gain process higher density materials, instead of limiting the volume that can be superradiated, simply produce narrower, more intense pulses. In swept-gain superradiance the time relation of the pulse is inversely proportionate to the pressure, whereas just the opposite is true of a laser: higher pressure results in a broader wave.

"Swept-gain superradiance is very forgiving," said Bowden. "Only two conditions must be met: the excitation pulse must be swept through the material at the speed of light and the gain-to-loss ratio of excited atoms must be greater than one (i.e., more excited atoms must release photons than not)."

Swept-gain superradiance is also more controllable and efficient, said Ehrlich, because it produces a uni-directional signal, with almost all of the radiation following the pulse pump, whereas in Dicke



Bowden monitors the pump laser's performance

"The theory of swept-gain superradiance existed in different forms as early as 1975, when scientists at the University of Arizona predicted the concept," said Howgate. "Dr. Bowden refined and extended the theory and we successfully conducted the experiment verifying its validity."

According to Ehrlich, it took a year to assemble the apparatus, put it together, test it and get it working.

"This is not a laser; it uses no mirrors," said Bowden.

"In a laser, the radiation is coherent but the atoms which contribute photons to the laser radiation do not do so collectively. In swept-gain superradiance, the atoms do contribute collectively to the coherent radiation field. As a result, pulses of much higher intensity are produced."

Bowden explained that an atom is like a miniature solar system, with a heavy nucleus and orbiting electrons. When the

the same frequency, in phase and moving in the same direction. Thus the emitted radiation is coherent.

To maximize the release of photons a laser has a totally reflecting mirror at one end of the material and a partially reflecting, partially transmitting mirror at the other end. Photons are reflected back and forth, triggering many emissions before exiting through the partially transmitting mirror.

"In a laser, an atom emits a photon, which stimulates another, and so on, like a row of dominoes each toppling another," said Bowden. "But in swept-gain superradiance the atoms, influenced by their mutual radiation field, all release their photons at once. A multitude of atoms behave as one big atom."

"In superradiance one atom tries to emit a photon," said Howgate, "but all of the atoms are trying to do so. They all see the

e energy

superradiance the signal is bi-directional, being as strong at one end of the glass cell as at the other.

According to Bowden, the Redstone trio was first to observe the transition from Dicke superradiance to swept-gain superradiance, which they induced by increasing the pressure in a volume of material while exciting it.

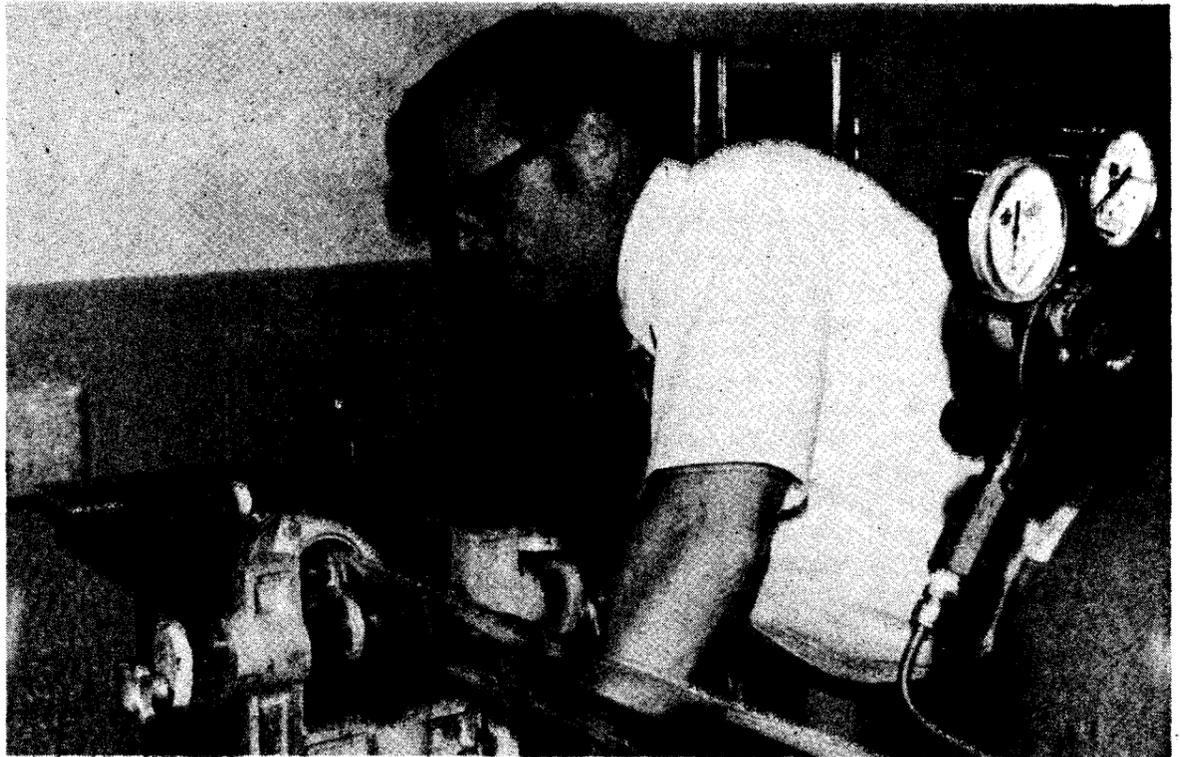
Potential applications of this new energy amplification process are many, said Howgate. "Our program, both theoretical and experimental, and the direction it's going in has implications that could affect a very broad area of technology. The potential world of directed energy and its devices is vast and not just confined to specific commercialized representatives such as conventional lasers," he said.

Several factors make superradiated energy useful, according to Howgate. The pulse shape and intensity can be controlled by changing the pressure. Also, the radiation emitted is available at all frequencies in the electromagnetic spectrum.

Perhaps most important, however, is the narrowness and high intensity of the pulse. "With a single beam you don't have a lot of energy to spare," said Howgate. "You have to do the most with what you have. By pinpointing the energy, you maximize it."

An important potential use of swept-gain superradiance, according to Bowden, is in plasma diagnostics, the measurement of temperature, density, etc. of plasma, a peculiar gas in which ions behave independently.

"You need short pulses for plasma



Howgate inspects the glass cell which holds the methyl fluoride gas

diagnostics," he said, "otherwise plasma reflects the radiation."

Since swept-gain superradiation requires no mirrors, said Bowden, it could also be used to generate coherent, directed X-rays, which would be of great use in medicine. Coherent ultra-violet-radiation might also be produced by this technique.

Another potential application, said Bowden, is controlled fusion: taking the same process that happens uncontrollably in a hydrogen bomb and controlling it to produce useful energy without contamination.

"One way to produce fusion is to contain plasma in a magnetic field, increase the magnetic field quickly and try to get neutrons out of it. But plasma instabilities prevent you from containing it," said Bowden.

"We could possibly use superradiant energy to compress the plasma and raise it to a higher temperature at the same time, thus inducing fusion. Then we'd have nuclear energy without the problems of nuclear waste."

The work of these three men has captured the attention of the national research community. A paper on their experiments recently won them the Paul A. Siple Award for best paper presented at the bi-annual Army Science Conference. They have also read papers at the 8th Winter Colloquium on Quantum Electronics and at other scientific meetings. They have published their findings in a book entitled *Coherence and Quantum Optics IV* and are submitting articles to scientific journals, including the *Physical Review*.

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Chief engineer visits Huntsville

Lieutenant General John W. Morris (U.S. Army), Chief of Engineers, and members of his staff visited Huntsville on Friday to meet with Colonel Dale E. Dobson, Division Engineer, at the Corps of Engineers' Cummings Research Park Offices.

The purpose of Morris' visit was to verify the assignment of and clarify new missions recently assigned to the Huntsville Division.

The new missions, both technical and administrative, will involve primarily personnel now available within the Division. Newly assigned missions include program management of the Army's Pollution Abatement and Control programs; development and operation of a Construction Guide Specification program; responsibility for the administration and operation of the Corps of Engineers Training Program; responsibility for administration and accomplishment of the Corps Military Design and Construction Evaluation program; and execution and management of the Army Facilities Components Systems.

In making the new mission assignments, Morris indicated that the Huntsville Division will continue its current missions as a specialized field operating agency of the Corps. He said the new missions are a direct result of the outstanding record attained by the Division in its current missions.

Accompanying Morris on his visit were two former Huntsville Division employees now serving on the Chief of Engineers staff. They are Lee Garrett, Chief Engineering Division, Military Construction Directorate and George Erie, Deputy for Financial Activities.

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The handbook, along with an instruction packet for Organizational Emergency Action Officers, will be distributed at the next meeting for those officers, tentatively scheduled in late summer. The EAO's will then distribute the brochures in the organizations which they represent within MIRCOCM, MIRADCOM and Patriot.



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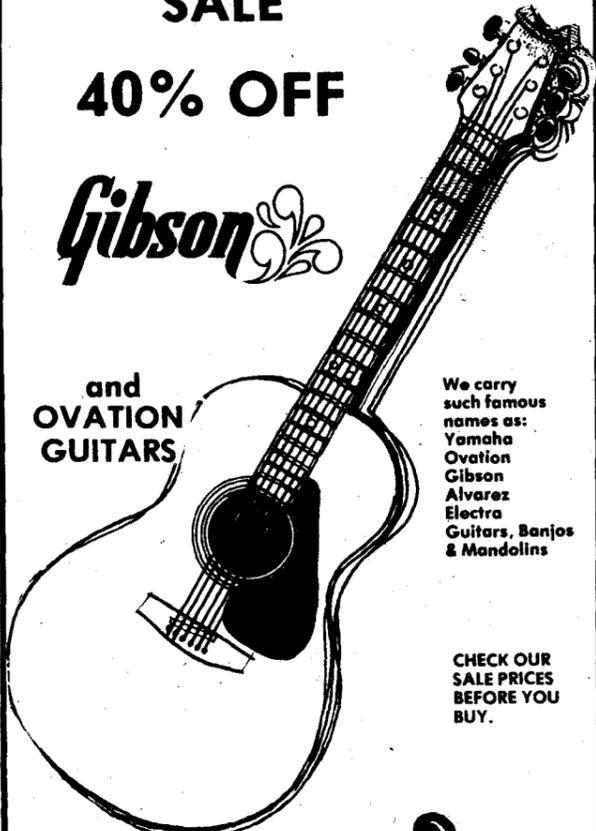
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Installation of smoke detectors in all family housing units on the arsenal will be completed under a contract to be let in July.

A spokesman at Facilities Engineer said the detectors are to be installed in 702 houses by early fall. More than 450 military

residences already have been equipped with detectors.

Detectors in homes at Redstone will be in place in plenty of time to meet an Army goal of having them installed in all on-post family housing units in the United States by the end of December.

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COURSE SCHEDULE — EARLY FALL TERM (August 30 — October 25)

11-571	Radar Systems	MW	4:30-6:40	Gilbert
11-644	Guided Weapon Control Systems	TT	4:30-6:40	Pastrick
17-514	Computer Data Structures	MW	6:50-9:00	Covelli
17-544	Computer Hardware Organization	TT	4:30-6:40	White
17-624	Interactive Computer Graphics	TT	6:50-9:00	TBA
21-691	Consequence Analysis	MW	6:50-9:00	Jackson
24-511	Marketing Theory and Practices	TT	6:50-9:00	Psihas
24-534	Federal Financial Management	TT	6:50-9:00	Taylor
24-795	The National Economy	Arranged		Psihas
27-671	Research and Development Management	MW	4:30-6:40	Jackson
31-541	Modern Engineering Analysis	MW	6:50-9:00	Watson
34-547	Laser Fundamentals	TT	4:30-6:40	Roberts
34-691	Optical Processors	MW	4:30-6:40	Poulsen
90-621	Master's Project	Arranged		Staff
90-711	Doctoral Research (DSc)	Arranged		Staff
90-721	Demonstration Project (DBA/DPA)	Arranged		Staff

TENTATIVE COURSE SCHEDULE THROUGH JUNE 1979

LATE FALL TERM (Oct. 26 — Dec. 21)

11-561	Infrared Systems
11-614	Microwave Electronics
17-501	Computer Methodology
17-647	Computer Architecture
17-691	Requirements Language
21-611	Management Responsibilities & Practices
21-614	Organization Development
24-551	Government Contracting
24-795	Modern American Federalism
27-631	Reliability and Maintainability
31-501	Quantitative Methods for Managers
31-544	Mathematics of Signal Analysis
34-691	Laser Beam Propagation

WINTER TERM (Jan. 2 — Feb. 26)

11-621	Nuclear Effects on Electronics
11-671	Advanced Radar Systems I
14-547	Missile Aerodynamics
17-571	Computer Program Development I
17-691	Distributed Data Processing
21-621	Management Decision Making
21-691	Conflict Management
24-634	Federal Managerial Accounting
24-795	The Free-Enterprise System
27-544	Cost Estimating Techniques
31-617	Applied Stochastic Processes
34-649	High-Energy Lasers
90-701	Research Methodology
90-704	Research Proposal Development

EARLY SPRING TERM (Feb. 27 — Apr. 30)

11-672	Advanced Radar Systems II
11-684	Digital Processing of Signals
17-547	Microprocessors and Microcomputers
17-691	Algorithm Analysis and Design
21-642	Psychology of Abnormal Behavior
21-691	Information Management
24-637	Business Financial Environment
24-795	Human Resources Conservation
27-614	Government Contract Law
31-521	Operations Research Techniques
34-561	Nuclear Weapons Phenomenology
34-691	Laser Radiation Effects
34-691	Fiber-Optic Systems

LATE SPRING TERM (May 1 — Jun. 25)

11-681	Signal Processing
11-641	Advanced Control Systems
17-501	Computer Methodology
17-644	Computer Telecommunications
21-617	Policy Formulation and Evaluation
21-641	Human Behavior in Organizations
24-795	Legislative Processes
27-671	Project Management
29-611	Business Legal Environment
31-661	Numerical Computing
34-541	Contemporary Optics
34-691	Optical Systems Design

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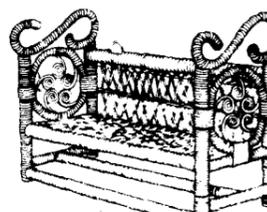


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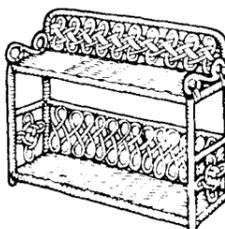
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Archaeologists

(From front page)

Purpose of the survey is to locate areas of archaeological significance so they will be a consideration in land use and construction planning for the future, according to Bill Schroeder of the Redstone Environmental staff.

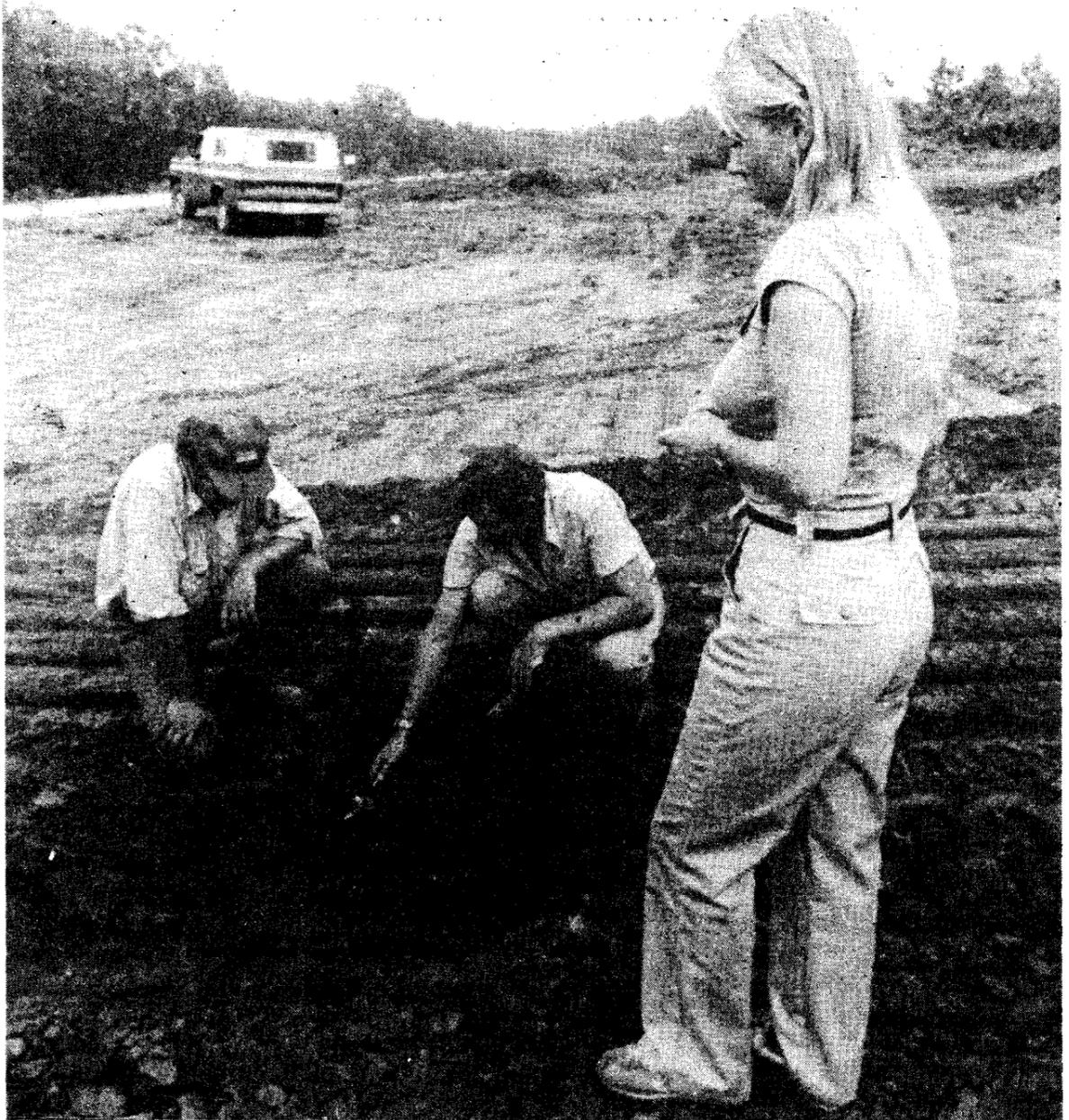
Schroeder said it is a "reconnaissance" involving no digging except for spot shovel tests at likely sites.

Lawrence Alexander, a graduate student who is performing the field work, said Friday that 42 sites have been examined so far. Eight of the sites are old farmsteads. The rest are prehistoric. The archaeologists will finish up at the end of this week.

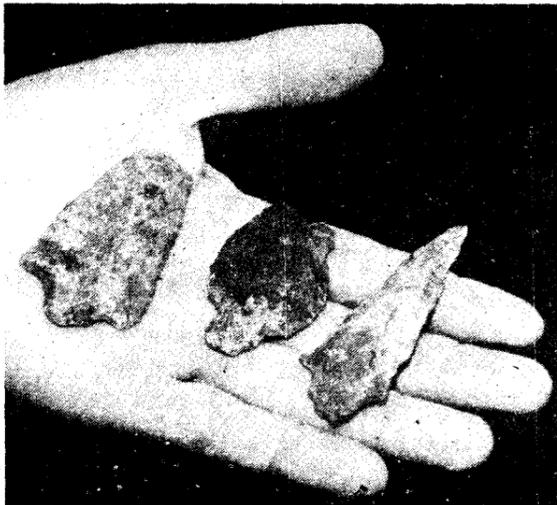
What's there

"What we're doing is going into an area, seeing what's there and assessing its potential," said Alexander. Where artifacts are found, their type, age, concentration and state of preservation, along with physical characteristics of the area such as locations of streams, are clues to the human culture that was there — whether it was a nomadic people who encamped, stayed a short time and drifted on, or whether they established a village of some duration.

Some sites here are yielding a variety of arrow and spear points; cutting and scraping tools; and pounding and grinding implements. Others contain only midden, debris in the form of flint, shell and pottery fragments and the like.



SEARCH — Schroder uses a trowel to scrape the surface as Alexander and Joy Gibson of the university observe



Projectile Points

The abundance of sites here is common throughout the Tennessee Valley, which has been occupied continuously and intensively for 20,000 years or more — longer than any area east of the Mississippi River, according to Carey B. Oakley, the university's director of archaeological research.

While many sites were discovered and studied in the 1930's in connection with TVA water projects, many remain that are in need of more study or are undiscovered, Oakley said.

On the arsenal, the archaeologists discovered what they believe are two Indian burial mounds that possibly belong to the Copena culture which dates approximately from A.D. first century to 500.

An apparent burial cave has also been discovered here. Ancient human bones recovered from it are presently being studied by a university anthropologist. Both the cave and the mounds are expected to be thoroughly studied in the near future.

A burial cave would be a particularly rare find, said Oakley, as only about 10 are known in North Alabama.

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4000 MEDFORD — (Corner Medford and Drake) Sprawling brick rancher (2377 sq. ft.) large corner lot. Oversize double side entry garage, fenced yard (very private) large rec. room and den (w/FP) Four BR's. New carpet and paint. Total price \$69,500 — Equity \$13,000. Will consider trade. 533-1490.

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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 just \$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 patio, large kitchen, full bathroom. See plans at South office. \$65,900. (C906A) 883-1200

IS YOUR WIFE A DREAMER? Has she been dreaming of decorating that better than the best? Well, here's the chance while there's still time. New development now starting across from YMCA on 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, sunbeams, 4 bedrooms (large master), 2 1/2 baths, beautifully decorated and brand new. \$65,900. (C9007)

DEN & REC ROOM ... Tri-level, 2050 sq. ft. nearing completion. Beautifully decorated and wallpapered in shades of rust and dusty gold. Four bedrooms, 2 1/2 baths, fireplace in den + + Rec Room, paneled in plank 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 living room, dining room, kitchen, bathroom, large ceramic bath. Fully carpeted. All furniture & appliances & drapes remain. fully equipped. Returns \$120.00 each unit per month. (\$7,200 annual). Total price \$65,000. (28009th). 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 850 square foot rec room, 4 large bedrooms, 2 1/2 baths, large living and dining room, eat-in 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.

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" the special features that incorporate into this charming family type home. Construction is Brick, frame & stucco. Large two car garage. Fenced rear yard, nice shrubbery and a floor plan that will make you say, ahhh! Let me show this exclusive to you. It is truly an investment in happiness. \$61,500. 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 paneled large corner "for size" 3 a/c bath (large upstairs area with expansion possibilities ... great for storage now) Weather protector carport, good size utility. Laundry room inside. And all these Goodies too. Cushion wall to wall carpeting — stone fireplace, beamed ceilings, wainscoting, drapes, and its sauce pan bright! 1500 sq. ft. and the children can walk to Grissom. (SR1016) 883-1200.

ROCKMONTON-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, luxurious, fully equipped eat-in kitchen, and load of built-in features. Large kitchen 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 Huntsville. Asking \$64,900. We'll throw in its "Million Dollar View" of the lake below for absolutely nothing. (CL) 883-1200

\$50's

WELCOME NEW COMER This spacious home is ready to occupy. You will like the parquet floor foyer, living room, separate dining room, sunbeams, den with fireplace, patio, sundeck, 4 bedrooms, 2 1/2 baths. Purchase large equity and pay \$257.32 a month or conventional financing with \$11,500 down. (11413 W)

TAKE A TRIP TO PINE LAKE VILLAGE and you will want to stay when you look at this lovely 3 bedroom, 2 bath brick English tudor with 1800 + sq. ft. of excellently decorated floor space. Home features large den with fireplace, living room, dining room, 3 bedrooms, 2 baths, study and a beautiful eat in kitchen, inside utility room, 2 car garage. Beautiful lake front lot. 1-753-2295.

IMPRESSIVE SPLIT-LEVEL under construction in Fox Run one of Huntsville's finest 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 Russell Hill. Large living room w/fireplace. The most inviting kitchen/family room offers a wall of brick. 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, cent. heat and air. A quality home for a reasonable price. \$59,900. 533-1490.

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. Sectioned, 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 20x50 metal shed. Located on Hwy. 231 just South of Morgan City. Shown by appointment only. Nothing on the market like it for \$51,500.

1976 SQ. FT. of living area plus 2 car garage all add up to a neat package for the price. Rec. room and study, fully equipped kitchen, 3 baths (14004C) 881-9111.

3 BEDROOM AND STUDY or 4 bedrooms, great room with fireplace, 3 baths and fully carpeted. Walk to Mt. Gap School (14010 CT) 881-9111.

SIESTA in this Spanish ranch located in Gourdneck. 3 bedrooms, 2 baths, great room with fireplace \$54,800 (2518 Weatherstone) 881-9111.

STATUESQUE 2 story brick with large lot. Formal living and dining rooms, 4 bedrooms, and 2 1/2 baths. Den with stone fireplace. Storm windows and finished double garage (13070 Lane) 881-9111.

IT'S IN TO BE OUT — Relax in beautiful Sunset Meadows. Rambling French Provincial by one of the best builders around. Quality construction very few houses offer. 4 bedrooms, 2 baths, large den with fireplace. Champagne appliances in kitchen. \$9,400 (118L). 881-9111.

UNFINISHED BASEMENT is pocketbook pleasing. On a wooded lot with 3 bedrooms, 2 baths, fireplace, double car garage (14002C) \$50,900. 881-9111.

GOURDNECK — Continue on Chaney Thompson Rd. from our new basement ranchers and turn right at Gourdneck. View a lovely Spanish ranch — 3 BR's, 2 baths, 2 car garage. \$54,800. 881-9111. (Streets are paved and lots are ready for your selection.)

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. (14003A). 533-1490.

OUTSIDE CITY — STOP: Just one step outside the city next door to Riverton School. LOOK: View this new 3/BR rancher, LR/DR combo, large sunken den w/fireplace, 2 baths w/vanities, large kit. w/breakfast area. LISTEN: situated on 1.7 acres, app. 8 miles from North Parkway out Winchester Road. \$56,500. 883-1200.

MUST SELL — here's one you can save a bundle on. Five bedroom basement rancher on an acre lot with 3 baths, eat-in kitchen, formal living and dining room, den, rec room, game room, inside laundry, and large storage room. Especially well designed for large active family. This home has been completely redecorated and repainted and has a current VA appraisal of \$74,500. (NDHRd.) 883-1200.

TWO BASEMENT RANCHERS will have finished basements (Spacious bedroom for family fun) — bedroom and bath for guests. 2 BR's, 2 baths upstairs — fireplace, 2 car garage. \$51,000. (CT — 881-9111).

SUNSET MEADOWS, N.E. — 2-story brick on 1 acre lot has a great floorplan. LR, separate dining, large kitchen den combo, granite golds and browns to blend in with stone fireplace equipped in heater. Large pantry and 1/2 bath in utility area: Storm windows, 2 car finished garage. \$55,700. (881-9111).

PALE GREEN — French Provincial ranch with so much charm. 4 BR's, 2 baths, spacious den with stone fireplace. Large eat in kitchen with bay window in blues and white with beautiful cabinets. Storm windows, 2 car finished garage. \$59,400. (sm) 881-9111.

WHO WOULDN'T ENJOY this location for the whole family? Quiet cul-de-sac, good neighbors, wooded lot, close to schools and shopping — waiting to welcome YOU — this spacious 4 BR, 2 1/2 bath tri-level, with eat-in kitchen and bay window. Den with fireplace, and 2 car oversized garage that will please Dad. Fully carpeted and draped — lovely new sundeck. \$59,950. (W11413) 881-9111.

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. \$56,500.

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

BLUFF LOT — with panoramic view of Guntersville Lake. 2400 sq. ft. Two kitchens, super den features a storage bench under a wide window and three bookcases and a fireplace (really something else) flanked by a stone wall. 4 bedrooms, 3 baths, separate living room & dining room. Inside laundry area, central heat and air. Exterior of cedar shakes & stones & western cedar. A deck that covers the whole back of house. Only \$59,950. (CL) 883-1200.

\$40's

JUST LISTED — Extra special three bedroom home backing up to golf course. Well finished rec room, living, dining combination with stone fireplace, eat-in kitchen, separate den, central heat and air system, many extras. \$40,000. (1717 L). 883-1200.

CEDAR POINT — Tri-level offers a charming living room with fireplace. The formal dining has inviting french doors leading to a patio. 3 well decorated bedrooms, 2 baths, cozy den downstairs, huge utility room. All on a lightly wooded well groomed lot. \$43,900. (N3925) 883-1200.

TRIBE SIZED — If you have a large family, a live-in mother-in-law, or just need a lot of room, this home is for you. Features include 5 bedrooms, huge den, living room & dining room, 3 baths, large kitchen, and much more, and you will be surprised at the price. (W2204). 533-1490.

DON'T JUST DRIVE BY — Stop and let me show you this lovely home. The great street appeal of this brick split-foyer includes a beautiful landscaped yard of well trimmed shrubs and trees. Also the backyard has a developed garden, mature fruit trees, & still has enough room for the children to play. The friendly neighborhood will make you enjoy this 4 bedroom, 2 1/2 bath home just that much more. (3317HE). 533-1490.

PARKWAY ESTATES — Lovely new den with fireplace adds charm to the 3 bedroom, 1 1/2 bath brick rancher. Carpet over hardwood, inside utility room, plus SLEEPER 10' x 17' extra workshop in back. Large equity and low payments available on new financing in low \$40's. (7707H) 883-1200

COUNTRY LIVING YOU CAN AFFORD — Brick basement rancher located on a beautiful lot just 15 miles from the Whitesburg bridge and just North of Arab. Home is in like new condition and features 3 extra large bedrooms, 2 full baths, large den, living room, dining room and eat in kitchen, fully carpeted except kitchen, totally brand new central heat and air-conditioning system, in warranty. 2031 sq. ft. of private, yet convenient living plus 991 sq. ft. of basement with 2 car garage, 2 covered porches, outside storage building, Arab bus service to door and city water. Call Jim Coble at Home 1-753-2295 or ask for me at 883-1200. \$48,000 (R13, Box 236-A, Arab).

MONTE SANDO ... 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.

IDEAL LOCATION — Clean, excellent condition! Acre lot with trees, LR separate Dr, Den, 3 BR's, 1 1/2 baths, priced for quick sale — This lovely brick rancher is a lovely — Well constructed older home. \$44,900 (SL) 533-1490.

DADDY will love this detached 20 x 30 workshop — plus 3 BR, 1 1/2 bath brick ranch on 160 x 200 lot on Cadillac Dr. Carport & storage room. \$44,900. (881-9111).

HURRY, THIS BUILDER HAS ONLY ONE LEFT ... Yes, the other 3 have been sold. You can pick carpet, wallpaper, etc. in this 3 bedroom, great room with fireplace, 2 baths and garage. Only \$43,200. (103LS) 883-1200.

3 BEDROOM RANCHER with 20 year siding. Great room with fireplace, 2 baths, fully carpeted. (13002 B) \$42,500. 881-9111.

NEW 3 BEDROOM, 2 bath home with foyer and great room with fireplace (10425) \$44,500. 881-9111.

UNFINISHED BASEMENT home boasts 3 bedrooms, 2 baths, laundry in basement, 2 car garage. (14012 CT) \$48,700. 881-9111.

ENERGY SAVING BASEMENT rancher on Chaney Thompson. 3 bedrooms, 2 baths, 2 car garage \$46,500. (14006CT) \$48,700. 881-9111.

NESTLED IN THE PINES on a beautiful corner lot this immaculate tri-level home features 3 bedrooms, living room, kitchen with separate breakfast room, 2 baths, large den, 2 patios, large utility building, great garden spot plus many other nice features, won't last long! (11318 A) \$46,500. 883-1200.

SHOWPLACE TYPE HOME — Large corner lot (Carmel & Winchester) Impressive split foyer all brick, DBL garage, 4 nice BR's & Large den, new central heat & air. Total price \$42,900 — Will accept trade. (6001C) 533-1490.

WATCH YOUR WIFE'S EYES SPARKLE — When she sees this one! Beautifully decorated 2 story home — FEATURING: Formal LR, Formal DR, 4 BR, kit./Den combo, 2-Baths, \$45,900. Call 533-1490. (11306H).

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. (P6032). 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.

\$30's

DO YOUR THING — on this beautiful acre lot — not located in housing development, lot in nice area. Conveniently located between Huntsville & Madison. This 2 BR brick rancher is spotless & tastefully decorated. It would become an excellent investment for you as a single or for a beginning family. \$31,900. (SL).

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 kitchen, dining room, den, roomy eat-in kitchen, 3 bedrooms, 1 1/2 baths & a double car garage. Also, you will find a patio with privacy fence, fenced back yard and well established yard. Everything you need in a home. 533-1490. (C5006)

MOVE UP — to this quality constructed brick home located in a quiet stable neighborhood. This home features an entry foyer, formal living & dining room, den, roomy eat-in kitchen, 3 bedrooms, 1 1/2 baths & a double car garage. Also, you will find a patio with privacy fence, fenced back yard and well established yard. Everything you need in a home. 533-1490. (C5006)

NEW LISTING — WALK TO TWO SCHOOLS — Madison Pike & West Lawn from this brick rancher immaculately decorated on inside, featuring large den w/fireplace, 3 bedrooms, 1 bath, new carpets, ready to move in. Home is located with garden spot and utility bldg. Wonderful neighborhood. More details, call 533-1490. (BW4602)

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

GOT A LIVE-IN RELATIVE — Need a private place — This is it! (Dad can have his own "dog house"). Two houses — main house has 3 bedrooms, 2 baths, large living room, nice den kitchen combo, single garage, extra house has 2 rooms finished, bath, and single garage ready to become a finished apartment. All this located on nice wooded lot in Arab. \$37,000. Call Jim Coble at home 1-753-2295 (Arab) or ask for me at 883-1200 (12th Ave).

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)

If you're serious about getting a lot for your money, this 3 bedroom brick rancher has 1688 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. This home sits on a large lot big enough for a garden. Mature trees. Walking distance to elem. and high school. (S4005) 533-1490.

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.