

# The Redstone Rocket

VOL. XXVII; NO. 28 NOVEMBER 29, 1978

## Fools rush in ... to arsenal testing ranges

By BOB HUBBARD

A Redstone Army sergeant, accompanied by his wife and two kids in a van, drives up to a locked gate at a remote Redstone test site. Ignoring the locked metal bar across the dirt road and a brightly-colored sign warning "Danger — Laser Light," the sergeant pulls a couple of fence posts from the ground and drives through the barricade, onto the range.

A laser test is in progress!

Miraculously, the sergeant and his family drive across the range under the beam. That was the good news. The bad is that the family could have suffered severe and permanent eye damage.

They were lucky . . . this time!

Redstone is a big place of breathtaking beauty, encompassing more than 60 square miles of forests, brooks and rivers, open fields of waving grass and sagebrush, teeming with wildlife. It's a mecca for nature lovers, hunters and fishermen who abide by the rules.

Conversely, Redstone is the home of Army missiles and rockets and a few areas are restricted to research, development and testing of Army weapons. And those people



**Better turn back — your life may depend upon it.**

who ignore warning signs and locked gates to enter missile and laser test ranges are accidents looking for a place to happen.

"We haven't killed or injured anyone . . . yet!" Bill Storey and Jim Taylor, two MIRADCOM test experts, said this week, talking about the burgeoning problem, "But there have been several close calls." Storey is Chief of Flight Operations Division,

MIRADCOM's Test and Evaluation Directorate and Taylor is Chief, Reliability Test Division.

"There's no way to preclude entry to intruders who ignore signs, fences and gates. Redstone is just too big. Sometimes intruders even cut fences and drive through

(Continued on page 12)

## Vandals

### Modern shootists use Redstone for target practice

Late on a cold November afternoon last year, Ron Harmon was enroute to a job on the south end of the arsenal. He had just pulled on to Patton Road from Mills when the clutch quit working on the Army pickup truck he was driving. It was a Friday, too late in the day to get a tow truck, and he was forced to leave the vehicle at the side of the road. He notified the military policy station of the disabled vehicle, and went home for the weekend.

That Monday he learned that the minor problem in the clutch linkage would be no trouble to fix. But it would take some time to patch up all the bullet holes.

Harmon, chief of the Redstone Utilities Branch, was well aware that shooters can be indiscriminate in picking targets, having seen the damage done here to street lights, traffic signals and other fixtures maintained by his outfit. But he was aghast at the wanton vandalism to his pickup truck. "It was just senseless . . . I have no idea who did it or why," Harmon remarked.

Vandals appear to take a pretty big toll at Redstone, judging from survey of facilities, game and police personnel.

The most frequent targets are road signs. Signs bearing bullet holes or the spray-pattern craters of shotgun pellets can be seen on virtually any road on the arsenal. "They really butcher 'em," says Loyd Tallent of the Sign Shop. Those that take the worst beating are at access gates that close at night, he said. At the main gate at Martin Road, for example, signs — as well as barricade lights — are shot up about as fast as they can be replaced. In one recent instance eight rounds were drilled through a single light, reports Arthur Barnette, who heads the Electrical Section here. "It was at such a close range that you could see the powder burns," he said with a note of disgust. They are being shot at from outside the arsenal.

On occasion vandals set their gun sights on bigger targets, like cows. Just a few months ago one was slain in the pasture

behind the new hospital. As many as six cows in a year have been killed here, according to Dave Bryant, who manages arsenal pasture leases. There may be instances where cows are unintentionally shot by hunters, but there are also clear-out cases of willfull killing. In one case a cow grazing at the fence line on Neal Road was shot point-blank between the eyes. In another, the lessee was tending his herd in a pasture behind MIRCOM headquarters building when one of his cows was felled by a gunshot from the road. The assailant was seen fleeing the scene in an automobile.

In nearly all cases of cows being shot, "It's purely malicious — they don't even take the meat," said Bryant.

As a result of vandalism, hunting has been barred on some portions of the arsenal. "It's why McKinley Range was closed a couple of years ago. It's why other choice hunting areas were closed and

(Continued on page 12)

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# OPINION

## Kicked out of kindergarten!

### Some folks just never grow up

My friend Paula came into the office in tears yesterday.

"What's wrong?" I asked her.

"Oh, I am so **DEPRESSED**," she moaned. "I've been thrown out of kindergarten."

Her mascara was starting to run so I handed her a kleenex. "Why don't you start at the beginning," I suggested.

Paula blew her nose and took a deep breath. "Well, a few weeks ago Tom suggested that we put little Tommy into kindergarten — you know they have a school right here on the arsenal."

"No, I didn't know. Where is it? What sort of hours does it have? Is there a cost? Is it open to civilians, or just military?"

She looked at me in disgust. "Honestly, this reporting job has ruined you as a friend! You never used to interrupt me with such trivial questions. All right, here goes: The school is in the Bicentennial Chapel. It is not a religious school. They teach pre-school and kindergarten, and there is a small tuition to cover expenses. It is open to any military family and the hours are from nine to twelve. Does that satisfy you, Lois Lane?"

"Sorry," I muttered. "Tell it your own way."

Telling it her own way meant she had to start crying again. She gave me a dramatic look from over her kleenex.

"You know I never got to go to kindergarten," she said.

I hadn't known, but I was afraid to interrupt again.

"I know that's the basis of my problems in life," she went on. "I never got the proper socialization at an early age. So naturally I agreed with Tom that little Tommy should have all I missed."

Paula paused to get another kleenex.

"I talked to the director of the school and she was a very nice person. I was so impressed with the program. They teach phonetics to the kindergarten classes —

## 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 wantads — 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.

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## Energy Conservation Now

### House Calls



by KATHY HOUSE

Tommy can read and write his own name now. And the children learn about social studies when they study customs of other lands. They study basic math concepts, too — like what halves and quarters of things are. Even the pre-schoolers learn about animals and holiday customs. They go on field trips. And of course they learn how to behave in a classroom and how to get along with other children."

I wrinkled up my forehead. "Sounds hard to me."

"Oh, but it isn't!" Paula exclaimed enthusiastically. "It was the most fun I ever had. We drew letters of the alphabet and made their sounds and named words that begin with those sounds. And we got to color pictures of Santa Claus. We got snack time every day, and recess, too. The children were all friendly and the teachers were nice. My favorite time was Music, when we got to learn Christmas carols."

"Paula, why did you have to leave?" I asked.

She sighed. "The teachers said little Tommy couldn't adjust properly while I was there."

"Well, cheer up," I said. "You can keep up with your coloring at home. Try watching 'Sesame Street.'"

"I guess I **WAS** living in a fool's paradise," she admitted. "But there's one thing I really regret."

"What's that?" I asked.

"Now I'll never learn all the words to 'Silver Bells.'"

## Bag any cars lately, hunters?

By DOMINIC AMATORE

A great poet once wrote that the world will end not with a bang, but with a whimper. Well, that's one opinion. I thought this morning that it was going to end — for me at least — with a bang. I was almost scared to death by one.

As I drove to work this day after Thanksgiving, enjoying the lack of traffic resulting from many federal workers taking the day off, I noticed a pickup truck by the small wooded area adjacent to the parking lot behind Bldg. 5250. Then I saw a bright orange shape moving among the trees. As I got closer still, I saw a dog bounding through the trees near the road.

"Gee, is somebody hunting there, just yards away from the parking lot?" I asked myself.

I parked my car, making sure to keep several others between it and the trees. Hunters have been known to mistake cows for game, so why not a brown '70 Ambassador, I reasoned.

Sure enough, the next second, "BANG!" Prepared as I was, the gunshot still gave me a shock. I mean, I'm used to hearing the dull thud of missile and ordnance firing from test ranges, but hunters in the parking lot? The lady next to me just getting out of her VW when the shot rang out jumped about a foot off the ground.

I have nothing against hunters. I even work for one. But do we need them in parking lots? I think not. If this is an authorized hunting area, it shouldn't be — at least not on working days. I know bureaucrats have been mistaken for many things — but small game?

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## Roddy going to D.C. as DARCOM director

Brig. Gen. Patrick Roddy, MIRCOM Deputy Commander for the past 15 months, has been named the new Director of Materiel Management for the Army Materiel Development and Readiness Command (DARCOM) in Washington. He will assume his new duties Jan. 15.

Roddy's successor at Redstone has yet to be named.

The 45-year-old Tacoma, Wash., native first came to Redstone in August 1976 as Hawk Project Manager before becoming Deputy Commander of MIRCOM a year later.

An experienced logistician, Roddy is a graduate of Seattle University and holds an MBA from Syracuse University.

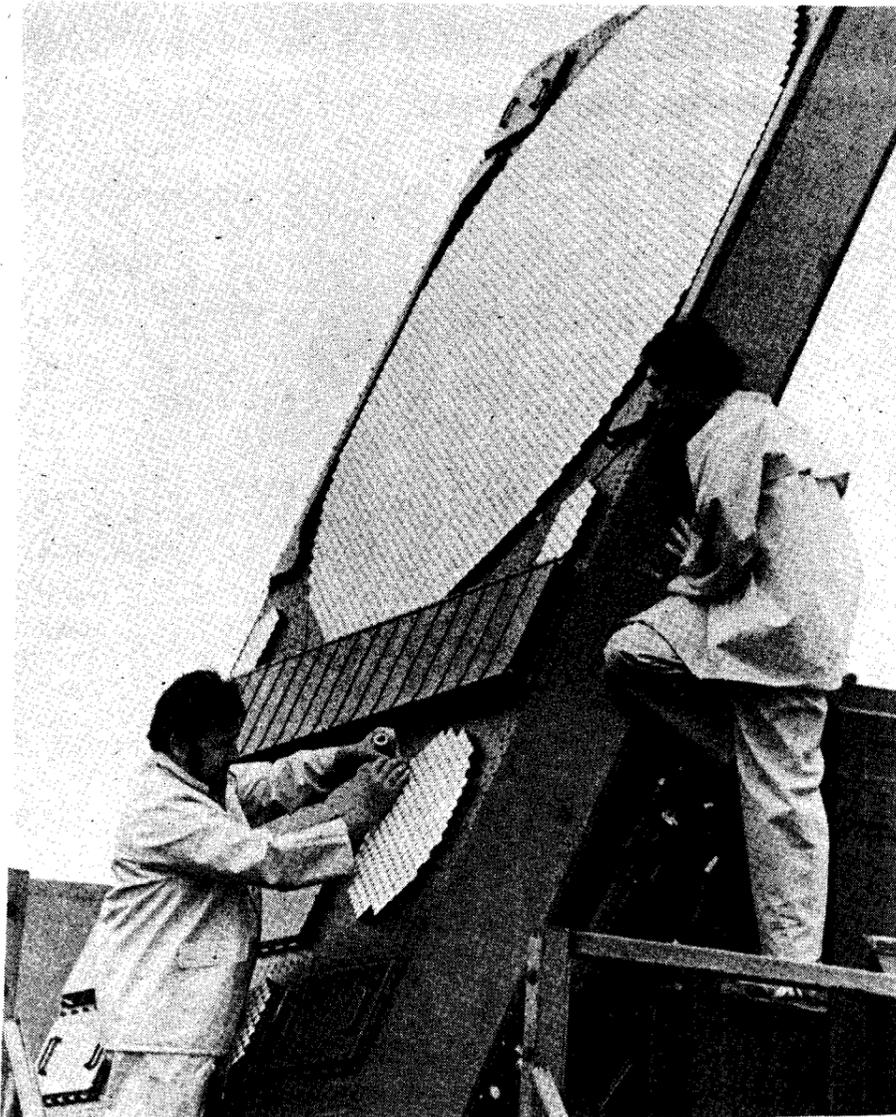
## Choose alternate specialties

WASHINGTON (ARNEWS) — Beginning this month, officers who entered the Army during FY 72 are selecting the alternate specialties that they will serve in when not filling primary branch assignments, MILPERCEN officials announced.

MILPERCEN this month began sending information and instructions to MILPOS and individual officers that will help them work together in planning career specialties, officials said.

More than 2,600 officers in this group have until the end of January to list four priority alternate specialties, officials explained.

Officers in the 1972 year group will be notified of final MILPERCEN alternate specialty assignments in April, they added.



**NEWEST PATRIOT RADAR** — Phased Array Radar for the Army's new Patriot air defense system is getting finishing touches at Raytheon Company's Andover, Mass., facility. The fifth and final engineering development model will be shipped to White Sands Missile Range, N.M., early next year for completion of the contractor flight test program.

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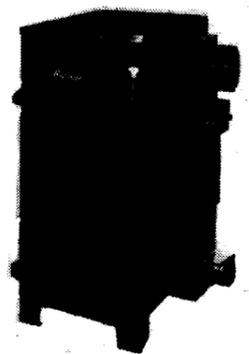
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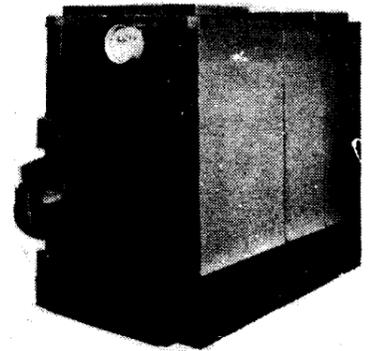
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 “I think it’s pretty good. You have the money waiting for you when you get out to help pay for your schooling. I’ve got \$50 a month going towards my educational benefits.”



**SP4 Larry Paul, Co. A —**  
 “Personally, I’m pleased with my benefits, but I think the new enlistee has lost out. School costs are pretty high, and the new enlistee who’s paying for his GI Bill every month is going to still pay more once they leave the service. I wonder how many new married enlistees opt not to have the new GI Bill because of the extra financial burden it will place on them. Let’s face it, the young married soldier just doesn’t make that much money to have an extra \$50 or \$75 taken out for future school needs, he needs the money now.”



**SP4 Calvin Sloan, HHC MIRCOC —**  
 “I think the GI Bill is an exceptional benefit for the soldier. I haven’t used it yet, because I plan to use it once I ETS. It will enable me to pursue a career in the field of my choice.”



**PFC Norman James, HHC MIRCOC —**  
 ‘Mine are fine. I think the soldier who came in under the new GI Bill got . . . (short changed). They’re facing the same things the rest of us are, but they’re not being entitled the same benefits. I think it should be changed for the better.’



**Pvt. 2 Mikel Freeman, 4th SC —**  
 I think it’s all right for the person who uses it. Personally, I’m not using it.”



**Pvt. 1 Mitchell Gloyd, 4th SC —**  
 “They’re pretty good. That’s why I’m in here, to go to college. I pay in \$75 a month, and the government puts in \$150. I came in under the new G. I. Bill.”

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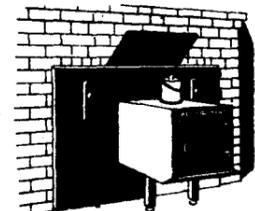
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# EPA lists Redstone dumps possible health threat



Sign at old Olin DDT plant site

Redstone Arsenal is one of three Alabama sites where toxic waste dumps may pose a threat to public health, according to the Environmental Protection Agency (EPA).

The agency reported in Washington last week that there are an estimated 638 chemical dumping areas in the United States that are potentially hazardous. Redstone is listed as one of 103 confirmed dumps that EPA has studied.

The other Alabama sites are an acid waste dump at Anniston and a barge unloading area near Decatur where 200,000 pounds of creosote was dumped in the Tennessee River in 1954. In listing Redstone the agency noted large amounts of DDT are buried here as a result of manufacturing operations formerly conducted by Olin Chemical Corp.

### New regulations due

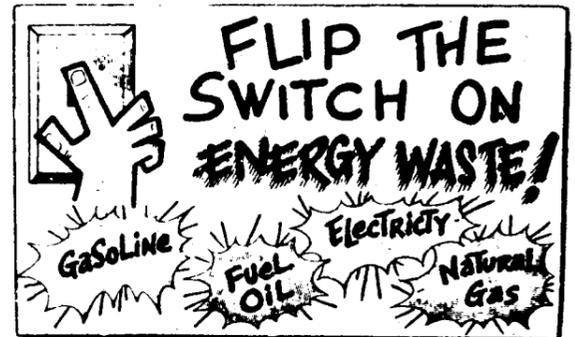
EPA reported that there are probably more than 30,000 dumps nationally that contain harmful wastes in varying amounts. The agency said new regulations dealing with disposal of harmful wastes are due out soon. From 30 to 40 million tons of hazardous waste is being generated each year according to EPA, with only 10 to 20 per cent of it being disposed of in ways that will meet the forthcoming standards.

EPA officials said the agency is becoming increasingly aware of improperly disposed chemicals and of old disposal sites that can leak toxic chemicals into the environment, noting that the latter are especially difficult to deal with. Remedial actions have been taken at many of the confirmed dumps, officials said.

A remedial program for DDT wastes at Redstone was worked out between the Army and EPA last year following a series of tests the Army conducted that revealed the pesticide waste still posed an environmental problem even though DDT manufacturing stopped here in 1970.

Noting that some disposal sites "may constitute imminent and substantial danger to public health and the environment," EPA cited the much-publicized Love Canal, a Niagara Falls, N.Y. community built on an old chemical dump site. New York health officials ordered evacuation of pregnant women and children from the neighborhood in the belief that chemicals dumped nearly a quarter of a century ago were seeping through soil into homes and causing miscarriages and birth defects.

EPA also cited a pesticide dump in Hardeman County in southern Tennessee where waste chemicals thought to cause cancer have contaminated a local water supply and water for drinking and bathing has to be trucked into the community daily.



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For information contact F.I.T. Resident Director, Dr. L. M. Winter or Mrs. D. C. Thomas, 876-1581 or visit the Center in Building 7446 on Warehouse Road, weekdays between 0900-1630.

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# Report studies Army missile, munitions, EOD units

By RAY ROWDEN

A detailed account of the significant problems affecting Army missile, munitions and explosive ordnance disposal (EOD) units is now being distributed to related activities throughout the Army.

The Missile and Munitions Evaluation (MAME-78) Final Report is the result of more than a year of work and cooperation by nine major commands within the Army's Materiel Readiness Command (DARCOM) and Training and Doctrine Command (TRADOC), including three from Redstone Arsenal.

The Arsenal Commands are MIRCOM, MMCS and the Metrology and Calibration Center (AMCC). Also participating were the Armament Materiel Readiness Command, the Logistics Center, The Administration Center, the Air Defense School, the Field Artillery Missile Systems Evaluation Group and the Infantry School.

Although much of the preparation and data analysis took place within the MAME 78 Project Office in the Directorate of Evaluation at MMCS, the actual collection of information carried MAME team members to units across the U.S. and locations throughout Europe. Units in the Pacific, Alaska and Hawaii were surveyed by mail.

The report focuses on the areas of personnel, training, doctrine, organization, materiel and publications. Within these areas the team members noted 258 problem areas. The report addresses these findings and makes recommendations for corrective action.

For example, the Executive Summary noted that there are significant problems affecting personnel in missile and munitions specialties. The report found troublesome the nuclear surety requirements of Army Regulation 50-5 and the fact that several specialties require more soldiers overseas than within the U.S. The report noted that these conditions have an adverse impact on personnel retention, reclassification, reassignments and morale.

This section of the report dealt at length with the problem of keeping trained people on the job: "Although the retention rates for missile and munitions MOSs are acceptable, they are consistently below the Army-wide average of 35 percent for first term reenlistments. In addition, these MOSs are besieged by migrations both into and out of the missile and munitions career fields. The resultant turmoil tends to have an adverse effect on the quality and quantity of personnel available in the field. The effect is most detrimental to the low

density, high cost specialties which require very high standards of technical proficiency."

The report also noted that a large number of qualified technicians leave the Army for better paying jobs with civilian industry.

Although it noted that MILPERCEN is already taking steps to improve the situation the report recommended adoption of . . . "a personnel incentive program designed to either retain or recognize quality, highly skilled technicians." It added, "Such a program could be as extensive as a monthly monetary incentive based upon demonstrated technical expertise and SQT scores, or as elementary as a consistent SRB with a multiplier of four."

From previous experience with MAME-71 and MAME-74-75, officials are expecting full cooperation from the affected units and organizations.

Copies of the MAME-78 Final Report and Executive Summary are available from: Commandant, USAMMCS, ATTN: ATSK-EV (MAME), Redstone Arsenal, AL 35809.

## Old switchboards to be revamped

WASHINGTON (ARNEWS) — Pre-World War II telephone "switching" networks at U.S. military installations in Germany are due for a facelift, according to DA officials.

Pentagon and German officials recently signed a memorandum of understanding that spells out their intentions to replace phone switching networks at 112 U.S. based

locations in Germany. The systems were designed between 1930 and 1940, officials said.

A memorandum of understanding is an agreement that establishes a mutual goal, pending specific cost and other contract agreements.

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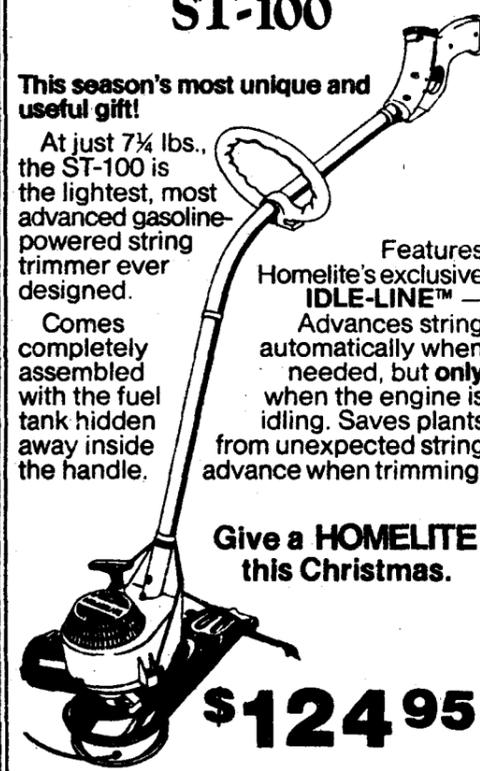
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**BIG CAT** — Billy Cochran of the Utilities Branch holds a bobcat that darted from the forest and was hit by a car on Patton Road near Huntsville Spring Branch. A member of the lynx family, the furtive night-hunting felines are not often seen here. The dead animal yielded a good pelt.

## Look alive! deer are on the move across post roads

The "Deer Crossing" signs that dot arsenal roads likely are not heeded by many motorists. But they carry a warning well worth noting when driving on the arsenal this time of year.

Hunting season is always accompanied by an increase in the number of road kills of deer here. In most of the collisions it's not just deer that suffer. "In almost all cases we've seen there has been extensive damage to the vehicle," said SFC Ray Thorpe, deputy game warden. "It's usually the front end that gets it." Impact often throws the deer onto the hood of the car and in some instances into the windshield. Sometimes the driver is injured, usually by flying glass, Thorpe said.

The arsenal records 20 or more road kills of deer each year, according to the game warden. An unknown number of road kills, believed to be few, are not reported even though there is a requirement to do so.



### BE ON THE LOOKOUT It's the time of year to watch for deer

Road kills rise sharply in fall and winter when hunters are in the field causing the deer to move about. Most of the accidents occur on major roads in early morning or late afternoon traffic when visibility is reduced.

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# Alpha takes flag football championship

Story and photos by RAY ROWDEN

Company A seized the championship crown for the 1978 Company Level Flag Football League by downing Company B 20-8 Friday night. It was the third clash between the two teams last week. They met Monday and Wednesday also.

On Monday, Co. B handed Co. A their first and only loss of the tourney, shutting Alpha out 12-0 and forcing them into a Tuesday clash with the 291st MP Company. In one of the most exciting games of the tournament, the MPs fell 20-16.

Co. B suffered their first defeat of the tourney Wednesday when a steely-eyed Alpha squad avenged themselves with a 26-0 shutout on the muddiest field of the season.

That was a scheduled championship game, but since neither team had been beaten twice, the final elimination was set for Friday.

Alpha's quarterback, Leon Jones, con-



The defense is in hot pursuit

sidered the team's attitude, organization and support their strongest points. "We were going for the Post Championship from

the beginning of the season. We bought our own jerseys at the beginning of the season so we could keep them as souvenirs."

He added, "We're well organized too. When a play is called in the huddle, everyone reacts. That's especially important in the playoffs, cause that's the biggie you've got to be sure of what you're doing. That's been our philosophy all year."

According to Jones, "Until the tournament Co. A played 25 men every game. And we could have suited more. Nobody else in the league even had 20 people out

there playing. We had people in the stands supporting us all through the season and that plays a big part in how well we perform on the field."



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# Bowling

## WEDNESDAY OFFICER BOWLING

### Standings

Swingers	74
Nomads	60
Miradcom Maulers	53
Lucky Strikes	46
Blackjacks	44
Strikeouts	43
Exasperators	43
Meddac	43
Red Tabbers	42
Bushwackers	32

### Results

Swingers 8, Red Tabbers 0  
 Blackjacks 8, Strikeouts 0  
 Nomads 8, Exasperators 0  
 Meddac 6, Lucky Strikes 2  
 Miradcom Maulers 6, Bushwackers 2

### High Rollers

Jordan 604 (228), Baer 583 (226), Fukushima

582 (224, 209), Weaver 580 (204), Stitt 577 (208, 204), Reynolds 557 (246), Nix 544, Keller 535 (204), Sevey 529, Soyck 523 (202), Weinberg 521 (202), Ogozalek 517, McKinley 514, Wells 511, Washburn 511, Stewart (211).

## TUESDAY NIGHT BOWLING

### Standings

Retired I	34
Mean Machine	32
Hal's Hookers	32
Squires	31
Lucky Seven	31
Cactus Jacks	30
Marines	28
Mad Medics	27.5
Home Team	23
Half & Half	23
Pinbusters	21
Get it Kwik 6	19.5
Ole Blasters	16
Hot to Trot	13
Tails End	12
Castle Keepers	11

### Results

Squires 4, Hot to Trot 0  
 Retired I 4, Tails End 0  
 Mean Machine 4, Half & Half 0  
 Castle Keepers 3, Get it Kwik 6 1  
 Ole Blasters 3, Lucky Seven 1  
 Hal's Hookers 2, Mad Medics 2  
 Marines 2, Home Team 2  
 Pinbusters 2, Cactus Jacks 2

### High Rollers

Dempsey 591, Yoder 582, Evans 578, Hill 571,  
 Wilson 559, Valentin 547, Minga 546, Miller  
 544, R. Smith 543, M. McKinney 541,  
 Meisner 540, Martin 537, Keenan 535,  
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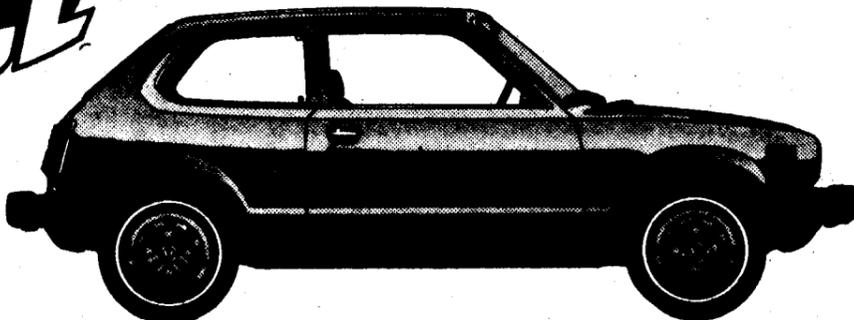
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**Congress passes flexitime, part-time bills**

# New laws to make more flexible work force

**From combined reports**

Two recently passed laws could have a great effect on the federal government work force in the near future.

The first is the Federal Employees Flexible and Compressed Work Schedules Act which permits the federal government to experiment with flexible work hours (flexitime), including four 10-hour-day weeks and other variations from the five 8-hour-day work week.

The law suspends for three years certain overtime provisions of Title 5 of the U.S. Code and the Fair Standards Act. These provisions required overtime pay for time worked over 8 hours a day or 40 hours a week, which made some flexitime experiments impractical.

The experiment will enable the government to determine how its work will be affected by various alternatives to the traditional 8-hour day. For example, a worker in an agency chosen for the test could work from 7:00 a.m. until 5:30 p.m. or any other ten-hour schedule that includes the flexitime core hours — hours during which all workers in the agency must be on the job. The worker would then get a three-day weekend, with either Friday or Monday off, or perhaps each on alternate weeks.

Another variation would enable the worker to put in approximately 8.9 hours a day. This way the worker would complete 80 hours of work in nine days, and thus could get every other weekend off. Some experts predict this alternate will prove the most desirable for both government and the worker.

No plans exist now to include U. S. Army commands at Redstone in the experiment.

The law requires the Office of Personnel Management (OPM) to study and evaluate experiments in federal agencies of varying size, location and function to determine the effects of flexitime on government operations, service to the public, use of mass transit facilities, energy consumption, employment opportunities, and impact on individuals.

At the end of three years, OPM will recommend to the President and Congress any changes desirable to permit permanent use of flexible and compressed work schedules.

According to a report by the General Accounting Office, previous flexitime experiments have shown increased productivity, improved morale and job satisfaction, decreased tardiness and decreased use of short-term leave.

According to the Civil Service Commission, allowing workers to choose their own work schedules will allow them more freedom to see children off to school, take classes, arrange doctor's appointments, avoid traffic jams, and so on. This flexibility would especially benefit working mothers, students, and older or handicapped workers in meeting the demands of personal and work life.

The second law is the Federal Employee's Career Part-Time Employment Act of 1978, requiring federal agencies to establish

programs to increase opportunities for part-time employment at all grade levels in the competitive and excepted service up to GS-16 or the equivalent.

Beginning Oct. 1, 1980, this law will remove two obstacles which have prevented the use of more part-time workers in the past.

The first concerns each agency's employment ceiling, the total number of workers the agency may employ. Part-time workers previously counted equally with full-time workers toward this employment ceiling. Now the part-timers will be prorated towards the ceiling according to the amount of time they work. Thus two half-time workers would count no more than one full-timer.

The second obstacle was the amount the government pays toward health insurance for part-time workers. These contributions will now be prorated according to the amount of time the part-timer works. This provision of the law does not apply to current part-time workers, however.

Civil Service Commission Chairman Alan K. Campbell said of the new law, "It's an employment option that can help agencies do their jobs better and at the same time provide employment opportunities for many capable and committed individuals who cannot work full-time.

Local Army civilian personnel officials said they have not received guidance on enactment of the law's provisions here.



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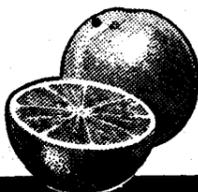
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# Fools rush in

(From Front Page)

in four-wheeled drive vehicles. And sometimes they come by other routes."

Not long ago four boys, ages 15 to 16, came down Indian Creek by canoe. Apparently becoming lost, they wandered into Test Area 1 and walked into a missile impact area, a scant five minutes after the range had fired an anti-tank missile where they were standing. The kids told range officials they had been in the test area most of the day.

Another time, a range observer luckily spotted a boat carrying men come into the area only seconds before a scheduled firing. The men, who had disregarded clearly posted warning signs, were taking water samples for the Tennessee Valley Authority, they explained. They hadn't bothered to contact or coordinate with the Army.

Although the what-might-have-been incidents are frightening, and there have been many others, safety isn't the only problem emanating from Redstone test boundaries. Add carelessness, vandalism and thievery, according to Storey and Taylor.

"There is always a certain amount of vandalism and petty theft on Redstone," the men agreed, "but it always gets worse during hunting season."

Army regulations clearly state that hunters, fishermen, and sightseers will not drive off main roads but they do. They drive all over the arsenal in four-wheeled drive vehicles.

"Apparently they get so involved in what they're doing that they cross over into restricted boundaries," Storey and Taylor explained. "We have found hunters in restricted areas on many occasions. In some of the areas we have electrical power, control and timing lines that they drive

over. Since it's not feasible to pull in the lines after every test, we leave them on the ground and they get damaged."

Intruders who don't find game, relish sharpening their skills on other targets and routinely shoot out warning lights, signs, even locks on gates and fences.

And some apparently believe it's open season on property they find in the boonies.

"We've had power lines stolen, along with portable extensions, and distribution boxes like those in your house," Storey and Taylor said. "We've even had the warning flashing lights stolen. Lost one just last week at the intersection of Patton and Buxton Roads."

Acts of vandalism and theft hurt everybody since Redstone is federal land and everybody pays when property is damaged or stolen. These law breakers are creating safety hazards, costing everybody money, including themselves, and jeopardizing Army missile progress.

Storey and Taylor, half jokingly, agreed that "... the ideal situation would be to build a moat around restricted areas and fill it with alligators and piranha." But since that isn't possible, Redstone officials are studying the problem, replacing signs, repairing fences and roadblocks, utilizing safety patrols and taking other precautions. But everyone's support and cooperation is needed.

They also emphasized a truism that "... most of the people who hunt, fish and travel on Redstone obey the rules and regulations. A few don't, however, and that small minority is ruining it for everybody."

# Vandals

(From Front Page)

haven't been reopened," noted Sergeant First Class Ray Thorpe, deputy game warden. Recalling an instance of an expensive range camera being shot up, Thorpe said, "I don't blame them (range officials) for closing the areas" even though it hampers hunting by creating a refuge that game flocks to and makes controlling the deer population difficult. Thorpe said

there have also been instances of warning lights at ranges being shot out and stolen, and said firearms have been used to destroy

the locks on gates and gain unauthorized entry to areas.

Thorpe and other officials here agree that vandalism with firearms is most prevalent on the arsenal during hunting season, but point out that it occurs year-round and the only way of knowing who is responsible for it is to catch the perpetrator in the act of vandalism, which is seldom possible.

There is an occasional instance of apparent cut-and-dried hunter vandalism, like when a load of bird shot was discharged into a telephone transformer in a dove hunting area on the first day of dove season last year. But with most firearms damage occurring the road signs and the like, it is very possible that hunters account for only a

small portion of the total vandalism, officials at the arsenal say. Last hunting season there was a definite drop in incidents of vandalism compared to the previous season, Thorpe said. Another drop is expected during the present season with the recent restrictions on public access to the installation.

Anyone caught committing vandalism with firearms on the arsenal may be subject to a battery of serious charges, a military police official warns. Charges can include damage or destruction of government

property, illegal discharge of a weapon and, possibly, discharging a weapon from a moving vehicle, wrongful possession of a weapon and others.



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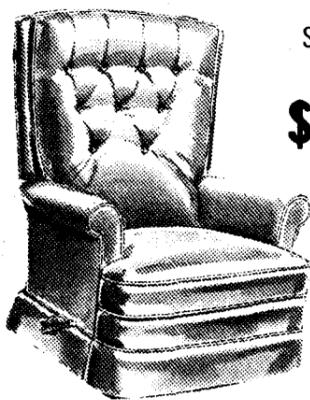
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Monte Garrett worked as an airline ticket agent for the army on Redstone for 9 yrs. and is very familiar with military ticketing and all discount and excursion fares.

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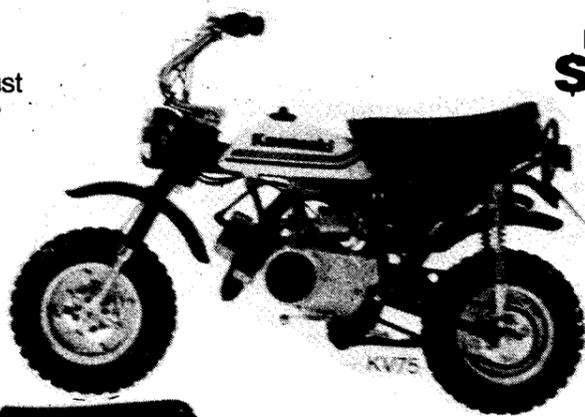
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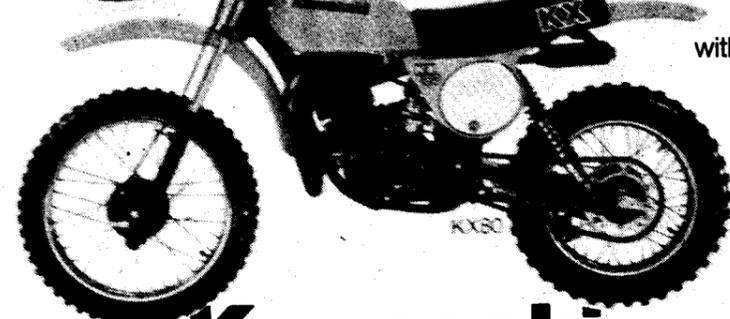
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# Bainbridge rates Army women

WASHINGTON (ARNEWS) — Women soldiers play an important role in the Army and cannot or will not be "Spectators," according to Sergeant Major of the Army William Bainbridge. The Army's top enlisted soldier made this observation and others in the following interview with ARNEWS.

**ARNEWS:** As part of the MAX WAC study, responses to questionnaires (given to Army Readiness Training and Evaluation Program (ARTEP) participants) led researchers to conclude that officers and NCOs need more leadership training to deal with the special problems of women. Do you agree and what steps are being taken to remedy this situation?

**BAINBRIDGE:** When we first started increasing the number of women in the Army we went to the way that we'd always been doing it and said we need to have female officers and female NCOs to take care of the female soldiers. Yet at the same time we were integrating those female soldiers into all of the MOS except the combat MOS. You just can't appoint females as senior NCOs for the sole purpose of supervising female soldiers. They don't have the experience. Those "old-line" soldiers, whether they be male or female, do a better job in handling women, and I think we're doing a much better job than we did to start with. We don't have enough women officers or senior women NCOs to serve in all the places we have women. There will be senior women NCOs but they have to "age" into the force. They haven't done that yet. We've got some good senior women non-commissioned officers but there are not enough because we just didn't have this size force before. The senior NCO, the first sergeant, the sergeant major, may have a daughter about the same age as PFC Smith. It's awfully hard to separate PFC Smith from

"There will be senior women NCOs but they have to 'age' into the force."

the image of his daughter and see her as a green-suited soldier. Those things come from experience and realizing that you really have to treat those women the same way that you treat the men. They have to do the jobs they're trained to do. They have to do it under the same conditions that the male soldier has to do it under. And that's where we have the problem. We just didn't see it that way originally. Now, I think we're doing very, very well.

**ARNEWS:** The evaluation of women in the Army (EWITA) study, indicated that leaders and supervisors at all levels are not aware of policies and regulations concerning female soldiers. Some units demand too much from women in the name of "Equality" while other units "let the women get over." What can be done through leadership channels and by the women themselves to create some uniformity?

**BAINBRIDGE:** The Chief of Staff sent a message to his commanders not too long ago telling them women must be used in the MOS that they were trained in when they get to the units and the women must understand as soldiers that that's where they're headed. If they're ammunition handlers in training then they've got to be ammunition handlers in the unit. So what we have to do is put the soldier who's physically qualified to handle ammunition all day long if that's what's necessary, into the unit. There are some male

"We have senior women NCOs who have been sergeants major, first sergeants at posts and at battalions and so on, that were predominantly soldiered by male personnel and we've had no problems there, so I think both sides work the same. It's just a matter of being able to understand that the mission has to be done and you use the assets that you have whether they be female soldiers or male soldiers and both supervisors and soldiers must understand both sides of it."

soldiers who can't perform some MOS duties on a sustained basis. It works the other way too. We have senior women NCOs who have been sergeants major, first sergeants on posts and at battalions and so on, that were predominantly soldiered by male personnel and we've had no problem there, so I think both sides work the same. It's just a matter of being able to understand that the mission has to be done and you use the assets that you have whether they be female soldiers or male soldiers and both supervisors and soldiers must understand both sides of it. It's the only way to do it and do it well.

**ARNEWS:** The fact that women don't have the same physical capabilities as men is a recognized problem. The study of women artillery crews seems to indicate that with the proper physical conditioning programs these capabilities can be expanded. Do you think tests will be developed to determine the strength potential of both male and female enlistees?

**BAINBRIDGE:** I think so. As a matter of fact there's some work being done in that area to develop such a test. Using the same basic training for both male and female soldiers has worked out pretty well. I think it's down the road a ways to find out how these things go. I was talking to an artilleryman just after the artillery study came out. I was up in Alaska and he was a senior

"We have to condition soldiers, whether male or female, to do the particular MOS that they've been trained in and it doesn't make any difference which sex they are."

NCO and he understood that it was a test and how the soldiers were worked up to that point. I think that's the key. We have to condition soldiers, whether male or female, to do the particular MOS that they've been trained in and it doesn't make any difference which sex they are. You have to bring them to the peak in order to be able to do the job. I think there are probably a lot more places that we could use the women. Talking about combat jobs, we may not want them on the gun crew, but there's probably no reason that they couldn't work back in the fire direction center. But how close is the fire direction center? Pretty close. But it's my perception that if you talk to all the female soldiers in the Army and ask them if they would like to be in the infantry or tankers I don't think you'll find many takers. The people who are pushing for the ERA say that it's the "opportunity" to do what you want to do. That's all the ERA is; not forcing something on somebody or taking something away from somebody else. I think that's where we may be headed in the military. They are given about every opportunity they want now. All the MOS save very, very few are wide open.

**ARNEWS:** Some of the loudest and most frequent complaints about female soldiers is the contention that many of them exploit their femininity to win undeserved promotions, desirable job assignments, and exemptions from disagreeable details. Do you feel this type of behavior is prevalent in today's Army?

**BAINBRIDGE:** Prevalent? No. Is it there? Sure, but not prevalent. That's human nature and we're not going to change human nature by the fact that we've added a lot of female soldiers. Sure it goes on, but I have a lot of faith in the leadership in today's Army — officers and non-commissioned officers. For every time it happens, there's just hundreds of times where it's not permitted. It's not prevalent and I'm not worried about it.

**ARNEWS:** According to the EWITA study when this does happen or when the woman is given preferential treatment it is because of poor leadership.

(Continued on next page)

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# Bainbridge

(From preceding page)

**BAINBRIDGE:** Certainly, that's just the ammunition handler I mentioned. The gal is recruited to be an ammunition handler and she gets to her unit assignment and that first sergeant who has the daughter that I mentioned says, 'Well, I've got a position in my orderly room so I'll make a clerk out of her'. What he's really doing is not exercising good leadership in the first place. In the second place he's not using that soldier where she was trained to be used and third, some other soldier is having to do twice his amount of work because she's not where she's supposed to be. So it just goes on ad infinitum and not just one soldier is involved, it's everybody in that unit.

**ARNEWS:** What would you advise the woman to do in this case if she does run into the "protective father-image"? She's not looking for preferential treatment because she's trained in this MOS and that's what she wants to do.

**BAINBRIDGE:** I think she's just got to say, "That's not my MOS — I was trained to be an ammunition handler or truck driver. That's what I want to do." Now, don't misunderstand me, sometimes missions have to be done and not only with female soldiers. Sometimes male soldiers are put into positions they weren't trained for because the mission of the unit has to be done and the commander is forced for a short period of time to put a soldier in an area to get something done. I'm not saying that in every case where a soldier goes into an MOS that he's not trained for it's poor leadership. Sometimes it may be excellent leadership because it's the only way that commander can get the job done.

**ARNEWS:** The REF WAC study, conducted during Reforger 77, showed that considerable bias was observed, most frequently among first line supervisors. Senior officers, who were furthest from the problem, fully accepted women; junior officers appeared indifferent to the problem; and "old soldier" NCOs were openly opposed in word and action. As a group women were rated poorly but when individually rated for performance they were rated as highly as their male counterparts. Do you think this attitude will ever change?

**BAINBRIDGE:** I'm going to change some of it right now. You mentioned the "old NCO." Well, an NCO accepts the change, adjusts to the needs of the unit and the mission and goes about the business. Now, you might have a "stripe wearer" in there someplace and there's a difference between a non-commissioned officer and a "stripe wearer." The NCO does what he's supposed to do, completes the mission and uses the assets that he has to do it with. The "stripe wearer" says it'll never work and does a lot of griping about it. And that's what I think we have in some cases here, because he gripes about the group but rates the individual high. That doesn't follow. Let me add that we don't have many "stripe wearers" in our Army.

**ARNEWS:** According to the EWITA study, a com-

mon preception is that women are not yet an integral part of the total military force. They are seen as mere spectators, part-time help, and second class soldiers to be withdrawn at the outbreak of hostilities. Have you encountered this way of thinking in your tour as Sergeant Major of the Army?

**BAINBRIDGE:** Not really. Let me give you an example of one female soldier at Ft. Riley, Kansas, a Spec. 5. She drives a 5-ton tractor towing a 5,000 gallon tanker, best looking truck in the outfit. I said, 'Do you really drive that?' and she said, 'Yes, 400 miles last month delivering pol to my guys in the field.' I said, 'What do you do if you get a flat tire on it?' She pointed to a male driver and said, "I do the same think he does. I get somebody to help me because I can't lift one of those tires and he can't either." The good soldiers, whether they be male or female, are integrated into the unit. This is the only way the commander can operate. He may have 50 percent men and 50 percent women in his unit. He can't have half the unit being "spectators" regardless of what kind of soldiers they are. It takes them all to accomplish the mission. Are you going to find a few non-participants? Sure you are. We get



around those few through good leadership particularly from the NCO, because they're the ones that deal day by day, with the soldier, the "hands-on" if you will. Spectators? No way.

**ARNEWS:** It was also noted that "women are distinctive to men and as long as the ratio of men to women in the Army remains large, many male soldiers, if not the majority, will accept women as women but not as soldiers. What advice can you offer to women to aid them in becoming "accepted soldiers"?"

**BAINBRIDGE:** Perform their duties. But, again it's a 50-50 thing. Back to the question we discussed earlier, what do you do in the case where the soldier wants to do the job she was trained to do and the supervisor says "no, I want you to do this." I think the soldiers, where possible, should insist that they want to do the job that they're trained to do. I've visited a lot of units in the last 38 months all over the world where we've got soldiers stationed. Male soldiers are doggoned happy that those female soldiers are there doing the things that they're doing and doing them well. I don't think we have too much of a problem, if any, in accepting the female soldier for what she is and that's a damn good one who's able to do the job she's trained to do. Individual problems? Maybe here and there but Army-wide, no. We had bad apples in both barrels but now we've put them all in the same barrel. We've got a good Army out there and whether they're male or female, I think they're doing great. You can't really differentiate between male and female anymore. When they put the green suit on—again, I can't stress it too much — they have to do what they're trained to do. We still have to treat women differently. Men and women are different. They have been since Adam and Eve and that's the way it ought to be. I open the door for my wife

"Men and women are different. They have been since Adam and Eve . . ."

because I've been raised that way. I do it because I like to. Now does it degrade me as a senior non-commissioned officer to open the door for a Spec. 4, whether a man or a woman? I do that. I've had generals open the door for me. Does that make them any less a general? I don't think so. I think it's just a case of being a gentleman. I can be a gentleman and still supervise female soldiers the way they're supposed to be supervised and so can the other NCOs in the Army. But the way most of us were raised makes us act differently when dealing with women. We just have to watch that we don't do things for the female soldier that we won't do for the male soldier. I don't think that's ever going to change. But by the fact that we've got good senior NCO's, they're able to bridge that little gap and treat each the same with the differences that are necessary. We've got 50,000 female soldiers and 5 or 6,000 female officers and we're going to use another 30,000 probably by 1983 or 1984. We have to use them the way that they were trained. The soldiers who come in, whether male or female, expect that sort of leadership. They expect to do the things they've been trained to do and they expect to do them well. And they expect to get their tails kicked if they don't do it right. It doesn't make any difference if they're male or female, they're still looking for leadership.

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# CASH OR CHARGE?

In this day of credit cards and charge accounts of all types, almost everyone uses credit at one time or another. Many people even have to borrow money to meet the payments on credit purchases.

A man or woman is using credit when the mortgage on a house purchase is signed. The mortgage shows that the lending institution has confidence that the loan will be repaid in monthly installments over the period of years for which the loan is made.

Credit also comes into operation when a car is financed, a charge card is used to make a purchase, or a personal loan is obtained from a credit union or bank.

## What is credit?

Ancient scrolls in Egypt record loans and payments. In colonial America, most farmers borrowed against their crops, receiving seed for the fields and food for the families and paying off these "loans" with either a part of the harvest or part of the proceeds of the sale of the harvest.

Whatever the loan or the means of repayment, the basic idea behind credit has not changed: a lender "rents" money to the borrower, and in repaying the loan, the borrower pays for the privilege of using the money for a length of time.

The amount of money that is repaid the lender over and above the original amount loaned is called by a variety of names -- interest, carrying charge, service charge and finance charge, to name a few. The interest rate is the rental price of the money.

The important thing to know about interest is its cost. How much will it cost to borrow the money for a certain length of time?

## Shopping for credit

Borrowers must always remember that lenders are in the business of making money (interest) when they lend money, not in the business of doing anyone favors.

If they advertise "easy repayment terms" they are simply trying to enlarge their business by enticing more customers to borrow. Some stores, for instance, tell customers who use credit that "No payment will be due on the purchase until" (some two or three months later). But, much smaller type in the advertisement states, "Interest will be charged on the entire amount during the no-payment period."

In this manner, stores move tons of merchandise which they have purchased and which might be sitting on their floors for months waiting final payment on a lay-away. With this arrangement they also make millions of dollars each year in interest charges.

What does the credit customer get from all this additional cost? He or she gets the merchandise to use or wear immediately and the privilege of making "Only small monthly payments over the next 48 months."

Because so many credit opportunities do exist and the use of credit has grown so much in recent years, some credit organizations in the past did not deal fairly with their customers. Congress recognized this problem when it passed the "Truth in Lending Act."

The Truth in Lending Act does not prevent a lender or a company which sells on credit from charging high interest rates. It does require lenders and credit sellers to explain credit procedures and policies fully.

Now a lender must quote the cost of credit in terms of the Annual Percentage Rate (APR). By forcing credit givers to do this, the federal government has made it possible for credit customers to shop around for credit, a wise move for someone interested in saving hundreds of dollars on credit payments each year.

## What's it cost?

If used wisely, a line of credit is a handy thing to have. And, in some instances, credit does not cost a cent. Many stores permit payment on charge accounts within 25 to 30 days of the billing date at no extra charge. So do oil companies issuing credit cards. The personal credit cards now widely available through banks and other agencies usually allow card holders a period of 25 days in which to pay without finance charges.

The things to remember in these cases are:

- Do not charge more on credit than can be paid off in one lump sum before the due date shown on the bill.
- Know the billing dates for the various accounts and pay the entire bill before the no-extra-charge deadline. A merchant or lender is required by law to tell the customer what the no-charge period is on each monthly statement sent out.



On cash advances on bank credit cards there is no "grace" period; finance charges are added from the day the money is borrowed, and it is an expensive method to use to borrow money.

If the entire account cannot be paid off before the no-extra-charge date, then the family should ask the question: "Is the extra cost of credit worth it?" If the finance charges to buy a television set priced at \$400 come to \$72, then the cost of the television set is \$472. Is it worth it?

## Total cost

Sometimes the answer is easy. If an item is on sale and the reduction in price is more than the finance charge, then it may be a bargain.

Or, if it is time for the family's annual vacation -- or a change of station -- and the car needs new tires, the use of credit may be wiser than to risk the family's safety on marginal tires.

The total cost of the monthly payments should be an important consideration. If taking on a new debt means diminishing a family's savings or not making payments on other essential items, then adding to the financial burden will not be worth the risk. As a rule of thumb, most financial institutions recommend that no more than 10 or 15 percent of a family's income should be used to repay monthly credit installments, not counting mortgage or rent payments.

People carry credit cards for almost every purpose. We see in newspapers, on television and hear on the radio advertisements offering "extra money" or "merchandise for nothing down" or for a small monthly payment. All these and many others are enticements to use credit since few of us have all the necessary cash to purchase what we want.

Credit can be a useful tool or a hard master. Before you enter into a credit arrangement, discuss any questions you may have with your local Legal Assistance Office.

**Think before you charge!**



# Special problems...

Members of the Armed Forces meet some special problems establishing credit because of frequent moves within the U.S. and long tours overseas. Frequent transfers means that they must establish and maintain good credit standing in each new community that service in the Armed Forces takes them to. In each new place they must learn which stores and

financial institutions are the reputable ones.

Military men and women who cannot pay their just debts or who deliberately default on a contracted debt can be subjected to severe penalties through military channels. Failure to pay just debts can lead to administrative elimination from the Armed Forces. Or

commanders can take disciplinary action by using lesser administrative sanctions.

When a man or woman in uniform becomes a poor credit risk, that fact can permanently damage a career. As one example, a poor credit risk may not be able to get the security clearance he or she needs for an assignment necessary for promotion.

## 'Standards of Fairness'

While the Department of Defense recognizes that the majority of businesses which give credit to military personnel deal fairly with them, it also recognizes that some members of the military and their dependents are inexperienced in financial matters and may not realize the seriousness of nonpayment of debts.

To establish guidelines for the handling and processing of nonpayment claims against members of the Armed Forces, DoD issued Directive 1344.9, "Indebtedness of Military Personnel."

The directive establishes a set of credit standards controlling credit dealings with members of the military; gives merchants a means of showing that they comply with the DoD Standards of Fairness; and makes compliance with the Standards of Fairness a condition for giving a creditor assistance in collecting a debt from a member of the military.

In the event of a claim of nonpayment of a just debt, DoD Directive 1344.9 authorizes the service concerned to:

- Administratively review the facts surrounding the transaction.

- Contact the person/business making the claim to inform the claimant that the individual has been advised of the DoD policy with regard to private indebtedness.

The directive also means greater protection for military personnel. A claim will not be processed unless the claimant:

- Advises the military man or woman as to what action should be taken to comply with DoD policy which calls for the payment of just debts in a proper and timely manner.

- Has met all requirements of the Truth in Lending Act (providing the business is subject to that law) and submits a Certificate of Compliance as called for in the DoD directive.

- If not subject to the Truth in Lending Act -- such as public utility companies -- submits a statement that no interest, finance charge, or fee is in excess of that permitted by the law of the state in which the debt was incurred.



## CREDIT UNIONS: a place to go for high interest savings, low cost loans, free counseling & more

Banks, credit unions and lending institutions such as finance companies all have varying interest rates. The average interest rate charged by finance companies is 20 to 21 percent according to the National Consumer Finance Association. Currently, commercial banks charge an average 13 percent for unsecured personal loans.

If you find you are in need of a loan, a high-interest savings account or financial counseling, federal credit unions offer these and many more valuable services for military personnel.

There are about 400 credit unions located at military installations and some have branches overseas. They're mutual-help, non-profit organizations which are owned and operated by their members.

Encouraging members to save by depositing money regularly is the main goal of the credit union. Savings, in the form of "shares" worth \$5 each, become a fund from which members may borrow. Operating expenses and reserve funds are taken out of money earned from loans and the remainder is paid out in dividends on savings. The typical dividend currently, is 5½ to 7 percent.

There are a number of reasons why the credit union is a good place to save:

- Dividends on savings are paid quarterly or semi-annually and are favorably comparable to those of commercial banks.

- Savings withdrawals may be made without penalty in the event of an emergency or for any other reason.

- Life insurance is provided by many credit unions at no extra cost. For example, up to \$2,000 of your savings would be matched dollar for dollar if you died.

- Your savings are insured up to \$40,000 by an agency of the federal government or by a state or private insurance plan at most federal and state credit unions. DoD credit unions will be required to carry this insurance by June 1979.

If you need to take out a loan, you may borrow money for any good reason such as, buying a new car or mobile home, paying taxes, settling old bills, to further your education or for a family vacation.

Laws were passed last spring allowing credit unions to make real estate and mortgage loans. Check with your local office to see if they offer this service.

The maximum annual percentage rate charged by a federal credit union is 12 percent. This varies with the kind of loan. The annual percentage rate for a new car loan with a 25% down payment at one credit union for example, is 9.6%. Loans are usually scheduled for repayment in 12, 24, 36, or 48 monthly payments. In some cases the repayment period may be up to 144 months.

An additional advantage to a credit union loan is that there are no extra charges. Free life insurance coverage on each borrower is provided which means in the event of your death this insurance would pay off the balance of your loan.

Since the character of the borrower is always the basic security for a credit union loan, you can get a loan on your signature alone sometimes for as much as \$2,500. With a co-signer or another security agreement you can get much more.

Other services offered by the credit union are:

- Free check cashing.

- Many credit unions sell travelers cheques and money orders.

- Share drafts which operate like a checking account.

- Financial counseling is offered free of charge.

- Credit cards will soon be offered nationwide at a 12 percent annual interest rate. Commercial banks charge 18 percent in most states.

- Some credit unions have automatic teller machines which allow cash withdrawals seven days a week.

Credit is something you want to have available when you need it. Membership in a credit union will provide an important credit reference wherever you go.

# Inspector General: a tough, important job

By ZELMER THOMAS

"First be right — then take action" is the free translation of the Inspector General motto and a phrase the missile school IG swears by.

"When a soldier comes to me for help, first, I find out the nature of his complaint. I want to know who he has already talked to and who has tried to help him, then I go from there," said Major Freddie R. Smith, the 37-year-old IG of MMCS. "Once I get all the facts — I go back to the chain of command to correct the situation."

The IG Office functions as the eyes and ears of the commandant. Smith is responsible for keeping the commandant advised of personnel matters involving treatment of soldiers at MMCS. A staff officer, he has direct access to the commandant.

"My goal is to see that every commander does what he should do as part of the chain of command," Smith said. "My job is to see that the chain is operating effectively."

Even though the soldier should carry his complaint to the chain first, Smith said he wants communication to be open. "The chain of command cannot deny him access to me," he said.

## A soldier's right

In explaining the complaint procedure, Smith said, "It is the right of all military personnel as members of the Department of the Army to present to the military authorities, orally or in writing, their individual complaints, grievances or requests for assistance of any nature."

He added, "However, prior to presenting a complaint to me, personnel should consider whether their complaints may be solved more quickly and simply by referring them to their immediate commanding officer."

The six-foot, 200-pound, Delhi, La., native was assigned to the school as IG several months ago — coming here from the 9th Infantry Division, Ft. Lewis, Wash. He recently completed the two-week DAIG school at the Pentagon.

Smith was drafted into the Army in 1963. He applied for Officer Candidate School in 1965 and was commissioned in the Ordnance Corps in June, 1966. He came to Redstone for the first time in July, 1966 for an ordnance course. Upon completion of the



MMCS Inspector General Maj. Freddie Smith listens to a soldier's problem

course, Smith was assigned to Pueblo Army Depot in Colorado, and from there he went to Germany and later to Vietnam. In 1971 he attended the Officer Advanced Course at Aberdeen and from there went to Southern University in Baton Rouge, La., for a degree in business management. Upon graduating, he taught ROTC at Southern for two years. After attending Command and General Staff College, he was assigned to 9th Infantry Division, Ft. Lewis.

A strong advocate of open communication, Smith said that his goal is to see that the chain of command functions effectively. "I believe," he said, "that the chain is working at MMCS. Based on the complaints we have not received, I would say that the chain is working very well."

According to Smith, complaints range from administrative-type problems to mistreatment. "A soldier is not limited to any particular type problem—my office is here to assist the soldier in any problem," Smith said.

But soldiers are not the only ones who can receive the service of the IG — civilians can too. "Civilians have the same right concerning certain matters as the military," he said. "For example, problems dealing with appraisals. I refer them to the Civilian Personnel Office or the appropriate agency to solve the problem."

Creating an atmosphere of openness is something Smith works hard at. He strongly believes that one of the best ways a person can create this atmosphere is to make himself visible to the troops. He does this by visiting the companies and by regular inspection tours.

He is closely involved with the soldiers and comments on the quality of soldiers today: "The All-Volunteer Army is serving its purpose. The soldiers coming in the Army today are those that say I want to come in — they're volunteering. They're soldiers because they want to be."

Smith and his wife, Dora, and son, Christopher, live on post.

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# New CLEP test use could affect soldiers' education

WASHINGTON (ARNEWS) — A revised CLEP test went into use Nov. 1. The revised test could change the education plans of thousands of soldiers.

CLEP, the College Level Examination Program, is a test accepted by more than 1,800 colleges and universities in the U.S. as the equivalent of most freshman level courses.

The CLEP tests are popular with soldiers seeking college credit for as much as 30 semester hours at many schools.

Revisions in the new CLEP, according to a spokeswoman with the College Board (TCB) that produces CLEP, include more "in-depth" questions in the five subject areas covered by the test.

The increase in the number of CLEP test questions also calls for more time to test, the spokeswoman added. Testing time for each subject has been increased from 60 to 90 minutes.

The spokeswoman suggested that test revisions would make them more difficult to pass because of the expansion.

The biggest change in the CLEP series is in the English test, she explained. This test has shifted emphasis from English error recognition to writing skills.

Another change in the English test will be introduced next spring, the TCB official said. An optional English test version will replace the 90 minute multiple choice format with a 45 minute multiple choice test and another 45 minute test in essay form.

While the optional English test versions allow a student to choose the exam on which he or she expects to score best, some school may require students to take a specific English version before they award credit for the test, according to the official.

In addition to English, the CLEP covers

these subjects: math, natural sciences, humanities and social science-history.

Because of the test revisions, the spokeswoman said, some schools may no longer accept the former CLEP series or they may grant less credit to students who do not take the new series.

TCB, at Princeton, N.J., is an educational testing service representing various U.S. colleges, universities and high schools. The board oversees the test service but each school applies its own standards in awarding credit based on the tests.

CLEP has been administered since 1968 and about 200,000 Americans take the test series each year.

More information on the new CLEP series can be obtained through local education centers or, for students who have already received CLEP credit, at the schools where they are currently enrolled.



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# Intern administrator just right for her job

By HELEN REED

Her official title may be career program administrator, but Mollie Houston makes it a much more personal position than the designation suggests when she works with interns and careerists in the MIRCOM P&P Directorate.

She is attractive, talks easily, and is completely relaxed. She is quietly enthusiastic, and she is compassionate. She looks straight at you, and you feel you could tell her anything you have on your mind.

At the same time you sense she knows her business, and that she approaches it just as efficiently as she radiates a pleasing personality.

"I must be a good listener," she says, "and I understand what the interns are telling me about their problems, all 24 who have recently completed training.

"They come to me to discuss all kinds of situations. They don't like Huntsville, they don't like the kind of work they're doing, they are having family problems, their household goods haven't arrived, they even want to resign sometimes.

"In the cases where they don't like Huntsville, or have other problems, I tell them to just wait a while — give it some time. I try to discourage them from resigning by suggesting, not only that they wait a while, but by seeing if there aren't some adjustments that can be made to alleviate situations."

Houston was an intern herself. She came in as a MICOM intern before the DARCOM program started, and has been in the MIRCOM P&P Directorate for 10 years in a variety of procurement-related assignments.

Last summer she was detailed to her present position when the person who had been handling it became ill. Now it's a permanent assignment.

"This is giving me a different kind of experience," she says. "Now I am doing administrative work. I look on it as



Mollie Houston talks with P&P interns

broadening my knowledge, seeing both sides."

She says when she first came to work at Redstone, a large percentage of the interns were black. Houston is black. Now all but one of the P&P interns is white.

"When they gave me this job as career program administrator, I knew I would be working with interns on every phase of their jobs and some of their personal lives, and I wondered how they would accept me.

"It doesn't seem to make any difference. I feel they look at me as a person, come to me as freely as they are supposed to, with no regard for my color."

Officially, her duties include the administration, coordination and maintenance of the DARCOM Procurement

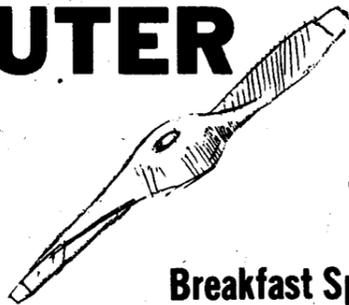
Career Intern Program. Additionally, she is involved with career planning, counseling, appraisal, and training and development of careerists within her Directorate.

She took college courses leading to a degree that qualified her as a teacher.

"After my practice teaching, I felt I wasn't ready to take over a classroom, that I wasn't mature enough, too near the age of the children, and that perhaps sometime later I would be more capable of disciplining classes. Maybe someday I'll feel I'm ready to teach, but right now I like this job."

Houston is a working mother who enjoys sewing and crochet work. She has an 11-year old son, and she commutes to work daily from Pulaski, Tenn.

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## Announcements

### ASME to hear its past president

Professor S. Peter Kezios, immediate past president of the American Society of Mechanical Engineers (ASME) and Director of the School of Mechanical Engineering at Georgia Tech, will speak to the local ASME section on "Engineering — Looking Back and Looking Forward." Kezios will discuss current issues facing the engineering profession.

The meeting will be held at the Sheraton Motor Inn, 4404 University Dr., Huntsville, on Tuesday, Dec. 5, beginning at 6:00 p.m. The public is invited. Reservations are requested through Ken McCaleb (453-0683-837-0372) or Troy Street (876-3370-883-8318).

### MIRCOM Wives plan Nashville trip

MIRCOM Officers Wives will take a shopping trip to Hickory Hollow Mall, Nashville, Tenn. on Wednesday, Dec. 6. Busses depart the Officers' Club promptly at 7:30 a.m.

Cain Sloan will treat the group to a Continental Breakfast and a lunch individually chosen from their menu.

Reservations and the \$7.50 transportation fee must be in by noon, Nov. 29. For reservations and or information call Barbara Roddy at 837-3043 or Mary Propes at 881-5427.

Wives from other organizations are invited to add their names to the standby list.

### Protestant Women to present speaker

The Protestant Women of the Chapel are presenting Pastor Joe McGraw of Faith Chapel, who will speak on the topic: "Change the World School of Prayer." The group will meet at the Bicentennial Chapel on Nov. 30 from 9:30 a.m. to noon.

Need a ride? Call Ms. Sally Howorth at 837-2186 and bring a sack lunch. Free nursery service is available at the Rocket Nursery.

### Handel's "Messiah"

The Huntsville Community Chorus, under the direction of Kenneth V. Turvey, will perform Handel's "Messiah" Sunday, Dec. 3 at 3:00 p.m. in the Von Braun Civic Center Concert Hall.

Tickets for the performance are on sale at the Civic Center box office and outlets at \$4 for adults, \$3 for students and senior citizens.

### Hail and Farewell

The annual MMCS Hail and Farewell Christmas party is scheduled for Dec. 15 in the Redstone Arsenal Officers Club. All MMCS civilian employees, allied, student and faculty officers and their guests are invited.

Tickets are \$8.50 per guest and must be purchased before the event. The program promises good food, dancing and entertainment for all.

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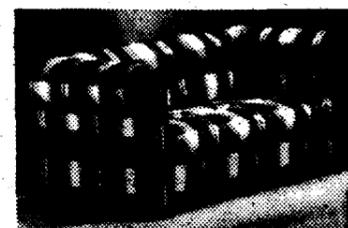
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## Exchange offers over counter catalog sales

The Redstone Arsenal Exchange is offering a new sales program that can save customers time and money.

The Over-the-Counter Catalog Sales Program began in Army and Air Force Exchange Service (AAFES) stores six months ago. The program allows customers to order merchandise from the AAFES catalog for delivery to the exchange, saving mailing and insurance charges and insuring quicker delivery.

The only drawback to the over-the-counter program so far, said AAFES officials, is that it's so popular some out-of-stocks have been reported. However, they said, AAFES is developing an improved

automated inventory management system which should eliminate shortages.

Local Exchange Manager Joe Robinson said, "Our staff will do everything possible to expedite the orders when they are received from the AAFES catalog warehouse, and we ask for the understanding of our customers while we make these adjustments to what is proving to be a very popular extension of the catalog program."

Robinson also reminded customers to check the catalog order desk for new catalog supplements, issued to introduce new items into the program during the year.

## GSRS office finds itself a new home

The General Support Rocket System Office moved Monday to Bldg. 4566 from Bldg. 7120. Their new office is in a building made available to the Army by Marshall Space Flight Center, and is in the test area on the east side of Dodd Road.

Approximately 100 workers are involved in the move. The space they are vacating in Bldg. 7120 will be occupied by the MIRADCOM Standardization Group, now located in Bldg. 7444.

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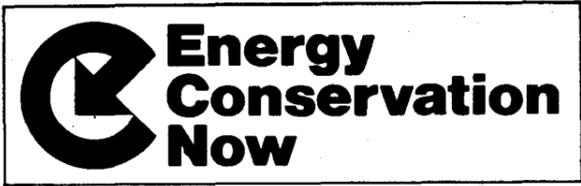
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## COURSE OFFERINGS — WINTER TERM 1979

**DATES:** MW sessions, Jan. 3-Feb. 26; TT sessions, Jan. 2-Feb. 22.  
**LOCATION:** 200 Sparkman Drive, Cummings Research Park, or as noted.  
**REGISTRATION:** Continuous through first session. Please telephone for reservations.  
**FEES:** 500- and 600-level courses: \$180 tuition plus \$5 registration. 700-level: \$300 tuition plus \$5 registration. Short-term fees as noted. Application (one time): \$25 regular, \$5 special (continuing education).  
**INFORMATION:** Telephone (205) 837-9726 or write P.O. Box 1485, Huntsville, Alabama 35807.  
**TEXTBOOKS:** Available from Burkett's Book Shop, located in Dunnivant's Mall.

\*\*\*\*\*

**11-561 INFRARED SYSTEMS** Short Term: Jan. 22-26; 8:30 a.m.-4:30 p.m.  
 An intensive survey of infrared sensors and their applications in military systems. Radiation physics; sensor characteristics and calibration; target and background signatures; signal processing; radiation effects on sensors; detection, discrimination, designation, and tracking techniques; infrared sensor systems.  
**Lecturers:** C. H. Horgen (Coordinator); N. R. Byrn; A. R. Dunn; R. D. Lewis; G. L. Lindquist; H. B. Macurda; R. J. Nichols; T. W. Tuer; and D. M. Wilcox; all of Nichols Research Corporation.  
**Location:** Carriage Inn **Fee:** \$350 total

**11-671 ADVANCED RADAR SYSTEMS I** MW 4:30-6:40 p.m.  
 A detailed study of advanced topics in radar systems. Radar cross-section analysis; clutter; polarization; ECM and ECCM; sidelobe cancellation; phased-array systems; pulse compression radar. Background: knowledge of basic radar; knowledge of signal analysis mathematics desirable.  
**Instructors:** Stephen M. Gilbert; B.S.E.E., M.S.E.E., Ph.D.; Dynetics, Inc.  
 Mervin C. Budge; B.S.E.E., M.S.E.E., Ph.D.; Dynetics, Inc.  
**Textbook:** None required

**14-547 MISSILE AERODYNAMICS** MW 4:30-6:40 p.m.  
 An introduction to aerodynamic analysis and design for missiles. Aerodynamic characteristics of airframe components; system performance characteristics; static stability and control; maneuvering flight; dynamic stability; aerodynamic loads. Background: knowledge of fluid mechanics.  
**Instructor:** Donald J. Spring; B.A.E., M.S.A.E., Ph.D.; U.S. Army Missile R&D Command  
**Textbook:** Special materials available from Southeastern

**17-547 MICROPROCESSORS AND MICROCOMPUTERS** TT 4:30-6:40 p.m.  
 An introduction to microprocessors hardware, software, and applications. Digital logic; microcomputer architecture; machine and assembly languages; interfacing methods; popular microprocessors; design methodology. Background: general knowledge of computers and programming.  
**Instructor:** J. B. White; B.S.E.E., Ph.D.; NASA Marshall Space Flight Center  
**Textbook:** Microcomputers/Microprocessors, by Hilburn and Julich; Prentice-Hall

**17-573 STRUCTURED PROGRAMMING** MW 4:30-6:40 p.m.  
 A study of structured programming for developing complex software systems. Program cycles and costs; top-down program development; program design languages; implementing structured coding; verification using structured walk-through. Background: knowledge of programming and computers.  
**Instructor:** Marvin Polan; B.A., M.Sc., D.Sc. Candidate; Teledyne Brown Engineering  
**Textbook:** A Structured Approach to Programming, by Hughes and Michtom; Prentice-Hall

**21-621 MANAGERIAL DECISION-MAKING** TT 6:50-9:00 p.m.  
 A seminar on the managerial decision-making process. The nature of decision-making; bounded rationality; influences on decision-making; the environment, individual and group behavior, values and ethics; techniques for making decisions; implementing the decision. Background: studies or experience in management.  
**Instructor:** George P. Psihas; B.S., M.B.A., D.B.A.; Chrysler Corporation, Huntsville Division  
**Textbook:** The Managerial Decision-Making Process, by Harrison; Houghton Mifflin

**24-616 BUSINESS LEGAL ENVIRONMENT** MW 6:50-9:00 p.m.  
 An examination of the legal environment of business and commerce. The regulation of business; taxation; anti-trust laws; mergers, consolidations, and acquisitions; securities regulations; employment, safety, and health laws; environmental laws and regulations; consumer protection.  
**Instructor:** Gary L. Rigney; B.S.E.E., J.D.; Calloway, Green and Rigney, Attorneys at Law  
**Textbook:** The Legal Environment of Business, by Corley et al; McGraw-Hill

**27-544 COST ESTIMATING TECHNIQUES** TT 4:30-6:40 p.m.  
 A study of concepts and procedures for estimating costs of products, projects, and systems. Cost information; structure of cost; forecasting; preliminary and detailed estimating procedures; product, project, and system estimating; management of cost estimating.  
**Instructor:** Robert F. Burnes; B.M.E., M.S.I.E., D.Mgt. Candidate; PRC Systems Services Corporation  
**Textbook:** Special materials available from Southeastern.

**31-551 MATHEMATICAL MODELING** TT 6:50-9:00 p.m.  
 A study of the application of mathematics in developing models. Scaling and dimensional analysis; graphical methods; optimization concepts; probability and Monte Carlo simulation; quantitative differential equations; local stability. Extensive use of examples. Background: knowledge of calculus.  
**Instructor:** Eugene J. Putzer; B.A., M.A., Ph.D.; Kentron International, Inc.  
**Textbook:** An Introduction to Mathematical Modeling, by Bender; Wiley-Interscience

**34-647 HIGH-ENERGY LASERS** TT 4:30-6:40 p.m.  
 A detailed examination of lasers with high average output powers. Review of atomic and molecular physics and laser theory; chemical, gas dynamic, and electrical discharge lasers; free-electron and other advanced concepts. Demonstrations of systems. Background: basic knowledge of lasers.  
**Instructor:** Thomas G. Roberts; B.S., M.S., Ph.D.; U.S. Army Missile R&D Command  
**Textbook:** To be announced

**XX-791 ADVANCES IN SPECIALIZED AREAS** Hours Arranged  
 An independent review of advances in a specialized area. This is the qualifying study for persons seeking admission to the research portion of the D.Sc. program and constitutes the first half of the Dissertation Institute.

**90-702 RESEARCH PREPARATION** MW 6:50-9:00 p.m.  
 A workshop in topics necessary for conducting advanced research. This is the second half of the Dissertation Institute for persons seeking admission to the research portion of the D.Sc. program.

**90-621 MASTER'S PROJECT** Hours Arranged

**90-711 DISSERTATION RESEARCH** Hours Arranged

**90-731 RESEARCH STUDIES/COLLOQUIA** Hours Arranged

\*\*\*\*\*  
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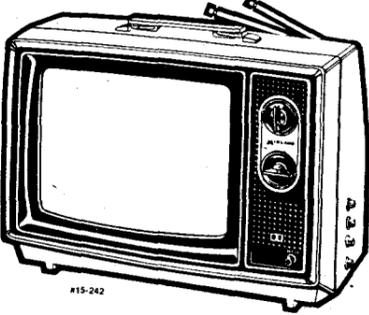
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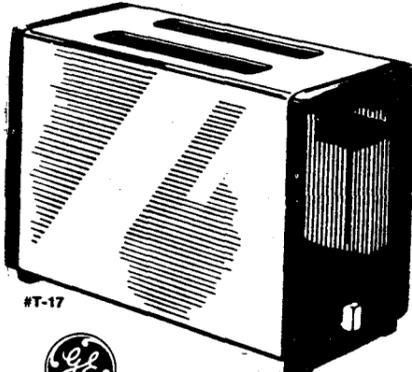
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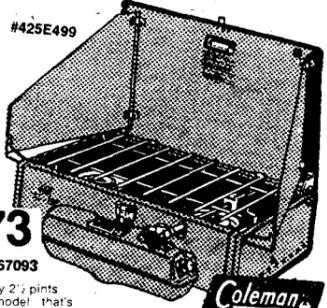
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ATARI  
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COMPUTER  
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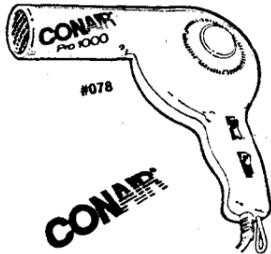
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- Lightweight, easy to handle
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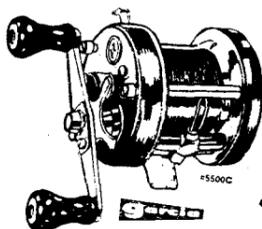
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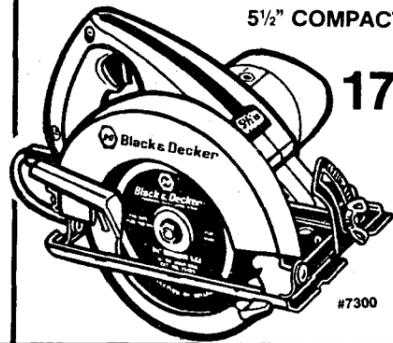


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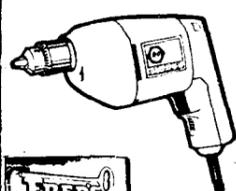
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# Bonuses change in some MOS



WASHINGTON (ARNEWS) — Reenlistment bonus changes that take effect Dec. 15 will mean a selective reenlistment bonus (SRB) increase in one MOS and a decrease in two MOS, MILPERCEN officials announced this week.

MOS 24E is being increased from SRB-1A to SRB-2A.

MOS 24G is being decreased from SRB-4A to SRB-3A and MOS 91C is being decreased from SRB-3A to SRB-2A.

Soldiers who hold these MOS and who plan to reenlist soon should check with their units to time reenlistments when they will be most rewarding.

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 "Our Properties Are WORTH LOOKING INTO"



LIKE NEW — This home is just like new but all the extra things have been done. The landscaping is done, wallpaper hung, fencing completed. Dead bolt locks, wind turbines and storm windows and doors installed. The workshop is partitioned and the lighting and wiring done. There are four bedrooms, one is down. Den with fireplace and paneled rec room has no-wax vinyl floor. Eat in kitchen features self-cleaning oven and corning ware cook top range. Three ceramic baths are wallpapered and have vanities. Foyer, formal living room and dining room. Nice comfortable front porch and convenient deck on the rear. Trees, too. Take advantage of this owners transfer. \$73,325. Call.



"FESTIVE HOLIDAYS" can be enjoyed in this home. A beautiful brick rancher in Meridianville. Three bedrooms . . . the master is truly a King Size bedroom . . . two baths, a large eat-in kitchen with big pantry. A beamed ceiling GREAT ROOM with fireplace for roasting chestnuts and a formal dining room to properly set off mom's special holiday meals. \$56,500. Call.

ON TOP OF THE VALLEY — Beautiful mountain acreage building site with Panoramic view, 9.2 acre lot for only \$13,340. Also 3 acre lot for only \$4,800. Located south of Huntsville on Brindlee Mountain. City water hook-up available.

INVESTMENT OPPORTUNITY. Prosperous business and well established business in choice SE retail area is available. Price fluctuates depending on terms. If you've been thinking about going out on your own . . . call for an appointment to discuss this unusual opportunity.

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# Energy Conservation Now

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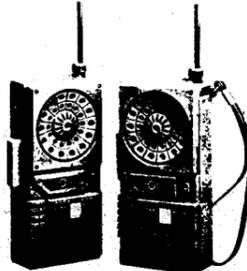
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REDUCED PRICES ON GREAT GIFTS

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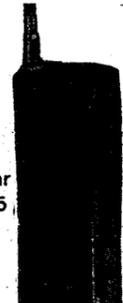
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\$70's & Up

ESTATE IN TWICKENHAM — The classic beauty is represented in this antebellum home. Built prior to 1824, remodeled, restored and preserved, the home possesses a formal grace and dignity which cannot be effaced by the passing of time. Home features 14 foot ceilings, beautiful moulting, six fireplaces. The double hand made brick walls are covered by stucco. Call to see the original antique windows remain. Home is situated on a picturesque lot. Offered at \$350,000. (04-614-F). 883-1200.

WANT TO LIVE IN THE COUNTRY? Well look at this! Three bedroom home recently renovated, horses barns, and twenty three acres. Lots of fruit trees and only twenty minutes from Haystack Lane. \$72,500. (SR B-108). 883-1200.

BE A GENTLEMAN FARMER ... live in a nice 4 bedroom, 2400 sq. ft. rancher, farm your own 37 acres. Home is in a beautiful wooded setting, farm has 26.6 acres in row crop. 660' ft. of frontage on Al. 69. Call Arab (1-753-2295) or 883-1200. (04-R3-B334-G)

SUNSET COVE, 2615 VISTA — Very impressive Two Story (Plus Basement). One acre nature lot. Den w/F.P., Huge Rec. room, 2400 + sq. ft., 5 BR'S + (Large Isolated MBR) 3 1/2 baths, attractive decor (new paint and wallpaper). Total price \$76,500. Will accept trade. (04-2615-V) 883-1200.

7904 DOUBLETREE, S.E. Privacy, convenience and charm are all here in this lovely home within walking distance of Grissom High School, consisting of entrance foyer, large formal living room, extra large dining room, lovely "U" shaped kitchen has self-cleaning over plus regular oven and lots of cabinets and counter space, breakfast room, the large separate den has cathedral ceilings and large fireplace, 1/2 bath nearby, there are 4 bedrooms and 2 more baths, oversized 2 car garage with storage above, extra nice grounds with fenced back and storage building. Only \$82,900. (04-7904-D) 883-1200.

3 BEDROOMS, 3 1/2 BATHS. In beautiful Mt. Charron ... Where you enjoy the 4 seasons of the year and breathe the clean air, and where you can ride horses, hike, target practice, or whatever your sport is. A lovely home with many conveniences is included plus a horse barn and large workshop. Price tab \$145,000.00. 533-1490. 06-FL-M.

THIS RANCHER HAS IT ALL — 4 bedrooms, 2 baths, foyer, living and dining rooms, den with fireplace, lovely built-in kitchen, breakfast area, inside utilities and large roomy double garage. \$70,000. (04-13008-A). 881-9111.

WHAT ARE YOUR FAVORITE COLORS? Then put them as the color scheme in this home that is now under construction in Camelot. This two story home has just what you have been looking for in a new home. 4 bedrooms, 2 1/2 baths, foyer, formal living and dining rooms, kitchen, breakfast room, inside laundry, double garage, and 2238 SQ. FT. of living area. \$72,000. (04-2605-G). 881-9111.

BEST BUY IN SE — Approximately 3500 sq. ft. of gracious living in exclusive Jones Valley. 5 bedrooms, 3 full baths, 2 half baths, formal living and dining room, fully modern kitchen and breakfast room, den with fireplace, rec room with Franklin Stove and wet bar. All of this recently redecorated. Also a beautiful Cox-Craft granite pool with pebble stone deck and wet bar. Call for appointment. (04-TH-836). 533-1490.

SOUTHEAST — Super large home for active family, being redecorated. Has four large bedrooms, 3 with walk-in closets, den w/fireplace, 580 sq. ft. rec room, inside laundry, huge foyer and living-dining room. \$75,500. (04-E-2520) 883-1200.

HORSE FARM — Beautiful 25 acre horse farm for only \$145,000. This farm is fenced, has year round spring, six stall barn and modern 2300 sq. ft. house. (05-FL-M). 533-1490.

YOUR GOLDEN OPPORTUNITY! To purchase this elegant colonial-style home and 76 beautiful acres. The home is almost new custom-built, and designed for gracious living. Very attractive foyer, formal living, dining rooms, great den with brick heat-olater fireplace, fully equipped deluxe kitchen and breakfast area, 2 1/2 lovely baths, 3 spacious bedrooms, superb inside laundry, double garage, and a large pool with built-in shelves. Utility bill is reasonable. The acreage is excellent for soybeans, timber, etc. Located in Limestone County. \$154,000.

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, rear-entrance kitchen and quality extras found only in this price range. \$74,900. (04-B-1027). 883-1200.

A BEAUTIFUL SITE — Enchanting brick rancher nestled in the trees on a spacious corner lot. Under construction now in Fox Run, this home offers 4 large bedrooms, cheerful kitchen with bay window in breakfast room. The family room which is situated conveniently close to the kitchen has fireplace and built-in bookcases. Large inside laundry room with 1/2 bath, 2 other full baths, foyer, separate dining room, double side-entrance garage with workshop or storage area. Come see the plan and the site of this excellent ranch style home. (04-1202-T).

SOMETHING SPECIAL — 3108 sq. ft. of rustic living on 9.5 acres of beautiful land, located just east of Arab. This exceptional home offers 2 bedrooms, 3 baths, 3 fireplaces, great room, rec room, fully equipped kitchen, dining room, double garage, master bedroom suite has its own fireplace. Gorgeous rock fireplace in great room. You must see, a bargain at \$92,550. (04-OB-CA-RS). 1-753-2295 Arab or 883-1200.

BEAUTIFUL TWO-STORY — Pine Lake Village, Arab, 2361 sq. ft. of exceptional living area, located on a beautiful wooded lake lot with 212' of water front. 4 bedrooms, (master suite), 2 1/2 baths, living room, dining room, eat-in kitchen, (fully equipped), large den with fireplace and built-in bookcase. Large deck overlooking lake, central heat and air, double garage. 1-753-2295 Arab or 883-1200. (06-WCA-7).

GIVE THE GARAGE BACK TO THE CARS — and spread out in this basement. Foyer, living, dining, sunshine eat-in kitchen, (bay window) view from the sundeck, den with fireplace, 4 bedrooms, 2 baths, rec room is 23x34 ft. garage has 946 sq. ft. fenced corner lot (123x140) (MTC) (04-M-11214). \$71,500. Call 881-9111.

SURROUNDED BY THE MOUNTAINS — This lovely home in Camelot offers the beauty of the surrounding mountains plus 4 bedrooms, 2 1/2 baths, foyer, living and dining rooms, large built-in kitchen, den with fireplace, inside laundry, double garage, and deck from which to view the mountains... \$71,500. (04-2603-G). 881-9111.

PANORAMIC VIEW OF LAKE GUNTERSVILLE — from your 40 acre back yard. This like new 2290 sq. ft. rancher is on one of the finest Mounting most scenic properties. Home features 3 large bedrooms, 2 1/2 baths, great room with recessed lighting and beautiful rock heatolater fireplace, large extra den or rec room, inside utility room and an oversized double garage. 26 of the 40 acres are tillable. The remaining 14 are beautifully wooded with several bluff building sites. Call Arab 1-753-2295 or 883-1200 today for an appointment. (04-R1B204-A).

EXCLUSIVE LISTING — STONE-CEILING-GLASS — A contemporary in the upper price bracket in a prestigious neighborhood. Enter an unusual foyer 8x14 ft. with cathedral ceiling, walk through the extra-large formal living and dining rooms, kitchen with eat-in area from which you can see the flowers on the 40 ft. deck or the fire in the stone fireplace. Large built-in kitchen, den with fireplace, ceilings, then through four bedrooms and down to the full finished basement. There is a study or hobby room, a huge "rec" room with bar area and space enough for pool table and game table, another large "exercise" room, plus utility room. Over 3800 sq. ft. plus more than 900 sq. ft. garage, on a beautifully wooded and landscaped lot. \$135,000. (04-L-811). 883-1200.

VACATION ATMOSPHERE — in year around luxury living, 2 1/2 wooded acres on Brown's Creek with down town Gunterville Shopping and school convenience. \$100 sq. ft. cedar and brick A-frame offers den with stone fireplace plus rec room and study. Formal living, very large formal dining, built-in kitchen, sunny breakfast room, huge loft master suite with circular staircase and private deck over looking in-ground Roman swimming pool and river boat house with electric lift. Large cedar 2 car garage and separate cedar workshop. \$150,000. (04-GBC).

4012 PIEDMONT DRIVE, S.E. — Charm in the trees. Lovely 2 story home on a wooded lot in upper Piedmont. 50 much room, including 4 bedrooms, family room with fireplace, rec room, hobby room, specially equipped sewing area. Lots and lots of storage space!!! Beautiful neighborhood. Mid-80's. (4012-04-P). 881-9111.

LIKE BASEMENT RANCHER?? 11214 Mountcrest Dr. is immaculate and only 5 years old. This lovely brick home is on a 123 X 140 corner lot with a huge work shop area in a super 946 sq. ft. side entry garage plus a rec room you could square dance in! Lovely foyer, dining, sunny eat-in kitchen with bay window and new front sundeck. 4 bedrooms, 2 baths, richly paneled den with fireplace. \$71,500. 881-9111.

A DIAMOND NECKLACE ... couldn't sparkle any brighter than the lights of Downtown Huntsville from the living room, dining room, den and deck of this superb new listing we offer in a Blue Chip location. Approx. 3200 sq. ft. on a gorgeous lot affords an opportunity to use your imagination and skill in decorating to create the luxury of "A Diamond Necklace" you can afford. \$102,500. (04-2202-A). 883-1200.

MUST SACRIFICE — Due to owners illness he must leave this lovely home on 160 acres. Large modern brick ranch has 3 bedrooms, 2 baths, den, central heat and air plus lovely fireplace. Also has a 2 bedroom rental house nearby. Located 22 minutes outside of Huntsville. Asking \$135,000 (6-W) 881-9111.

\$60's

WHERE CAN YOU FIND IN SOUTHEAST more than 2500 sq. ft. of living area, 4 bedrooms, 3 baths, huge den, fireplace, almost new roof, heating-cooling system, new water heater, double garage — on a gorgeous private lot for only \$63,900. on equity sale or VA financing...?? (04-S-7903) 883-1200.

11022 ROCKCLIFF DR. NEW LISTING! In beautiful Mt. Charron Estates is this 4 bedroom 2 bath ranch brick home sitting on an acre-plus wooded lot, fireplace opening to both the living room and den, sliding glass doors from den to 32 x 12 redwood deck shaded by mature trees, inside laundry, deluxe kitchen with large eating area, double den. One bedroom is completely separate and private, double side-entrance garage. \$64,150 Total.

THIS VERY WELL CONSTRUCTED home in an ideal location is waiting your arrival. You will find approx. 3000 sq. ft. situated on two lots with an excellent view. The rooms are large enough for any type furniture. The living, dining rooms are excellent for entertaining, and the extra-large eat-in kitchen accommodates the whole family. The upstairs has 2 1/2 baths. The daylight basement is perfect for "in-laws" with bath, stove and sink, plus many other features. Priced at \$65,000. (01-WL-1004). 533-1490.

NEW LISTING — Dug Hill Rd. area ... features a gorgeous one acre setting and offers 3 bedrooms, 2 1/2 baths, large den and rec room, study, plus workshop and double car garage. It's a must to see. Better hurry on this one. \$65,000. (04-TH-818) B.

PERFECT LOCATION - PERFECT HOME - PERFECT INVESTMENT... close to schools, shopping, S.E. 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. (04-C-9013). \$67,900. 883-1200.

CAMELOT — Just listed, charming 7 yr. old 2 story with 2300 sq. ft. of living area. Four large bedrooms, 3 full baths, foyer, den with fireplace, living room, spacious dining room, huge rear entry 2 car garage, storm windows & doors, power ventilator, beautiful landscaping. \$65,900. (2518-C). 883-1200.

TRADITIONAL — Ranch on lovely wooded lot. 1942 sq. ft. of living area. 4 bedrooms, 2 baths, thermo-pane windows. Stone fireplace and fully carpeted. (04-A-13005) \$64,400. 881-9111.

THE AMERICAN DREAM — Your ultimate goal in life, next to family and love, is owning a impressive home w/quality features. Well here it is! Beautiful construction such as the enormous great room w/F.P., 3 lovely BR's, 2 baths, & a very large formal LR & Sept. DR. Situated on 1 acre w/beautiful pine trees. (05-220-IAL). 533-1490.

GOOD NEIGHBORS — View, Trees, fireplace, separate living room, dining room, modern kitchen with breakfast area, big 2 car garage, well decorated and available NOW! \$66,500. (04-M-11209). 883-1200.

BASEMENT RANCHER — 4 bedroom home in Fox Run. Approximately 1 1/2 years old. Equipped kitchen with breakfast bay, living/dining comb. den with fireplace, playroom downstairs, inside laundry, large double garage, deck, trees. Priced mid \$60's. Equity \$18,100. (04-W-2516).

OLD HOUSE FANS...here's your opportunity. In the Twickenham District, our new listing features 5 bedrooms, 2 baths, modern kitchen, split systems for heating-cooling, large living, dining, study & den. You will be a welcome addition to our dynamic, growing, prosperous Historic District, where the quality of life can only be rated as "Fantastic". \$62,500. (04-E-416).

PRIVATE TOWN ESTATE — A P R T A E N T COMPLEX — Brick, one level corner lot. Each unit has large LR/BR combination, nice kitchen eat-in area, large ceramic bath. Fully carpeted. All furniture & appliances & drapes remain, fully occupied. Returns \$120.00 each unit per month. (\$7,200 annual). Total price \$65,000. (28009th). 533-1490.

WALK TO WEATHERLY SCHOOL — from your new 4 BR home. This home offers formal living room, separate dining room, fully equipped kitchen and spacious breakfast area, den with FP and 1/2 bath on first floor, upstairs 4 large bedrooms, and 2 baths. This home is beautifully decorated in shades of dark rust carpeting and extensive use of wallpaper. Ready for your family. \$67,500. (04-9000) 883-1200.

MADISON — Lovely "Old Brick" rancher on large lot. Featuring living room/dining room, large eat-in kitchen, den, 3 bedrooms, 2 baths, utility room, paneled double garage, heavily treed across rear of lot! Many extras! (05-350-V) 533-1490.

LARGE FAMILY needed for this tri-level home in Fox Run S/D. Features include 4 BR's, great room with FP PLUS rec room, formal dining room, fully equipped, 2 1/2 baths and side-entrance garage. Call for more info. Come see for yourself and choose your own colors \$66,200. (04-C-14005) 883-1200.

DEN & REC ROOM ... Tri-level, 2050 sq. ft. 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. \$65,900. (04-S-1210). 883-1200.

WALK TO GRISSOM ... from this 1 1/2 story Cape Cod. Features include 4 bedrooms, 2 baths, huge 14 X den with stone fireplace, double garage lovely lot with fenced rear yard. Roof is only 2 years old, new carpet in den and new vinyl in kitchen. (04-H-7819). 883-1200.

ROCKMONT-ON-CARDESSA High above lake Gunterville rests a home of unique dimensions and character. A modern, 1 1/2 story tri-level features 4 bedrooms, 3 baths 28x24 Great Room with A massive full masonry fireplace, luxurious, 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, Gunterville and Huntsville. Asking \$64,900. We'll throw in its "Million Dollar View" of the lake below for absolutely nothing. (06-R2-Box 523 B). 883-1200.

DO YOUR OWN THING — and decorate this rancher the way you want to have it decorated. If you hurry you can still choose the colors, carpets, wallpaper, etc. of your choice. This home features 4 bedrooms, 2 baths, foyer, living and dining rooms, den with fireplace, breakfast area, double garage and patio. \$66,000. (04-13002-A). 881-9111.

HUGE, HUGE MASTER SUITE — if you've got double king-size beds they will fit nicely in this master suite. If you need lots of room (744 sq. ft.) this home has it. If you need 4 bedrooms this is it. If you have a den that you need a rec room it's here too. If you need 2 1/2 baths let us see this home. Offered at \$66,900. A price you can't beat with a stick. (04-2002-W). 883-1200.

CHOOSE YOUR OWN — colors, carpets, wallpaper, etc. in this lovely rancher that is now under construction in Camelot. This home features 4 bedrooms, 2 baths, foyer, living and dining room, den with fireplace, large kitchen with breakfast area and much more. Call 881-9111 to see \$65,000. (04-13006-A).

FOR THE FAMILY THAT NEEDS MORE ROOM — Come look at this beautiful 4 bedroom 2 1/2 bath tri-level in beautiful Camelot. Also features foyer, living and dining rooms, den with fireplace, breakfast room, modern kitchen with breakfast room, double garage and much, much more for your money. \$65,000. (04-13007-A). 881-9111.

DO YOU LIKE TRI-LEVELS? Then you will love this newly constructed tri-level in Camelot. This home features foyer, living and dining rooms, den, rec room and of course a fireplace. 4 bedrooms, 2 1/2 baths, double garage, inside utilities and much more for \$65,000. (04-13009-A). 881-9111.

CHARMING VICTORIAN — Would you believe right here in Huntsville is one of the loveliest Victorian homes that you can find anywhere? This home, located on a large park-like lot, offers 4 bedrooms, 3 baths, 2 fireplaces, entrance foyer, formal living and dining rooms, study, large roomy kitchen, oak floors, 9 ft. & 11 ft. ceilings, detached garage and much, much more. 881-9111 — Priced in the \$60's. (02-M-1506).

\$50's

CHRISTMAS IN COUNTRY — a place for your loved ones. The whole family will cherish the beauty of this year old brick country rancher. Enjoy Christmas Eve by the cheerful fireplace. Spread out in spacious REC room on Christmas Day. Mom will love to prepare the feast in her beautifully equipped country-size kitchen and serve the guests in elegant dining room. Sleepy heads will rest comfortably in 4 bedrooms, 2 baths, and a new front sundeck. 4 bedrooms, 2 baths, richly paneled den with fireplace. \$71,500. 881-9111.

SIP A MINT JULEP — while you relax on the (extra large) patio situated behind this lovely tri-level home. Just a hop to school from this (established) neighborhood... 4 (large) bedrooms, 2 1/2 baths, COUNTRY-SIZE kitchen, SEIZABLE living room/dining room combo, DEN with beautiful slate floors, SPACIOUS rear porch, and a DOUBLE carport. 2200 sq. ft. REASONABLE - PRICED AT \$37,500. CALL NOW! (03-H-3811). 533-1490.

NEW TRI-LEVEL — Located in Grant — Just 2 miles off 431 South. Well constructed tri-level with 2224 sq. feet of living area featuring foyer, living room, dining room, den w/wet bar, 4 bedrooms, 3 baths, kitchen w/breakfast bar and built-ins, double garage, storm windows. Purchaser may select carpet and color of appliances. Price at only \$37,900. (06-R1#2-G-L#21) 533-1490.

13105 CHANEY THOMPSON RD. ... is a new energy saver with finished basement (study, bedroom, bath laundry, den) and upstairs you could live independently with great room, dining area, eat-in kitchen, lovely fireplace, 2 bedrooms (one on each end of first floor) 2 baths, and 2 car rear entry garage. See today! \$53,900. 881-9111.

WIDE OPEN SPACES ... surround this charmingly different tri-level. It's almost like a farm in the city. Features 4 bedrooms, 2 baths, den, double car garage. (03-2200-V) 883-1200.

BEAUTIFUL NEW BASEMENT RANCHER — Energy saving rancher ready to occupy and within walking distance to Mt. Gap School (elementary and Jr. Hi.). Give yourself a Holiday treat by investing in this 1976 SQ. FT. home. 3 bedrooms, 3 baths, dining area, rec room, study, double garage tucked near the mountain in latest Camelot subdivision. Home decorated in lovely shades of gold with outstanding full-wall corner fireplace and huge eat-in kitchen. \$57,750 (04-G-2510). 883-1200.

QUIET CUL-DE-SAC ... is awaiting you in this 3 BR rancher now under construction. Includes formal living room & dining room, den with FP & bookshelves, fully equipped eat-in kitchen & inside laundry & side entry double garage. Pick your own colors. \$55,000. (04-A-1200) 883-1200.

NEW NEIGHBORHOOD (many TREES) with homes still priced in the 50's?? Yes, if you hurry!! Lovely 3-bedroom, 2 bath brick rancher on 170 x 110 corner lot with side-entrance double garage tucked near the mountain in latest Camelot subdivision. Home decorated in lovely shades of gold with outstanding full-wall corner fireplace and huge eat-in kitchen. \$57,750 (04-G-2510). 883-1200.

TO SEE IS TO DESIRE — Don't miss seeing this very desirable 3 bedroom ranch home. This delightful rambler has many features you find in more expensive homes... Woodburning fireplace in den, 2 baths, carpeting throughout, exceptionally large lot and attached 2 car garage. This is also a great modern and modern kitchen with all the built-ins... \$58,900. (04-G-2512). 881-9111.

TWO BASEMENT RANCHERS will have finished basements — (Spacious rec room for family fun — bedroom and bath for guests.) 2 BR'S, 2 baths upstairs — fireplace, 2 car garage. \$53,900 (CT-881-9111).

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 (04-CT-14004). 881-9111.

3 BEDROOM AND STUDY or 4 bedrooms, great room with fireplace, 3 baths and fully carpeted. Walk to Mt. Gap School. (04-CT-14010). 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. (02-JL-303). 533-1490.

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. \$59,400. (02-JL-118). 533-1490.

GOURDNECK — Continue on Chaney Thompson Rd. from our new basement ranchers and turn right at Gourdnck. View 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-in central heat/air, carpet throughout, double garage. \$59,900. (04-M-14003). 533-1490.

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. Sandy beach. \$53,900. 883-1200.

IF — this seems high to you, take a look at the NEW screened porch, beautiful new custom drapes throughout, lovely carpets, 3 or 4 bedrooms, eat-in kitchen, fireplace in living room, NEW roof and more... \$55,000. 881-9111. (04-M-11511)

4 BR. RANCHER — Here is a very tastefully decorated home located at the end of a very quiet street, with-in walking distance to Weatherly School. Features include 4 bedrooms, living and dining room, den with fireplace, fully built-in kitchen, patio, double car garage, fenced yard that has been well landscaped. Assume 7 1/2% VA loan or refinance. (04-9724-D). 533-1490.

BEST OF BOTH WORLDS. For those who want the privacy, place and beauty of nature — yet quick access to schools, shopping or country club. New listing. Immaculate 4 bedroom rancher. Den with fireplace, new carpets. You'll love the deck facing a half-landscaped, double garage w/wooded setting. Excellent neighborhood. Many other extras. (04-1308-WR). \$59,900. 883-1200.

ARE YOU RUN DOWN LOOKING AT RUN DOWN HOUSES?? Stop by for a pleasant surprise. Exterior just completely repainted. Interior fresh and clean and newly carpeted in bamboo (dusty gold) 1900 sq. ft. (2 story) with tile foyer, isolated living room, sep. dining room, gayly papered kitchen, sep. den with lovely dark-stained floors, 2 1/2 baths, 4 good-sized bedrooms, and lots of closet space. Super condition and ready to move in. Kids walk to YMCA and Weatherly Elem. \$53,500. (04-10007-A). 883-1200.

\$40's

PICTURE PERFECT... Brick tri-level on a lightly wooded lot. 3 bedrooms, 2 baths, living room, W/FP + den. Formal dining has French doors onto a lovely patio. Sunny built-in kitchen — all decorated to a "T". Storm windows, large garage. (3925-N). 883-1200.

DO YOU HAVE A FAMILY? Then this is the home for you featuring entry foyer, LR/DR combo, large den and study down. 1 1/2 baths, single garage, lots of storage. (01-R-2603). \$45,000. 533-1490.

QUIET AND PEACEFUL — Located in Grant — Just 2 miles off 431 So. — New well constructed all brick rancher featuring foyer, super large living room, den, 3 bedrooms, 2 baths, kitchen w/breakfast bar & built-ins, double garage. Purchaser may select carpet & color of appliances. Priced at only \$47,900. (06-R2-G) 533-1490.

THE HOME TEAM  
110 LILY FLAG RD., SE  
PH. 883-1200  
3125 UNIVERSITY DR., NW  
PH. 533-1490  
9011 S. MEM. PARKWAY  
PH. 881-9111

WHAT'S BUGGING YOU. If it is the HIGH RENT you're paying and nothing to show for it, you should do something about it. Make a start in the right direction TODAY. See our new 3 bedroom ranch with the great room and fireplace, 2 baths and a modern kitchen, inside utility, double car garage and a very important feature is that it is an energy saving home surrounded by trees. \$46,100 (04-1012-S). Call. 881-9111.

LAZY BOY SPECIAL — Maintenance free vinyl (NEW) siding and brick exterior, plus NEW roof will give Dad back his weekends. Mom will be thrilled with NEWLY carpeted, freshly painted and wallpapered interior. Spacious tri-level features 4 bedrooms, 2 baths, living/dining, separate den, large laundry room with NEW water heater and double garage. Treat your family to this sparkling carefree home for only \$48,500. Immediate occupancy. (04-313-MG). 883-1200.

RATED "G"... for great family living in this new area convenient to Mt. Gap School. Also fun great room w/fireplace. Large master suite situated across the home from the other 2 BR'S and baths. Lovely kitchen w/built-ins. Formal dining. Under construction so choose your decor. \$47,100. (A-1025) 883-1200.

LIGHT UP YOUR LIFE ... in this charming tri-level with 736 sq. ft. of garage. 3 large bedrooms, formal dining room with fireplace, formal dining + eat-in kitchen. Help up decorate to your taste. Cedar tree studded lot. \$48,500. (A-1023). 883-1200.

HURRY — for this terrific brick ranch won't last long!!! 3 bedrooms, 2 full baths, large eat-in kitchen, den, finished 2 car garage, storm windows ... \$48,950. Call 881-9111. (04-C-11318).

GREENHOUSE AND PHEASANT CAGE — Go with this excellent brick rancher. Good NW street. LR/great room w/F.P. Large kitchen, 3 BR, 1 1/2 bath, central heat and air, carport, super back yard with stone cedar fence, large greenhouse and bird cage. New roof, paint and gutters. Total price \$45,000. Owner will consider financing. (01-2203-L). 533-1490.

COUNTRY RANCH — 2 1/2 acres — \$49,500. Just listed, this immaculate kept home features 3 bedrooms, formal dining, mud room, massive great room featuring a rock front heatolater fireplace, screened sun porch, garden area. Only 17 miles from University Dr. and Jordan Lane. Additional acreage available. (06-RT-2-G) 883-1200.

NEVER HAD A NEW HOME... Well, this energy saving basement is for you — only \$48,700 and time to choose your colors. What a GREAT ROOM with fireplace and a lovely eat-in kitchen — plus 3 bedrooms, 2 baths and an UN-FINISHED basement with 2 car rear entry garage — and some trees thrown in!! (04-CT-14012). Call 881-9111.

RAMBLING ROSES AROUND A RAMBLING RANCHER at a great central location (2511 Brookline, NW) This is a new house! Now you can move and enjoy the holidays. Especially nice is a large den with fireplace, 4 bedrooms, 2 1/2 baths, country kitchen with lots of cabinets for Christmas goodies, formal living-dining, all carpeted and draped. Beautiful corner lot. See NOW... \$45,900. (04-2511-B). 881-9111.

CRAMPED? NEED SPACE? This large two story cedar contemporary features 5 bedrooms, 2 baths, spacious living and dining rooms. Lots of storage space. Huge den has sliding glass doors leading to patio and fenced back yard full of fruit bearing trees. Convenient to school and shopping. (01-KL-6012). 533-1490.

NEED A LOT OF SPACE — 5 bedroom basement rancher will provide all the space your family will need and is close to school. NO DOWN PAY. MIN. DOWN FHA. (01-L-4604). 533-1490.

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.

MOVE UP — to this quality constructed brick home located in quiet stable neighborhood. This home features an entry foyer, formal living & dining room, den, roomy eat-in kitchen, 3 bedrooms, 1 1/2 baths and a double car garage. Also, you will find a patio with a 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 den w/fireplace, 3 bedrooms, 1 bath, new carpets, rear to move in lot. Fenced on outside with garden with garden spot and utility bldg. Wonderful neighborhood. More details, call 533-1490. (03-RW-4602)

DO YOU WANT A TRI-LEVEL — Then come by and look at this 3 bedroom, 2 bath, tri-level that has just been started and pick your colors and carpets, etc. This home also offers foyer, Great Room with fireplace and double garage, storm windows, and many other energy saving features... \$45,500. (04-S-1017). 881-9111.

3 BEDROOM RANCHER with 20 year siding, Great room with fireplace, 2 baths, fully carpeted. (04-B-13002). \$42,500. 881-9111.

\$30's

A LITTLE BIT OF HEAVEN — can be yours in this brick rancher on a large corner lot in a nice northwestern neighborhood which affords 1350 sq. ft. of centrally heated and air-conditioned living area with living room, dining room, den, 3 bedrooms, 1 1/2 baths, and fully equipped kitchen. Fringe benefits too such as new carpeting and low utility bills.

# Lockheed to fabricate, test "LOOPWHEEL"

HUNTSVILLE, Ala. — A new mobility system for U. S. Army and Marine Corps armored vehicles that is lighter, simpler and provides a more comfortable ride over rough terrain and greater vehicle control will be fabricated and tested by Lockheed.

The Lockheed-Huntsville Research and Engineering Center is working under an 18-month contract from the Army's Tank-Automotive Research and Development Command, Warren, Michigan, to fabricate a set of scale-model Lockheed LOOPWHEEL suspension systems to demonstrate their capability compared to conventional steel track systems.

Lockheed Project Leader B. Hobson Shirley said the LOOPWHEEL can reduce the weight of a vehicle nearly 10 percent and will contain 85 percent fewer parts than a conventional steel track and suspension system. Lead engineer on the project is Dr. Wolfgang Trautwein, who invented the latest LOOPWHEEL configuration for offroad vehicles.

Shirley described the LOOPWHEEL concept as relatively simple. "This basic device assumes an elongated shape in use," he says, "and supports the vehicle load, provides traction and spring suspension and distributes the loads evenly over the ground contact area. The LOOPWHEEL system also provides shock absorption and damping.

"Basically, as configured for off-road

vehicles, the LOOPWHEEL system consists of two or more barrel-shaped glass-fiber cores that are nested together with a rubber-like material (that provides the ap-

propriate tread) plus some metallic parts that protect the edges, provide the means to drive the LOOPWHEELS and provide the load-carrying surface."



TEST TREAD — The Lockheed LOOPWHEEL test tread (right) is shown along-

side a conventional track for an armored vehicle.

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## Thanksgiving service garners donations for world's hungry

Donations to the World Vision International, a non-profit agency which combats world hunger, were brought to the special Ecumenical Service held in the Bicentennial Chapel on Thanksgiving.

Approximately \$100 was collected through the use of Love Loaves previously distributed to Chapel families and through donations. The proceeds will go to the interdenominational Christian agency for distribution toward feeding some 150,000 persons around the world.

The Service remarks were made by Maj. Gen. Louis Rachmeler, CG, MIRCOCM. Col. Burt Dall read the presidential proclamation. Special music was presented by Ms. Gretta Champlin who also led congregational hymn singing.



**PRESIDENTIAL PROCLAMATION** — A special Thanksgiving proclamation signed by President Carter was read at the Ecumenical Thanksgiving service in the Bicentennial Chapel.

## New VA benefits available to some

A new law could mean an additional \$175 a month in VA compensation payments to certain disabled veterans.

The payments are authorized by "The Veterans Disability Compensation and Survivors Benefits Act of 1978," signed into law Oct. 18.

In general, veterans are eligible for the additional payment if they suffered the service-connected loss, or loss of use, of one extremity and later lost the paired extremity from nonservice-connected causes. The veteran also must have been rated less than 100 percent disabled by VA for his service-connected injuries to be eligible.

Average monthly VA compensation payment for a veteran with service-connected loss of a leg, or its use, is now \$211.

Congress also recently authorized an additional monthly benefit payment for which a quarter of a million surviving spouses of veterans may be eligible.

The new added payment of \$45 a month will go to widows or widowers now on VA Dependency and Indemnity Compensation (DIC) rolls who are so disabled as to be confined to their homes or immediate

premises, yet not so ill as to require nursing home care or the aid and attendance of another person.

Montgomery VA Regional Office Director William D. Davis said VA knows the identity of those receiving DIC and aid and attendance payments, but has no way of knowing how many of the DIC recipients are sufficiently disabled to be eligible for the new benefit.

"Prior to passage of this new benefit, these individuals were not covered for a confining disability that did not require nursing home care or aid and attendance, so they have never applied," Davis said.

He said his agency has enclosed notice of the new benefits category with its November DIC checks.

VA officials are seeking the help of national veterans organizations to locate disabled veterans and widows and widowers of veterans who may qualify for these new benefits.

Anyone who believes he or she might be eligible or who has questions about eligibility should contact the nearest VA office or local veterans organization.

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# 'DIRT-1' testing ends at White Sands after two weeks

WHITE SANDS MISSILE RANGE, N.M., (ARNEWS) — More than three tons of TNT and 148 rounds of 155MM artillery were exploded in a unique series of tests completed here recently.

The two-week program, known as the Dust Infrared Test, or DIRT-1, was conducted by the Atmospheric Sciences Laboratory here, and was primarily a technology development program aimed at learning how to evaluate this type of test for use in similar future programs.

The DIRT-1 series, first of its kind, will serve as a model for other tests studying the effects of battlefield smoke and dust on the Army's electro-optical sensors, such as night vision devices and lasers.

The tests were run by detonating various size charges of TNT and both static and live firings or artillery rounds. The resulting smoke and dust clouds were measured to determine the size of the dust particles generated and their density. Various types of electro-optical sensors were tested to see how they were affected by the smoke and dust.

Measurements during the tests were taken by both ground and airborne instruments. Airborne instruments were mounted in the fuselage of a stripped-down

0-6 Beaver aircraft. The Beaver fuselage was suspended on a 500-foot cable and flown through the blast clouds by a CH-54 Skycrane Helicopter.

James Lindberg, test director, said, "a lot of information about the optical properties

and characteristics of battlefield explosions was gained, and this information will contribute significantly to the development of electro-optical systems. We also learned quite a lot about the size and longevity of the clouds caused by these explosions."

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IBM's \$100. OTHERS Also IBM Selectrics Will Rent — Will Trade Phone 881-5510 Tfc

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Put your cleaning problems in good hands with prompt licensed & insured service. For free estimates call—**SQUEAKY CLEAN CLEANING SERVICE.** Windows are our specialty. 852-2478. Tfc

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7:30 P.M. EVERY FRIDAY NIGHT  
Household - China Bisque - Trash & Treasures. We take consignments / Dealers welcome. **AUCTION HOUSE,** 837-0461. We pick up & buy household items. (No shoes or clothes). tfc

**ECONOMY PAINTING CO.**  
Paper Hanging & Interior and Exterior Painting. Licensed, bonded, insured. Free decorating service with jobs over \$200.00. Satisfaction guaranteed. "We appreciate your business." Phone 534-6195 or 852-2478. Free estimates. Tfc

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1977 Zig Zag Sewing Machine. Sews on buttons, button holes, monograms. \$38. or finance \$5 mo. New Home Sewing, 2418 No. Parkway. Phone 539-8540. Tfc

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We clean 'um from \$35. If we can't clean 'um, You no pay!  
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Your new Purina Dealer is Circle J Western World. Located 305 N. Parkway, across from Traylor Island. 534-4225. Tfc

**KING SIZE BEDROOM**  
all new, includes bed, dresser, chest, mirror, box springs & mattress. Only \$595. or \$8. per wk. 536-3856.

**BEAUTIFUL**  
5 pc bedroom suite, with box springs & mattress, never been used. Sold for \$540. Only \$299.95 or \$5. per wk. 536-3856.

**WASHER & DRYER**  
New RCA WHIRLPOOL, never used. Cost \$675. Only \$495 or \$5. per wk. 536-3856.

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Beautiful 1978 model Walnut console. AM/FM radio, 3 speed record changer, tape, player, sells for over \$450, pay \$199.95 or \$12.50 per mo. Call 536-3856.

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RCA XL 100 25 in., reg. \$869. only \$599. or \$8.00. wk. 536-3856.

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1978 Tappan never used, \$399. or \$5. wk. 536-3856.

**3 ROOMS OF FURNITURE**  
Herculon living room suite, bedroom suite with box springs & mattress. 5 pc. dinette—all new. Only \$595 or \$8 wk. 536-3856.

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FREE DELIVERY TO R.S.A. No Deposit

As Low As \$5.00 Per Week  
Color Also Available  
**MOORE TV**  
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**\$24.95 \$26.95**

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Before Buying Your Auto Parts Check Our Prices and SAVE MONEY  
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Large 3 bedroom, 1 1/4 bath, step down den with fireplace. Big country kitchen, built-ins, carpet and some drapes. Walk to Gate 10. Reference & deposit. \$295. month. After 5 call 883-8029. 1tp

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110 Jackson, 1-yr. old contemporary 3 bedroom rancher, master suite, great room, draperies, 2 full baths, single car garage. Call Ann Sharp, Landmark Gallery of Homes, 539-0643. 1tc

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1974 Honda 550 4-Cyl. Excellent cond. New tires, crash bar, luggage rack, sissy bar, 8-track tape player, twin speakers in helmet included. \$750.00. 883-7401. Tfc

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1968 Dodge Coronet. 6 cyl. Reliable transportation. \$425.00. Phone 837-7040. 1tp

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Has 1978 trucks, vans, and cars for sale, lease, or rent. Also an excellent selection of used cars. Come by and see Herb Cleveland or any of our other friendly salesmen. Phone 586-6041. Tfc

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Pecan Halves. Guaranteed fresh. Sold by Huntsville Chapter No. 537 Order Eastern Star. For Arsenal delivery call 539-5446 or 536-3167. 12-6c

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Olympic size (8 1/2 x 16 1/2), heavy duty, weather proof. Retail \$730.00. Never used. \$375.00 delivered and installed. Will hold til Christmas. 881-2817. 1tp

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Three cycles, three water temperatures, three water levels. Like new in every respect. \$195.00. 881-2817. 1tp

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Made to order Italian Sausages. Regular or hot, 5 lb. minimum order. Fayetteville (615) 433-1173. 11-29c

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We buy U.S. Silver Coins dated 1969 or earlier, and Sterling flatware. Call 536-0262 or 536-6893 for current prices paid. Tfc

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WHOLESALE PRICES TO EVERYONE!  
Carpets, Vinyl, Fringed Rugs.  
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Is opening for business. Good used furniture, small appliances, some antiques. 4017 9th Ave., corner of 9th and Larry (1 block east of Jordan Lane). Open 10-6 Monday-Saturday. 11-29c

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Also END LOADER and DUMP TRUCK work by hr. or contract. LEE CONSTRUCTION, Meridianville, Phone 828-0786. Tfc

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INDIVIDUAL & BUSINESS STORAGE

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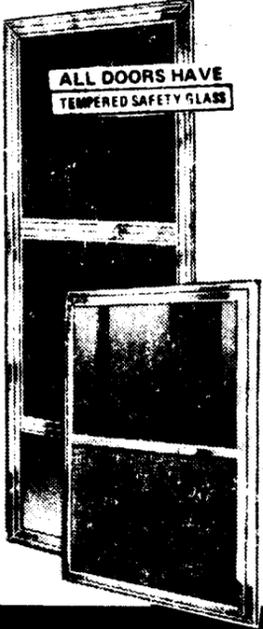
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**PRE-SEASON SALE!**

Open Week Nights 'Til 8:00 P.M.



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**#120 ECONOMY MODEL**  
 Extruded aluminum frame with glass panels and screen. Includes all hardware.  
 32" or 36"x80"  
 Each ..... **41<sup>95</sup>**

**BRONZE FULL-VIEW STORM DOOR**  
 Thin line frame in bronze anodized aluminum door. Prehung with hardware. Tempered safety glass.  
 32"x80"  
 Each ..... **58<sup>49</sup>**

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 Extended aluminum frames. Wool pile weatherstripping on each glass panel. Self-storing.  
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*Insulation*  
**FOR WARMTH AND SAVINGS**



**ROCKWOOL POURING INSULATION**  
 Fluff it out of bag for a 3 1/2" thick 27 sq. ft. R-11 value, or 6" thick, 16 sq. ft. R-19 value. **3<sup>69</sup>** Per Bag

**ROCKWOOL BLANKET INSULATION**

<b>R-11</b> 3 1/2" Thick—15" Wide Per 80 Sq. Ft. Bag <b>9<sup>65</sup></b>	<b>R-19</b> 6" Thick—15" Wide Per 40 Sq. Ft. Bag <b>8<sup>07</sup></b>
3 1/2" Thick—23" Wide Per 76 2/3 Sq. Ft. Bag <b>9<sup>25</sup></b>	6" Thick—23" Wide Per 53 2/3 Sq. Ft. Bag <b>10<sup>83</sup></b>

**WROUGHT IRON**



Easy as 1-2-3 to install

<b>SALE PRICED</b>	<b>SALE PRICE</b>
4" Rail Section	<b>4<sup>35</sup></b>
8" Decorative Column	<b>8<sup>46</sup></b>



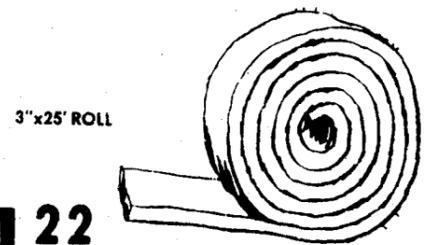
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**HOUSE SIDING PRE-PRIMED**

7/16"—16'.....	<b>4<sup>99</sup></b>
7/16"—12'.....	<b>3<sup>75</sup></b>
8" V-Groove 4/8 .....	<b>11<sup>22</sup></b>

**PIPE WRAP INSULATION**



3"x25" ROLL  
**1<sup>22</sup>** Ea.

**HEAT TAPE ELECTRIC**



3'- **3<sup>89</sup>**  
 6'- **4<sup>25</sup>**

Prevent frozen pipes!  
 Thermostat controlled. Other Sizes Available

**EXTENSION LIGHTS**

UL LISTED 18-GAUGE TWO CONDUCTOR  
 15'..... **4<sup>15</sup>**  
 25'..... **6<sup>35</sup>**  
 THREE CONDUCTOR OSHA APPROVED

**STEP LADDER**

Ruggedly constructed  
 6 Ft. WOOD  
**17<sup>95</sup>** Ea.

**RURAL MAIL BOX**

Model 1-C  
**5<sup>35</sup>** Ea.  
 MAIL BOX POST  
 Model EAI  
**4<sup>10</sup>** Ea.

**LATEX CAULK**

**99¢** Ea.  
 11-Fl. Oz.

**SUTHERLAND GOLDEN GLOW LATEX WALL PAINT**

The one-coat premium vinyl-acrylic latex wall paint... lets you cut painting time in half. It's thicker... for less drip, less spatter, no paint odor. Soapy water cleans up. Walls are guaranteed washable. Variety of beautiful colors.

**6<sup>59</sup>** GAL.

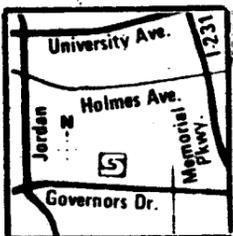


**ASPHALT SHEATHING**

DEADENS SOUND INSULATES  
 Asphalt impregnated wood fiber sheathing  
 4x8—1/2" **3<sup>15</sup>**  
 4x9—1/2" **3<sup>49</sup>**

**TURBINE VENT COVER**

Durable  
 Attractive  
**1<sup>25</sup>** Ea.



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