

# The Rocket

MARCH 2, 1977  
VOL. XXV; NO. 40

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## Being Aware Means Staying Alive

By Jeanie West

The day has been hot and sticky. The weatherman warns of approaching thunderstorms. By late afternoon, the sky is filled with large fluffy clouds. By evening the heat is oppressive, but still no rain.

Sound asleep at 10:48 when all hell breaks loose.

The siren atop the snack bar screams. MP sedans rush to and fro to the companies and housing areas, lights flashing. A small box in the CQ room sounds an alarm, and the NCO dashes through the company banging doors. Voices shout in terror: **TORNADO!**

Footsteps sound in the hall as soldiers seek shelter. A few stay upstairs watching the skies for a florescent green cloud.

First comes rain, then a stillness that smothers like an iron blanket. Then the roar. A soldier runs down the stairs yelling, "Take cover, it's coming."

The noise moves closer. It's overhead, and things are flying through the air. Voices cry out in horror.

Suddenly it is quiet again. All that is heard is the soft patter of rain.

So passed the Redstone tornado of 1974.

Soon the Tennessee Valley will be in the middle of the spring tornado season. The prime months for tornados in this area are March, April and November. Why? Alan Olson of the National Weather Bureau at the Huntsville Jetport, explains:

"The jet stream which determines the seasons moves from south to north. As the



summer months approach, the jet stream is moving in a northerly direction. When this warm moist air meets with the colder air it causes atmospheric disturbances that

result in thunderstorms that are the mother storms of tornados."

Last year the Arsenal underwent its first

(Continued on page 13)

### Defense Budget

## Proposed Cuts Affect Hawk, Non-nuclear Lance

WASHINGTON — The Carter Administration last week proposed hardware cuts of \$2.8 billion in the FY78 defense budget and indicated it expected to make "real savings" in personnel-related funds in the future.

One result, if approved by Congress, will be the end of the Army's non-nuclear Lance program. Other major cuts in Army weapons programs announced by Harold Brown, Secretary of Defense, included \$35.3 million from Hawk production and \$100 million — a 50 percent drop — in development money for the new attack helicopter.

Sec. Brown told newsmen that because of the short time available to rework the budget, the reductions had been confined to hardware programs. Major changes in DOD programs directly impacting military and civilian personnel are coming, he indicated, but apparently not right away.

Non-nuclear Lance, a program the Army fought hard for, won approval from Congress last year. About \$75 million allotted in the FY77 budget would have

bought about half the non-nuclear missiles the Army wanted. The Ford administration sought \$78 million more in FY 78 to buy 360 more non-nuclear missiles.

Sec. Brown said last week all FY78 funds will be deleted and the FY77 money—much of it now under contract—will be used "to produce spare nuclear missiles terminating the production line."

Cuts in the Hawk funds would have gone for six additional batteries. The slash in attack helicopter funds will cause a program slowdown. DOD wants the Army to take another look at the helicopter and alternative ways to fight tanks.

Sec. Brown said he felt greater savings could be achieved in future budgets by changes in people programs.

"Fifty-five percent or more of defense funding now goes into personnel accounts...We're going to be working with the services over the next few months to see where changes can be made in a way that increases efficiency and that makes funding available for higher combat readiness," he said.

"Over the next year, I think we can zero in on personnel reductions, on a revised retirement plan that does not cause retirement costs—which are at present scheduled to be about \$9 billion in FY78—to go up to one estimate of \$30 billion a year by the year 2000 and at the same time avoid unfair treatment of people who've been in the military for a substantial time, came in with the expectation of retirement benefits under the present system and I think would correctly feel they'd been unfairly treated if changes applied to them . . .

Other things on which we will have to concentrate are base reductions because we have a base structure that is too large compared to the force structure that we have and foresee in the near future; reduced rate of PCS-permanent change of station-changes which are expensive to carry out; reduced expenditures on schooling which I guess amounts to several billion a year...and other such improvements..."

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# Correction

A story on page 5 of the February 23 issue of this newspaper contained incorrect information.

The story said:

"Under the permanent improvements program sponsored by the JOC, residents can alter their house or yard if the change involves no government upkeep. For instance, resident can widen their driveways."

That is not correct.

The Junior Officers Council has discussed a permanent improvements program with the Deputy Post Commander. Details of how the program would be carried out and, specifically, what could be done and what could not be done have not been worked out.

The Public Affairs Office regrets the error.

# Schedule For Dental Care

Under the treatment schedule now in effect at the Dental Clinic active duty military have priority at all times and will be seen at any time during duty hours but are requested to schedule routine examinations during the regular period weekday mornings (see below)

## DEPENDENTS, RETIREES

The following schedule will be followed for active duty dependents and retirees and their dependents.

—Routine examination hours are from 7:30 a.m. to 10 a.m. Monday through Friday.

—Emergencies (severe pain, swelling, bleeding) will be seen at anytime, but after the emergency is treated the patient must

return during examination hours for a complete dental examination.

—Active duty dependents should try to get routine exams during the birth month of their sponsor.

—Routine exams for school children will be given from 3-4 p.m. on Monday only, or during routine exam hours.

—Dental Xrays requested by a civilian source will be taken from 12:30 - 3 p.m. Monday through Friday on a standby basis when it does not interfere with treatment of active duty personnel.

Priorities of care for active duty dependents, retirees and retiree dependents remain the same. For information call 876-7474.



**Question:** One of the local papers said the other day that because MIRADCOM is overstrength and MIRCOM is understrength that MIRCOM would transfer spaces or jobs to MIRADCOM. Is that right?

**Answer:** No. The two commands are separate competitive areas. Jobs, spaces and people cannot be shifted back and forth.

**WHY?**

If you have a work related question, the Public Affairs Office will get you an answer. Call 6-4161 or 6-4400. Questions and answers of general interest will be used in this column without names.

We also welcome short, signed letters to the editor. We will withhold your name on request.



**TRAFFIC HAZARD—BULL!** MP's found this little fellow wandering around the fence of a pasture on Mills Road north of Martin Friday morning. His search for Mama was leading him too close to traffic, so he was given a little help in finding his way back to the fold. The neophyte herdsmen haven't spent much time around yearlings, though: at one point, it looked as if the object of the chase was about to acquaint his forehead with the midriff of one of his pursuers.

## Explorer Scouts Organize Here

An Explorer Scout organizational meeting is scheduled tomorrow at 7:00 p.m. It will be held in the Scout Hut, Bldg. S3614 on Entac Circle.

All military dependents between the ages of 15 and 20 are invited to the meeting. Parents interested in assisting with the new Explorer unit are invited also. For additional information contact Ray Norton, 876-1634, or Chris Norton, 837-4828.

# The Rocket

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

All advertising copy and payments 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 410 Jordan Lane. Advertising deadline—both display and wanted—is 10 a.m. Monday before publication.

The Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for The Rocket are \$9.54 a year, or \$6.36 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 930, Hartselle, Ala. 35640.

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

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## Graduate Degree Offered On Post

The Florida Institute of Technology, F.I.T., has concluded an agreement with MMCS for an evening graduate degree completion program for personnel attending the Ordnance Officer Advanced Course. The program will be available to all active duty military personnel and their dependents who meet admission requirements of F.I.T.

Officers who have successfully completed the Ordnance Advanced Course within the past five years, or anticipate doing so in the future, may be granted 15 quarter hours of graduate credit provided their grade corresponds to a B or higher and recommendation is made by the School Commandant to F.I.T.

A Master of Business Administration degree with an option in Logistic Management can be earned through obtaining 48 quarter hours of credit.

For information on the types of credit hours which may be included to total the 48 required, contact the F.I.T. Director's

Office in Bldg. 7446, phone, 876-1581.

Initial courses offered under this program, which will begin the week of April 25 are Managerial Accounting and Control and Managerial Statistics I. Each course will be from 5-8 PM one night per week for 11 weeks.

In addition to the program with MMCS F.I.T. has an evening program open to all personnel, not only active duty military, and includes graduate level professional development courses which can lead to a Master of Science degree in Contract and Procurement Management or in Systems Management, or a Master of Business Administration. Classes for the Spring Quarter will begin the week of March 28. Early registration may be completed anytime through March 21.

Catalogs, application forms and all other information are available from the F.I.T. Director's Office.

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"I'm even better with the music..." Betty Cochran and Fred Bourgeois play two apartment hunters trapped overnight in an empty flat in "6 RMS RIV VU", a comedy by Bob Randall being produced by the Redstone Little Theater March 10-12.

## New Play Opens Soon

The Redstone Little Theater's presentation of "6 Rms River Vue" opens next week. Performances will be at 8:15 at the Little Theater in Bldg. 3745 on the nights of March 10, 11 and 12.

The comedy by Bob Randall is about a married man and married woman who meet while inspecting a vacant apartment in New York, are locked in and fall in love. The trapped couple are Ann Miller played by Betty Cochran, and Paul Friedman played by Fred Bourgeois.

Other performers are Michelle Merjil as the pregnant woman and Tillman Hall as Larry her husband; Jack Mearns as Eddie the building superintendent, Jean Fessenden as the woman in 4-A, Sheryl Bailey as Janet Friedman and Paul Kunitz as Richard Miller.

Lynn Peterson, the director, also directed the groups performance of "The Real Inspector Hound" in December.

The Little Theater was formed last October by a group of about 20 soldiers and civilians. "6 Rms River Vue" is their second production.

## Symposium Seeks Technical Papers

The technical symposium associated with the Military Electronics Defense Exposition 1977 to be held September 27-29 in Wiesbaden, Germany, is calling for technology and applications oriented papers. Technical papers related to military applications and related technologies are invited. Abstracts of papers are due April 15, 1977. Contact: Bill Walsh, COUNTERMEASURES Magazine, PO Box X, Cupertino, California 95014. Telephone (408) 985-2280.



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## Laser Symposium

The Army Missile Research and Development Command this week is hosting the Tri Service Chemical Laser Symposium in Rocket Auditorium. Sponsored by the Army and Navy High Energy Laser Project Offices and the Air Force Weapons Laboratory, the classified symposium features overviews of their chemical laser programs as well as efforts by contractors and the Advanced Research Projects Agency. Attendance to the symposium, which began yesterday and continues through Thursday, is by invitation only. Approximately 72 papers are scheduled for presentation reviewing technical areas such as nozzles and mixing, optics and beam characterization, pulsed chemical lasers, pressure recovery, advanced reactants, advanced lasers, system studies, modeling and kinetics.

## Four Apprehended

# Gate Houses Vandalized

Two Arsenal gate houses were damaged by vandals late Sunday. Military Police apprehended four suspects after the incident. Military authorities said Monday afternoon they anticipated formal charges will be filed. Shelters used by Military Police at Gate 9, Rideout Road, and Gate 7, Martin Road West, were damaged by gun shots which broke windows. A fire apparently set within the Martin Road gate house was extinguished without major damage to the structure. A Marshal Space Flight Center security patrol reported suspicious activity and alerted Military Police who took suspects into custody a short time later. Both gates were closed and gate houses unoccupied at the time of the incident.

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**No Layoffs Expected**

# Commands Directed To Cut 621 Jobs

Redstone's two major missile commands have been directed to cut 621 jobs by the end of the fiscal year.

Both believe the reductions can be absorbed without a layoff. Neither command is planning a reduction in force.

The Army Missile Materiel Readiness Command (MIRCOM), due to come down about 400 jobs, has that many vacant positions right now and anticipates little difficulty in meeting the new job ceiling.

The Army Missile Research and Development Command (MIRADCOM), ordered to drop about 200 jobs, is now about 100 people above the directed end strength for September 30.

Reductions in jobs are the result of the latest end-of-year manning levels issued periodically by the Army Materiel Development and Readiness Command (DARCOM).

Unless DARCOM revises the levels, MIRCOM will begin FY 78 with 5,027 jobs; MIRADCOM with 2,250. MIRADCOM has asked DARCOM to reconsider and hopes for some relief.

Both commands have sharply restricted hiring because of the new manning levels and other problems which impact hiring.

Hiring restrictions while getting to new personnel levels by attrition will cause a skills imbalance and shortages of personnel in some job categories.

An Army-wide shortage of funds in some accounts used to pay people has hit both local commands. They have restricted travel, deferred some planned expenditures and done other things to conserve O&MA dollars. DARCOM has sought more O&MA money from DA and the local commands hope for some relief.

Yet to come is specific average grade

guidance for the new commands. Both anticipate some downward adjustment as government-wide emphasis on average grade reduction continues. How much of a reduction and how fast it would have to be achieved are the critical elements in determining potential impact on the local workforce.

Also expected soon from DARCOM are specifics on required reductions in the number of higher graded positions-GS-13 and above - and how those cuts are to be handled. A rollback in the total number of high grade jobs has been directed throughout the government. What the local impact will be and whether or not it can be handled through attrition remains to be seen.

Average grade reductions and cuts in high grade positions are part of the planned government-wide effort to reduce personnel payroll costs.

## Wives Hold Fashion Show

The Redstone Arsenal Officers Wives Club will hold a luncheon and fashion show March 8 in the ballroom of the Officers Club.

Sherry will be served at 11:00 a.m. with lunch at noon. A spring fashion show sponsored by a local fashion specialty store and featuring club members as models will be presented.

Hostess group is the BM-DSCOM wives with Mrs. John G. Jones in charge.

The following will be taking reservations anytime during the hours of 9 a.m.-9 p.m.: A-E, Mrs. George McNamara, 837-0358; F-L, Mrs. Samuel McKenty, 837-1275; M-R, Mrs. James Morris, 837-2324; S-Z, Mrs. Roy Willis, 837-4497. Reservations must be made by noon, Friday, March 4. For cancellations, members are to call Mrs. Robert Leien-decker, 837-9592, by noon, Monday, March 7. The permanent reservation list will be in effect.

## Dial 112 For Redstone News



HAZE — The most visible structures on Redstone Arsenal were all but invisible a couple of days last week as windborne dust from western states resulted in an all-time high pollution count for the area of 1,330 recorded Friday.

(Photo by Joe Medders)

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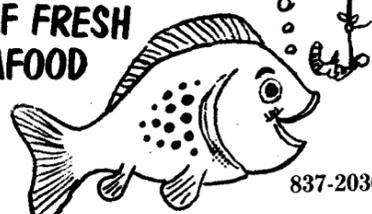
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# Help Ready For Budget Problems

Article 15's. Bars to re-enlistment. Removal from promotion lists. Suspension of check cashing privileges. Court martial. These are the possible consequences of passing bad checks.

The penalties, all of which adversely affect a soldier's career, are severe. That's their intent. Bad checks are an Army-wide problem. Commanders feel that the solution is to get tough.

But for the honest soldier who's having difficulty managing his checking account, there's another approach at Redstone Arsenal. At the recommendation of his company commander or on his own, a soldier can sign up for budget counseling at the Army Community Services office.

He will be assigned a counselor who will determine how much help is required. In some cases, he

will be asked to turn over his checkbook to the counselor. This prevents him from writing more bad checks.

The counselor teaches him how to budget his money from paycheck to paycheck. If necessary, the soldier is required to report to his counselor at the end of every pay period to draw up a schedule of payments for the following month.

When a soldier appears to be handling his money better, he is dismissed from the program.

It takes just one bad check to suspend a soldier's check cashing privileges on post. On the first offense, the privilege is withdrawn for six months. If he bounces a check again, a one-year suspension is imposed. A third offense results in indefinite suspension.

Check cashing privileges are not automatically reinstated after

six months or a year. A soldier must write a letter to his company commander requesting it.

A bad check passed on post must be made good in seven days. A soldier will receive a notice from the check control office through his company commander. Copies are also sent to the PX, Commissary, and other check cashing facilities on post.

Approximately 10 or 15 dishonored check notices are received by the Missile and Munitions Center and School each month, according to Capt. W. B. Nance, Brigade Adjutant. "About 99 percent of these notices are from students," Nance said. "E-1 through E-6 write about 72 percent of all dishonored checks here at Redstone."

Simple ignorance is often the reason why checks bounce, Nance explained. He said that in one case a soldier loaned a friend

some checks because the friend had run out. Of course, every check the friend wrote was charged to the lender's account. He ended up with three dishonored checks.

Nance said soldiers who have their paycheck sent directly to the bank sometimes write a check the day before payday and expect money will be in their account when the check arrives. But that doesn't always happen.

Married soldiers holding joint accounts with their wives will occasionally write checks without comparing notes on the amounts.

"If we're going to solve the problem of writing bad checks, we are going to have to be more severe on the offender," Nance said. "Our primary mission is to graduate the soldier, but helping them keep their personal affairs in order is a part of that mission."

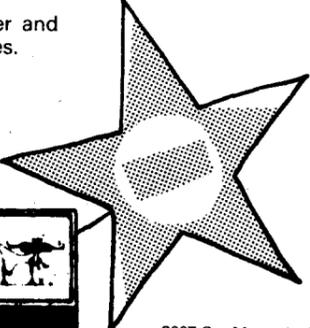
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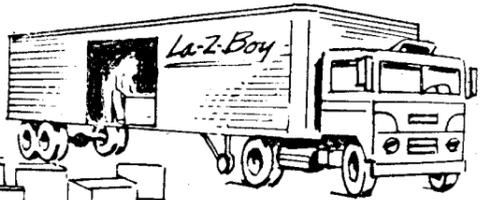
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# The tax man cometh

**M**an, you gotta face it--income tax time is here again. Most soldiers should have received their W-2 forms by now. The W-2 lists the amount of taxable income the soldier has been paid for the calendar year. It is from this figure that the total amount of income tax to be paid to Uncle Sam is computed.

"This year," said Capt. Doug Larson, DA SJA Legal Assistance Officer, "the standard deduction is not figured into the tax table found in the tax booklet like last year. The soldier will have to compute the amount of the standard deduction first-before going to the tax table."

There are several other items that may determine the amount of tax the soldier will have to pay. Soldiers who received a Dislocation Allowance (DLA) during the calendar year 1976 must report it as taxable income on both the long and short form tax returns.

DA legal officials say that if the soldier reports DLA on the short form, it increases the total amount of the taxable income, meaning more taxes. Before DLA is reported on the short form, moving expenses associated with a PCS should first be subtracted from the taxable income shown on the W-2 form. This may offset the amount of the DLA.

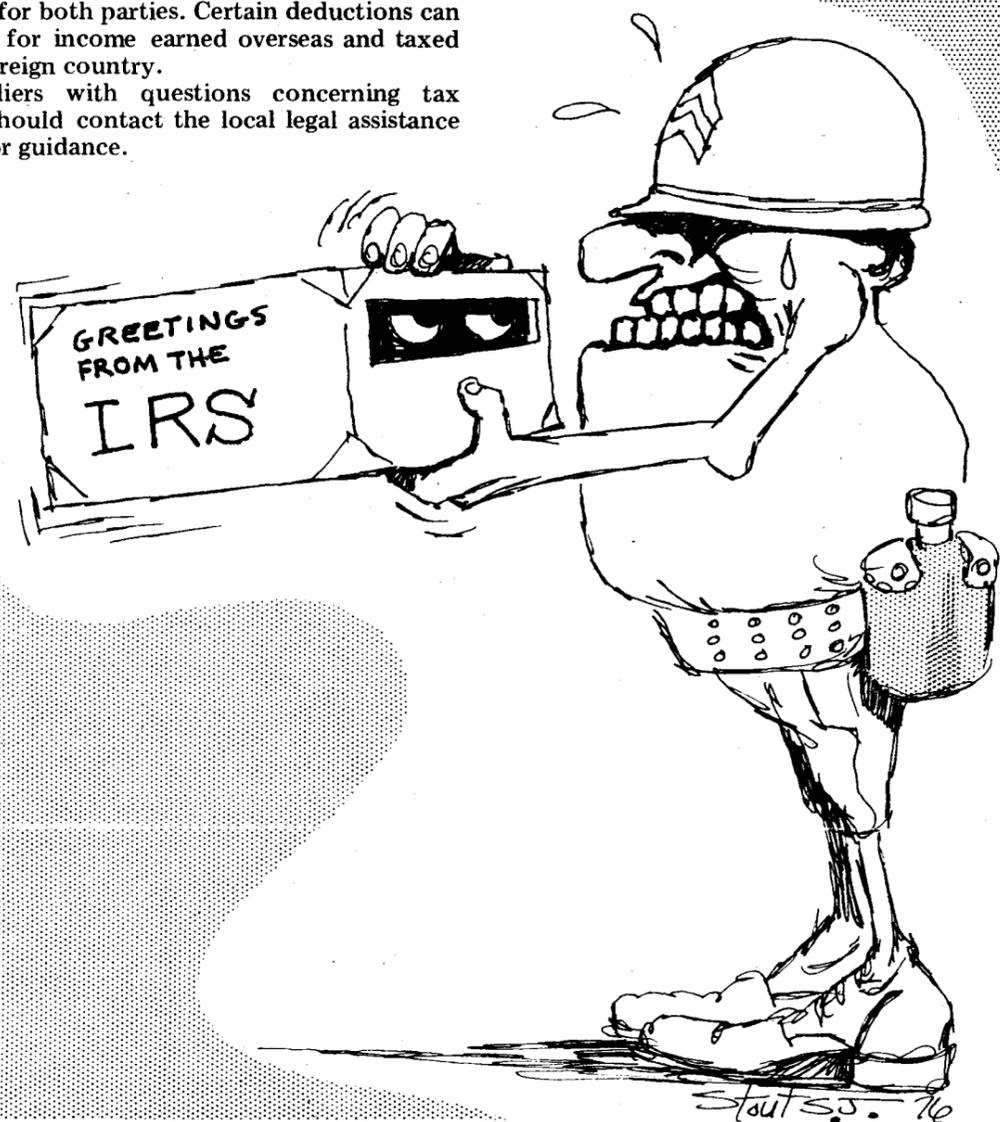
When reporting taxes on the long form, the soldier must list the DLA as taxable income but can itemize moving expenses as deductions.

On the other hand, Separation Allowance is not taxable income and should not be reported on the tax return.

Soldiers with foreign spouses will find a change in the reporting procedures. If the soldier's spouse has been granted "permanent resident alien" status, the soldier and spouse may file a joint return, using the long form only. If the soldier has a foreign-born spouse and has not returned to the United States since marriage, the spouse is considered a "non-resident alien". In this case both the soldier and the spouse must

file separate returns listing all income earned overseas for both parties. Certain deductions can be made for income earned overseas and taxed by the foreign country.

Soldiers with questions concerning tax returns should contact the local legal assistance officer for guidance.



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Returns May Be More Difficult But Benefits Increase Under The

# TAX REFORM ACT

Completing your Federal income tax returns could be more difficult this year, according to the Treasury Department's Internal Revenue Service, but most taxpayers will receive better benefits as a result of the new Tax Reform Act of 1976. Military families can look forward to possible additional savings on moving expenses, dependent medical/dental costs, and child care expenses.

Here are some highlights of tax law changes and other pointers that should be noted when filing your 1976 Federal tax returns:

• **Standard Deduction**—The percentage standard deduction has been increased to 16 percent of the taxpayer's adjusted gross income, or a maximum of \$2,400 for single individuals, \$2,800 for married persons filing jointly or qualifying widows or widowers, and

\$1,400 for married persons filing separately.

• **General Tax Credit**—In addition to the \$750 deduction for each dependent listed on a tax form, an increased general tax credit allows a taxpayer to claim \$35 credit for each dependent or a credit of two percent of the first \$9,000 taxable income, whichever is greater.

• **Child Care Costs**—The itemized deduction allowed for child and disabled dependent care has been eliminated and replaced with a credit which reduces tax liability but not gross income. A maximum credit of 20 percent of \$2,000 of employment-related expenses may be claimed for the care of one qualifying dependent (\$4,000 for two or more), but the credit is not refundable.

Thus, if you qualify for a \$400 child-care credit and compute your overall taxes at

\$390, for example, you pay nothing but receive no refund.

• **Moving Expenses**—Before 1975, a Servicemember's new duty station had to be at least 50 miles from the old one and his or her orders had to be for at least 39 weeks to permit deduction of out-of-pocket moving expenses from gross income. The Tax Reform Act of 1976 exempts military moves from the time and mileage requirements so that military personnel transferring within a district or attending military schools on PCS orders, for example, may exclude from income on their 1976 Federal tax returns cash reimbursements or allowances to the extent of expenses actually incurred, as well as all in-kind services provided by the military. Legal assistance officers should be contacted, however, on the specifics of these rules.

The 1976 Tax Reform Act changes the minimum distance requirement for business-related moves from 50 to 35 miles for all taxpayers filing returns on 1977 income; additionally, the maximum deductions for moving expenses increases next year.

• **Medical Expenses**—Although it is normally cheaper for military couples to file jointly, separate returns may provide savings when a Servicemember's spouse has a taxable income and the family has dental/medical expenses not covered by mili-

tary facilities. For taxpayers itemizing deductions (and if one mate itemizes, both must itemize) the law states that medical/dental expenses in excess of three percent of the adjusted gross income and part of the cost of medical insurance may be deducted. So, for example, if a wife's adjusted gross income is \$5,000 and her husband's adjusted gross income is \$12,000, it may be beneficial for her to claim the \$700 medical expenses on her tax return. This would provide her a deduction of approximately \$550, instead of the \$190 she and her husband could have deducted for medical expenses if they filed jointly.

• **Filing Extension**—Military personnel and all U.S. citizens who are outside the United States or Puerto Rico on April 15 are allowed an automatic two month extension until June 15, 1977, to file their returns for the preceding calendar year. Persons using this automatic extension must attach a statement to their tax return form indicating they were outside the United States or Puerto Rico on April 15.

There are numerous benefits for taxpayers in the new Tax Reform Act. Servicemembers should read the material accompanying their Federal tax return forms carefully, and consult their tax advisors or legal assistance officers if additional help is needed.



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For Redstone News

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# From Air Traffic Control To Phone Call, USACC Handles It

The U.S. Army Communications Command celebrated its 13th anniversary yesterday. On Redstone, the command is represented by USACC-Redstone, located in the RASA Activity Building.

The communications activity here is responsible for the telephone system, the AUTODIN teletype network, air traffic control at Redstone Airfield, and maintenance support for some communications items.

Redstone's telephone system consists of some 10,500 phones and handles an average of 6,000 commercial long-distance calls a month. Although owned and operated by the government, phones are maintained by South Central Bell.

AUTODIN is a world-wide network of teletypes connecting all services and some State Department activities. An average of 7,000 messages a week pass through the machine.

RSA Air Traffic Control works in coordination with the Huntsville-Decatur Jetport to direct aircraft flying into, out of, and around Redstone.

Although it reports directly to the MIR-COM commander, the communications group stands within its own separate chain of command, responsible ultimately to the 7th Signal Command and HQ USACC.

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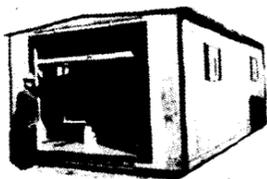
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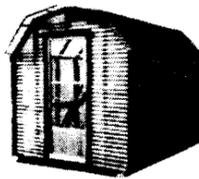


● All  
Sizes



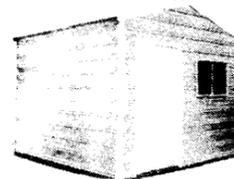
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Colors



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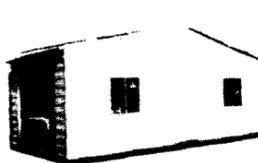
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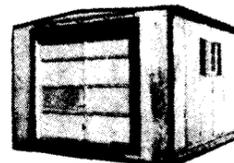
Home storage



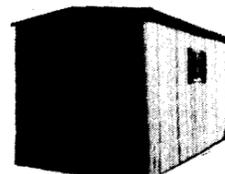
Perfect offices



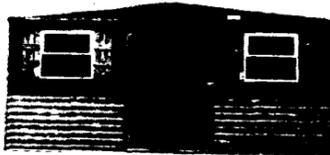
Garages



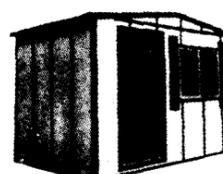
Work Shops



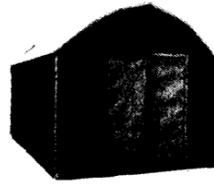
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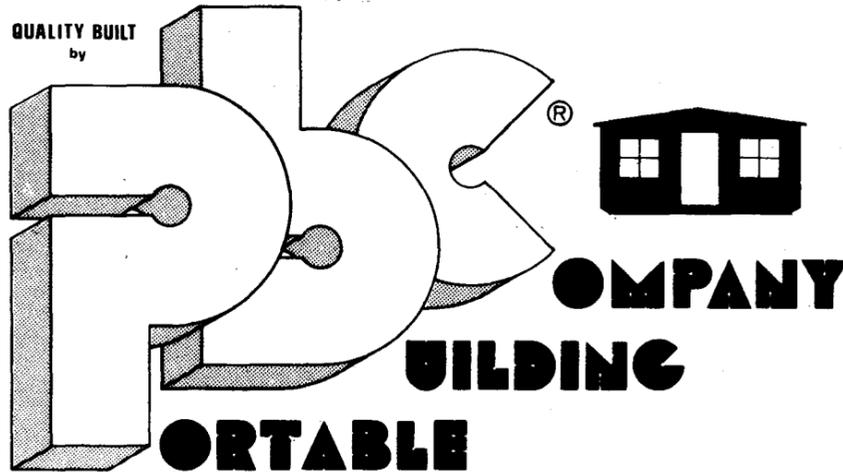


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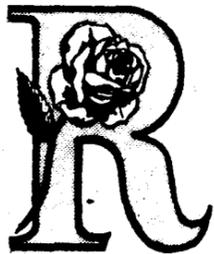
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# New Recreation Services Boss

One of very few women to serve as a Recreations Service Officer at an Army post, Sue Bradshaw, recently moved into that position at Redstone. This is the first time in her career with the recreation program that she has been stationed in the U.S.

Col. Jack Fessenden, deputy post commander and director of RASA, said he is very impressed with her ability and pleased that she accepted the position.

She was teaching school in her home town, St. Louis, when a friend with the recreation program suggested she apply. She did and was sent to Korea where she began as a program director in a Service Club in Taegu.

"My next station was in Vietnam where I had a variety of positions and lived in many different areas," she said. "After that I went to Stuttgart, Germany.

"I was beginning to feel like a foreigner and found it was time to get back to the U.S. Almost 10 years at overseas posts was an interesting experience, but it's a long time to be away from home."

Bradshaw has been at Redstone only a short time, but sees needs for recreational activities in the U.S. as different from those out of the country. "It's going to be more of a challenge here—overseas we have a more or less captive audience—there are fewer things for soldiers to do away from their posts," she said.

Her role is to coordinate, manage and administer the many recreational activities on post—the golf course, bowling alley,



Sue Bradshaw talks about her new job, Recreation Services Officer

Dependent Youth Activities, the library, crafts programs, all types of sports, a swimming pool, the Rocket Nursery, outdoor recreation areas and the Recreation Center. The recreation program comes under the Morale and Welfare Division of RASA.

She said we seem to have almost every type of recreational activity at Redstone, and are just getting a Little Theater started. "That's the big effort right now," she said. "Colonel Fessenden is giving us full support and willingly works at any task associated with the Little Theater. I'm looking forward to having an active group because all types

of theater productions have been highly successful at many posts.

"Recreational programs here are well patronized. In January, for instance, 568 people used the golf course, 5044 the bowling alley, 12,000 the library, 2,185 the Crafts Shops, 10,300 went to the Rec Center and 2,000 participated in the sports programs."

Bradshaw is a graduate of St. Louis University with a bachelor of arts degree in history. She taught 6th, 7th and 8th grade English and Social Studies in St. Louis schools before joining the recreation program. Her hobbies are golf, cooking and travel.

## Track Club Sets Races

Two and six mile road races are slated for March 5 at the University of Alabama in Huntsville campus. The Huntsville Track Club, which is sponsoring the events, will award trophies by age divisions and sex.

Everyone is eligible to enter after paying \$1.50 registration (\$1 for UAH students).

Registration gets underway at 12:30 p.m. with the two mile race starting at 1. At 1:30 a half-mile fun run begins. Fun run participants will each receive a certificate. The six mile race is at 1:45, followed by a trophy presentation at 2:30.

Details may be obtained by calling Wayne L. Smith at 881-1296.



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FREE SNACKS 6 P.M.

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9 p.m.-1 a.m.

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**SATURDAY 5:**  
"DENIM"  
9 p.m.-1 a.m.

# Continuous Education

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### COURSE OFFERINGS

The following courses are available to the general public during the Spring Term (March-May), 1977. Courses numbered CE ARE NON-CREDIT OFFERINGS. There are no admission requirements for these courses; prerequisites, where shown, are given to indicate the instructional level and the suggested background of the attendees.

### REGISTRATION AND RESERVATIONS

Non-credit and non-matriculated registration for full-term courses will be held on Wednesday, March 9, from 9:00 a.m. to 1:00 p.m. and 3:00 p.m. to 7:00 p.m., and Thursday, March 10, from 4:00 p.m. to 6:00 p.m., in Room 235, Madison Hall. (Regular students register for full-term credit courses using the standard procedures.)

Registration for short-term courses and weekend seminars will take place at the start of the first session. This applies to non-credit as well as all credit students. Reservations in these special offerings are required, normally at least 7 days prior to the starting date. Persons who apply through a governmental or industrial training office for these courses should personally verify their reservations by telephoning 895-6010.

ADVANCED NON-CREDIT REGISTRATION AND RESERVATIONS FOR CREDIT COURSES MAY BE COMPLETED BY MAIL, USING THE FORM AT THE BOTTOM OF THIS PAGE.

### FEES AND PAYMENTS

Except for regular students in full-term courses, fees for all courses must be paid at the time of registration. BankAmericard, Master Charge, and First Charge credit cards may be used in the payment of fees. Purchase orders will be accepted from recognized firms and governmental agencies.

The listed fees for on-campus offerings include a \$3 registration fee. This is non-refundable. Other fees may be refunded after the start of a course, on the basis of a prorated schedule, with no refunds after 30% of the sessions.

### MOTOR VEHICLE PERMITS

The University of Alabama in Huntsville requires registration of all motor vehicles operated on the campus by students in full-term courses. The annual registration fee is \$5 per vehicle. Students in short-term (two-week) and weekend offerings will be provided guest parking permits without charge.

### ASSOCIATE AND POST-GRADUATE PROGRAMS

The UAH Division of Continuous Education offers credit programs at the associate and post-graduate levels. The Associate Certificate may be earned in Child Development, Interior Decoration, and Law Enforcement. These programs require 30 semester hours of credit in a specialty curriculum plus 30 semester hours of general education.

Persons holding a bachelor's degree may earn the Post-Graduate Certificate in General Administration, Industrial Administration, Logistics Management, General Technology, Sensor Systems, Electronics Technology, Aeromechanical Technology, or Computer Technology. Requirements include 15 semester hours of credit in a curriculum of 500-level (or higher) courses.

### INFORMATION

For additional information concerning these and other special offerings of UAH, CONTACT THE Division of Continuous Education, 230 Madison Hall, telephone

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### RETIREMENT PLANNING SEMINAR

(CE-R78-1.6 c.e.u.)

Instructor: Reese Danley Kilgo; Ph.D.; Associate Professor of Education and Adjunct Associate Professor of Sociology, UAH

Schedule: Mon.; 7:00-9:00 p.m.; Mar. 14, 21, and 28, Apr. 4, 11, 18, 25, and May 2

Location: To be announced

Fee: \$40, Retirement Planning Seminar Manual included

A detailed survey of all aspects of planning for retirement. Covered will include the challenge of retirement, health and safety, housing and location, legal affairs, attitude and role adjustment, meaningful use of time, sources of income, and financial planning.

### DEVELOPING EFFECTIVE PROPOSALS

(CE-R79-2 c.e.u.)

Instructor: E. Carter Sibley; M.S.; Director of Community and Governmental Relations, UAH

Schedule: Thurs.; 6:00-8:00 p.m.; Mar. 17-May 19

Location: 109 Madison Hall

Fee: \$40

A comprehensive approach to grant development. Resource people will be utilized to allow participants maximum exposure to successful proposal development. This course is intended for "grant" as opposed to "contract" development.

### COURTS: EXAMINATION OF THE U.S. SYSTEM

(CE-R80-2 c.e.u.)

Instructor: Timothy W. Morgan J.D.; Assistant District Attorney, Madison County

Schedule: Tues.; 6:00-8:00 p.m.; Mar. 15-May 17

Location: 108 Madison Hall

Fee: \$40

Does the U.S. Court System function as it was designed to by our Founding Fathers? This course is designed as an informal introduction to the present system. The dual system of State and Federal Courts will be examined individually, in comparison, and in interaction.

### BIBLICAL HEBREW II

(CE-R81-4 c.e.u.)

Instructor: Miriam Kidron; B.A.; Certified Instructor of Hebrew

Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 18

Location: To be announced

Fee: \$40, plus textbook

Continued study of the reading and writing of the Hebrew language. This course will include further study of Genesis. Prerequisite: Biblical Hebrew I or approval of instructor.

### INTERMEDIATE SCIENTIFIC GERMAN

GERMAN FOR SCIENTISTS AND ENGINEERS

(GN-214-3 sem. hrs.; CE-R08-4 c.e.u.)

Instructor: Hertha D. Heller; Ph.D. (Candidate); Assistant Professor of German, UAH

Schedule: Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 26

Location: 240 Morton Hall

Fee: \$87, plus textbook

Intensive readings of original scientific texts, taken from German books and recent professional magazines, in various fields of the natural sciences, social sciences, and humanities. Prerequisite: For GN-214 only - GN-201 or equivalent.

### CARDIO-PULMONARY RESUSCITATION

(LS-101-1 sem. hrs.; LSN-101-1.6 c.e.u.)

Instructor: Joan Williamson; M.S.N.; Assistant Professor of Nursing, UAH Gloria J. Grube; M.S.N.; Assistant Professor of Nursing, UAH

Schedule: Sat.; 8:00 a.m.-5:00 p.m.; Mar. 26 - Apr. 2

Reservations must be made by Mar. 18.

Location: 133 Ambulatory Care Center

Fee: \$35, materials included

Course designed to provide the skills needed to perform cardio-pulmonary resuscitation on an infant or adult who has suffered respiratory and cardiac arrest. The successful student will receive instructor certification by the American Heart Association. Prerequisite: Instructor approval.

CRIMINAL PROCEDURE

### CRIMINAL PROCEDURE

(LE-304-3 sem. hrs.; LEN-304-4 c.e.u.)

Instructor: Francis J. Faraci; J.D.; Legal Office, U.S. Army Missile Command

Schedule: Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 26

Location: 223 Madison Hall

Fee: \$87, plus textbook

A study of the procedure that controls the judicial process in criminal cases. Topics include the nature of the criminal process; arrest, search and seizure; interrogation and confessions; order and conduct of trials. Prerequisite: LE-303 or equivalent.

### BUSINESS AND MANAGEMENT

#### SUPERVISORS COST AND FINANCIAL CONTROLS

(CE-S14-2 c.e.u.)

Instructor: Ronald Baudendistel; M.A.S.; Chrysler Corporation, Huntsville

Schedule: Thurs.; 6:00-8:00 p.m.; Mar. 17-May 19

Location: 308 Madison Hall

Fee: \$53, plus textbook

A practical course in understanding and controlling costs in government and business organizations within the U.S. economic system.

#### DEVELOPING THE GROWING SMALL COMPANY

(CE-S46-2 c.e.u.)

Instructor: Russell C. Chunn; B.S., C.P.A.; Instructor, Department of Business Administration, UAH

Schedule: Mon.; 6:00-8:00 p.m.; Mar. 14-May 16

Location: To be announced

Fee: \$53, plus textbook

Survey and analysis of the growth factors influencing the development of small companies. Long-range growth and profits, perpetuation of family control, acquisition, mergers, and going public are among the topics examined.

#### PRINCIPLES OF REAL ESTATE (GRI-I)

(CE-S56-4.5 c.e.u.)

Instructor: Gary L. Rigney; J.D.; Attorney at Law. Guest lectures will present special topics.

Schedule: Tues. & Thurs.; 6:00-8:30 p.m.; Mar. 15-May 24

Location: 419 Humanities Building

Fee: \$85 for the course; \$25 for GRI-I examination; approved by VA

Study of the principles involved in the real estate business. Topics include real estate law, market analysis, brokerage, finance, taxation, property management, land use planning, listing, prospecting, advertising, and the Alabama license law.

#### STRATEGIC BUSINESS DECISIONS

(CE-S58-2 c.e.u.)

Instructor: Leonard S. Yarborough; Ph.D.; NASA Marshall Space Flight Center

Schedule: Short-term course: Apr. 18-22; Monday-Friday; 12:30-4:30 p.m.

Reservations must be made by Mar. 11

Location: 309 Madison Hall

Fee: \$125, materials included

Simulation of a typical competitive business situation by (teams of) players using a computer based game to evaluate the policies and decisions of the players. Inventory, pricing, sales, plant and other strategies will be used to improve market position.

#### QUALITY ASSURANCE OPERATIONS

(CE-S63-2 c.e.u.)

Instructor: Michael G. Joost; Ph.D.; Assistant Professor of Industrial and Systems Engineering, UAH

Schedule: Short-term course: Mar. 21-25; Monday-Friday; 8:00 a.m.-12:00 noon.

Reservations must be made by Mar. 14.

Location: 223 Madison Hall

Fee: \$125 for the course, materials included

An intensive examination of applied quality operations, with an emphasis on the most recent development in the field.

#### PRINCIPLES OF APPLIED STATISTICS

(CE-S75-4 c.e.u.)

Instructor: Mario H. Rheinfurth; M.S.; NASA Marshall Space Flight Center

Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 18

Location: 235 Madison Hall

Fee: \$87, plus textbook

A concise treatment of statistical methods with emphasis on physical and engineering applications. Theoretical material is introduced, when necessary, to clarify the nature and meaning of probability models and statistical inference.

Schedule: Tues. & Thurs.; 7:00-9:00 p.m.; Mar. 15-May 26

Location: 329 Madison Hall

Fee: \$153, plus textbook

Detailed study of the problems of product support and the maintenance of complex systems. Prerequisite: Upper-division or post-graduate standing.

### SCIENCE AND TECHNOLOGY

#### FINITE ELEMENT METHODS

IN FLUID DYNAMICS

(CE-T31-4 c.e.u.)

Instructor: T. J. Chung; Ph.D.; Professor of Mechanical Engineering, UAH

Schedule: Short-term course: Apr. 11-22; Monday-Friday; 8:30 a.m.-12:30 p.m. Reservations must be made by Apr. 4.

Location: 235 Madison Hall

Fee: \$250, textbook included

An introductory course in the finite element method and its application to fluid dynamics problems. Prerequisite: Bachelor's degree (or equivalent) in science or engineering.

#### MICRO-COMPUTER SYSTEMS

(CE-T35-4 c.e.u.)

Instructor: Robert N. Seitz; Ph.D.; NASA Marshall Space Flight Center

Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 18

Location: B-18 Research Institute

Fee: \$100, plus textbook

A complete overview of micro-minicomputer systems, their design, implementation, and operation. Topics include architecture, peripherals, software and programming, systems, application, and problems. Prerequisite: Basic knowledge of computers and programming.

#### SURVEY OF SOLAR HEATING AND COOLING

(CE-T49-4 c.e.u.)

Instructor: William R. Humphries; Ph.D.; NASA Marshall Space Flight Center

Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 18

Location: 110 Madison Hall

Fee: \$135, plus textbook

An overview of solar heating and cooling. This course is designed to provide engineers, scientists, technical managers, and solar energy enthusiasts with current information of solar heating and cooling as it exists in the U.S. today. Prerequisite: Bachelor's degree (or equivalent) in engineering or related area.

#### SOFTWARE SYSTEMS

(CE-T63-4 c.e.u.)

Instructors: Pei Hsia; Hh.D.; Assistant Professor of Computer Science, UAH

Bobby C. Hodges; M.S.E.; Lecturer in Engineering Computer Science, UAH

Schedule: Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 19

Location: 108 Madison Hall

Fee: \$87, plus textbook

The concepts of assemblers, compilers, and operative systems will be introduced. Partial segments of those systems will be studied in detail to provide students with in-depth knowledge of software systems. Prerequisite: Assembly language programming experience.

#### MATERIALS SCIENCE

(CE-T66-4 c.e.u.)

Instructor: Raymond L. Gause; Ph.D.; NASA Marshall Space Flight Center

Schedule: Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 19

Location: To be announced

Fee: \$87, plus textbook

A broad coverage of modern materials including the study of the relationship of basic microstructure to fundamental engineering properties, the effect of environment on materials performance, and failure mechanisms. Prerequisite: Bachelor's degree (or equivalent) in engineering, physics, or chemistry.

#### SOLAR SYSTEM ANALYSIS: PART I

HEATING SYSTEM PERFORMANCES

(CE-T67-4 c.e.u.)

Instructors: William R. Humphries; Ph.D.; NASA Marshall Space Flight Center

Jonathan M. Nash; Ph.D.; IBM Corporation

Schedule: Mon. & Wed.; 8:00-10:00 p.m.; Mar. 14-May 18

Location: 110 Madison Hall

Fee: \$87, plus textbook

An introduction to the basic principles of solar heating systems

Schedule: Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 26

Location: 328 Madison Hall

Fee: \$153, plus textbook

Survey of advanced topics in mathematics especially useful in modern technology. This course is designed as a refresher or introduction to advanced applied mathematics. Prerequisite: Bachelor's degree (or equivalent) in engineering or related area.

#### ROCKET PROPULSION TECHNOLOGY (SOLIDS)

(MT-514-3 sem. hrs.; MTN-514-4 c.e.u.)

Instructors: Robert L. Glick; Ph.D.; and Robert B. Kruse; Ph.D.; both of Huntsville Division, Thiokol Chemical Corporation.

Schedule: Mon. & Wed.; 4:00-6:00 p.m.; Mar. 14-May 25

Location: To be announced

Fee: \$153, plus textbook

Intensive survey of the theory and practical aspects of solid-propellant rockets. Prerequisite: Bachelor's degree (or equivalent) in mechanical engineering or related area.

#### MODELING AND SIMULATION TECHNOLOGY:

PHYSICAL SYSTEMS

(MT-518-3 sem. hrs.; MTN-518-4 c.e.u.)

Instructor: Coordinator: Carroll D. Johnson; Ph.D.; Professor of Electrical Engineering, UAH. Specialists will lecture in various areas.

Schedule: Short-term course: May 2-13; Monday-Friday; 8:00 a.m.-12:00 noon. Reservations must be made by Apr. 25.

Location: 223 Madison Hall

Fee: \$250, textbook included

Intensive survey of the techniques for modeling and computer simulation of physical systems. Prerequisite: Bachelor's degree (or equivalent) in engineering or related area.

#### DIGITAL ELECTRONICS TECHNOLOGY

(MT-519-3 sem. hrs.; MTN-519-4 c.e.u.)

Instructor: David G. Green; Ph.D. (Candidate); Instructor of Electrical Engineering, UAH

Schedule: Short-term course: Apr. 25-May 6; Monday-Friday; 12:30-4:30 p.m. Reservations must be made by Apr. 18.

Location: 235 Madison Hall

Fee: \$250, textbook included.

Intensive survey of the analysis and design of digital logical circuits. Prerequisite: Bachelor's degree (or equivalent) in electrical engineering or related area.

#### OPTICS TECHNOLOGY

(MT-525-3 sem. hrs.; MTN-525-4 c.e.u.)

Instructor: Charles L. Wyman; Ph.D.; NASA Marshall Space Flight Center

Schedule: Mon. & Wed.; 4:30-6:30 p.m.; Mar. 14-May 25

Location: To be announced

Fee: \$153, plus textbook

Intensive survey of the principles of optics with applications in modern optical devices and systems. Prerequisite: Bachelor's degree (or equivalent) in engineering or physics.

#### ADVANCED RADAR SYSTEMS I

(MT-554-3 sem. hrs.; MTN-554-4 c.e.u.)

Instructors: Duane E. Boyer; Ph.D.; and Richard E. Lawrie; Ph.D.; both of Teledyne Brown Engineering

Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 25

Location: To be announced

Fee: \$153, plus textbook

Derivation and evaluation of various advanced techniques in radar systems. Prerequisite: Bachelor's degree (or equivalent) in engineering or related area.

### DECATUR EXTENSION-MASTER OF ADMINISTRATIVE SCIENCE PROGRAM

#### COMPLEX ORGANIZATIONS

(AS-623-3 sem. hrs.)

Instructor: Eugene A. Olsen; Ph.D.; Associate Professor of Public Administration, UAH

Schedule: Thurs.; 5:00-9:00 p.m.; Mar. 10-May 26

Location: 228 Classroom Building, Calhoun Community College

Fee: \$100, plus textbook

Survey of the basic theories of organization and organizational structure. Introduces the student to the study of organizations by considering them from the perspectives of management, psychology, sociology, political science and economics. Prerequisite: Admission to the School of Graduate Studies, UAH.

**HELPING YOURSELF TO HAPPINESS:  
SELF-HELP TECHNIQUES**  
(CE-R35-2 c.e.u.)

Instructor: Josh Walling; Ph.D.; Rehabilitation Counselor  
Schedule: Mon.; 7:00-9:00 p.m.; Mar. 14-May 16  
Location: 213 Madison Hall  
Fee: \$40, plus textbook  
This course will outline and demonstrate self-help techniques in the areas of Progressive Relaxation, Auto-Suggestion, Behavior Modification, and Rational Emotive Psychology. It is designed for lay persons as well as people working in helping areas.

**ESTATE PLANNING**  
(CE-R44-2 c.e.u.)

Instructor: Bruce E. Williams; J.D.; Attorney at Law  
Schedule: Mon.; 6:00-8:00 p.m.; Mar. 14-May 16  
Location: 109 Madison Hall  
Fee: \$40  
This course is designed to acquaint the general public with various mechanisms and associated tax/management techniques available in successful estate planning. Tools necessary for effective estate management will be discussed.

**GENEALOGICAL RESEARCH**  
(CE-R46-2 c.e.u.)

Instructor: Helen B. McKnight; B.S.; Historian-Archivist  
Schedule: Wed.; 6:00-8:00 p.m.; Mar. 16-May 18  
Location: 109 Madison Hall  
Fee: \$40, plus textbook  
An informal, practical course for beginners in how to search for ancestors. Emphasis will be placed on the location and use of primary source materials necessary for establishing accurate records.

**AMATEUR MOVIE-MAKING**  
(CE-R63-2 c.e.u.)

Instructor: L. Wade Black; Ph.D. (Candidate); Director, Alabama Film-Makers Co-Op  
Schedule: Tues.; 6:00-8:00 p.m.; Mar. 15-May 17  
Location: 109 Madison Hall  
Fee: \$40  
A course in 8mm or Super-8 film-making for the amateur or home movie hobbyist. Classes will cover film stocks and equipment available, camera work, lighting, editing, sound movies, and lab services.

**ASTROLOGY: HOROSCOPES AND FORECASTING**  
(CE-R67-2 c.e.u.)

Instructor: Vivian M. MacNeill; Astrologer and Instructor of Astrology  
Schedule: Wed.; 7:00-9:00 p.m.; Mar. 16-May 18  
Location: 309 Madison Hall  
Fee: \$40, plus textbook  
An informal introduction to Astrological Theory from a psychological viewpoint, emphasizing how to chart the cycles and utilize them for personal growth. The course includes origin and history of Astrology, erecting a natal horoscope, and use of one's own horoscope.

**HYPNOSIS**  
(CE-P69-4 c.e.u.)

Instructor: Joseph H. Slate; Ph.D.; Professor of Psychology, Athens State College  
Schedule: Thurs.; 6:00-10:00 p.m.; Mar. 17-May 19  
Location: 235 Madison Hall  
Fee: \$40, plus textbook  
A study of the principles and techniques of hypnosis and self-hypnosis with consideration of the underlying dynamics and processes involved. This course will illustrate how hypnosis may be used in achieving a variety of personal goals.

**INTRODUCTION TO FOLKLORE**  
(CE-R73-2 c.e.u.)

Instructor: Henry E. Willett; M.A.; Folk Arts Resident, Decatur City Schools  
Schedule: Wed.; 6:00-8:00 p.m.; Mar. 16-May 18  
Location: 108 Madison Hall  
Fee: \$40  
Introduction course encompassing a total view of North Alabama folklore and folklife. The course is divided into four major sections: oral literature, material culture, social folk custom, and performing folk arts.

**ASTRONOMY FOR FUN**  
(CE-R74-2 c.e.u.)

Instructor: Gert F. Schmitz; B.S.; Army Missile Command  
Schedule: Thurs.; 6:00-8:00 p.m.; Mar. 17-May 19  
Location: 340 Madison Hall  
Fee: \$40  
An account of man's relation to the stars from ancient to modern times. This course will be a combination of observation and lecture (field trips to the Von Braun Astronomical Observatory).

**HOUSEPLANTS**  
(CE-R76-2 c.e.u.)

Instructor: Richard C. Leonard; Ph.D.; Associate Professor of Biology, UAH  
Schedule: Mon.; 6:00-8:00 p.m.; Mar. 14-May 16

Instructor: Joseph R. Tremul; M.Ed.; Director, Mental Retardation Services, Marshall-Jackson Counties  
Schedule: Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 26  
Location: 222 Madison Hall  
Fee: \$87, plus textbook  
Introduction to art and simple science media for use with young children: principles relating to the choice, use, and value of creative media in enrichment opportunities for children.

**LANGUAGE DEVELOPMENT**  
(CD-202-3 sem. hrs.; CDN-202-4 c.e.u.)

Instructor: Nancy S. Hodges; M.A.; Speech Therapist and Language Coordinator  
Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 25  
Location: 222 Madison Hall  
Fee: \$87, plus textbook  
Study of the development of speech and language in the young child; basis for language growth in preschool and elementary school programs; introduction to written expression; identification of speech problems. Prerequisite: CD-101 or experience with young children.

**INTRODUCTION TO INTERIOR DECORATION**  
(ID-102-3 sem. hrs.; IDN-102-4 c.e.u.)

Instructor: Lynn DeYoung; B.S.; Consulting Interior Designer  
Schedule: Mon.; 6:00-10:00 p.m.; Mar. 14-May 23  
Location: 309 Madison Hall  
Fee: \$87, plus textbook  
Introduction to the principles and practices of interior decorating; activities and space planning; principles of design; color theory and schemes; interior materials; design of major interior elements; and examination of the whole house. Prerequisite: ID-101

**INTRODUCTORY ARCHITECTURAL PLANNING**  
(ID-201-3 sem. hrs.; IDN-201-4 c.e.u.)

Instructor: Joe F. Milberger; B. Arch., A.I.A.; Milberger, Rutland and Associates  
Schedule: Sat.; 8:30-12:30 p.m.; Mar. 12-May 21  
Location: 309 Madison Hall  
Fee: \$87, plus textbook  
Survey of architectural planning and drawing, primarily as these topics relate to interior decoration. Basic drawing and sketching; home planning processes; construction materials; elements of construction methods; architectural drawings.

**INTERIOR DECORATION PROBLEMS**  
(ID-202-3 sem. hrs.; IDN-202-4 c.e.u.)

Instructor: LaMerle Mikell; B.S.; Adjunct Assistant Professor of Interior Decoration, UAH Consulting Interior Decorator  
Schedule: Section A - Tues. & Thurs.; 9:00-11:00 a.m.; Mar. 15-May 26  
Section B - Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 26  
Location: 309 Madison Hall  
Fee: \$87, plus textbook  
Detailed study of selected problems in interior decoration. Practical application in combining furniture, accessories, materials, and finishes; development of a portfolio of materials; ethics in commercial interior decoration. Prerequisite: Two introductory courses in Interior Decoration.

**INTRODUCTION TO CRIMINAL JUSTICE**  
(LE-101-3 sem. hrs.; LEN-101-4 c.e.u.)

Instructor: Francis J. Faraci; J.D.; Legal Office, U.S. Army Missile Command  
Schedule: Sat.; 8:30-12:30 p.m.; Mar. 12-May 21  
Location: 223 Madison Hall  
Fee: \$87, plus textbook  
Introductory survey of the panorama of the criminal justice system. Philosophical and historical background; constitutional limitations; criminal justice agencies; pre-trial, trial and post-trial processes; evaluation of criminal justice today.

**LAW ENFORCEMENT OPERATIONS**  
(LE-102-3 sem. hrs.; LEN-102-4 c.e.u.)

Instructor: Personnel in various law enforcement agencies.  
Schedule: To be arranged by each student through the Division of Continuous Education  
Location: To be arranged  
Fee: \$87  
A study of functions and relationships in line elements of law enforcement agencies. This course is offered only through Independent study. Students will be placed in various law enforcement agencies, according to preference, and required to contribute 40 hours during the term to the operation of the agency.

**CRIME AND DELINQUENCY**  
(LE-301-3 sem. hrs.; LEN-301-4 c.e.u.)

Instructor: Millard E. Moon; M.A.; Probation Officer, U.S. Probation Service  
Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 25  
Location: 223 Madison Hall  
Fee: \$87, plus textbook  
A detailed study of crime and delinquency in the United States: quantity, measurement, trends, economic impact, and victimization. Examination of the nature and impact of organized crime. Prerequisite: LE-101 desirable.

**ANALYSIS OF FINANCIAL STATEMENTS**  
(CE-S76-1.4 c.e.u.)

Instructor: Jack R. Fay; Ph.D.; Assistant Professor, Department of Business Administration, UAH  
Schedule: Sat.; 8:30 a.m.-4:30 p.m.; Mar. 19 & 26. Reservations must be made by Mar. 11.  
Location: 222 Madison Hall  
Fee: \$50, materials included  
A comprehensive introduction to the reading, understanding, and objectives of financial statements, including ratio analysis.

**DECISION MATHEMATICS**  
(MN-501-3 sem. hrs.; MNN-501-4 c.e.u.)

Instructors: Robert A. Brown; Ph.D.; Associate Professor of Industrial and Systems Engineering, UAH  
Robert E. Shannon; Ph.D.; Professor of Industrial Engineering, UAH  
Schedule: Short-term course: Apr. 4-15; Monday-Friday; 8:15 a.m.-12:15 p.m. Reservations must be made by Mar. 28.  
Location: 223 Madison Hall  
Fee: \$250, textbook included  
Introduction to mathematical concepts used in management science: MATRIX algebra, linear systems, linear programming, game theory, basic calculus, set theory, and probability. Prerequisite: Upper-division or post-graduate standing.

**MANAGEMENT PROCESSES**  
(MN-504-3 sem. hrs.; MNN-504-4 c.e.u.)

Instructors: Robert E. Shannon; Ph.D.; Professor of Industrial Engineering, UAH  
Richard M. Wyslida; Ph.D.; Associate Professor of Industrial & Systems Engineering, UAH  
Schedule: Short-term course: Mar. 21-Apr. 1; Monday-Friday; 8:00 a.m.-12:00 noon. Reservations must be made by Mar. 14.  
Location: 223 Madison Hall  
Fee: \$250, textbook included  
Survey of modern management processes as viewed in systems terms: systems and models; and systems approach to management; planning functions; management execution in organizing, motivating, and controlling. Prerequisite: Upper-division or post-graduate standing.

**FUNDAMENTALS OF PROGRAM MANAGEMENT**  
(MN-521-3 sem. hrs.; MNN-521-4 c.e.u.)

Instructor: Robert O. Black; M.S.; Army Missile Command  
Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 25  
Location: To be announced  
Fee: \$153, plus textbook  
Intensive survey of the principles and techniques involved in the management of programs. Topics include functions and authority of the manager, decision analysis, program planning and control, methods of systems analysis, and information systems and management. Prerequisite: Upper-division of post-graduate standing.

**FINANCIAL ASPECTS OF CONTRACTS**  
(MN-543-3 sem. hrs.; MNN-543-4 c.e.u.)

Instructor: Carl R. Gallimore; M.S.; Defense Audit Agency, Huntsville  
Schedule: Tues. & Thurs.; 6:00-8:00 p.m.; Mar. 15-May 26  
Location: 110 Madison Hall  
Fee: \$153, plus textbook  
Study of financial considerations in prescontract activities, contract negotiation, and contract performance. Prerequisite: MN-541 or ehxtperience in contract administration.

**PRODUCTION MANAGEMENT**  
(MN-584-3 sem. hrs.; MNN-584-4 c.e.u.)

Instructors: Robert A. Brown; Ph.D.; Chairman, Dept. of Industrial & Systems Engineering, UAH  
Michael G. Joost; Ph.D.; Assistant Professor of Industrial & Systems Engineering, UAH  
Schedule: Short-term courses: May 2-13; Monday-Friday; 8:00 a.m.-12:00 noon. Reservations must be made by Apr. 25.  
Location: 235 Madison Hall  
Fee: \$250, materials included  
Study of the theory and application of demand forecasting, production and inventory planning and control, and product quality control. Prerequisite: College-level algebra.

**FUNDAMENTALS OF LOGISTICS MANAGEMENT**  
(MN-591-3 sem. hrs.; MNN-591-4 c.e.u.)

Instructor: John C. Goodrum; M.S.; Executive Director, Society of Logistics Engineers  
Schedule: Short-term course: Mar. 21-Apr. 1; Monday-Friday; 12:30-4:30 p.m. Reservations must be made by Mar. 14.  
Location: 235 Madison Hall  
Fee: \$250, textbook included  
An intensive survey of the management principles and practices involved in the general field of logistics. Prerequisite: Upper-division or post-graduate standing in an administrative or technical area.

**MAINTENANCE MANAGEMENT**  
(MN-592-3 sem. hrs.; MNN-592-4 c.e.u.)

Instructor: Marvin L. Worley, Jr.; Certified Professional Logistician

quisite: Bachelor's degree (or equivalent) in engineering or related area.

**COMPRESSIBLE FLUID FLOW**  
(CE-T68-4 c.e.u.)

Instructor: Terry F. Greenwood; Ph.D.; NASA Marshall Space Flight Center  
Schedule: Mon. & Wed.; 6:00-8:00 p.m.; Mar. 14-May 18  
Location: To be announced  
Fee: \$87, plus textbook  
Basic relations for compressible flow, boundary layer flow, and flow or frictionless fluids as related to high speed flight. Prerequisite: Bachelor's degree (or equivalent) in engineering or related area.

**COMPUTER CODES FOR HEAT AND FLUID FLOW**  
(CE-T69-4 c.e.u.)

Instructor: D. Brian Spalding; Professor, Imperial College of Science and Technology, London, England  
Schedule: Short-term course: Mar. 21-25; Monday-Friday; 8:00 a.m.-5:00 p.m. Reservations must be made by Mar. 14.  
Location: Carriage Inn  
Fee: \$600, including manual and decks of paper tapes of both codes.  
Comprehensive examination of two widely applicable computer codes to the phenomena of fluid mechanics, heat and mass transfer, and combustion. Prerequisite: Bachelor's degree in related technical areas.

**PHYSICS OF MODERN TECHNOLOGY**  
(MT-503-3 sem. hrs.; MTN-503-4c.e.u.)

Instructor: J. Edwin Rush, Jr.; Ph.D.; Associate Professor of Physics, UAH  
Schedule: Tues. & Thurs.; 8:30 a.m.-12:30 p.m.; Mar. 29-Apr. 28  
Location: 222 Madison Hall  
Fee: \$153, plus textbook  
A survey of advanced topics in physics as related to modern technology. This course is primarily designed for engineers and scientists who desire a basic knowledge of concepts in modern physics. Prerequisite: Bachelor's degree (or equivalent) in engineering or related area.

**MATHEMATICS OF MODERN TECHNOLOGY**  
MT-504-3sem. hrs.; MTN-504-4c.e.u.)

Instructor: John R. Glaese; Ph.D.; NASA Marshall Space Flight Center



# The University Of Alabama In Huntsville

**THE UNIVERSITY OF ALABAMA IN HUNTSVILLE**

Division of Continuous Education  
P.O. Box 1247, Huntsville, Alabama 35807

**NON-CREDIT REGISTRATION**

Name: Mr./Ms. \_\_\_\_\_ (last) \_\_\_\_\_ (first) \_\_\_\_\_ (middle) Soc. Sec. Number \_\_\_\_\_

Home Address \_\_\_\_\_ (street/box) \_\_\_\_\_ (city) \_\_\_\_\_ (state) \_\_\_\_\_ (zip) Home Phone \_\_\_\_\_

Employment \_\_\_\_\_ (position) \_\_\_\_\_ (organization) Office Phone \_\_\_\_\_

Course Number \_\_\_\_\_ Course Title \_\_\_\_\_ Dates/Term \_\_\_\_\_

FEE: In the amount of \$ \_\_\_\_\_  Check  Cash

Six At A Time

# Computer Flies, Controls Multiple Drones

The Army is testing a pushbutton, computer system at White Sands Missile Range, N.M., that automatically flies and controls multiple drones.

For its grand finale scheduled next month, the Drone Formation Control System (DFCS) will track and control six drones flying in close formation while executing several high-speed flight patterns.

The unique program is managed by the Test and Evaluation Command at White Sands while the Targets Management Office here at the Missile Materiel Readiness Command is supplying targets, ancillary airborne equipment and flight services.

The DFCS system is expected to be **Chopper Pioneer Remembers**

## They Weren't Supposed To Fly

Relaxed and smiling, Ralph Alex, better known as "Mr. Helicopter," recalled the early days of the machine that wasn't supposed to fly.

"We built the first chopper flown successfully in the United States, the VS300, out of parts scrounged wherever we could find them," said Alex, who was lead design engineer for Sikorsky at that time. "We had to teach ourselves to fly. We learned by doing."

"There was a gear box in the back that lasted for about an hour and we could go about 45 miles in a good breeze. We spit on the transmission and when it sizzled, that was time to land and let her cool."

"Igor Sikorsky said the reason we developed the helicopter was because we didn't know it couldn't be done."

Alex, currently the marketing chief for Sikorsky Aircraft Division of United Technologies Corp., traced the development history of the helicopter last week as guest

operational later this year.

Thus far, the system has demonstrated ability to control formations of two to four Firebee drones, and two F-102 jets. In tests next month, it will control four Firebees and two F-102s simultaneously, in two separate formations.

DFCS is manufactured by IBM in Huntsville and is the offspring of a MIRCOCOM system developed, tested and demonstrated in 1974 and called Target Automatic Formation Flying Equipment (TAFPE). IBM was also the TAFPE contractor.

The DFCS combines telemetry, radio and distance measuring equipment with the computer. In operation, the system takes measurements of target distance from each

of three interrogator stations and feeds these measurements into the computer.

Comparing the position data with the flight path data that has been programmed into it the computer generates commands to keep the targets on their prescribed flight paths.

After launch, drones may be flown automatically by the computer or manually by operators who have control consoles to monitor the flight paths of the drones at all times.

The system has controlled drones flying at altitudes from 600 to 26,000 feet.

Colonel A. A. Busck heads MIRCOCOM's Targets Management Office and C.A. Lyles is command representative for the DFCS system.

of the Huntsville Chapter of the Army Aviation Association of America. His firm won a competitive contract in December to develop the Army's new Utility Tactical Transport Aircraft System.

The UTTAS, the Army's first true squad-carrying utility helicopter, can carry a pilot, co-pilot, crew chief, gunner and 11 combat equipped soldiers.

The XR4 was the first Army delivered helicopter, costing about \$50,000 and used primarily for rescue missions during World War II.

Alex was founder and first president of the American Helicopter Society in 1943.

### Change Dates to Ease Logjam

MILPERCEN has announced a reporting date change for E-4 EERs from September to October. Officials said the shift was made to reduce the numbers of EERs to be processed during September.

E-5 EERs are required to be submitted in August.

The change on E-4 EERs should prevent a back-to-back logjam for processors at Ft. Ben Harrison. (AR-NEWS)

His remarks were made at a luncheon meeting of the AAA at the Officer's Open Mess.

During a business session, the following officers were elected for the coming year:

Colonel James Tow, 2.75 Rocket System Project Manager, President; Colonel James Brill, TOW project Manager, Vice-President; Robert Wyne, Rockwell International, Secretary; Charlie Stroud, Boeing, Vice-President for Programming; Major Ray Benson, Vice-President for publicity, benefits; Major Cecil Robison, Vice-President for enrollment and membership.

### Dial 112 For Redstone News

#### FATHERS!

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## Aware, Alive

(From Front Page)

tornado warning Feb. 18. The last warning of the year was July 31. However, last year was a very good year for area residents as tornado activity was below normal.

### HOW IT HAPPENS AND HOW ITS TRACKED

Tornados are the offspring of thunderstorms. When a thunderstorm develops, there is always a chance that a tornado will develop from it.

As big thunderstorms build in the area, the weather service tracks them by radar. Warnings are broadcast on television and radio and directly from the weather service on small commercial weather alert radios.

If conditions seem right for a tornado, a tornado watch may be issued with the thunderstorm warning. A watch means that conditions are right for the development of tornados and that persons in the watch area should keep their eyes open. A WATCH DOES NOT MEAN THAT A TORNADO IS IMMINENT.

The thunderstorms are tracked by radar. Should a tornado begin to develop, or if one is reported, the weather bureau will immediately issue a tornado warning. This means that a tornado has been sighted and that persons in the affected area should seek shelter immediately.

The weather bureau continues to track the storm and issues constant warning to those who are in the storm's predicted path. Electronic weather alert radios are in use in some offices on the Arsenal. When a warning of severe weather is issued, the weather bureau activates its broadcast equipment and the devices sound an alarm 30 seconds later.

### WHAT HAPPENS HERE

Arsenal residents have several ways of finding out when severe weather is approaching. The Redstone Cable Television Company has a telephone hook up with the military police for use in times of emergency.

The system blanks out every channel on cable and permits military police to transmit weather warnings to all persons on the cable.

The military police have primary responsibility for alerting Arsenal residents about an oncoming storm. According to Capt. Jesse Crider, operations officer for the MP's, the task begins far before a tornado warning is issued.

"Before the warning we monitor weather alert radios and work with National Aeronautics and Space Administration Weather, the U.S. Weather Service, and local television stations," said Crider. "When the warning is issued, the post siren is sounded, and MP patrols go through housing and troop areas on post with loud speakers advising people to take cover against the storm. Our final job comes as the MP's give the official 'All Clear' signal for the Arsenal."

Crider added that standard operating procedures used by his men during severe weather are reviewed annually, and training on severe weather procedures was completed recently.

### WHAT CAN YOU DO?

There are several places that will serve as shelter against a tornado. Use them to protect yourself.

**IN THE BARRACKS**—Move to the basement or lowest floor of the building. Avoid windows and doors, where there is greater danger of flying glass and debris. Try and keep head and body covered by crouching low and covering your head with your arms.

**IN THE OFFICE**—Standing against an inside wall of a lower floor or basement of an office building offers some protection. Stay away from large areas of glass. If there is no time to move downstairs, take cover under heavy furniture.

**IN THE HOME**—The corner of the basement toward the tornado usually offers the greatest protection. If there is no basement available, take cover under heavy furniture or in a large bathroom or closet that has no windows. Doors and windows on the sides of the house away from the tornado may be opened to help equalize air pressure and reduce damage to the building. **THERE IS NO UNIVERSAL PROTECTION AGAINST TORNADOS EXCEPT UNDERGROUND SHELTER.**

**IN OPEN COUNTRY**—Move away from the storm's path at right angles. If there is not time to escape, lie flat in the nearest ditch.

Keep clam and don't panic. People have been killed by running into the streets and by turning back into the path of a tornado. Even though a warning is issued, chances of it striking your home or location are very slight.

### WHERE, HOW, AND WHEN

**WHERE TORNADOS CAN OCCUR:** Any place in the U.S. at any time. They most frequently occur in this area during March, April and November.

**HOW TO RECOGNIZE ONE:** A tornado is a funnel-shaped cloud, spinning rapidly, and extending toward the earth from the base of a thundercloud. When close by, a tornado sounds like the roar of jet engines.

**TORNADO WEATHER:** Hot sticky days with southerly winds and a threatening sky. However, many such days occur without tornados.

**CLOUDS:** thunderstorm clouds are present. An hour or two before a tornado, topsy turvy clouds appear. The clouds often have a greenish-black color.

**DIRECTION OF TRAVEL:** In most cases tornados move from a westerly direction, usually from the southwest. The tornado of 1974 which did severe damage to the Arsenal moved from southwest to northeast.

**WIDTH OF PATH:** About 400 yards, but tornados have cut swaths over a mile in width.

**SPEED OF TRAVEL:** Twenty-five to 40 miles an hour but they have varied from five to 139 miles an hour.

### OTHER SUGGESTIONS

Make sure that automobiles, motorcycles and recreational vehicles have adequate storm damage protection.

Inventory personal items of value in the barracks or home. Keep the list on your person at all times. This is a big help when filing claims with the government or insurance companies.

During tornado season, if you have to leave your dwelling to seek shelter it is a good idea to make up a small tornado kit including a small first aid pack, toilet articles, waterproof matches, candle, and a clean change of underwear.

Tornados are the most violent storms on dry land. The likelihood of them in the Tennessee Valley is a good one. Taking precautions is smart. Your life may depend on it.



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# Phone Net Puts Problem Closer To Solution

Plans are underway to quickly pass information from experts in Europe who identify specific problems in Army missile system readiness to others in this country in a position to take corrective action.

A special telephone network will soon connect Missile Maintenance Technicians (MMTs) of the Readiness Command with the commands Senior Staff Technical Representative, based in Heidelberg, Germany.

The missile maintenance technicians, civilian service experts, are scattered throughout Europe and work with Army missile units.

They will use the phone linkup to make direct daily reports to the Senior Staff Technical Representative who will include

the information in his daily phone report to MIRCOM. His call comes in during the night, is taped, and played back as a first order of business as the Maintenance Directorate begins its work day.

Main purpose of the new phone system in Europe is to put readiness on a real time basis, according to Joe Coffman of the Maintenance Directorate. "We take the report from the SSTR, research and analyze, it, then turn it over to the Readiness Intelligence Center so it can be used to update the status of missile systems," Coffman said.

This is one method for carrying out a new concept of readiness. MIRCOM identifies all problems associated with missile systems—shortage of personnel, training needs, supply—whatever impacts on

system readiness. Coffman said it is not up to the Readiness Command to correct all problems, but to bring them to the attention of the responsible agency.

"For example, it might be a training problem, that would be passed to TRADOC," he said. "We're going to be concerned with identifying problems we haven't talked about before."

In addition, the MMTs have been asked to include a narrative account of all problems with their monthly report. The first of these is expected in early March.

"It all adds up to getting information into the hands of the people who are responsible for correcting problems in a short time rather than much later as it has been in the past. It places re-emphasis on missile system readiness," Coffman said.



**SABER TROPHY**—William O. Turney, President of the Tennessee Valley Chapter, AUSA, and an employee of BMDSCOM, presented the first saber trophies to Major (ret.) Harold W. Chafin of Lee High School. The trophies will be given to Huntsville and Madison County High Schools which have ROTC units and to the Alabama A&M Rotc Unit. A plaque bearing the name of the outstanding Cadet Of The Year for each particular school will be placed on the trophy each year and displayed by the school. Previously, sabers had been presented to individuals, but the funds for that project have been diverted to a scholarship grant program for qualifying students.

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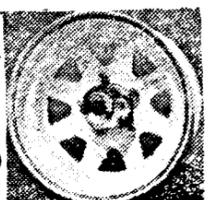
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# Headaches And More

On Monday morning at the 5th Student Company at the Missile and Munitions Center and School, 45 new students are milling in the dayroom before in-processing. They're smoking cigarettes, playing pool, talking. They're getting to know one another before the day begins.

All kinds of questions are running through their heads. What does in-processing consist of? Will they like Redstone? What will school be like? Will it be difficult? Will they enjoy working in the military occupational specialty for which their schooling here will prepare them? What will be expected of them?

Many of these questions will be answered for them in the next two days. Others will take more time.

1st Sgt. Marcellus Toto enters the room and interrupts the noise. Find a seat in the classroom, he says. The students' first day of in-processing is about to start.

First on the list is a briefing by Col. John R. Underwood, School Brigade commander. As the colonel enters the room the student soldiers snap to attention. The colonel tells them to be seated.

During the briefing Underwood explains how MMCS, an Advanced Individual Training station, differs from basic, how to avoid pitfalls at Redstone, and the ins and outs of meeting foreign students. He tells them to be security-conscious and explains to them the college credits they can earn for MMCS courses. He concludes by telling the soldiers to take pride in being a soldier, backing his statement by saying that 40 per cent of the people in their age group are not physically qualified to join the Army. Which makes them a select group.

The students come to attention as the colonel completes his briefing and exits the room.

Next the students hear Sgt. Major Simmons, brigade sergeant major, who focuses on haircuts and sessions weekly with class leaders at which problems are discussed. The platoon sergeant is here to assist you, Simmons tells them. He advises that before making any rash decision, like going AWOL, see the platoon sergeant.

Lt. Col. Ben C. Bedford, Second Battalion commander, taking the floor next, warn strongly against drunken driving.

The colonel recounts several serious incidents involving alcohol abuse. Your primary mission here, Bedford tells the students, is to graduate from school. He emphasizes again the importance of the platoon sergeant. The colonel closes with stern words about drugs and then opens the floor to questions. There are none.

Toto steps up to address the students. NCO's are paid to take care of you, he tells them, but they as student soldiers have to help make the system work.

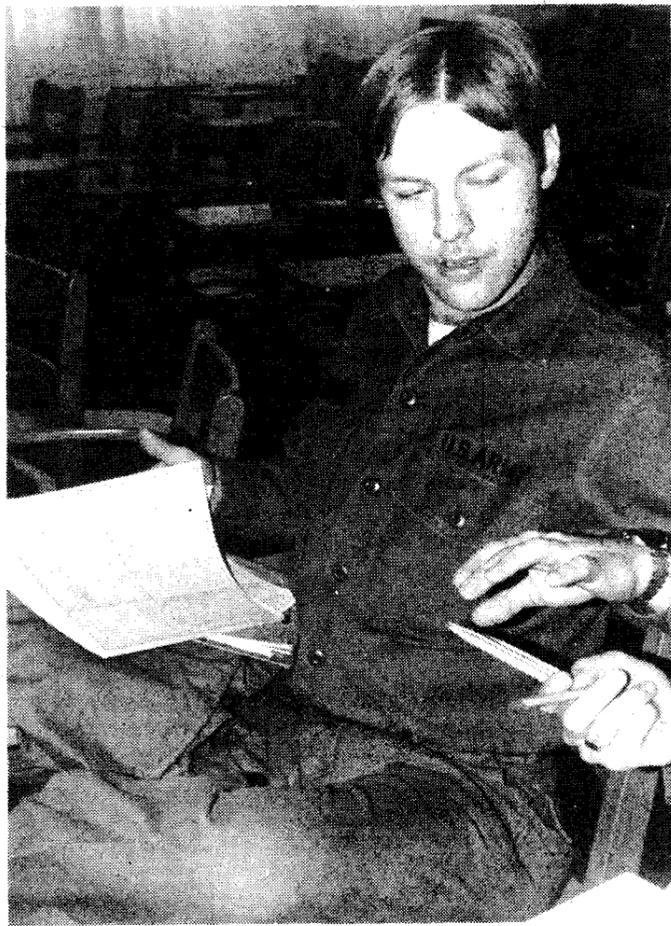
Chaplain Alfred Minor tells about the chapel and services available to soldiers on post.

Time for a break. The students file down the hall to the day room. They smoke, play pool, and talk. They get acquainted.

One student, fresh from basic is commenting on Alabama, as much of post and Huntsville as he has seen, and Army life so far.

"I think all of Alabama is different from South Carolina," Pvt. Scott Rychener says. "The little bit of snow we've had is a nice change, it only rains in South Carolina. I think this place is all right."

"Since I've been in the Army I've gotten all kinds of run arounds. It's the old story everybody told me about the Army. Hurry up and wait. I should have been here a month ago but there was a hold up in administration, too many hassles."



ANOTHER FORM — Pvt. Scott Rychener reaches for a pencil to fill out forms at in-processing. Rychener is attending the improved Hawk course.

"Christmas leave came just at the right time for me. When I got home I had a chance to get my head straight on the educational values of staying in."

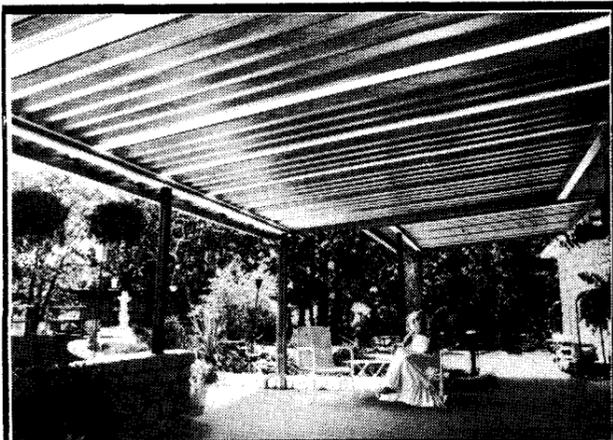
The break ends and the students return to their seats, where they are greeted with pencils and forms; forms for security, finance, and personnel. Hunching over their pencils, they begin writing.

The forms are long and complicated.

When lunch break arrives, the students depart gratefully.

Returning in slightly better humor, the new students concentrate on solving finance and personnel problems and taking care of security badges. It turns out to be a short day for the students, but they'll be at it again tomorrow morning. Now they'll return to the barracks and try to finish settling in and finding their way around.

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# Sports Beat: Short-Shorts

By Jeanie West

### TRADOC TOURNEY

On Sunday morning the post basketball team will be motoring northward to participate in the TRADOC Western Division Basketball tournament at Ft. Knox.

The team consists of Andri Knight, Terry Adams, Willie Rice, Charles Davis, Tim Niewierowski, Marc Halsey, Ernest Hobson, John Chandler, Stanley Williams, and Billy Wallace.

Here's hoping the Rockets will go right to the top.

### PAT ON THE BACK

Several companies on post are conducting organized PT primarily for the overweight soldiers. It's a great idea. It helps those affected by the weight control program to lose weight and get themselves into good physical shape. The program is meritorious and should be expanded to include all soldiers.

### SLAP ON THE HANDS

To the high ranking muckity-mucks who don't participate in organized PT for weight control on lame excuses of age, profiles, etc.: Let's hope that the goldbricks among them will see the light and begin setting the example. Don't let PT and weight control programs end up a case of "Do as I say, not as I do."

### BOATING AND BAIT

With warm weather approaching, many will be taking to the waterways for relaxation. If you plan to operate a boat this season, be it canoe or catamaran, check out some of the boating courses offered around Huntsville. Most of them are free, and are important if you want to be safe in the water.

For fishermen, remember to get a post license if you plan to fish within the confines of the Arsenal. Getting caught with an expired license, or without a license at all, can be a headache. It's worth the time to check it out.

# Bowling Results

### FRIDAY MIXED

#### Top Ten

Southern Oaks  
Pin Pushers  
Coats  
G-Strings  
Team 24  
CB'ers  
Pin Seekers  
Four Turkeys  
Get Em Out Johns  
Gutter Group



#### Results

Series: Southern Oaks 2466 (876), Pin Pushers 2461, CB'ers 2460  
Game: Team 4 870, G-Strings 861

#### Ind. Honors

Men: Pete Peterson 708, Dee Coffee 692, Bill Doss 670, Ed Gerheaser 268, Chuck Sloane 267

Women: Dottie Mayfield 652 (257), Judy Hendrix 650, Sue MacDonald 646, Carol Holmes 266, Carol Dinkel 254

#### AMC LEAGUE Standings

T-Birds  
Spares  
Bombers  
Cadillacs  
Lily Flag  
Alley Cats  
Hughes TOW  
Patriots  
Fat Cats  
Hofepuls

Pts  
58  
52½  
50½  
46½  
45  
43½  
41  
39  
38  
27

#### Honor Roll

John Mellgren passed the magic 600 plateau with an opening 232 and a closing 201 for a 604 total that added up to a clean

sweep win for the Patriots over Hughes TOW.

#### Other High Rollers

Bob Brand, 584; Tom Smith, 570; Earl Hollingsworth, 563; Burt Dempsey, 554; Dave Blackwood, 535; Al Simpson, 534.

## Basketball Statistics



#### Standings

	W	L
Corps of Engineers	16	1
Commissary	15	2
RD&E	12	5
MMCS	6	11
Nike	6	11
Product Assurance	4	13
Metrology	1	17

#### Tonight

5:45 Commissary vs. CoE  
7:00 PAD vs. Nike  
8:15 MMCS vs. RD&E

#### Leading Scorers

	G	PGA
Roosevelt Williams, Comm	17	23.8
Claude Steele, CoE	17	22.1
Lloyd Brooks, RD&E	17	19.2
Andy Tippins, CoE	17	19.0
James Love, Comm	17	18.2
Jim Vann, RD&E	17	17.4
John Robinson, Comm	17	16.3
Mike Krembler, Nike	16	16.0
Mose Hall, MMCS	16	15.7
John Mapleš, PAD	17	15.3

# Golfers Whip A&M

The Redstone Arsenal golf team defeated Alabama A&M Saturday 324-347 on the Redstone course.

The Rockets were represented by Gary Chesser, MEDDAC; Bruce Jarvis and Bob Wendt, School Brigade; Wes Baasen; Don Morison, 291st MP; and Frank Miller, Mircom.

The Alabama team was represented by Coach Gene Bright, Bruce Belyea, Roosevelt Dixon, Billy Holden, and Paul Crawford.

Scoring honors for the match went to Redstone's Don Morison and Frank Miller, who each had a 76 on the par 72 course.

The match was the first of the season for A&M.

The next match for the Rockets will be here March 10 against Calhoun Community College.

# Volleyball Tryouts

Tryouts for the post volleyball team will be March 10 and 11 from 6 to 9 p.m. at the post gym.

Anyone interested in playing should be at the tryouts or contact the Sports Office at 6-2943.

## Teams Forming Golf and Tennis

The post tennis and golf teams are now accepting members for the summer season.

The tennis team will be competing in the Huntsville Industrial League, while the golf team will be competing against various collegiate teams.

The tennis team will also be taking part in a TRADOC tennis tournament in July at Ft. Leavenworth. A golf tourney will be held at Ft. Rucker in August.

Those interested in the tennis team should contact Maj. Burns at 6-2020. Golfers contact Capt. Chesser at 6-4949.

## Roll-Off

The Redstone Bowling Center will hold its yearly Post Roll-Off March 15-17 at 12:30 with seven games bowled per day. All soldiers may enter.

The top six men and top two women will go to the TRADOC tournament at Ft. Leonard Wood, April 11-15. Interested persons can sign up at the Bowling Center. For information, call 876-4666.



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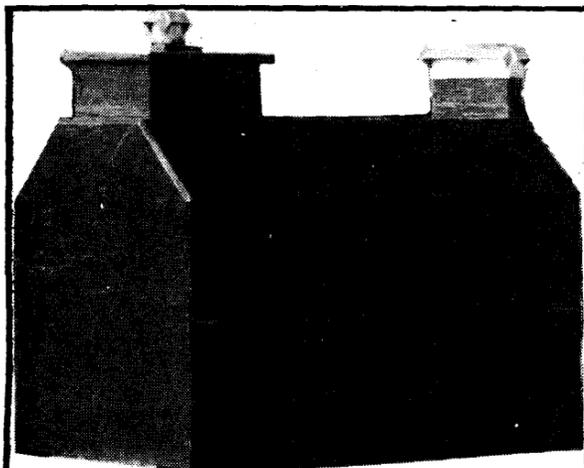
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# Weight Control: Old Policy With New Wrinkles

Have you taken a look in the mirror lately? Could be you're one of those people who are overweight or underweight. If so you may be one reason for the Army's new weight control program covered in AR 600-9.

Previously weight control for soldiers was the responsibility of the career counselor, but because of the new regulation it is now placed on the company commander's shoulders.

When asked how they felt about having the responsibility of weight control of military members, Capt. James Morris, Company B commander, and Capt. Rex Mills, Company C

commander, both agreed, "That's where it should be."

The new regulation includes a revised weight chart which takes approximately 32 additional pounds off every weight on the old chart.

Persons who are overweight or underweight by Aug. 3 will be allowed to reenlist or extend their time in the service only with the approval of their company commander.

Persons with weight problems at the present time can only extend their time in service for six months.

An exercise program has been started by company commanders

here at the request of School Brigade for all members affected by the weight control program. In Company A, 53 persons out of 310 are on the program. Company B had 210 military members and 32 are on the program, while in Company C 22 out of 160 are affected.

The exercise program is conducted three times a week at the present time—Tuesday, Wednesday and Thursday from 2 to 3:30 p.m., but both Morris and Mills agreed that this may change.

"I feel the scope of the weight control program should be broadened to reach to all military

personnel to prevent people from becoming overweight or underweight," said Mills.

"A lot of people are not aware of the new regulation," Morris said. "Times are changing and this is an AIT school. Our NCO's along with the rest of the permanent party ought to be setting an example for the student soldiers."

Morris also commented that "Most of the people who have become overweight have gotten that way from the jobs they've been put in."

"It's really just an old policy with some new wrinkles," he said.

# Students, Cops Clash in Cager Finale

The 4th Student Company edged the 291st MP's 62-60 in intramural semifinals Thursday night, but the cops maintained their playoff spot and faced the 4th Monday night in a game to determine the 1977 basketball champs.

Terry Adams led the winners in the Thursday battle, scoring 30 points off 15 field goals. Willie Rice was high man for the cops with 29 off 11 field goals and seven free throws.

Keeping their championship hopes alive, the 291st whipped the 6th Student Company 57-37 behind another Willie Rice barrage. Rice scored 29 points off 12 field goals and five free shots.

Other tournament games went as follows.

## TUESDAY

The 7th Student Company had no trouble taming the Company C lettermen 57-42. Robinson sunk seven field goals for the winners. Richard James was good for 14 for

the lettermen off six field goals and two free shots.

Wayne Paige fired 13 points as he led the 6th Student Company to an easy 47-35 victory over the Marines. R. B. Watson led the leathernecks with 11 points.

Meddac looked as though they should have stayed home as the 4th SC steamrolled past them 70-34. The 4th's Adams kept up his scoring reputation, sinking 20 points for the victors, while Marc Hulse led the medics with eight.

The MP's bolstered their playoff hopes, edging the 8th SC 54-48. Willie Rice headed the winners with 19, while Kerbo scored 16 for the students.

## WEDNESDAY

In a tight, well-matched contest, the 7th and 8th student companies battled to a 56-52 victory for the 7th.

Carter led the winners with 17 from eight field goals and a free shot. The 8th's Riles led his team with 16 points.

Meddac miffed for the second time last week, bowing to the 6th SC 50-38. John Crosby led the students with 15 points, while Hulse headed the losers, scoring 18.

## THURSDAY

In what had to be the tightest floor fight this season, the 7th squeaked by the 6th 41-40.

Scoring for both teams was light until the second half, when the 7th put on a power drive for the win. Meyree led the victors with 13 from six field goals and a free throw. Austin led the 6th with 15 points from seven field goals and a free shot.

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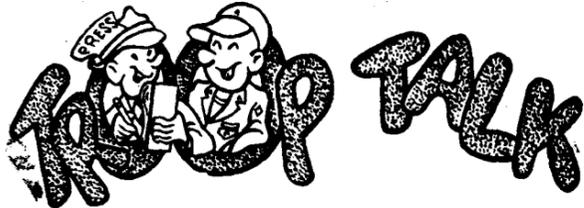
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*What do you think of the amnesty granted Vietnam Era draft evaders?*



**Pvt. Doris Braden, 5th SC**—"In a moral sense it is the Christian and right thing to forgive them. But on the other hand, should we allow men who would not fight to protect their country during wartime return after peace has been restored to reap the benefits? I want to pose the question because the answer encompasses more than I can say in a brief statement."



**Sgt. 1st Class Artis Wallace, 5th SC**—"As a Vietnam vet, I feel that there are certain cases where a man should be granted amnesty. Overall we shouldn't hold it against the guys who didn't serve in Vietnam because in America a man has the right not to serve in a war. Because so many fallacies exist in the American system, only the common man is faced with the problem of going to war. If you have money you don't have to, but if you don't then you go. The wealthy could afford to buy their way out of Vietnam, yet now that the war is over it's still the wealthy who cry out against amnesty. In short, let everyone come home and let's get this country reunited."



**Tech Sgt. Larry Childers, Air Force Det.**—"We shouldn't because we're supposed to be military people and our job is to fight a war to protect the USA. Once you set a precedent, what are you going to do in the next war?"



**Spec. 5 Jesse Royall, HHC Mircom**—"What are they doing about the draft resisters who joined the Army? Are they going to make any compensation for those of us who didn't desert the country? I think they should do something for us, let us out early or something. I feel slighted because they are giving them blanket pardon. Resisters should have to work or something, because if amnesty was granted once, what's going to stop them from doing it again?"



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**Master Sgt. Gerald Kitzmiller, Air Force Det.**—"I personally feel it's a slap in the face to all active duty military who served during that period. I am sure no one wanted to go, however they went and fulfilled their military commitment."



**Pfc. Richard James, Company C**—"I don't think that's right. I think it was ill-mannered to go to Canada to keep from fighting the war and now come back during peace time. If they wanted to go to Canada to stay out of the war, they should stay there and become Canadian citizens."



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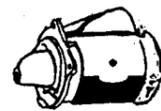
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FOR LEASE — 4000 sq. ft. retail business space. Very good parking. \$880/mo. 4 yr. lease required.

715 VERSAILLES, S.E. — 4 bedroom rancher, den with real brick fireplace, inside utility room, carpeted, draped, Spic and Span. On beautiful lot with private back yard. \$49,900.

BACKS UP TO TREES — Newly built lovely decorated home with all built-ins. Features 3 bedrooms, living room, country kitchen and more. Priced right at \$29,900. Located at 6213 Menifee Dr.

ONE ACRE IN SOUTHEAST — More plus features than you can imagine. 3 bedrooms, living room with cozy fireplace, extra large fun family room also has fireplace, garage with workshop. Beautiful 1 acre lot with lots of shade trees for beautiful summer days coming up. Priced at \$54,900. (210F).

TREASURES ARE NOT ALWAYS BURIED — Sometimes they are kept away at the end of a cul-de-sac nestled on a nice private lot. This 3 bedroom, two bath rancher has basement with large 2-car garage and laundry area plus storm shelter, and lots of storage room. Close to school, shopping and churches. Find it today by calling. \$36,990. (LC511).

A RETIREMENT DREAM — Want a cozy home to retire in? Then don't miss seeing this maintenance free, three bedroom, two bath home within walking distance to medical center, grocery stores, and church. A very pretty private back yard which is fenced. Inside laundry. Low utility bills. (M405). Only \$28,000.

SANDHURST PARK — features 3 bedrooms, 1 1/2 BATHS, ALL BUILT-IN APPLIANCES, CENTRAL HEAT AND AIR, FULLY CARPETED. And all at a very affordable price. \$25,950. Other brand new homes also available \$25,950 to \$26,800. (140105).

OLD TOWN AREA — 205 Dallas St. A truly fine older home. Built 1890-1900's, it features 2 bedrooms, living and dining rooms, 3 fireplaces. \$29,500.

TARA — Three bedroom ranch, with hobby room. Large eat-in kitchen and den combination. Fully carpeted. Nice floor plan. Only three years old. Equity \$14,500. Payments \$273.00.

BIERNE AVENUE, N.E. — This great little house has been completely redone with carpet, new floor in kitchen and bath, new kitchen cabinets and bath fixtures, walls and ceiling. 2 bedrooms, 2 bathrooms, kitchen, living room, dining or den, storm windows and double car garage. Outside painted last year and roof 1 year old. Large mature pecan tree in back. Total price \$17,400. Good Northeast location. (1414B).

WHITESBURG ESTATES — 1725 sq. ft. all brick 3 bedroom rancher featuring huge country kitchen/den combo, carpeting throughout, beautiful, large fenced lot. \$39,900. (M2113)

NORTHWEST DOLLHOUSE — This 3 bedroom brick rancher is in perfect condition. Completely remodeled 3 years ago, inside and out. 3 yr. old roof, 2 baths, living room, eat-in kitchen, living room den. Equity sale and assume payments of \$126 per mo. (M423)

TRI-LEVEL — 4 bedroom tri-level has 16x32 in-ground pool and a 13x25 foot sun room, deck with raised hearth fireplace. Formal living room, dining room, 2 1/2 baths and carpeted throughout. (E1922)

HAYSLAND — \$6,771 equity - 2100 ft. of comfortable living await you on this large corner lot. Living room, dining room, extra large country kitchen, huge den, 2 baths, carpet and drapes, three bedrooms and study or four bedrooms. Walk to Chaffee School. \$316.36 per month. (L8046)

BEAUTIFUL SEGOVIAN — on large cul-de-sac lot. Close buy not too close to community swimming pool and beautiful park and recreation center. 2744 sq. ft. of living area features 16x14 master bedroom plus 3 other, 12x14 entry foyer, den with fireplace plus a 24x21 rec room. Eat-in kitchen, inside laundry room, separate living room and dining room. Three baths. Double car garage. \$16,168 equity. \$55,300. (1903CM).

QUIET CUL DE SAC — This 3 bedroom home on a quiet street is ideal for children. Includes a study or hobby room, den, separate dining and living room, 2 baths, double car garage, privacy fence for patio and very nice landscaping \$12,300 equity and payments of \$221.88 per mo. (N10071)

GRISSOM AREA — Walk to Grissom from your own 2 acres and 3100 sq. ft. rancher that you'd have to see to believe. (BC7709) \$55,500.

OAK PARK S/D — Country kitchen in this spacious 4 bedroom two-story — popcorn in the corner fireplace in the den. Large tree studded corner lot has a beautiful view from the deck of Monte Sano Mtn. \$59,900. Assume 7 3/4% loan, pmts. of \$365.44. (20190).

WALK TO RIDGECREST SCHOOL — 3 bedroom tri-level home on large lot. Country kitchen, living room, downstairs den, 1 1/2 baths. Outside you will find 12x28 in-ground pool, large patio and redwood deck. (CV3204)

YOU GOTTA SEE IT TO BELIEVE IT! 36 ft. of kitchen cabinets and cupboards, 24x24 rec room, 12x24 den with stone fireplace, formal living with fireplace, formal dining room, built-in bookshelves and desks, breakfast room and breakfast bar, private patio with water fall and brick bar-b-que with charcoal and butane grills, double garage, quarry tile inside laundry with double sink. Oh yes! 5 bedrooms and 3 tile baths. \$59,900 (Rt. 1, OCR)

RAMBO RD. — 60 acres — Fayetteville, Tennessee. Basement 2,000 sq. ft. liveable with full basement, 60 acres good land. (30 in pasture and 30 wooded). Barn. House has 5 bedrooms, large den with fireplace, central heat and air. Carpets. Country kitchen. Total price \$68,500.

MCDONNELL SCHOOL — 1600 sq. ft. Tri-Level with 3 bedrooms, 1 1/2 baths, inside laundry room, large separate den, new deck, country kitchen. \$29,900. (S4031)

HUGE BASEMENT RANCHER — This 4 bedroom rancher has central heat and air, spacious entry foyer, large living room, rec room w/fireplace, den w/fireplace, fully modern kitchen with bar, 2 1/2 baths with heated floors, boat/camper pad, double car side entry garage and located on a 1 acre wooded lot with circular driveway. (12006R)

BRICK RANCHER — Rt. #3 Gunterville — Super nice 2000+ sq. ft. brick rancher with 2 beautiful acres, located in Arab School district. This 2 year old home has 3 bedrooms, 2 full and 2 half baths, large den/kitchen combination with beautiful fireplace, nice living and dining room, 1350 sq. ft. basement is unfinished but has fireplace and 1/2 bath. Beautiful deck overlooking small lake. Central heat and air — central vacuum and intercom. 32 beautiful acres can be obtained with this home.

MAYSVILLE — Beautiful custom built home on acre lot. Private master suite upstairs. 3 bedrooms and bath with sunken tub downstairs. Large den with fireplace. \$37,500.

2108 SHANNONHOUSE, S.W. — Sharp brick rancher on beautiful lot. Very clean 4 bedroom, 2 baths, large kitchen/den combination. Fallout/storm shelter with entry from garage. Priced right at \$41,900, pmts. \$156.77.

IMMACULATE, LOW EQUITY — This neat home on Sewall Dr. has 3 bedrooms, study, beautiful den with brick fireplace, living and dining "L", 1 1/2 baths, garage, large inside laundry, central heat & air. Newly decorated with very nice use of wallpaper and carpets. Equity \$9,600 & pmts. of \$233.17. (40105)

13015 COY'S DR. — Beautiful lot with trees. Four bedrooms, 2 1/2 baths, large eat-in kitchen with lots of cabinets, warm and wonderful den with fireplace. Fully carpeted. \$59,900.

DOUBLETREE — New Listing — 4 bedrooms, 3 baths, den with wall of bookshelves and raised hearth fireplace, breakfast area, custom drapes, end-opening 2 car garage on quiet cul-de-sac. \$60,750 (T7806)

WALK TO GRISSOM — from this huge brick rancher featuring 4 large bedrooms, 2 baths, formal living and dining rooms, huge foyer, inside laundry, large den with stone fireplace. Situated on 2 lots. Only \$59,500.

BRAVO — Beautiful 4 bedroom with pool and all equipment for \$51,500. Can be bought as low equity or be refinanced. (1929W)

LOW EQUITY — Choice Northeast location. 4 bedroom basement rancher, 3 baths, view of the city from the large deck. Wooded lot. Equity \$6,500. (BM2609)

10212 MELANIE — Super sharp and ready for occupancy. This beautiful 3 yr. old, 3 bedroom, 2 bath rancher with everything you could ask for in a home. Custom draperies, fireplace equipment, and electric garage door opener are just a few of the extras which come with this one. \$49,950 or equity and assume \$214 payments.

1606 BELAFONTE — A sharp 3 bedroom rancher. Beautiful plush beige carpet in living room, large den, kitchen with eating area. Located near Calvary Grade school in nice quiet neighborhood. \$19,500.

RUSTIC SETTING — This new split-level home is still under construction in Southeast. 3 plus bedrooms, 2 baths, foyer, living and dining, den with fireplace, spacious, fully equipped kitchen, inside utility and playroom, finished double car garage, central heating and cooling, rustic lot with some trees. \$46,500. (C13018)

\$6,009 EQUITY — Payments of \$134.16 this 3 bedroom has central gas heat, 1 large bath, living room, dining room combination, fireplace and new roof. Good potential as investment property. (3903G).

CONTEMPORARY — with stone fireplace, gorgeous carpeting in shades of browns and bronzes, high beamed ceiling, really lovely! Separate dining room, kitchen with eat-in room, cushion tile, pantry, 3 large bedrooms, beautiful wallpaper throughout. Drapes included. (Q12032)

HAYSLAND ESTATES — Price just reduced \$2,000 below VA appraisal on this magnificent 2 story Colonial close to schools and shopping. Four bedrooms, 3 baths, family sized den, separate living-dining, formal entry. \$49,900. (2015C)

HILL STREET — Walk to Montview Elementary School — Quiet Street — Frame rancher featuring large living room, 2 bedrooms, 1 bath, eat-in kitchen, inside laundry, fenced yard. Newly painted — Only \$17,900. (H2206)

MOORE'S MILL HEIGHTS — 140' x 145' lot with double wide mobile home. Completely furnished. Super clean and ready to move into. Many fruit trees and garden area. (R-2723).

ARAB — Brick rancher features large living room, cozy den, 3 large bedrooms, 2 full baths, large laundry room, single garage. \$35,000. Extra finished bldg. 621 could be office.

NEW MARKET — Exceptionally clean and well-kept home with 3 bedrooms (master king sized), large living room and separate dining room (12x20), 3 baths, family sized. Total price \$36,500.

ARDMORE, AL. — 2 acres with super sharp 12x70 mobile home. Must see to appreciate. \$11,500.

MARSHALL COUNTRY — 40 acres open land — Frame 6 room, 1 bath country home, one car garage. 1612 sq. ft. barn. Call for all the details. \$66,000.

ARAB, AL — New English Tudor — 3 bedrooms, den and rec room, fireplace, fully carpeted, located on lovely lot with 1/2 ac. of water front. Pool and tennis available. \$46,000.

SCOFIELD ST. HAZEL GREEN — 2 acres of wood land, will make excellent site for home or trailer site. 5 mi's south of Hazel Green. \$3,000.

ARAB — This nice brick rancher is located on over an acre with mature apple trees, city water. Living room, large family room, 3 bedrooms, 2 baths, eat-in kitchen, large laundry room, porch, in very good condition. Hilldale Subdivision. \$36,000.

NEW CONSTRUCTION — FOX RUN — Spacious three bedroom rancher with great room and large country kitchen. Fireplace, inside utility room and double garage. \$41,950. (C13010)

JUST LISTED — At 8909 Seaton Dr., S.E. sits a lovely three bedroom rancher with 1 1/2 baths, large den, big eat-in kitchen, lovely formal living and dining rooms, pantry, storage room, double garage, one of southeast Huntsvilles quietest and most desirable streets. (S8909)

2609 WILLENA DR. — In "Fox Run." If Quality Construction is important to you, let me show you this beautiful new home with such features as elegant dental mosaic, dark hardwood foyer floor, decorative wooden mantel over the fireplace in the country kitchen, 3 bedrooms, 2 baths. \$49,500.

CATACO — Custom built, all brick rancher under construction and 5 acres, all cleared for pasture (additional 9 acres, all wooded are available.) Floor plan has foyer, activity room with woodburning fireplace, separate dining, 4 bedrooms (or 3 and paneled study) master bedroom is 12x20, 2 baths, large utility room, double side entry garage, central heat and air. Perfect for horses and garden. \$59,000.

ELK RIVER SHORES — Here's an ideal year round home on the water. Features 3 bedrooms, 2 baths, rec room, two woodburning fireplace, 125 ft. water frontage w/dock and 2 boat sheds. \$53,000. (Rt. #2, Rogersville).

MOUNTAIN ROAD — Features beautiful 17 acres, all pasture, fenced cross fenced, 1/2 acre pond, permanent barn on concrete. Modern home built in "Old Fashioned Style" features unique rough pine siding, 3 bedrooms, large living room with huge fireplace, 1 1/2 baths. \$74,900 (Rt. #1, Brownsboro).

RT. 1 ARAB, AL. — 30 acres of nice rolling farm land with 2 frame houses plus barn and garage. Houses could be rented. Part of land in cultivation.

START OUT RIGHT — in the country. Two bedroom bungalow with large country kitchen plus central heat and air on an acre lot. In Owens Cross Roads.

HARVEST — Brick rancher, 3 1/2 acres, fenced and cross fenced, well and city water, 20x30 barn, storage shed, 3 bedroom brick rancher featuring den with fireplace, rec room and large country kitchen, inside laundry room. \$38,900.

COUNTRY ESTATE — Enjoy country living with city convenience in this beautiful 2-story brick home located on 22 acres at Chase Al. Features include 4 bedrooms, 2 baths, foyer with circular staircase, formal living room dining room, den with raised hearth fireplace. 22 acres is fully fenced with 2 ponds and 2500 sq. ft. barn and 600 sq. ft. tractor shed. Located on Jordan Rd. off Ryland Pike. \$159,000.

PATTERSON LANE — Business opportunity with beautiful home included. Beautiful 3 bedroom rancher with large den, living room, country kitchen and 2 car side entry garage. The business opportunity if a dog kennel with 864 sq. ft. of finished area and 24 dog runs. Designed for all types of dogs. All this is situated on 3 1/2 acres of land just 10 miles from downtown Huntsville.

14012 WYANDOTT, S.W. — Neat brick rancher, 3 bedrooms, nice large eat-in kitchen, built-ins plus refrigerator, 1 bath, carpet, central heat and air, fenced yard. Total price \$22,500.

HARVEST AREA — 10.22 acres, fenced with catfish pond. Permanent double wide trailer with garage and porch only 4 years old. Beautiful old trees. Trailer furnished. \$33,500. Rt. 1 Box 257B, Mason-Woodfin Road.

11TH STREET ARAB — Looking for investment property — This 16 acres is located partially in and partially out of the city limits of Arab. Excellent potential for subdivision, apartment complex or light industry.

ROUTE #1, ARAB, AL. — Country living can be yours in this 2100 + sq. ft. brick and frame rancher located on an acre wooded lot. Home features 3 large bedrooms, beautiful large den with a rock wall fireplace. Nice eat-in kitchen is fully equipped including refrigerator. Double carport, inside utility room, 3 porches, nice utility building.

CUSTOM BUILT - DOUBLE WIDE — on 15 acres of land, 4 bedrooms, 2 1/2 baths, kitchen/den combo, living and dining "L", inside laundry, carpeted throughout except kitchen and den, storm windows, school bus stops in front of property, central heat and air. Mobile home situated on concrete piers with hurricane tie-downs. Frame farm house on property. Beautifully decorated. \$36,800. (Lester, Al.)

LAKE LIVING — can be yours for a small equity and the assumption of an existing loan, with no qualifying. 3/4 acre with boardhouse, pier, and all the "fixins" including 1675 sq. ft. of living area. (Box 626CC)

PRESTON ISLAND — WONDERS of the ever changing PANARAMA of the skies and mountains, sunny summer days, twinkling nights and wintry storms, and blue waters will enhance you as you laze on your deck. The home is located on 2 acres atop a knoll overlooking Gunterville Lake. 19 acres close to the house with access to water for your boating and ski enthusiasts. 3 bedrooms, 2 baths, inside laundry, central heat and air, refrigerator, washer and dryer remain. Fireplace in den. City water. Better not wait — \$35,000.

WANT A LAKE VIEW? Try Riverbend Condominium #21. Sit on the deck and enjoy your view from the choice lot on the lake! Sheer luxury is yours when you retire to the inside. Two bedrooms, 2 1/2 baths, fireplace. Inside laundry area. A perfect piece to get away from it all! \$47,500.

ACREAGE & LOTS

IN BIRMINGHAM AREA on golf course. Investment potential. \$11,400.

38 ACRES — Ardmore Hwy. 11 miles North of Monte Lake Rd. — 80% cleared, 90% cultivatable, 10% trees. \$49,900.

ARDMORE, HWY. — 3 1/2 acre lot located on Ardmore Highway, 10 miles North of City. Priced at \$9,000.

MADISON — Lot for sale. 600 ft. fronting on Sullivan Rd. in Madison Al. Zoned B-3. Call for details.

67.4 ACRES TIMBERLAND — Gurley \$200/Acre

24.6 ACRES — 9 miles South of Tennessee River Bridge, city water, fenced and cross fenced. \$25,000.

5 ACRES — Bo Howard Rd. \$11,000.

STATE LINE RD. — 42.6 Acres level land, 50% wooded, 50% cleared and tillable \$46,700.

5 ACRES — Kelly Spring Rd. \$11,000.

JOPPA — 37 acres located on paved road 2 miles Southwest Arab. City water, hardwood and pines. \$31,450.

29.5 ACRES — Telephone Tower Rd., Brindlee — Beautiful building site located on 2 sides by road, fenced on other 2 sides. \$32,800.

42 ACRES — 34A productive pines. \$22,500. Cullman County. 4 or 5 ACRE TRACTS — \$1,250 - \$1,500 per acre. River Rd. Lacey's Spring.

40 ACRES — Paint Rock Valley. 2.5 acres in pasture. Rest in mountain side. \$6,000.

23 ACRES — Paint Rock Valley — In permanent pasture and fenced. Level. \$17,500.

650 ACRES — Paint Rock Valley — 180 Acres in permanent pasture. Fenced and cross fenced. Barn, loading pins, automatic Hardwood trees, natural lake, everlasting springs, Cleavette waterfall — bluff line, mountain top with rich sandy soil. \$215,000.

2 ACRE LOT within a stones throw of the Tennessee River. Perfect for mobile home or weekend place. \$3,000 or make us an offer.

ARAB, AL. — Lots 4 and 5 Montdale Subdivision, \$1,200 ea.

PINE LAKE VILLAGE, ARAB — \$4,600 to \$6,600.

POINT AQUARIUS — High lot on col. lake overlooking Logan Martin Lake. \$9,386.33.

END OF CHAMBERS DR. — Large Northeast Huntsville lot. \$15,000.

BLOSSOMWOOD AREA — 3 beautiful mountainside, 1 1/2 acre back-to-nature lots in Mountainbrook area. \$12,500 ea.

RIVERVIEW ESTATES — 159'x320' located near Tennessee River in Morgan County. \$2,950.

BEAUTIFUL VIEW off Tea Garden Dr. Blasted and prepared for building. Price \$17,200.

HAZEL GREEN AREA — Nice lot for trailers or home site. 2 acres. Priced at \$5,000.

26 ACRES — Toll Gate Rd., N.E. — Zoned multi-family overlooking Huntsville.

40 ACRES — Huskey Middle Mt. area. Hilly wooded land, 15 min. from Huntsville, dirt road through property, great view. \$700 per acre.

47.24 BEAUTIFUL, rolling acres located 7 miles south of Union Grove and 4 miles north of Arab. Approximately 30 acres in cultivation. This property is unique in that it has over 1 mile of road frontage. Tremendous investment.

32 acres — Rt. #3 Gunterville — Beautiful 32 acres of rolling farm land located on the edge of Brindlee Mountain in Arab school district. Approximately 30 acres in Bermuda, Fescue and Clover. 2 acres in woods. Approximately 25 acres can be row cropped. This farm is completely fenced and cross fenced with metal fence posts, has a large new barn and 2 stocked ponds. Beautiful brick home with 2 acres is also available.

1403 Big Cove Road, S.E.

2500 square foot basement near Medical District, with 5 bedrooms, 3 baths, den and rec room with fireplaces. Wet bar in rec room. Lovely lot and view. Priced in the 70's. Come by and make this owner an offer!

1903 Crepe Myrtle Green

SPACE TO SPARE OR TO SHARE. There's plenty of room here for the large family or for the folks that love company. 2744 sq. ft. of living area features 4 bedrooms, three baths, family room, with fireplace on the first floor for you to relax in. Then when company comes you'll enjoy entertaining them in the rec room that is upstairs. Of course, there are extras like wall to wall carpet, wallpaper, and a large private yard. The owners are anxious to sell this home so take a look today! \$55,300.

INVESTMENT PROPERTY

"TREASURE CHEST" — An investors dream, 7 duplexes, 1 triplex. Features 17, two bedroom units, individual central heat and air, separate yards, stove and refrigerator in each, inside laundry. An honest 12% cash on cash return. 9 ACRES on Newton Rd. Zoned 2A.

NEAR MALL — with 200 ft. frontage on Pulaski Pike. 2.5 acres. \$90,000.