

Jurors hear testimony in federal fraud trial

BY SKIP VAUGHN

Twenty-one witnesses testified during the first week of a federal trial for four people charged with conspiracy to defraud the government.

John William Chambers and Roddy Hoyt Moody, two Missile Command employees at Redstone Arsenal, and Betty Ruth Laird and Billy Norman Brown went on trial before U.S. District Judge Sam Pointer and a jury in Huntsville. Testimony was to continue Monday morning.

Laird and Brown were representatives of Laird Enterprises of Huntsville which had a contract to

prepare "camera ready" manuscript pages for the Army. Chambers, chief of the technical information office of Army Missile Lab, and Moody, who worked under Chambers, would see that the work was done under the contract.

Government prosecutors allege Laird and Brown submitted "false and fraudulent" vouchers for payment and that the vouchers were approved by Chambers and Moody "knowing them to be false and fraudulent." The claims allegedly over-stated the number of pages done and were for unauthorized work including view-graphs and picture frames.

Each defendant has his or her own defense

lawyer. They contend the bills were proper and correct, the view-graphs were done by other companies on prior contracts, and picture frames were ordered for paintings for arsenal generals.

A 14-member jury, including nine men and five women, was selected to hear the case in the courtroom at the federal post office building downtown.

At issue is a 22-count indictment returned last September by a federal grand jury in Birmingham. All four defendants are charged with conspiracy to

(Continued on page 10)

The Redstone Rocket

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Pershing II buy worth \$87 million

The Army Missile Command has awarded \$87 million to Martin Marietta Aerospace at Orlando, Fla., for initial production items for Pershing II, the Army's most powerful battlefield missile.

This initial FY 82 buy is for critical, long-lead-time items with Martin performing most of the work at its Orlando facility. The cost plus incentive fee contract covers 18 months.

Pershing II is an evolutionary improvement to the Pershing 1A currently operational in Europe with U.S. Army and Federal Republic of Germany troops and will increase accuracy by more than an order of magnitude and more than double the range.

Pershing II will be deployed in the mid 1980s.

Pershing II accuracy is achieved by a terminal guidance technique called Radar Area Correlation. As the missile reentry vehicle descends in the target area, the guidance unit compares radar images with stored images and makes course adjustments until the views coincide, producing almost pinpoint accuracy.

Col. William J. Fiorentino is the Army's Pershing Project Manager at Redstone Arsenal, Ala., and Clarence Tidwell Jr., is his civilian deputy.

Bring on the trash!

A solid waste incinerator that will burn trash to produce steam for heating is being built at Redstone Arsenal.

"We'll burn solid waste from arsenal offices, family housing — anything burnable will be fed into the incinerators to generate steam," said Joe Dickey of Facilities Engineering. He and Ray Washburn are construction engineers for the incinerator project.

A site has been cleared and work is about to begin on the incinerator. It is being built just north of Mills Road behind Bldg. 5414, a convenient location for tying into existing steam lines, the engineers said.

The incinerator will be housed in a 15,000 square foot metal building. "It's really a boiler house with three incinerators and boiler equipment," explained Washburn.

There will be a separate boiler for each incinerator. "It's a standard boiler that uses refuse as fuel rather than gas, oil or coal," Dickey added.

Steam generated from burning trash will be fed into the arsenal's regular steam system for use in heating buildings. The three boilers will each have a capacity of 10,000 lbs of steam per hour and may be able to meet a substantial portion of the arsenal's requirements for steam in summer, when 40,000 lbs per hour are needed. Winter time usage is 150,000-180,000 lbs. per hour.

Air pollution regulations will permit the incinerator to burn up to 50 tons of refuse per day, which is "in the ball park" for the amount of burnable solid waste that is generated on the arsenal in a day, said Ron Harmon, chief of arsenal utilities.

He said the incinerator will lower the cost of operating the arsenal sanitary landfill and will also extend its life. "Instead of taking the trash to the sanitary fill, packing it down and covering it up, we will bring it here (to the incinerator) and burn it." Incinerating the trash will also cut down on bacteria and rats at the landfill, Harmon said.

Ash from the incinerator will be buried in the

(Continued on page 11)

King birthday programs scheduled Friday

A former associate of Dr. Martin Luther King Jr., and a local university educator will speak here Friday at memorial programs for the late civil rights leader.

Nelson H. Smith Jr., a Birmingham minister and officer in King's Southern Christian Leadership Conference will speak at the MICOM annual birthday dinner Jan. 15 at 11:30 a.m. at the Officers Club. Smith worked with King in SCLC, is on its executive board and is a past president of the Birmingham SCLC chapter. He is pastor of New Pilgrim Baptist Church and has been widely recognized for church, community and civil rights leadership.

In an afternoon program at the post chapel at 3 p.m. Dr. Homer McCall, assistant professor of English at Alabama A&M University, will be keynote speaker. "There will also be a program of special music . . . and a special offering will be taken for the Martin Luther King Jr. Center for Social Change in Atlanta," said Chaplain (Maj.) William Bateman. He added that brochures describing activities that will be going on here in

February for Black History Month will be available.

The public is invited to attend both programs. A few \$6 tickets for the dinner program are available. Bettie Toney, 876-2076, has them for sale. The afternoon service at the post chapel is free

Civilian Personnel is sponsoring MICOM's King birthday dinner program this year. Program arrangements were handled by Bettie Toney, Ed Hope, Carolyn Tripp, Emmett Florence and Dr. Ted Dixie. Several key figures from the local military and civilian communities are scheduled to be on the program.

'I have a dream of a time when the evils of prejudice and segregation will vanish'



Dr. Martin Luther King Jr. 1929-1968

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1982

Commander talks priorities



To all members of the MICOM family:

I am not much for New Year's resolutions, but I do want you to know my priorities for MICOM and its people in the year ahead.

We can look back on a year of solid accomplishment. This command put two weapons — Stinger and Improved TOW — into the hands of our soldiers in 1981. Late in the year we got a production go ahead for Viper and have just awarded the first production buy for Pershing II. MLRS and Hellfire are phasing into production and soon will add their vastly improved fighting capabilities to our Army.

Many individual team members were honored for singular personal achievements. We proved we are a concerned people by our participation in a record-setting Combined Federal Campaign. Working together, we made major productivity gains. Now, with the foundation of our people programs firmly in place, we must continue to improve our productivity as a team while simultaneously offering

opportunity to each member to develop and grow, and we will.

I have challenged managers and supervisors and challenge each of you to devote yourselves during 1982 to better understand what you do as an individual, where you fit in your organization and what your organization contributes to the team. The synergistic effect that has always made MICOM a whole that exceeds the sum of its individual parts is the real key to achieving the further productivity gains we must make in 1982.

As part of an Army committed by our Chief of Staff to goals of near-term readiness, mid-term modernization and long-term sustainability, our every thought and action must be correlated to what is best for the Army because that is what is best for MICOM.

We have much to do in 1982: backing the readiness of our combat forces; fielding and supporting new systems and that most particularly includes Patriot, fielding Patriot is MICOM's job too; advancing promising new technology — FOG-D, SPIKE, lasers

and others. Most important: we must, simply must, win the fight to control the cost of our systems. I believe we can do that, in part by:

— Carefully planning our acquisition strategy on major systems and sticking to it.

— Doing our thinking in design when change is easy rather than in production, when change drives costs out of sight.

— Finding better, more versatile uses for fielded systems and those already funded.

— Re-educating ourselves and our supporting contractors in affordable ways to build the new weapons that promise so much in improved combat capabilities yet cost far too much to make in quantity.

— Dedicating ourselves to cost reduction in design and production with improved value engineering that will at least offset the increases caused by inflation and reverse the trend of buying less with more.

Finally, this bears repeating and

remembering: the U. S. Army has before it a historic opportunity, one that will not come again soon, if ever, in peacetime. Our commander-in-chief and the great majority of the American people recognize, understand and support the need to modernize the U. S. Army. More, they have given us their trust, the priorities and the resources to do that at considerable sacrifice. We must prove worthy of that trust.

MICOM has an enormous amount of money — some \$4.5 billion dollars — to obligate in FY 82. Three months are already gone. We must spend each of these dollars and accomplish our program by buying a full dollar's value in weapons and equipment for our soldiers. That is the major challenge each of us and each of the contractors who support us faces in 1982. It is a challenge we must meet. Doing that we will have done our duty, done our part to maintain the military balance that means peace.

Robert L. Moore
Major General, USA
Commanding

THE REDSTONE ROCKET

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WASHINGTON — In a news conference held Jan. 7, President Ronald Reagan announced his decision to continue the selective service registration requirement for eligible males.

The president made the announcement after reviewing the work and recommendations of a special military manpower task force set up to examine the registration issue as well as other issues affecting military manpower.

"I have not received the report of the task force and the recommendations of its members," stated Reagan. "On the basis of their findings, I have decided to continue registration."

The decision means that young men, on reaching their 18th birthday, must provide their name, address, and Social Security number to the selective service or at any U.S. Post Office.

"Late registrations are being accepted," said Reagan, "And I have instructed the Department of Justice to make provision for a grace period for late registrants." (Arnews).

E7 board-selects by MOS

WASHINGTON — The HQDA selection board for promoting soldiers to grade E7 is meeting Jan. 7 through Feb. 12, 1982. Its choice of best-qualified soldiers will be made by military occupational specialty rather than by career management field, say DA military personnel officials. This is a departure from the more recent practice under the enlisted personnel management system.

The board will act under the following guidelines: — where possible, best-qualified soldiers will be chosen in their normal career-progression specialty as indicated in AR 611-201.

— Best-qualified soldiers who exceed the requirement of their primary specialty will be selected for

promotion in (1) their secondary specialty if a requirement exists; (2) in a substitutable specialty if a need exists; or (3) in another specialty that progresses to the same specialty at grade E8 as their normal progression if a need exists. The latter two options would be offered for voluntary reclassification and retraining as necessary to gain skill level 4 proficiency, say officials.

In the future, this one-time MOS approach will yield to proponent-developed guidelines tailored to specific CMF considerations.

Results of the boards action are expected some time in late May or June, say officials. (ARNEWS)

Processing stations get new name

WASHINGTON — The Defense Department has announced it will rename the military's 67 enlistee processing stations to allow closer identity of the stations with their parent organization.

Now called the armed forces examining and entrance stations (AFEES), the centers will become military entrance processing stations (MEPS) on Jan. 1. This change, officials note, also will help avoid future confusion of the AFEES with the

unrelated Army and Air Force Exchange Service (AAFES).

The processing stations, under headquarters, U.S. Military Enlistment Processing Command (MEPCOM), are located throughout the United States and its territories. They are used to conduct aptitude testing, medical exams and administrative processing of all enlistees into the various branches of the U.S. Army Recruiting Command.

Civilian recreation area gets new boat ramp, docks

A new boat launching ramp and docks head a list of improvements underway for the civilian recreation area.

Construction of the launch and dock facility is "under contract to be started any day now and hopefully finished in time for use this summer," said Dave Bryant, a planner with Facilities Engineering where the design work was done.

It is being built in the southwest corner of the recreation area in a harbor "to provide calmer water for launching," said Bryant. "You will be able to put your boat in the river and avoid the river current that sometimes gives you a problem with launching."

There will be a launching ramp 30 feet wide and 60 feet long with a stationary dock measuring 6 feet by 47-feet, and a floating dock for mooring that measures 6 feet by 66 feet.

Bob Lipscomb, chairman of the Civilian Welfare Fund Council which operates the recreation area,

said new covered picnic areas will be in place in time for the recreation season.

The covered areas are being set up along the river. The recreation area's eastern boundary has been extended upriver to provide more picnicing and playground space.

With the improvements Lipscomb expects use of riverside picnic facilities by organized groups to increase, and he said it will soon be possible to reserve picnic areas.

"We hadn't been reserving the river area . . . you just went ahead and used it. But now with the covered areas we'll have to start reserving," Lipscomb said. The procedure that will be used to reserve picnic areas hasn't been determined at this time, he added.

"We can't run it like a backyard thing anymore, and have to get a little better organized, continued Lipscomb, noting that 24,000 people signed the civilian recreation area guest register in 1980. A count for 1981 isn't available yet but should be larger, he said.

Most of the people come on weekends and holidays and many come in office groups of 200 or more, Lipscomb said. A number of family reunions are held too, he said.

There is a caretaker at the recreation area during May through October on weekends, holidays and weekdays after work. Civilian recreation area facilities can be reserved by calling the caretaker at 876-6862 or, if no answer, by calling Lipscomb at 876-5274. He recommends reserving the Rustic Lodge two months in advance if a weekend or holiday date is wanted.

There is no charge for using the civilian recreation area, except for the Rustic Lodge where 50 cents per adult is charged.

The civilian recreation area also has sports equipment available. "Just about anything you'd use on an outing" including horseshoes and volleyball, softball, badminton and basketball equipment can be checked out, Lipscomb said. He said there are no facilities for camping but many people have requested that some be set up.

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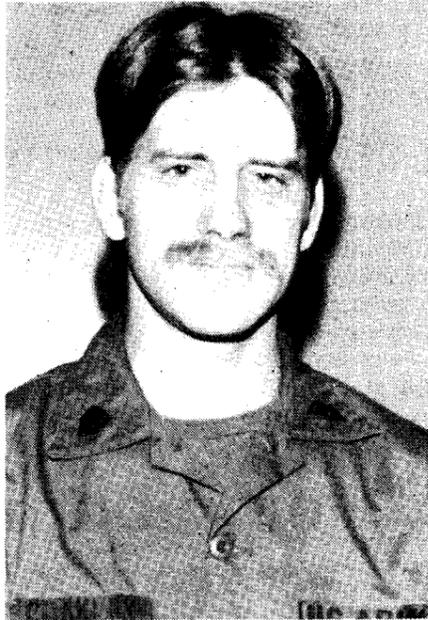
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TROOP TALK

How are you treated as a customer or patient at arsenal facilities?



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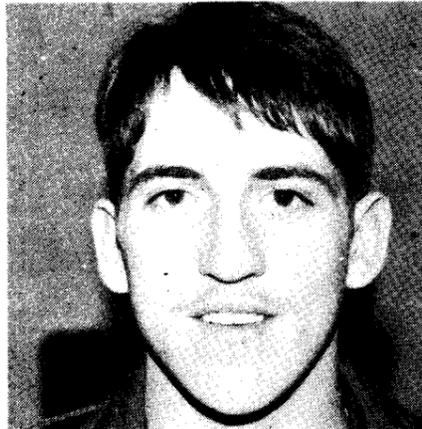
Sp6 William E. Coakley, 95th Svc. C. — "This is the second time I've been here (Troop Health Clinic). Twice, for the same thing and the medicine they gave me doesn't work. The medics treat you with respect most of the time. I think there has to be a different time scheduled for permanent party and students to avoid the rush in the morning. Some of the civilian doctors ought to be evaluated at the hospital here."



SSgt. Stratton F. Aona, 515th Ord. C. — "As far as the P.X., the treatment about the same as the department store downtown with the slogan 'The customer is always right.' As far as the treatment at the hospital, they treat the patient like a civilian hospital downtown would with a little more concern. They are more attentive and don't try to rush you. Basically, I have no complaints of the services here, none at all."



SSgt. Charles E. Wesley, HHC MICOM — "I am treated very well, no problems what so ever."



Pvt. 2 Robert A. Lauer, 4th S.C. — "I get treated pretty good. When you go to the commissary and need help they assist you anyway they can. The service here is much better, the people are alot nicer than at the other places I have been."



Pvt. 1 Earl J. Price, 8th S.C. — "I'm getting treated very well, but I'm not getting enough change back. The P.X. is cheaper, smaller, and nicer here. There is not too much selection in the music section at the P.X. They treat you like you treat them."

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Customized scooter saves cash

BY JEANNE LANZARO

That scooter that appears to have tentacles reaching in every direction and gadgets clinging to its sides, probing down the streets of Redstone Arsenal's housing area, isn't a lunar lander out of orbit. It's simply a housing maintenance concoction.

"Last summer we turned in a half-ton truck used for plumbing jobs and we were given a scooter vehicle in its place," said Jimmie Hogan, maintenance mechanic for the Housing Maintenance Office.

"To make the scooter adaptable for plumbing jobs, we had to improvise," added Dean Curry, shop foreman. "Work goes on," said Hogan, "so I made the designs for the ladder rack and the sheet metal and welding shop put it together."

Hogan also designed the bins in the back of the scooter to house the tools and equipment. The scooter has tool boxes mounted on its sides and ladder stretching across its top. A pail, hose and mechanical plumber's "snake" are among its decorative ornaments.

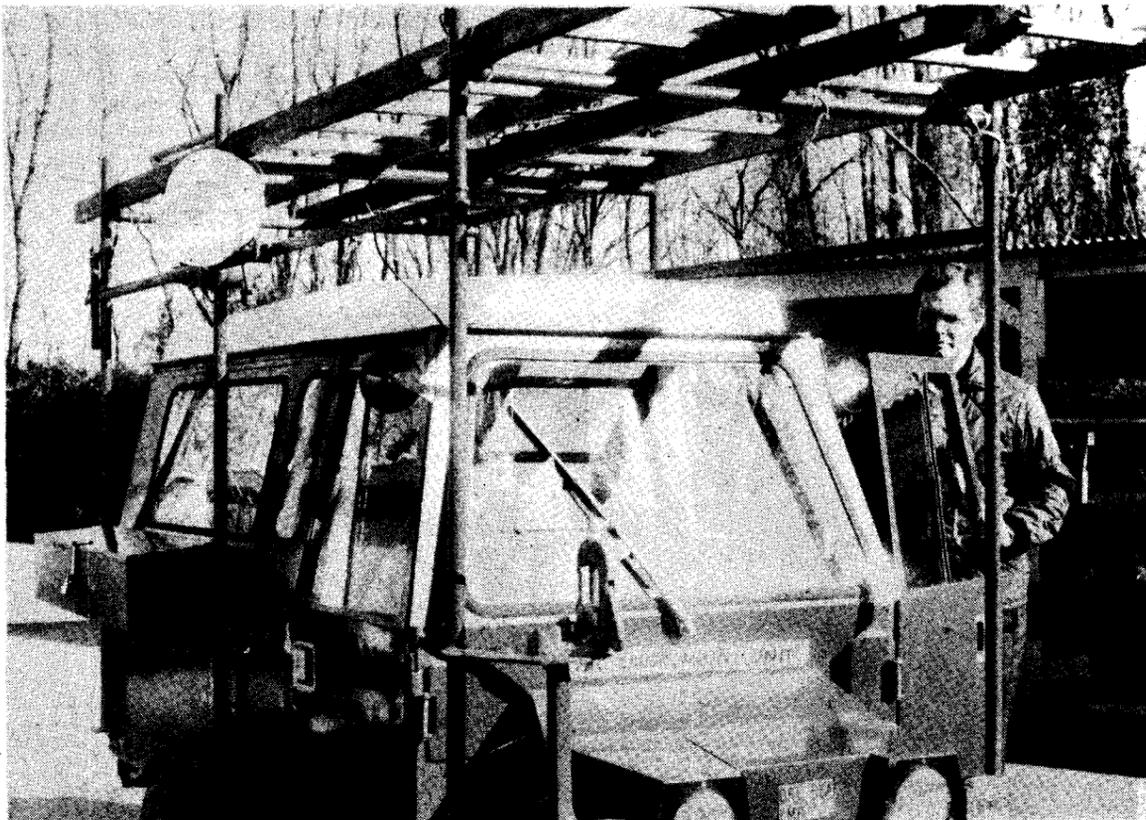
The post has eight similar scooter vehicles on hand, according to Jerry Quinn, an automotive equipment specialist for the Equipment Management Division. Security and civilian guards use them to, he said.

DARCOM initiated the program to replace trucks with scooters for economy reasons Quinn said. "The plumbing scooter gets 15 miles per gallon, while the half-ton only got 11. In addition, the operating cost for the scooter is ten cents a mile, compared to 30 cents for pick-ups.

"Geographical distances involved in the layout of Redstone hinders the widespread use of these vehicles," he added, "but they do well for small distances."

Hogan chuckled with pride when asked to describe his invention. Other members of the housing maintenance team agreed "it's something else."

Don't be surprised when you see this strange vehicle passing by. It's only Hogan's creation on its way to conquer another plumbing problem.



Form follows function

Jimmie Hogan boards his personally designed creation before heading to the post housing area to conquer another plumbing problem. This scooter is

part of an economy program used by the housing maintenance office. (Photo by Jeanne Lanzaro).



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Selective bonuses on installment plan

WASHINGTON — Army officials have announced that bonuses under the selective reenlistment bonus (SRB) program will be paid in installments beginning Jan. 15. The bonuses heretofore have been lump sum payments.

With the change, soldiers can collect up to 50 percent of the total bonus due when they reenlist in military occupational specialties eligible for the SRB. The remainder will be paid in equal amounts over the reenlistment period.

Lump sum payment of SRBS will continue until the new procedure takes effect. Payments, however, will be based on Oct. 1, 1980 pay rates and will not reflect the new pay raise. Oct. 1, 1981 pay rates will apply in determining bonus amounts with

implementation of the installment system.

Three separate reenlistment zones have been established under the Army's SRB program for soldiers experienced in critical and shortage skills. Zone A covers reenlistments of soldiers with 21 months to six years of service. Reenlistments for soldiers with six to ten years of service are included in zone B. Those reenlisting between the tenth and fourteenth year of active service fall under zone C.

SRB bonuses range from \$2,000 to \$16,000, depending on specialty. Amount of payment is based on length of reenlistment, a bonus multiplier allowed for the specialty and the soldier's rank at time of reenlistment. SRB policy is outlined in chapter 9, AR 600-200.

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Insurance forms may need checking

WASHINGTON — Soldiers enrolled in the government's increased group life insurance programs may want to submit new forms designating how the insurance is to be paid.

Veterans administration officials advise that unless a new form specifies how shares should be paid, an insurance claim will be based on the old form already included in the soldier's personnel records.

The Servicemen's Group Life Insurance (SGLI) and the Veterans Group Life Insurance (VGLI) programs both increased Dec. 1, 1981, from \$20,000-maximum coverage to \$35,000 for active duty soldiers, reservists and veterans. Active duty members were automatically enrolled for the maximum coverage on that date even if they had reduced coverage or no coverage under the old rates.

Officials explain the blanket enrollment of active duty soldiers assured that everyone who wanted coverage would have it. However, soldiers may withdraw from the program or reduce the amount of coverage at any time by submitting DD form 93 and VA form 29-8286 to their local finance offices.

SGLI may be secured in increments of \$5,000 for 75 cents. Under the new coverage, soldiers pay \$5.25 monthly for the full \$35,000 maximum coverage.

Reservists who qualify for full coverage pay the same rates as those soldiers on active duty. The premium for part-time SGLI coverage is \$3.50 yearly for \$35,000 insurance. Retired reservists, on the other hand, pay according to age.

The VGLI's five-year insurance plan is available only to SGLI holders who leave the military. The higher rates affect soldiers separating from the Army on or after Dec. 1. (ARNEWS)

Chaplains film wins

WASHINGTON — The U.S. Army Chaplain Board won a silver medal in the "religious themes" category at the 24th annual International Film/TV Festival of New York. From 4,000 films making up the competition, "taking care of our own" won second place in its category. The film is due for release soon. It deals with the lives of three soldiers and their inability to cope with loneliness. (ARNEWS)

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Soldiers make daring rescue in snow storm

WASHINGTON — A daring rescue of plane crash victims in the snowy mountains of Colorado recently made headlines across the country.

Although not the first such mission for the Army's Medical Assistance and Safety Team (MAST) crew of CWO John Pariury of Fort Carson, Colo., it is one they'll long remember. Pariury and crew members of the 571st medical detachment were dispatched from Fort Carson upon the locating of four survivors of a Christmas eve plane crash in the mountains near Beuna Vista. 1st Lt. Gary Buhler co-piloted the helicopter; Sgt. Daniel Redd served as crew chief, and Sp5 Brent Evans as medic.

Search teams had located Gary Meeks, 18; Darren Meeks, 15; their stepmother, Patricia; and the plane's co-pilot, Steve Smart, in the wreckage of their private plane. They were suffering from frostbite and exhaustion. The boys' father and pilot of the plane, Gary Meeks, having left the scene on foot shortly after the accident in search of help, could not be located.

Pariury and his crew had planned to buy some time for the survivors by dropping them food and clothing since the weather made landing in the area too risky. But as they were leaving they looked back and saw the survivors waving. They decided they couldn't leave them there another day.

Putting the Huey copter down on a small rock ledge on the rugged mountainside about 200 yds from the wreckage. They began evacuating. Hours went by, and the weather grew worse. After trudging through heavy snow in high winds with the boys and their stepmother, they realized they would have to leave while they were still able. They had to leave Smart behind with other rescuers for transportation to safety the next morning.

Taking off was no easier than landing. It wasn't until the mast copter recovered from the nose-down lift-off and the crew had things under control, that they could see the lights of nearby Salida, Co., and knew they had made it.

Pariury told the "Colorado Springs Sun" that he felt bad about leaving Smart behind, but if he hadn't they would still be up there, he said. "I've been shot at with missiles and what have you in Vietnam, and I'd rather go back to doing that than do this again."

Smart was carried out by Rescue personnel in a six-hour trip the following morning and taken by vehicle to Buena Vista. (ARNEWS)

Drill sergeants sought for Reserve

WASHINGTON — Army reservists who wish to become drill sergeants are encouraged to apply for an eight-week drill sergeant course conducted at Fort Leonard Wood, Mo., Fort Knox, Ky., and five other stateside posts.

and must be hardstripe NCO's. Specialists who have been appointed as acting sergeants by unit orders may apply also.

Other details and requirements are found in TRADOC regulation 350-16 and 600-200. (ARNEWS)

Applicants must be in the grade of E4 or higher

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INFORMATION: Telephone (205) 837-9726.

11-561 INFRARED SYSTEMS Sat. 8:00-12:00 noon
 An introduction to the theory, hardware, and applications of infrared systems. Instructor: Raymond C. Watson, Jr., M.S.E.; Southeastern Inst. of Technology

11-614 MICROWAVE ELECTRONICS TT 4:30-6:40 p.m.
 A study of the theory and operation of microwave devices and circuits. Instructor: Richard E. Lawrie, Ph.D.; Triad Microsystems, Inc.

11-672 ADVANCED RADAR SYSTEMS II MW 4:30-6:40 p.m.
 A detailed study of selected advanced topics in radar systems. Instructors: Stephen M. Gilbert, Ph.D.; Marcus J. Bendickson, Ph.D.; both of Dynetics, Inc.

14-511 STRESS ANALYSIS TT 6:50-9:00 p.m.
 An introduction to the analysis of mechanical stress. Instructor: Geoffrey L. Hearne, M.S.E.; Teledyne Brown Engineering

17-505 COMPUTER PROGRAMMING II MW 4:30-6:40 p.m.
 An intermediate study of FORTRAN and an introduction to other languages. Instructor: Maurice M. Hallum, III, D.Sc.; U.S. Army Missile Command

17-506 PROGRAMMING LABORATORY I & II *TT 6:50-9:00 p.m.
 Guided, hands-on practice in computer programming. Credit 1.5 units, fee \$100 per part. (*) Primarily hours arranged. Instructor: John L. Montgomery, B.S.M.E.; Dynetics, Inc., and FACTOTUM

17-544 COMPUTER SYSTEM ORGANIZATION MW 6:50-9:00 p.m.
 An introduction to the organization and operation of digital computer systems. Instructor: J.B. White, Ph.D.; NASA Marshall Space Flight Center

17-672 SOFTWARE RELIABILITY TT 4:30-6:40 p.m.
 A study of the reliability aspects of computer software production. Instructor: Carl G. Davis, Ph.D.; U.S. Army BMD Advanced Technology Center

21-623 STRATEGIC MANAGEMENT TT 6:50-9:00 p.m.
 A seminar on decisions and actions needed to achieve organizational objectives. Instructor: Donald Jackson, Ph.D.; U.S. Army Missile Command

21-641 HUMAN BEHAVIOR IN ORGANIZATIONS TT 4:30-6:40 p.m.
 A study of the behavior of people in work situations. Instructor: Danny E. Blanchard, Ph.D.; Huntsville-Madison County Mental Health Center

24-553 CONTRACT COSTS AND CONTROLS MW 4:30-6:40 p.m.
 An introduction to cost principals and controls for government contracts. Instructor: Carl R. Gallimore, M.A.; Defense Contract Audit Agency

24-616 LEGAL ENVIRONMENT OF BUSINESS MW 6:50-9:00 p.m.
 An examination of the legal environment of business and commerce operations. Instructor: Gary L. Rigney, J.D.; Attorney at Law

27-673 MANAGING ENGINEERING FUNCTIONS ... Sat. 8:00-12:00 noon
 A seminar on management functions in engineering organizations. Instructor: Julian S. Kobler, J.D., D.Sc.; Management Consultant

31-621 METHODS OF OPTIMIZATION TT 6:50-9:00 p.m.
 A study of mathematical methods for optimizing quantitative relationships. Instructor: Thomas P. Tytula, Ph.D.; U.S. Army Missile Command

34-649 HIGH-ENERGY LASERS MW 6:50-9:00 p.m.
 An examination of high-energy lasers and their applications. Instructor: Thomas G. Roberts, Ph.D.; U.S. Army Missile Command; Guest Lecturers

SHORT-TERM COURSE

11-617 MILLIMETER-WAVE SYSTEMS April TBA
 An intensive study of the theory and applications of millimeter-wave systems. Instructor: James C. Wiltse, Ph.D.; Georgia Institute of Technology. Fee: \$500

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Trial

(Continued from page 1)

defraud the government by obtaining payment of false and fraudulent claims. Counts two and three charge Laird, Brown and Moody with submitting a false claim; and counts four through 22 charge Laird, Brown and Chambers with submitting a false claim.

The alleged offenses occurred from November 1978 to March 1980, according to the indictment.

H. Grady Thrasher, a procurement team chief and contracting officer for Procurement and Production Directorate, was the first witness called by assistant U.S. attorneys Mike Rasmussen and Ann Robertson. He testified Laird Enterprises bid for and won the contract in April 1978 to prepare technical documents at \$12.87 per page.

The contract had no reference to view-graphs or picture frames, Thrasher testified, and it was extended by a set-aside contract awarded by the Small Business Administration. That contract was similar in its scope of work.

Thrasher testified that his contracting officer representative in Chambers' office was responsible for counting the pages submitted by Laird Enterprises.

Jan Brooks of New Market, Ala., testified she got a job with Laird Enterprises in July 1978 as a file clerk and Brown's secretary. She kept a log book of incoming technical documents.

DISSERTATION

She testified she saw work sent to the arsenal that was incomplete, but had no personal knowledge of double billings for work. She said she was told by Mr. and Mrs. Brown that a dissertation for a doctorate degree would be included in the bill to Chambers' office.

Brooks also testified she understands that a car was "given to" Moody as a birthday present from Laird but that she never saw a car of any kind. She said she was fired in May 1979 for alleged security violations although security at Laird was "very lax."

John Craig, chief of the commercial pay section in MICOM's Finance and Accounting Directorate, testified about a voucher book that included records of checks paid to Laird from 1978-80. The book was admitted into evidence.

The next witness called by the prosecution was James Michael Ivey, a DARCOM intern in supply management who is attending school at Texarkana, Texas. Ivey testified he was a GS-3 clerk in the mail room when he was moved to the technical information office to help Chambers.

Ivey testified he was told, upon moving to that office in March or April 1979, that he would be a contracting officer representative. He said he did the same work as Moody, who left for a temporary duty assignment. This included passing work to Laird Enterprises, the contractor, and receiving work from the contractor.

"I would describe Laird's performance as inadequate and I would describe the way the contract was handled in our office as not being as professional as it should be," Ivey testified.

FBI AGENT

Tom Wiseman, the FBI agent assigned to the case, took the stand next and testified he received initial information from Redstone's inspector general office on Dec. 5, 1979. He said he pursued the case and received publication records and work requests from the technical information office.

Wiseman testified he obtained documents prepared by Laird from Redstone's scientific library and from the authors. He also obtained records from Brooks, the former Laird employee who testified earlier. He testified he found "somewhere between 10 or 20" incidents in which college theses were prepared.

He also testified that some documents contained classified information which the authors were instructed to cut out prior to the documents being brought to court as evidence. Each juror received a

Moody charges dropped

HUNTSVILLE — As trial resumed in federal court here Monday, the government dismissed all charges against Roddy Hoyt Moody, a MICOM employee.

Moody was one of four defendants indicted by a federal grand jury last year being tried for conspiracy to defraud the government.

David Blankenship, Moody's lawyer, told news

reporters, "From the outset we didn't think there was enough evidence to even charge Mr. Moody."

Referring to testimony by a government witness that Moody may have been given a car, Blankenship said, "It simply could not be proven. It did not happen."

Blankenship said there had been no bargain between the government and Moody's defense to drop charges against him.

copy of a book of summary charts prepared by Wiseman.

He used one chart as an example — showing the number of pages billed for on the voucher was greater than the number of pages sent to the printer. Under cross examination, Wiseman confirmed there were errors in the charts and that he did not take into account whether a document was sent back to Laird for re-work.

Richard Dickson, a physicist with the Systems Simulation and Development Directorate, testified a technical report he wrote in 1978 was submitted to the technical information office. He said the document was not published until a year later because he had to send it back to Laird Enterprises several times for corrections.

The next witness was Terry Martin, MICOM engineer who did a report on the aeronautics of the Hawk missile. He said his report had to be redone by Laird because of errors.

DIFFICULTIES

The prosecution called to the stand several other engineers who testified about difficulties in getting technical reports edited, corrected and published through the technical information office and its contractor, Laird Enterprises.

Dr. Belur Dasarathy, Jimmy L. Brown and Dr. Glenn D. Weathers were all with M&S Computing, now called Intergraph Corp., when it did reports published by the Army under contract. Others called to testify included Robert F. Russell, Brian R. Strickland, Howard Kuettner Jr., John J. Wachs and Charles E. Colvin, all Army employees involved in preparing other technical reports.

James Knaur, an electronics engineer in the Test and Evaluation Directorate, testified he prepared a thesis for a master's degree from Auburn University in 1978. He testified he was working in the Engineering Directorate of Army Missile Lab at the time and was instructed by his branch chief to forward the document to the technical information office.

"I was working on something which was of interest to the Army and could also be used as a thesis," Knaur said. The thesis was sent to Laird for typing, printed at government expenses and ac-

cepted by the Auburn graduate school, he testified.

Bill Leonard, a general engineer at Army Missile Lab, testified about a chart that Chambers was given to reproduce for a briefing in Washington in 1979. He said a draft of the chart was sent to Laird and there were trips to the contractor to make any necessary corrections. Under cross-examination, he testified that view-graphs were ordered along with the chart.

PAINTINGS

Another witness called by the prosecution was Susan Rosenblum, who managed Frameland Inc., on Governors Drive during 1979. Rosenblum testified that frames for paintings by MICOM artist Albert Lane were paid for by Laird Enterprises.

She said she dealt with Laird representative Dwayne Kennedy and did not know where the pictures were to be hung or displayed. Under cross examination, Rosenblum testified that frames in photographs taken at the office of a former commanding general appear to be the same ones listed on her invoices.

Mary Ann Waltz, who worked at Laird as a technical typist in 1978, was called to the stand next and testified "incomplete" work was sometimes delivered to the arsenal. Under cross examination, she explained that those documents were still in the process of being corrected when they were delivered.

David Merriman, an engineer at MICOM from 1974-79, testified he submitted a five-volume document to the technical information office in 1979. He said 20 to 30 pages required corrections when he reviewed them on several occasions at Laird.

The last witness called to the stand last week was Celina Hardin, an English and drama teacher at Butler High School who was a technical editor at Laird from 1978-79. She testified she worked on the Merriman document which was incomplete when he was called in to review.

Hardin testified she was instructed by Laird and Brown not to re-edit documents that she had already corrected once. She was being cross-examined by defense lawyers when court was adjourned until Monday because of illness to a juror.

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SYNTHETIC LUBE

Some airlines modify 50 percent discount fares

WASHINGTON — Certain airlines, because of policy and tariff changes, have changed their 50-percent furlough fare discount offer.

The offer is for active duty soldiers traveling within the Continental United States on leave or pass at their own expense.

Braniff has removed the furlough fare on all their routes. However, Braniff's new "Texas Class" fares are equal to or lower than the old reserved-seat furlough fare in over 30-percent of Braniff's domestic markets.

American airlines has removed the fare only in areas where their fare for the general public is lower than the furlough discount.

Pan American, having previously cancelled the 50-percent, has reinstated the fare on a restricted basis at the request of military officials. Discount

fares are offered one-way only from San Diego, Calif., to eight cities in the south and southeast; Jacksonville, Fla., to seven cities in the west and

southwest; and Norfolk, Va., to New York City. Local Pan American agents can name the specific cities.

— Steam

(Continued from page 1)

landfill but the amount of ash will be small in comparison to the trash that is burned. "It will be like burning wood in your fireplace — you burn wood all night and then take out a little pan of ashes," Washburn noted.

Under the scheme of operation for the incinerator, truck loads of trash would be brought in, unloaded into a "tipping room" and from there conveyed to the burning chambers. Ash will be taken out on conveyors and deposited in containers to await transport to the landfill.

There will be oil fired burners to ignite the trash and to function as "secondary burners" that burn pollutants out of the combustion gases.

August 1983 is tentative completion date for the incinerator. It will cost \$2.9 million. Estimated pay-back time is five to six years, perhaps sooner if the arsenal's trash volume permits continuous operation of the incinerator.

"If we get a lot of trash, it should pay-off quicker, said Dickey, adding: "Bring on the trash!"

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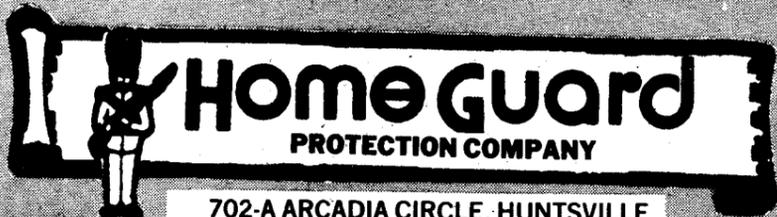
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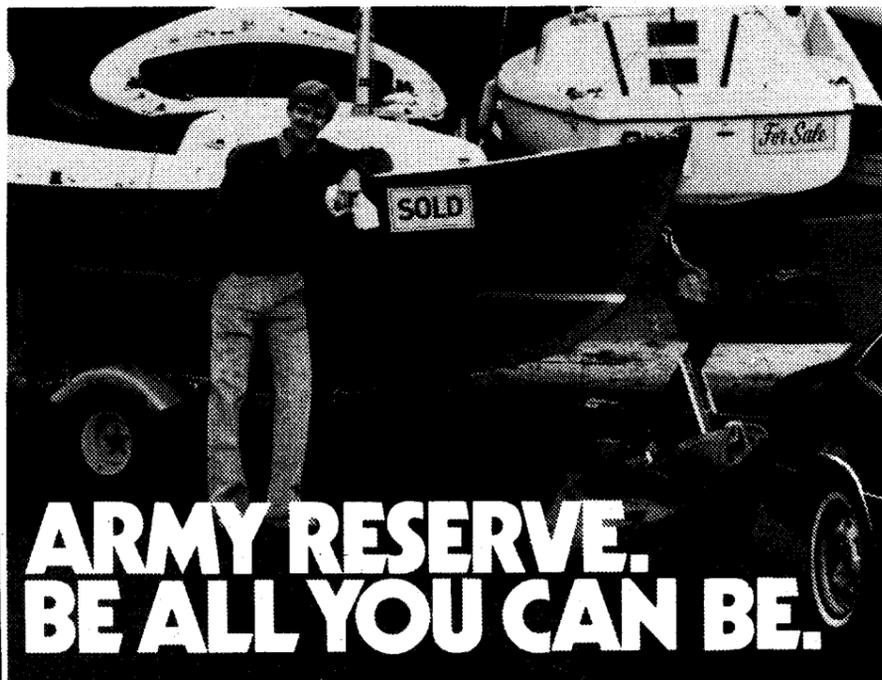
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Enhanced radiation weapons

The weapon commonly called the "neutron bomb" is not a bomb. A bomb is a single unit, usually dropped from an airplane. The Reduced Blast/Enhanced Radiation (RB/ER) warhead — that's its correct technical name — is a nuclear warhead delivered by the LANCE missile or an 8-inch Howitzer.

The "neutron" label is about half right, though. High energy, armor-penetrating neutrons are released when the RB/ER warhead explodes. The same thing happens with the explosion of a standard nuclear weapon. The RB/ER warhead, like standard nuclear weapons, releases other radioactive particles as well, so this really isn't a new form of radiation. Still, there are differences.

The major differences between the RB/ER warhead and standard fission nuclear weapons lie in how much of each form of energy is released.

Basic energy forms

Before we talk about the differences between them, let's talk about what the RB/ER and standard nuclear weapons have in common. The energy released by both types of nuclear weapons comes in four forms.

Blast: Similar to the *explosion* of conventional material, such as TNT, but more forceful. Blast damage is caused by pressure waves in the air, ground or water, and by high winds.

Thermal radiation: The immediate release of an enormous amount of energy in a very small space (fireball). Thermal radiation damage is caused by the *heat* and *light* of the nuclear explosion.

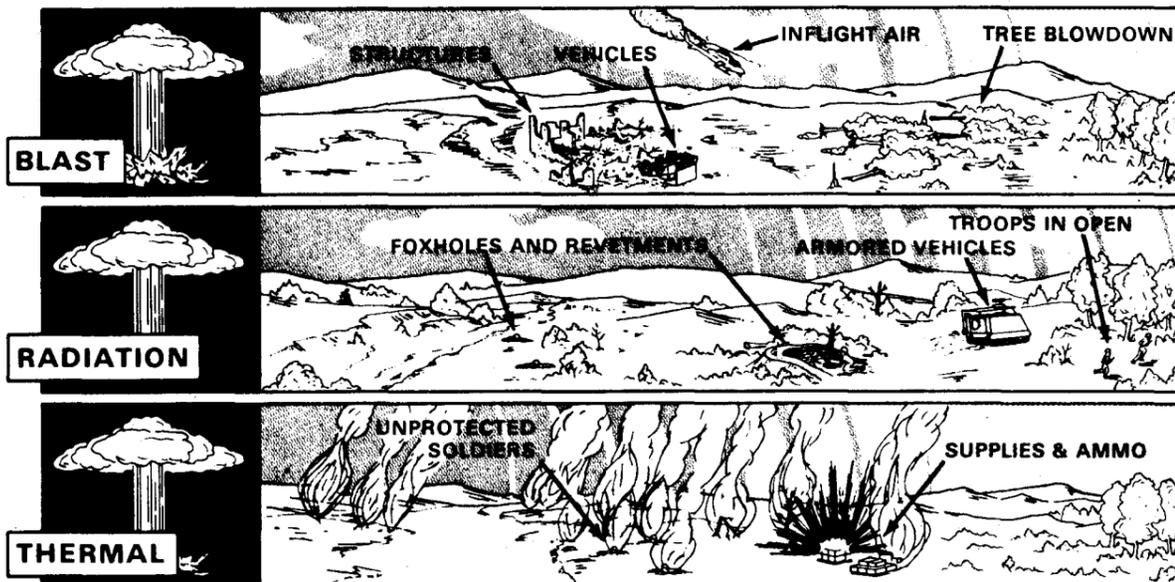
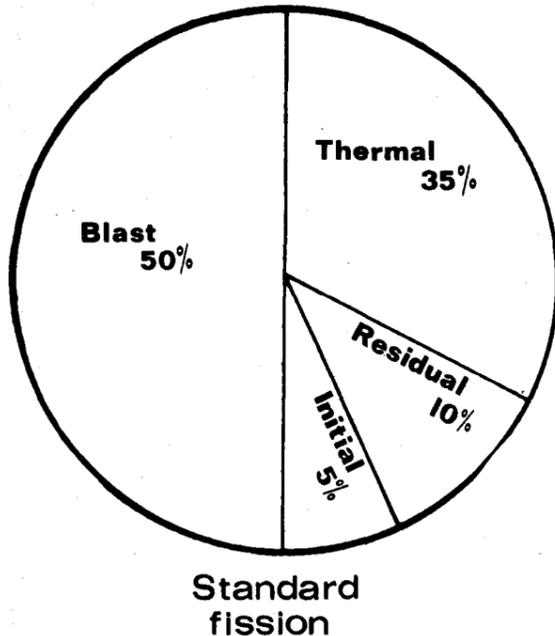
Initial nuclear radiation: Nuclear radiation that is released by a nuclear explosion *within the first minute* after the burst.

Residual nuclear radiation: All radiation released *after one minute* from burst time.

Comparing the energy output

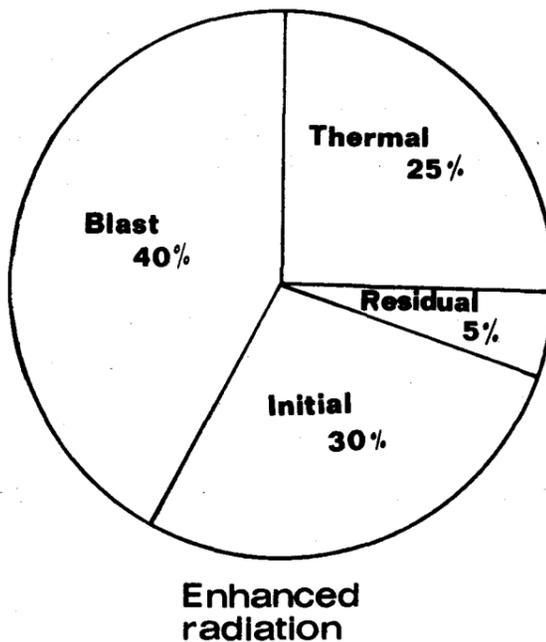
Let's look at the standard fission nuclear weapon first. This weapon depends on a fission reaction in order to explode. Fission is the splitting of an atomic nucleus into about equal parts by bombarding it with neutrons. A great deal of energy is released. About half of the energy released by the detonation of a standard fission nuclear weapon is in the form of blast. Smaller amounts of thermal radiation, and initial and residual nuclear radiation are also released.

Pretend that the pie-shape below equals all of the energy released by a standard fission nuclear blast. You can see about how much of each kind of energy is released.



In the explosion of the RB/ER warhead, the energy output is created by both fission and fusion reactions. Fusion is the joining of atomic nuclei (more than one nucleus) to form heavier nuclei. When certain light elements unite, large quantities of energy are released.

Now look at the pie-shape below and compare it to the other picture. Notice the difference in the percentage of each kind of energy released. In the explosion of the RB/ER warhead, the portion of the initial nuclear radiation output is greater, while blast, thermal radiation and residual radiation are less.



What do these differences mean?

So far we have two nuclear weapons which produce the same forms of energy but in different percentages. It is these "different percentages" that makes the RB/ER warhead less dangerous to civilians and their property, but yet very effective against tanks.

Collateral damage: Collateral damage is the unwanted injury of civilians and unwanted destruction of civilian structures, such as houses. The reduction in blast and thermal radiation of the RB/ER warhead lessens the likelihood its use might cause civilian casualties or unnecessary destruction to areas around the battlefield. If the President ever decides we have to use nuclear weapons, we don't want to destroy the people or property we're trying to defend.

Weapon effectiveness: The RB/ER warhead doesn't need to put out as much total energy as a standard fission nuclear weapon to do

the same job against enemy troops in tanks. The increased initial nuclear radiation output makes it very efficient against concentrations of armor. In addition, the neutrons put out by the RB/ER warhead have more energy than those coming from a standard fission nuclear weapon. This means they can go through greater thickness of armor, further away.

Safety for the friendly troops: If you were in the area of a nuclear explosion, you could be much closer to an explosion of an RB/ER warhead than that of a standard fission nuclear weapon without exceeding the risk that your division or higher commander is willing to accept. This is especially true if you're unwarned and unprotected. You'd also be able to return to the explosion area and continue with your mission much sooner than if a standard nuclear weapon were used because of less residual radiation.

Evening up the odds

The Warsaw Pact forces continue to charge ahead with the production of both conventional and nuclear weapons. Their entire plan of attack centers around large groups of tanks. They have four times as much armor as we and our NATO allies have.

One of the main objectives of NATO is to deter any attack by Warsaw Pact nations or the Soviet Union. Since we're facing greater numbers of tanks, we need something to "even up the odds," so that the Soviets will know that an attack can't succeed.

The RB/ER warhead can help even the odds. It is an ideal deterrent to a massive armor attack. It might make the Warsaw Pact think more than twice about moving into NATO territory if they no longer had the edge.

Tactical advantage with reduced hazard

The RB/ER warhead, when used against massed armor, has a tactical advantage and reduces the hazards found in standard nuclear weapons. It is very efficient against armor personnel. It can be used closer to friendly troops with less risk. It lessens the possibility of injuries and damage to the civilian population and their property.

RADIATION - gamma rays, neutrons, alpha and beta particles produced in the nuclear explosion.

ATOM - smallest particle of an element which has the characteristics of the element.

NUCLEUS - center of the atom.

\$2.6 billion budgeted for missiles

WASHINGTON — The Defense Department now has formal congressional funding to carry out its many missions and functions as a result of final approval of this fiscal year's budget. The department had been operating under temporary funding measures since Oct. 1 — the beginning of FY 82.

A little less than \$200 billion was earmarked for defense under the FY 82 DOD Appropriations Act which the president signed into law on Dec. 29 (Public Law 97-114). The Army's share of the budget totals \$49.3 billion.

A breakdown of the Army's FY 82 funds shows spending in the fund categories of military personnel (\$14.7 billion); operations and maintenance (\$16.9 billion); procurement (\$13.8 billion); and research, development, test and evaluation (\$3.6 billion).

More than \$12.4 billion is provided for military personnel programs and \$15 billion for operations and maintenance for the active army. Military personnel activities of the U.S. Army Reserve receive some \$964 million in spending authority, while those of the Army National Guard are funded with more than \$1.2 billion. Operations and maintenance funds for the Army Reserve total \$658 million. The Army National Guard has a little more than \$1 billion in that category.

A breakdown of funds allowed for procurement activities include \$1.9 billion for buying aircraft, \$2.1 billion for missile procurement, \$2.3 billion for ammunition, \$3.8 billion for wheeled and tracked combat vehicle procurement; and \$3.7 billion for other procurement activities. Also, \$50 million is provided in the budget for Army National Guard equipment.

In a separate action, Congress appropriated \$7.6 billion for DOD military construction activities, including family housing projects. The president signed the Military Construction Appropriations Act into law Dec. 23.

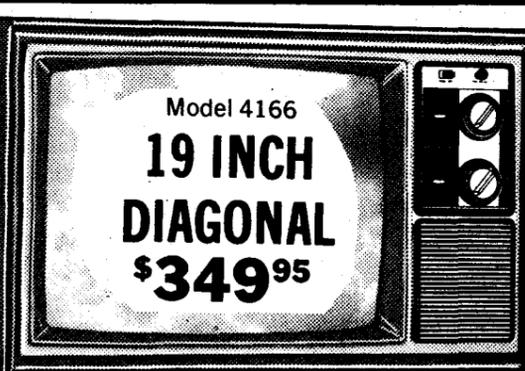
The Army's share breaks down as \$943.7 million for military construction, Army; \$64.6 million for Army Reserve construction projects; and \$67.6 million for Army National Guard military construction activities. (ARNEWS)

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Common task SQT begins

WASHINGTON — Soldiers whose MOS has no skill qualification test (SQT) can now look forward to something new. Starting during December 1981, these soldiers, along with National Guard and Reserve soldiers, began taking the common task skill qualification (CTSQT).

The CTSQT consists of tasks which apply to every soldier in skill levels one through four. The tests rate soldiers on common basic skills, explain U.S. Army training and doctrine command officials.

If an MOS-specific test was available last year. Soldiers will probably take one again this year. If an SQT has not been developed for their MOS, soldiers will take the CTSQT. Soldiers working outside their PMOS will take the technical SQT for their PMOS for record. The CTSQT will not be used in personnel management programs. The emphasis is on identifying and eliminating common task training deficiencies.

Two new field manuals contain the common tasks which make up CTSQT. These new manuals, titled Soldier's Manual of Common Tasks, were distributed to units worldwide in May 1981. They are field manual (FM) 21-2, which covers skill level one, and FM 21-3, which covers skill levels two, three and four.

Some of the common tasks soldiers must be able to perform are camouflaging themselves and their individual equipment; using challenge and password; identifying natural and man-made terrain features on a map; and using first aid techniques, including cardiopulmonary resuscitation.

Like the MOS-specific SQT, the CTSQT is organized into three parts — skill component, hands-on component, and job site component. Sixteen tasks are covered, but some of these are so important that they are also contained in certain MOS-specific SQT's.

The common-task SQT does not replace the MOS-specific tests. Generally, all soldiers at skill levels 1-4, who won't take an MOS specific test between Sept. 1, 1981, and Nov. 30, 1982, will take CTSQT.

CTSQT will be administered from Dec. 1, 1981, through Aug. 31, 1982. A new CTSQT will be developed every year and administered from December to August. Units will be required to schedule all eligible soldiers for testing during this period. For more information on the program, soldiers should contact their for training standards officers. Commanders will announce the training and test site for their soldiers as this information becomes available. (ARNEWS) available. (ARNEWS)

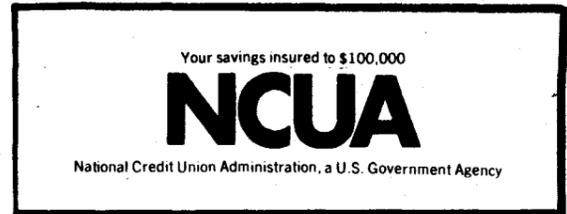
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Early battle may decide CWF champs

Finance and Accounting, Controllers, Rachels and Corps of Engineers hadn't lost a game going into this week's Civilian Welfare Basketball League action but that picture will change tomorrow night.

Controllers and F&A will square off at the Old Post Gym in a crucial early season battle that could determine the league championship.

Controllers, riding the hot shooting of Terry and Autro Whitman, swept two games last week, downing TMDE 68-44, and Missile Labs 69-57.

Terry had 20 and Autro 18 against TMDE while Belue Williams had 16 for the losers. Against Missile Labs, Terry had 22 and Autro 19.

John Maples was high for Missile Labs with 21.

Elsewhere, F&A rolled over P&P No. 1, 60-30; Rachels downed Metrology 95-56; P&P No. 2 defeated Supply, 62-48; and Green Machine stopped Metrology 47-33.

F&A was led by the balanced scoring of Abdullah Muhammad, Michael Davis and Tony Vaughn with 15 each while Glenn Caradine had 15 for the losers.

Rachels, another of the strong contenders for the league titles, was paced by James Battle with 22, Randy Murray 21, and Larry Cable 20. Bobby Fort had 20 for Metrology.

P&P No. 2 was sparked by Willis Epps with 30 while Larry Couch, Mike Hubbard and Bob Hubbard had 10 each for Supply.

Mason Hammons led Green Machine with 20 and Paul Vought had 15 for Metrology.

Men, women sought for teams

Arsenal sports officials are seeking coaches and players for men's and women's basketball teams.

Tryouts are scheduled for 8 a.m. Jan. 16, 23 and 30, according to Irv Lyles of the Sports Office. He said all competitors must be active duty military and men must play on a company level team to be eligible.

In addition to representing Redstone in local competition the two, 10-player teams will compete in the TRADOC Division B tournament at Fort Rucker March 12-18.

For additional information, interested players and coaches may contact the Sports Office at 876-2943 or 876-2255.

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'I give to help other people . . .'

BY HARRY SARLES

The day room was a jumble of nurses in white, soldiers in green and blood in red. It was bloodmobile day at the 6th Student Company.

"We have the bloodmobile about once a quarter," said SSgt. Alvin G. McLaurin, platoon sergeant. "I've got 26 troops and they were all here even if some of them couldn't give."

An average of 600 Redstone Arsenal workers give the "gift of life", each month, according to Doris Wobrock, Redstone Arsenal coordinator for the blood donor program.

In addition to the bloodmobile which visits the arsenal approximately 10 times each month, several arsenal employees donate blood at the Red Cross Blood Bank at 701 Andrew Jackson Way in Huntsville.

"I give to help other people who need blood," explained PFC Raymond Couch, 6th Student Company. Couch and others like him help Redstone Arsenal to account for nearly one-third of the blood collected by the Madison County Red Cross. In Nov.

1981, for instance, out of a total of 1,726 pints collected in the county more than 550 were collected from arsenal personnel according to a Red Cross report.

In addition to helping others blood donors are also helping themselves. By giving blood, donors insure that they and their families will receive blood from the Red Cross if needed.

Units also receive recognition for their blood programs. Plaques are awarded monthly to units who have the best participation in the program. Some units offer incentives for their troops. "We'll get some extra time off if more than 80 percent of the unit gives blood," said Couch. "That'll be no problem, because lots of us want to give. Last time the Red Cross was here they expected about 35 pints and got more than 100."

According to Wobrock, the blood collected by the Madison County Red Cross is used throughout the area. People wishing to donate blood should check the daily bulletin for places and times of bloodmobile visits.



Red Cross nurse Diane Little inserts a needle into Sp4 Craig Daniel's arm. Daniel and his comrades from the 6th Student Company contributed pints of blood to the Red Cross on Jan. 6. (Photo by Harry Sarles)

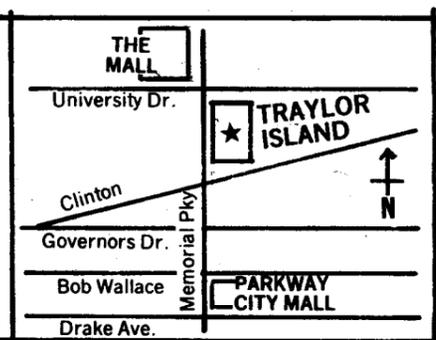
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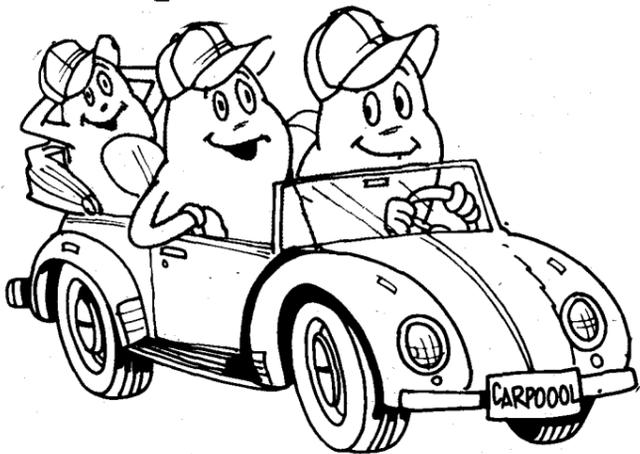
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Toney

Ride wanted from Toney to 5678, hours 8-4. Sue Allen 876-7338.

Ride wanted from Railroad Bed Road in Toney to 3623, hours 7-3:30 (flexible). Brenda Springer 876-6101.

Announcements

MMCS wives

Gary Murray from the county home extension office will present a program, "Spring Tips on Planting", to the MMCS Wives brunch Jan. 26 at 10:30 a.m. in the Officers Club Safeguard Room. Reservations must be made by Jan. 22 and cancellations by Jan. 25 to Barbara Adams, 882-3833, or Carol Price, 852-5989. Hostesses will be from the MMCS Combat Developments Directorate.

Sailing course

A sailing course will be taught by local Coast Guard Auxiliary flotilla 025-24-05 beginning in late January. Course schedule will be established based on the interest shown. If interested call Paul Massey, 837-9626, or Marie Harrison, 539-0184, evenings.

Telethon

The "Weekend with the Stars Telethon for Cerebral Palsy" will air this weekend over Station WAAY-TV, Channel 31, with local segments live from The Mall on North Memorial Parkway. The event will begin at 10 p.m. Saturday night and continue through 6 p.m. Sunday. Hosts again include John Ritter, Dennis James, and Paul Anka with Henry "The Fonz" Winkler, Gavin McLeod, Joyce DeWit and Dick Van Patten. Hosting the local segments for his nineteenth consecutive year will be Johnny Evans.

Radar report

Military police will be operating radar on the arsenal at the following locations Jan. 14-20.

Thursday, Jan. 14

7:00 a.m.-8:30 a.m. — Patton Road. 10:00 a.m.-1:00 p.m. — Vincent Drive. 3:00 p.m.-5:00 p.m. — Goss Road.

Friday, Jan. 15

7:00 a.m.-8:30 a.m. — Rideout Road. 10:00 a.m.-1:00 p.m. — Patton Road. 3:00 p.m.-5:00 p.m. — Martin Road.

Monday, Jan. 18

7:00 a.m.-8:30 a.m. — Housing Area. 10:00 a.m.-1:00 p.m. — Goss Road. 3:00 p.m.-5:00 p.m. — Neal Road & Toftoy.

Tuesday, Jan. 19

7:00 a.m.-8:30 a.m. — Patton & Buxton. 10:00 a.m.-1:00 p.m. — Vincent & Goss. 3:00 p.m.-5:00 p.m. — Martin & Rideout.

Wednesday, Jan. 20

7:00 a.m.-8:30 a.m. — Buxton Road. 10:00 a.m.-1:00 p.m. — Martin Road. 3:00 p.m.-5:00 p.m. — Rideout & Goss.

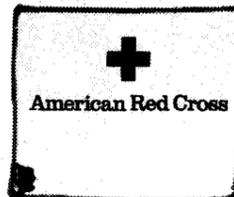
MPs make the radar location list available as a service to encourage drivers to voluntarily obey speed limits but may use radar at unpublished times.

Recreation Center

Tonight — Movie "Green Berets" at 7 p.m. Thursday — Bingo at 8 p.m. Friday — Pool Tournament at 7 p.m. Saturday — Hot Dogs and Coffee at 4:30 p.m. Sunday — Checkers Night at 7 p.m. Monday — Crossword Tournament at 7 p.m. Tuesday — Skittles Night at 7 p.m.

Technical communicators

The Society for Technical Communication meets twice in January: for lunch Jan. 14 at 11 a.m. at the Officers Club, and for dinner Jan. 19 to meet a national officer of STC at 6:30 p.m. at the Officers Club. Writers, editors, illustrators and all others in communications are welcome.



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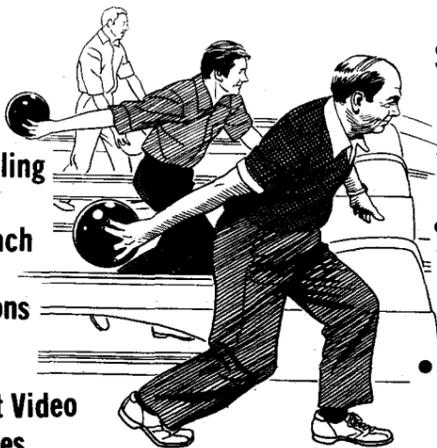
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Army slates sports events

WASHINGTON — Soldier-athletes interested in competing in all-Army and higher competitions during 1982 should visit the sports office for information and applications.

The recently issued 1982 sports calendar lists Army trials and interservice events in 13 sports: boxing, basketball, wrestling, volleyball, track and field, bowling, marathon, triathlon, tennis, soccer, softball, golf, and racquetball.

Local competitors should forward their applications to arrive at HQDA at least 90 days before the start of any Army trial camp. Some of the listed events are scheduled as soon as January 1982.

Here is the 1982 calendar of sporting events, the dates and places of which are subject to change:

Sports	Army Trials	Interservice (Host)
Boxing	Jan. 10-March 5 Fort Bliss, Texas	March 1-6 Kelly AFB, Texas (Air Force)
Basketball (Men's)	Jan. 21-March 6 Presidio of San Francisco, Calif.	March 7-12 Alameda, Calif. (Navy)
Wrestling	Feb. 7-March 20 Fort Bliss, Texas	March 21-26 Quantico Marine Corps Base, Va. (Marines)
Basketball (Women's)	Feb. 14-March 13 Fort Indiantown Gap, Pa.	March 14-19 Fort Indiantown Gap, Pa. (Army)
Volleyball (Men's)	March 28-April 17 Fort Shafter, Hawaii	April 18-23 Pearl Harbor, Hawaii (Navy)
Volleyball (Women's)	March 28-April 17 Fort Shafter, Hawaii	
Track and Field (Men and Women)	April 20-June 7 Presidio of SF, Calif.	June 8-11 TBD (Air Force)
Bowling (Men and Women)	May 7-15 Fort Eustis, Va.	May 16-21 TBD (Marines)
Marathon	May or June TBD	None TBD
Triathlon	May 12-19 Fort Bliss, Texas	July 25-31 Fort Gordon, Ga. (Army)
Tennis (Men and Women)	July 8-24 Fort Gordon, Ga.	Sept. 12-18 TBD
Soccer	Aug. 12-Sept. 11 Fort Bliss, Texas	Aug. 8-13 Fort Indiantown Gap, Pa. (Army)
Softball (Men's)	July 16-Aug. 7 Fort Indiantown Gap, Pa.	Aug. 17-21 TBD (Air Force)
Softball (Women's)	July 23-Aug. 15 Fort Indiantown Gap, Pa.	Aug. 29-Sept. 3 Pensacola, Fla. (Navy)
Golf (Men & Women)	Aug. 17-28 Fort Benning, Ga.	Oct. 17-22 San Diego, Calif. (Marines)
Racquetball (Men and Women)	Oct. 5-16 TBD	



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On the water, 3 brs, 1 1/2 baths, living room, dining room & beautiful kitchen. Located on Wheeler Lake where the view is 15 miles in each direction. Only \$58,500 with a VA loan that can be assumed.
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2 br, 1 bath home with warm fireplace, nice trees & a good lot on Elk River. VA loan can be assumed & this is a great buy at only \$41,500.

RESULTS REALTY
837-5634
We Cover The Waterfronts!

Only \$4,000 Down
Seller financed, well maintained, 3-bedroom rancher. Seller will finance up to \$18,500 at 12% amortized over 30 years, (\$190.29 monthly). E-2223.
Call:
Jim McWhorter
881-6744 or:
LANDMARK GALLERY OF HOMES 539-0643

\$1,100 Down or VA Nothing Down
Seller will pay closing. 13-7/8% loan or less available. 3 br home, well maintained with new roof, OR seller will finance with \$4,000 down at 12%.
Call Jim McWhorter
859-1500 or 539-0643
LANDMARK GALLERY OF HOMES. ITC

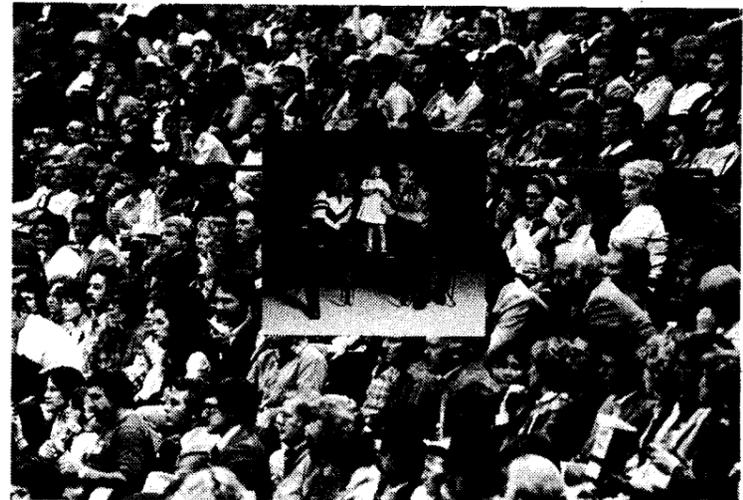
Economy Painting Co.
Paper Hanging & Interior & Exterior Painting. Licensed, bonded, insured. Free decorating service with jobs over \$200.00. Satisfaction guaranteed.
We appreciate your business. Free estimates
Ph. 534-6195 or 852-2478 tc

AAA MINI STORAGE
INDIVIDUAL & BUSINESS STORAGE
• NO LEASE REQUIRED
• RESIDENT MANAGER
• A SIZE AVAILABLE TO MEET YOUR NEEDS
3052 Leeman Ferry Rd.
881-2640

QUALITY PAINTING AT REASONABLE PRICES
Whether it's a commercial or residential job we guarantee our work to be professional, clean, something of which we'll both be proud. We also do interior painting.
Free Estimates
Boone Painting Co.
Licensed & Insured
536-4696
HUNTSVILLE

Catherine's STOUT SHOPPE
FASHION SPECIALISTS
sizes 18 to 60 & 16 1/2 to 32 1/2
1402 Memorial Parkway, N.
Huntsville, Ala. 35801
Phone 534-6454

Of every 100 Americans 3 are mentally retarded.



Can't the other 97 of us help?



WHEN YOU GIVE HELP YOU GIVE HOPE.

© 1981 Association for Retarded Citizens of the United States

CLASSIFIED ADS

Classified Display ads are sold in 2-inch segments, the cost of which is \$5 per segment. Maximum Classified Display is 1 col x 5". Cash with copy except where an open account has been previously established. Copy should be mailed to the Redstone Rocket P. O. Box 5351, Huntsville, Ala., 35805. Deadline for all classified display advertising is Friday, 5 p.m., prior to the Rocket's Wednesday publication.

Room For Rent
Furnished room in private S.E. Huntsville home. Central air, off street parking. References.
881-5601 ITP

Condo at Gatlinburg
Condo at Gatlinburg, 2 br, stone fireplace, mountain stream, conveniently located to downtown.
533-3302
or
881-4926 TFC

Mobile Home For Rent
2 br, mobile home completely furnished. \$155 mo. convenient to schools & RSA. 852-7253
852-7253 TFC

ANTIQUÉ'S The Port Antique Shop
One mile north of Ala. State Line, Highway 231-431.
• Glassware
• Furniture
• Primitives
Plenty to choose from
Hours Mon.-Fri. 8-3:30;
Sat.-Sun. 12-5
Phone (615) 433-5499
12-33p

We Buy
We buy used military clothing & equipment to include OD and camouflage fatigues and khakis.
Call Ann at 852-0751
This & That Store
1900 US Highway 72E
Huntsville, AL 35811 ITP

1979 Toyota Landcruiser FOR SALE
Push bar, mudders, KC lights 4-wheel drive with part-time kit. AM-FM cassette stereo, 6 cyl, low mileage, excellent condition. \$5500.
Call 881-0895 or 876-3739 ITC

TV RENTAL
FREE DELIVERY TO R.S.A. No Deposit

Black & White or Color, Available Call
MOORE TV
852-1776

We Do Do Windows!
Put your cleaning problems in good hands with prompt licensed & insured service.
Windows are our specialty.
Squeaky Clean Cleaning Service
852-2478
Free Estimates

Dining Room Suite By Bassett 539-6646
In excellent condition. Serviceable & attractive. Includes table (with one leaf), host & hostess arm chairs, four reg chairs, sideboard & china cabinet. Shop & compare for value. **\$750⁰⁰** ITC

Touchmatic Amana Microwave Oven For Sale
A 220 for overseas use. **\$300.00**
Call Gail at **837-0282** ITC

Only \$1,000 Down or Nothing Down For Veterans
Beautiful 2 br. home close to Arsenal & shopping. *24,500 Call agent for details on outstanding investment potential on this home. Call Eva Small at 881-8173, or please ask for me at
LANDMARK GALLERY OF HOMES 881-4900 ITC

Needlecraft Lovers
Earn extra money plus free stitchery kits. Demonstrate needlework. Will train. Average \$10-\$12 per hr.
Call Barb at **881-8797** ITP

Save Big Money!
We're the one-stop clothier for the whole family! And what a great stop! You'll shop & save & shop & save...
• Menswear • Womens' Clothing
• Clothes for Brother • Clothes for Sister
We specialize in new & previously owned clothing & accessory items.
FREE Drawing for \$Merchandise Certificate\$ beginning 15 Oct. No purchase necessary.
Quality clothing now being accepted on consignment.
10% Discount to Mili., NASA & Govt. Employees with ID & this ad.
Clothes Encounter
North Ala. Largest Consignment Clothing Outlet
202 Andrew Jackson Way — Open Mon.-Sat. 10-6
Huntsville, Alabama 533-4794

TOP SOIL River Bottom Land and Fill Dirt
881-9589

For Sale
Schwinn Continental 10 spd. bicycle. Perfect condition. \$160.00 or best offer.
Call: 533-2139 or 882-0483

By Owner LAND FOR SALE
7 ACRES \$3,000
11 ACRES \$4,000
14 ACRES \$5,000
Partly wooded near Pulaski, Tennessee in Giles County, North of Huntsville. Terms. Call Pulaski 615-363-5349. ITC

Sloppy Joe
Sloppy Joe Set, new, never used, couch, loveseat, chair or rocker, \$265.00 3 tables to match \$75.
536-0205
or
534-4787 TFC

Herculon
Couch, chair, and love-seat, new, never used, \$195.
536-0205
or
534-4787 TFC

GOOD NEWS FOR FEDERAL EMPLOYEES
Blue Cross/Blue Shield, Postmasters, Mutual of Omaha (National Alliance) mail-handlers health insurance, Aetna Ins. Co. (government plan) plans now cover Chiropractic treatment.
Listed below are a few of the many conditions helped by chiropractic care:
* Headaches (migraines) * Neck pain or stiffness
* Shoulder & arm pain * Pain between shoulders
* Low back pain * Hip & leg pain
* Allergies * Sinus problems * Tennis elbow
FOR MORE INFORMATION CALL:
The Bagwell Chiropractic Clinic
533-3768

REMANUFACTURED Starters/Alternators
\$21⁹⁵ up with exchange
"THE BATTERY SPECIALIST"
BATTERY SALES, INC.
1 MI. SOUTH OF HAYSLAND SQ. **883-0083**

SPECIALS

Alternators \$19⁹⁵ up Late model GM Alternators, Reg. \$36
\$30⁹⁵
Most Brake Shoes
(Set of 2).....\$7⁹⁵
Most Disk Pads (Set of 2 wheels).....\$8⁹⁵
Rotors and Brake Drums Turned

Most Starters \$26⁹⁵
Electronic Modules For Fords **\$39⁰⁰** Reg. \$75

Foreign & Domestic
Starters & Alternators Rebuilt K & D Rebuilders
1 Day Service
Best Service
Lowest Prices in Town

Save Up to \$30 On Alternators
Parts Available For Most Foreign Cars
Hice's Wholesale Auto Parts
200 Jordan Lane, N.W. **539-2252**
Huntsville, Alabama
Open 7 Days a Week: 8-8 Weekdays; 9-6 Sunday



Adeline Urbanowicz
883-0707
GRI



Theresa Miller
Sales Manager
881-8573

WE BRING PEOPLE HOME. **SOUTH GALLERY**
Landmark

7900 Bailey Cove Road
Huntsville, AL 35802 **881-4900**



Ellie Jacobs
882-0691
Sales Counselor
of the Month



Jerry Madison
881-2148



Shirley Wall
881-6214



LET THE COLD WIND BLOW

You'll never notice it as you sit by the fire in the comfortable family room of this Cape Cod home. The first floor also has a foyer with pegged floor living room, dining room, bedroom, bath, and kitchen with breakfast area. Upstairs are 3 brs and 2 1/2 baths. All this and a 2 car garage in an inviting setting at 2733 Downing. Call Theresa Miller 881-8573 or 881-4900.



BE READY FOR THE BEACH!!!

Construction is under way on Sea Horse Condominiums at beautiful Gulf Shores. 2 br units with permanent view and beach access are priced at only \$39,500. Call for more details on 100% financing. Ellie Jacobs 882-0691 or 881-4900.



Marge Stamper
881-0405



Eva Small
881-8173

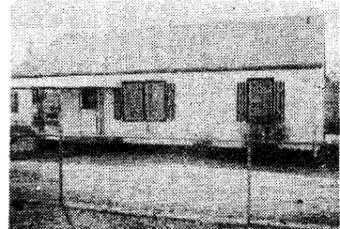
SHERWOOD PARK

Live in one of Huntsville's most sought after neighborhoods. Only 5 minutes to Research Park. Newly constructed 3 br rancher, stone fireplace in great room, dbl car garage. \$72,500. Call Adeline Urbanowicz 883-0707 or 881-4900. FP.



SUPER SHARP (SW)

3 br, 2 bath home near Redstone. Living room, den, large kitchen, inside laundry, new roof, new paint inside and out, central heat & air. Assumable 8 1/2% FHA loan. Total monthly payment \$192.00. Very reasonable equity. Call Jerry Madison 881-2148 or 881-4900. 4005C.



I NEED YOU:

I'm all alone: I have lots of room for a family, and have been freshly painted outside. Come and see my beautiful Florida room and lovely back yard. I have 4 brs, 2 1/2 baths, den with fireplace, and lots of storage. My last owners have moved. Look me over - you'll like me. My \$48,400 equity is assumable and my total monthly payment is \$403.45. Call Shirley Wall 881-6214 or 881-4900. 7615T.



A BEST BUY \$69,900

CONSIDER THESE FEATURES:
(1) Level wooded lot in SE
(2) Over 2100 sq. ft.
(3) Four brs, 2 1/2 baths
(4) Den w/ fireplace
(5) Carpet & no-wax vinyl (1 yr. old)
(6) 5 1/4% VA loan (will not escalate)
(7) Owners will finance portion of equity
Call Marge Stamper 881-0405 or 881-4900 12110G.



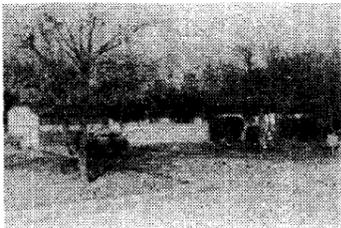
Jency Eldridge
881-4134



Gene Arvin
533-6973

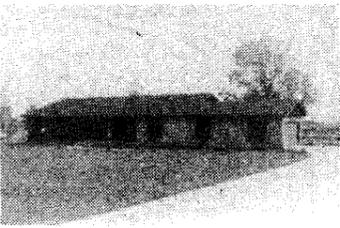
WALK TO GRISSOM AND WEATHERLY

Immaculate 3 br rancher tastefully decorated. Located on quiet circle bordering Valley Hills Golf Course. 5 1/4% VA equity \$74,900. Call Eva Small for financing details. 881-8173 or 881-4900. 801F.



THE MINI ESCAPE

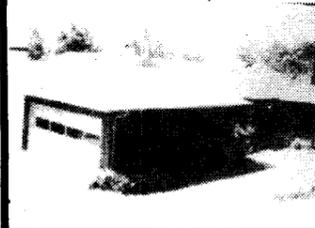
If you can't get your husband out in the country, how about a beautiful home on 7 1/2 acres in the city. 3 yrs old, 2500 sq. ft., 5 stall barn, inground pool, fenced, lots of extras. \$155,000. Call Jency Eldridge 881-4134 or 881-4900. 419W.



Marlene Sullins
881-5302



Kathy Cooper
883-1921



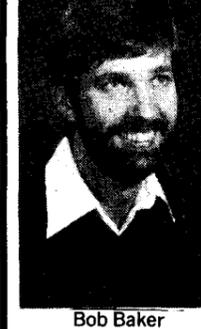
OWNER WILL FINANCE

10% interest. A home to satisfy the most discriminating. 4 large brs, 4 baths, sunken living with fireplace, formal dining, super den with fireplace, sun parlor with 9 foot windows, library, step-saver kitchen, sunny breakfast, large deck. Heavily wooded lot. \$149,500. Call Gene Arvin 533-6973 or 881-4900. 8022TG.

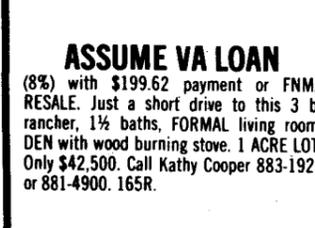


SEEMS LIKE OLD TIMES WHEN DOLLARS HAD CENTS

See this 3 br brick rancher in SW Huntsville It has LR, DR, den and 1 1/2 baths all situated on nice lot with fruit and pecan trees. Priced at \$55,000. Call Marlene Sullins 881-5302 or 881-4900. 3008A.

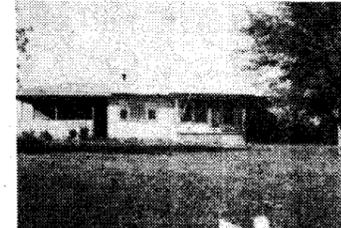


Bob Baker
881-4075



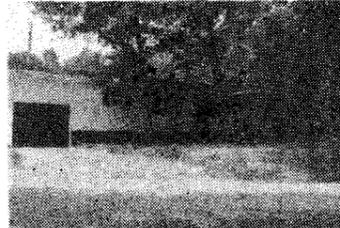
ASSUME VA LOAN

(8%) with \$199.62 payment or FNMA RESALE. Just a short drive to this 3 br rancher, 1 1/2 baths, FORMAL living room, DEN with wood burning stove. 1 ACRE LOT. Only \$42,500. Call Kathy Cooper 883-1921 or 881-4900. 165R.



BUBBLING BROOK + 3 ACRES!

Brindley Mountain area is the quiet setting for this newly listed 3 br, 2 bath rancher with tall trees for plenty of shade, 2 garages one dbl detached for extra storage or workshop. Low \$50's. Call Bob Baker 881-4075 or 881-4900. UG.



Jonnie Pewitt
536-9230
GRI



VIEW THE CITY LIGHTS

By night from this custom built traditional Chicago brick home resting on beautifully elevated tree shrouded grounds. Special immunities include cherry paneled den with fireplace, marble entry foyer, and crown mold throughout. The many custom features can only be appreciated by seeing this lovely home. \$144,900. Call Jonnie Pewitt 536-9230 or 881-4900. A.



2702 WHITESBURG — \$33,500

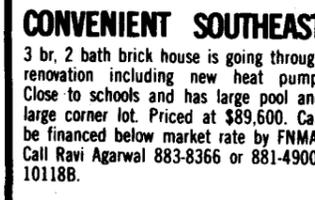
OPEN SUNDAY 1-4 p.m. This roomy older home is in a super convenient S.E. location and features brick fireplace, enclosed back porch with lots of windows, full dry basement, high ceilings, and lots of charm. Call Ginger Munafa 883-7532 or 881-4900.



Ginger Munafa
883-7532



Ravi Agarwal GRI-CBC
883-8366



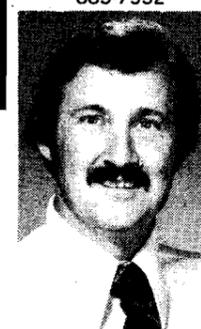
CONVENIENT SOUTHEAST

3 br, 2 bath brick house is going through renovation including new heat pump. Close to schools and has large pool and large corner lot. Priced at \$89,600. Can be financed below market rate by FNMA. Call Ravi Agarwal 883-8366 or 881-4900. 10118B.



CHASE AREA

Lovely 4 br brick rancher on a wooded, acre, corner lot. 2600 sq. ft., large wood deck, fireplace, 2 car attached garage plus 16x29 unattached garage. Loan can be assumed with \$30,000 down. Call Jerry Nicholson 852-3571 or 881-4900. 113WE.



Jerry Nicholson
852-3571

WE BRING PEOPLE HOME. **SOUTH GALLERY**
Landmark
7900 Bailey Cove Road
Huntsville, AL 35802 **881-4900**