

# President stands firm on pay cap

President Carter has notified Congress that he intends to hold the October pay raise for 1.4 million federal white collar employees and 2.1 million military personnel to an across the board 5.5 percent.

In his message to Congress Thursday, Carter said the 5.5 percent pay cap was necessary "... to allow the federal government to set an example for labor and

industry and lead the fight against inflation by example, and not just words alone."

Carter said his decision was "especially difficult" because "... I support comparability in pay between the federal government and the private sector." He said it was essential to insure that the federal government continues to attract and retain qualified and dedicated employees.

Carter said "... I would normally have no hesitancy in ordering a pay raise achieving comparability. However, pay comparability must be viewed in the light of the overall economic situation facing the country."

Congress has 30 days to veto the pay plan, otherwise it will go into effect automatically in October.

## The Redstone Rocket

VOL. XXVII; NO. 16 SEPTEMBER 6, 1978

### In brief

#### Space shuttle to be on view

The Marshall Space Flight Center plans a one day open house to allow the public to see the space shuttle Sept. 10.

The event marks the 20th anniversary of the National Aeronautics and Space Administration.

"Enterprise," the shuttle test vehicle; an external tank, components of the solid rocket boosters to be used in a launch; Space Lab and an inertial upper stage will all be on display at Building 4755 from 9 a.m. until 5 p.m.

Cars without arsenal decals must enter through Gate 9 on Rideout Rd. Cars with arsenal decals may use Gate 1. Ample parking is available in the area near Building 4755.

#### Improved Hawk conversion ends

WASHINGTON (ARNEWS) — The Army last month completed conversion of the Hawk Air Defense System to the Improved Hawk, according to DA officials.

The Improved Hawk, a medium-to-high altitude air defense system used by the Army and Marine Corps, completed deployment July 13 with the conversion of a 31st Air Defense Artillery Brigade unit at Homestead AFB, Fla., officials said.

The conversion from the basic to Improved Hawk system involves major technology changes, primarily in the missile but also in ground equipment.

The improved hawk was first deployed in Europe in 1972. The Hawk system is also used by 17 foreign countries.

#### Absentee voting

State and local voting officials are reporting receipt of many incomplete and illegible federal post card applications (FPCA) for absentee ballots, according to the DOD Federal Voting Assistance Division. The return of FPCA's for additional information delays distribution of absentee ballots.

### Wallet found after 25 years brings memories to retiree

By RALPH PERRILL

A 25-year-old wallet and a young soldier brought James D. McLaughlin out of retirement briefly last week.

The ex-locomotive engineer bounced around the arsenal greeting people from 12 years out of the past. He even met his nephew. His demeanor was less of a retiree than that, say, a performer doing a juggling act with words, rapid staccato. To interview him was to pin a flea.

"Guess the engines don't even run," he half asked-half said. Informed that all but one section of the tracks were gone, he said, "They ought to have kept it."

But the billfold—

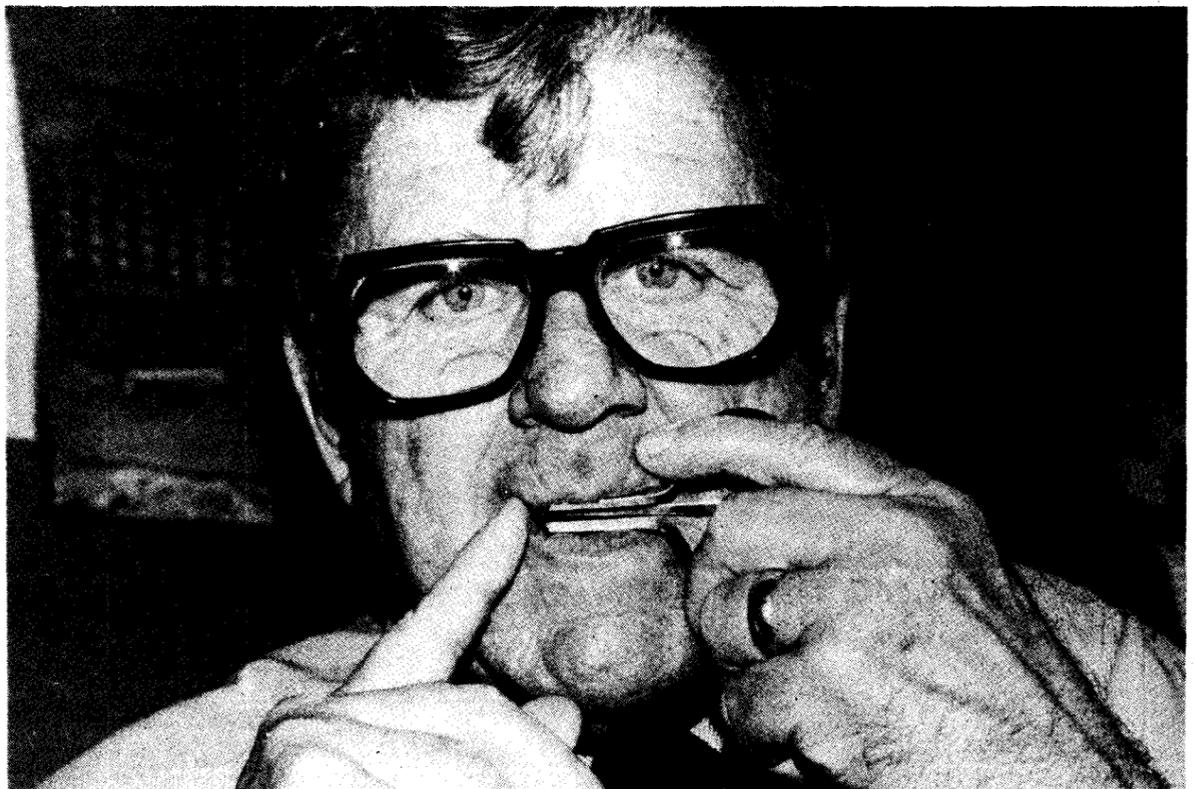
"We were working out of the diesel shop, then. Down on the old Arsenal where the machine shop now is. Used to pick up orders there—

"When I started in 43 we moved big loads from the chemical plant. I ran the largest engine, so we pulled some long, heavy loads. Used to run them to the classification

(Continued on page 12)



James McLaughlin



What is this man harping on? Find out on page 9.

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# OPINION

## Armed Forces Voters' Day: make your ballot count!

On 7 November, Americans will go to the polls to elect United States and State Senators, Representatives and many other state and local officials. More than one million Army voters — soldiers and their dependents — will be eligible to cast ballots in this election.

Most of these Army voters will be absent from their home voting districts, but are guaranteed the right and opportunity to participate through the absentee voting process. The Army's 1978 Voting Assistance Program ensures them that opportunity. Voting officers throughout the Army have been diligent in their efforts to make all necessary voting information, assistance, and materials available to every eligible Army voter. The observances planned for 7 September 1978, Armed Forces Voters'

Day, are the culmination of this effort.

I ask you to join me in urging each soldier or Army dependent who wishes to vote in the general election to contact his or her Voting Officer for help in obtaining an absentee ballot. It should be done now, to allow sufficient time to apply for the ballot, mark it, and return it to election officials before election deadlines. In this way by exercising this right and privilege, Army voters can make their ballot count.

In order to guarantee a successful Armed Forces Voters' Day, I further request your cooperation to ensure that the effort is properly planned, publicized and conducted at each Army installation and facility. **Clifford L. Alexander, Jr., Secretary of the Army.**

## Today's Army

It's ready and competent, says Chief of Staff Bernard Rogers

NEW ORLEANS (ARNEWS) — The Army's top general challenged misconceptions about today's Army and insisted that it is ready and competent during an address before the American Legion Convention here.

Army Chief Of Staff General Bernard W. Rogers told his audience that the Army's "unprecedented effort" of maintaining a 1.3 million volunteer force during peacetime is successful, despite some "growing pains."

But it's greatest challenge, he insisted, is reaching adequate strength levels in the Reserve forces.

Saying that women are playing an expanding role in the Army today, Rogers explained that, despite their being barred from close combat, "They will deploy with their units should we have to go to war."

Discussing the education levels among soldiers today, the Chief Of Staff cited figures showing an improvement in high school education levels. Late into World War II, he said, less than 40 percent of soldiers were high school graduates. At the height of the Korean War, he added, high school graduates in the Army made up less than 50 percent of the force, increasing to 70 percent during the last year of the draft and reaching 83 percent today.

Calling much criticism of soldiers "inaccurate," Rogers said "hundreds of thousands of fine soldiers have been unfairly maligned.

"The volunteer soldiers commanded by General Pershing prior to World War I and those led by General Marshall prior to World War II were not better qualified to be soldiers than those in the Army today," the general said, adding that this "historical perspective is important."

"Quality" of today's soldiers is an "elusive concept," the general charged. But, he stressed, "I believe that today's soldiers are among the best with whom I have had the privilege to serve in over 35 years of commissioned service."

Adding that "drugs have not incapacitated the Army," Rogers stressed that drug problems reflect social trends among young men and women. Yet he insisted that "our responsibilities for national security should require higher standards than those prevalent in society."

Drugs, literacy, education and other concerns of the Army "place a premium on good leadership," Rogers continued.

"Many of these challenges are eternal. They have faced all commanders through the ages . . ." he commented.

"Our task today is the same as has always faced the Army: To take these young people who join us, transform them from civilians to soldiers, and train them well so as to produce soldiers who are better as individuals, better members of the team, and better as citizens once they return to civil life after honorable service in uniform."

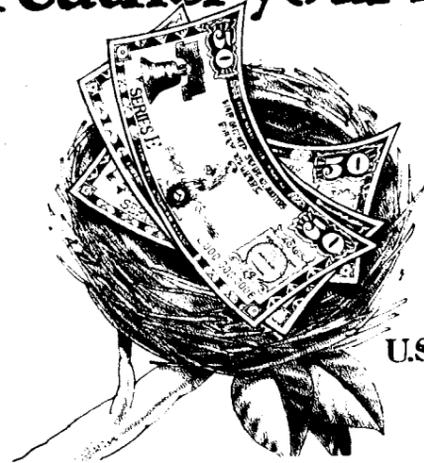
An important challenge continuing to face

### MOS swap sought

A 24K at Ft. Bliss, Texas, is looking for a trade to a 24K position at Redstone.

If interested contact PFC Wertz, HHB, 5-57 ADA, Ft. Bliss, Texas, 79916.

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## Letters

Dear Editor:

I am a veteran who served in the Air Force from 1955-58. I used my veteran's preference to add to my FSEE score and was consequently accepted into the DARCOM Intern Program in 1974.

I am grateful that I had this extra help after 16 years of not working. However, I understand the feelings of the non-veteran who has worked many more years in a job similar to mine, but who falls out on the retention list below me merely because of veteran's preference.

Now that I am a career federal employee, I feel that promotions and retentions should be based on merit rather than preference.

In my opinion the proposed revision to the veteran's preference would continue to benefit the veteran without unduly penalizing the non-veteran.

Ms. Elaine Plaia

## THE REDSTONE ROCKET

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

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**Becky Canterbury, Madison County Maid of Cotton, lends moral support to Sp5 Phillip Gaerland at the 6th S. C. blood drive, Thursday.**

## CFC preparations made

Calling for a "Campaign to Potential," Lee Watson completed preparations last week for the Combined Federal Campaign at Redstone and throughout the Huntsville Area.

The Area CFC Coordinator told a meeting of agency monitors that all of the preliminaries had been completed and a full scale training program is underway.

The monitors who will direct the fund raising effort within the various Federal agencies also heard from representatives of the Huntsville-Madison County United Way and the National Health Agencies. Hal Maddox outlined the mechanics of solicitation and Frank DuVall presented the agenda for the campaign kickoff.

Solicitation for the 1979 Combined Federal Campaign in the Huntsville Area will get underway on Monday, September 25, and continue for a six-week period. There will be 24 participating agencies involving more than 20,000 military personnel and civilian employees.

Watson told the monitors, in introducing

his "Campaign to Potential," that the potential gift to the many health and social service funds should be in the vicinity of \$575,000 and that is the final figure we hope to reach by the close of the solicitation in November.

"That is about \$37,000 more than was raised last year and would bring the Area back to record heights of 1972," he said.

"It is a figure well within our means," Watson added, "but one that is going to require a lot of dedication on the part of the individual solicitors."

That is the purpose, he explained, for the heavy schedule of training sessions being conducted in each of the participating agencies. They are intended to familiarize the monitors and solicitors with every facet of the overall drive.

"If this small group of volunteers who are conducting the training sessions are able to transfer their enthusiasm and can-do attitude, there will be no doubt that the 1979 drive will be a huge success," according to Watson.

## GS-800s get pay increase at 7,9 levels

An increase of more than \$1,000 per year in the salaries of all federal employees in the architectural and engineering professional series at the GS-7 and GS-9 levels took effect Sunday September 3.

The pay raise is a result of an adjustment of special minimum pay rates accorded federal employees nationwide who are in the GS-800 professional series.

Under the adjusted special minimum rates, the salary of a GS-800-07 step I is raised from \$14,802 to \$16,035 per annum with an increase of \$411 through each of the remaining eight steps.

Beginning salary for an architect or engineer at the GS-9 level is raised from \$16,096 to \$17,102 with each step increase amounting to \$503.

Special minimum pay rates apply in some professions where shortages of personnel exist at certain grade levels.

## General Stilwell speaks to AUSA

General Richard G. Stilwell (Ret.) will speak at the Sept. 14 dinner meeting of the Tennessee Valley Chapter, AUSA.

The general is a Senior Advisory Consultant to the Strategic Studies Center, Stanford Research Institute, and a consultant to several other research organizations doing defense oriented studies.

His active service spanned 39 years and three wars. He commanded an engineer battalion in World War II, an infantry regiment in Korea, an armored division and later a Corps in Vietnam; Sixth Army, Eighth Army and United Nations Command, Korea.

Social begins at 6:30 p.m. with dinner at 7:30 p.m. MIRCOM personnel can get tickets from the MIRCOM Protocol Office, 876-7135. MIRADCOM personnel, those from other government organizations and corporate members should call Betty Whitman, 876-4414 or 5815. Tickets cost \$5.75 each.

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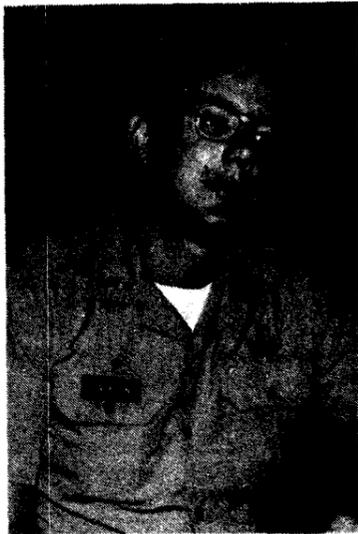


**How do you keep informed on political issues in your home state?**

**Do you exercise your voting rights?**



**WO1 Charles Fletcher, Co. A—**  
 “We were going to vote in Europe, but our absentee ballots arrived six months late. I probably won’t vote as long as I’m in the military. I have no comment about the political situation in Pennsylvania.”



**2dLt. George Jackson, Co. C—**“I do exercise my voting rights. I have a subscription to my local paper for the issues there. I feel that if you don’t vote, you shouldn’t complain about what our elected officials do.”



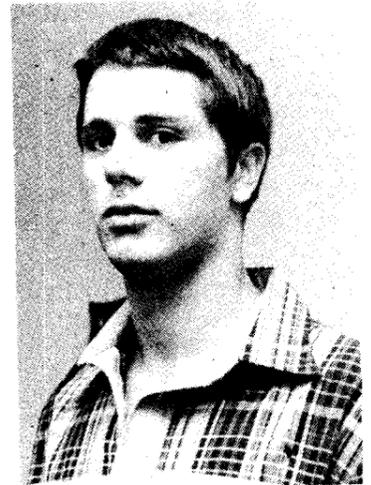
**Pvt. Barbara Ewing, 7th S.C.—**  
 “Yes I do vote. My mother sends me the political pamphlets and things so I can make up my mind. I feel it’s important to elect someone who knows what they’re doing and can do the job.”



**PFC John Smith, HHC—**“Yeah, I exercise my voting rights. Alabama is my home state. The television and newspapers keep me up with what’s going on. It’s up to us, the voters, to decide who’s going to run the government. We elect who we trust.”



**Sp5 Michael Armstead, Co. A—**  
 “Not as well as I’d like to. I haven’t really gotten involved. Most of what I learn about the candidates is just hearsay. I’m from Birmingham and all I have to do is listen to the radio, watch television or read the newspapers to find out what the politicians are saying.”



**Airman Richard Blei, A.F. Det.—**  
 “I usually don’t exercise my voting rights. I move around too much. But my wife or parents send me a newspaper every once in a while.”

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# Pocket rockets approach fielding

Army missile experts at sprawling Redstone Arsenal have yet to give the soldier a 'rocket for every pocket' but the Army Missile Research and Development Command (MIRADCOM) is working on a promising new idea giving the infantryman more 'pounce to the ounce.'

MIRADCOM has under exploratory development what looks like a bowling ball but attaches to the end of the M-16 rifle and, at the squeeze of a trigger, becomes a flying satchel charge accurate out to 200 meters.

"We have already demonstrated concept feasibility," said Burt Carpenter, Project Engineer for the Rifleman's Assault Weapon (RAW) in MIRADCOM's Advanced Systems Concepts Office. "We can make the sphere fly a straight line — and do it consistently," he explained, saying that flight tests have been conducted on the free rocket at Camp Pendleton, Calif.

## Awaits funding

"Now it's primarily a matter of packaging. MIRADCOM has asked for additional funding for a follow-on program to refine the experimental system and we're awaiting congressional approval of the FY 79 Appropriations Bill.

The Army awarded \$686,000 to Brunswick Corp. in Costa Mesa, Calif., in May 1977 for an 18-month effort to develop an improved release mechanism, design and test a smokeless motor, conduct wind tunnel tests and measure system accuracy.

In addition to managing that effort, MIRADCOM is working jointly with the Army Armament Research and Development Command for development of the warhead and fuze.

Carpenter said a 10-round flight test

program is planned at Redstone later this year.

Weighing approximately six pounds, RAW will be a lightweight weapon particularly suitable for city fighting against targets such as buildings, vehicles, personnel, light armor, roadblocks, on breaching heavy walls.

RAW is simple to use and won't require special training or a dedicated crew, Carpenter said. In operation, the spherical rocket would be removed from a shipping container and attached to the M-16 by sliding the launch frame over the end of the barrel and attaching the spring-loaded latch to the bayonet clip.

The soldier aims the rifle and pulls the trigger. About 2-10ths of a second later, RAW takes off and flies to the target. Since backblast is minimal, the weapon can be

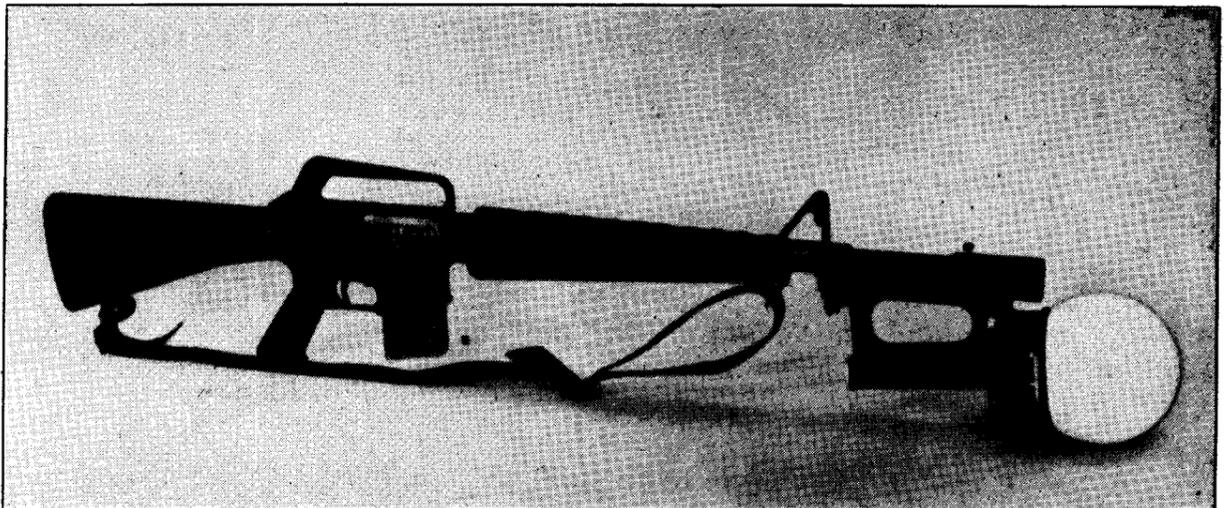
fired from open or enclosed areas without endangering the rifleman.

RAW, flying a flat trajectory, will be accurate out to 200 meters but will go much farther if fired in a ballistic trajectory.

RAW could be equipped with several warheads, depending on the infantryman's needs, Carpenter said, including high explosive, fragmentation, smoke and flame.

One of the unique features of RAW, is the system's 50 percent payload-to-weight ratio. Three of the six pounds of total weight will be high explosive. This is almost an order of magnitude better than presently fielded weapons.

The combination of light weight, accuracy, firepower, low signature and versatility make RAW particularly suitable for the infantryman and an urban-assault role.



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SM 5001 MANAGERIAL ACCOUNTING & CONTROL	9 OCT	18 DEC	MONDAY
SM 5074 INTERNATIONAL LOGISTICS	9 OCT	18 DEC	MONDAY
CM 5031 PROCUREMENT — THE LEGAL CONCEPTS	9 OCT	18 DEC	MONDAY
SM 5005 ECONOMIC ENVIRONMENT OF MGMT. II (MACRO)	10 OCT	19 DEC	TUESDAY
SM 5017 PROGRAM MANAGEMENT	10 OCT	19 DEC	TUESDAY
SM 5032 PERSONNEL MGMT & INDUSTRIAL RELATIONS	10 OCT	19 DEC	TUESDAY
CM 5011 PROCUREMENT & CONTRACT MGMT & ADMIN I	11 OCT	20 DEC	WEDNESDAY
SM 5022 ANALYTIC METHODS IN MANAGEMENT	11 OCT	20 DEC	WEDNESDAY
SM 5062 LOGISTICS POLICY	11 OCT	20 DEC	WEDNESDAY
SM 5004 ECONOMIC ENVIRONMENT OF MGMT I (MICRO)	12 OCT	21 DEC	THURSDAY
CM 5017 CONTRACT AND SUBCONTRACT FORMATION	12 OCT	21 DEC	THURSDAY
SM 5007 MANAGERIAL STATISTICS II	12 OCT	21 DEC	THURSDAY

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

# "Uncle Sam needs us."

*Patricia & Sheltra*



Sergeant Robert Sheltra is an infantryman. He reenlisted because he enjoys his work and his life in the Army. His wife, Patty, agrees. "I like Army life. The benefits are good. The medical help. And the travel. I've gone to more places, met more people than ever before. I have a lot of friends here in the Army. My husband enjoys his job. He likes the people he works with. I've always liked the Army. I would encourage anyone to reenlist."

Maybe your husband should have a chat with his career counselor. He may find out just how much Uncle Sam needs him.

**Keep a good family in the Army.**

## Ragano to address DC conference

Brig. Gen. Frank P. Ragano, Commanding General of MIRADCOM, and Clarence A. Tidwell, Deputy Program Manager for AHAMS and Viper, will be among the speakers at an upcoming Systems Acquisition Management conference.

The conference will be presented by the American Institute of Industrial Engineers (AIIE) in Washington, D.C. on Sept. 25-27. The AIIE urges all federal workers whose jobs involve Systems Acquisition to attend.

The conference will focus on new policies, regulations, and programs in the Federal government's systems acquisition process. It will feature speakers from many areas of the government and from some private corporations.

The first and third days of the conference will tell what the new policies are and suggest means of implementing them in both military and civilian agencies.

On the second day of the conference, participants can choose to attend one of three case study sessions — one dealing with responsive proposal techniques, another with civilian agency programs, and a third about military programs.

Ragano and Tidwell will speak at the session on military programs. Ragano will discuss The U. S. Roland Program and Tidwell the Advanced Heavy Anti-Armor Missile System (AHAMS).

Those wishing to attend the conference or find out more about it can call AIIE at (213) 450-0500.

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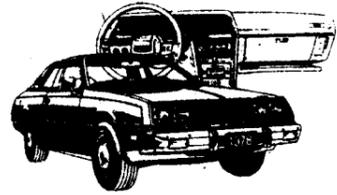


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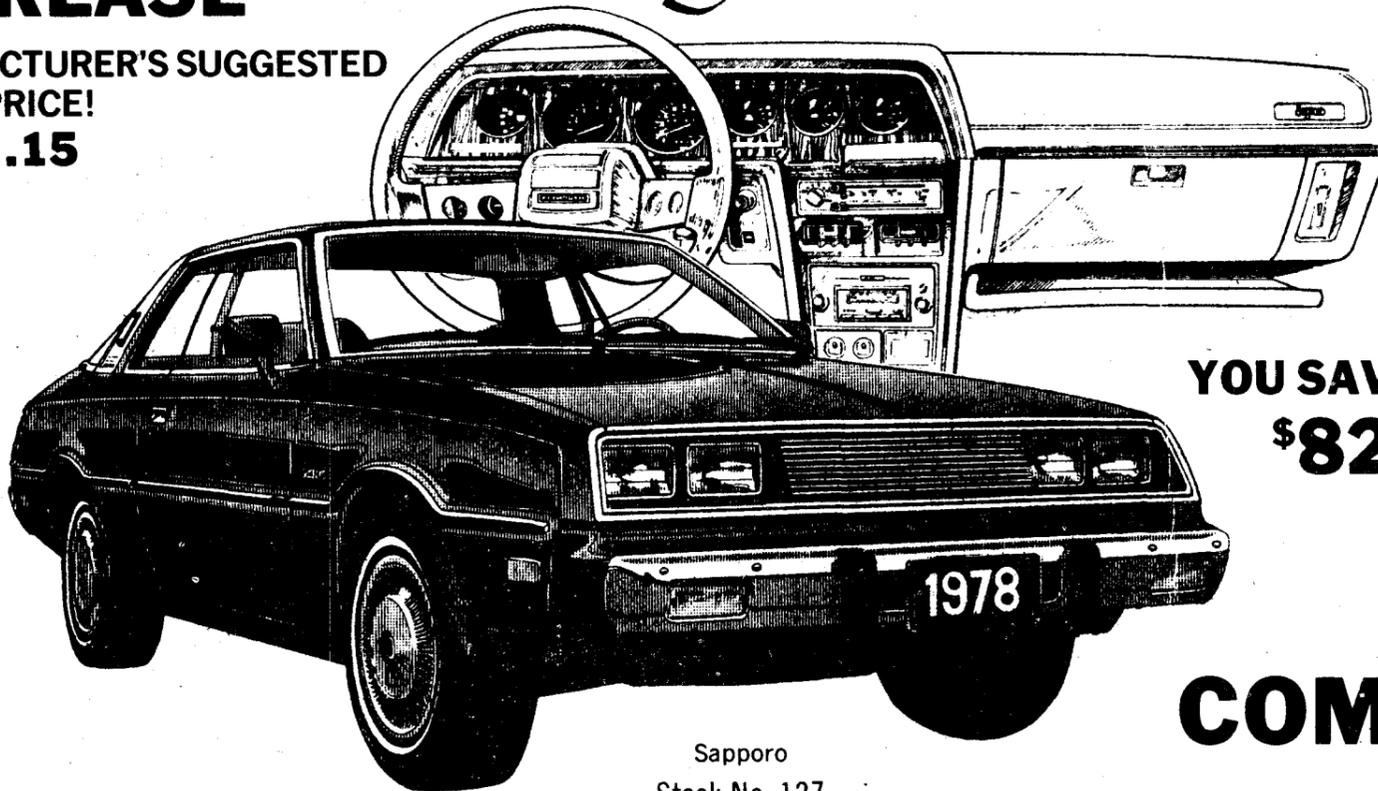
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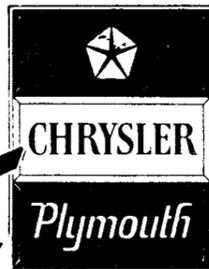
G. W. Milner, New Car Mgr.  
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# TV celeb, harpist. . .and alcoholic



By KATHY HOUSE

He has been Wolfgang, the biggest dog in the world; a cameraman for Jackie Gleason; an avid student and teacher; a tireless propogandist for the Jew's harp; an alcoholic and a recovering alcoholic. So who is this Bill Shaw, anyway?

He is Redstone's Alcohol and Drug Control Officer. Wait . . . there's more.

Shaw's colorful past in the early days of TV and his personal struggles as a recovering alcoholic have given him a wide range of experience and a deep concern for others. His eyes are direct. So are his words.

"I'm supposed to be a drug 'controller', involved in alcohol 'prevention'," he said. "But in reality I can't control or prevent anything."

Therefore he doesn't try to throw his weight around with the troops.

"I tell them 'I don't care what you use,'" he said. "But, if you make the decision you want to quit and can't kick it — then come see me."

This doesn't mean that he doesn't take his job seriously, or that he's not interested in prevention. Shaw provides training for supervisors on recognition and referral, talks at local schools, and makes training materials available in other communities as well.

He also continue to take courses and keep up with the reading in his field.

"In this field, if you're standing still, you're likely to be going backwards," he said.

Shaw became interested in alcohol and drug abuse prevention because of his own experiences with alcoholism. Despite his alcoholism he had maintained a successful career in Miami television — a career that went from his playing Wolfgang the biggest dog in the world on a local children's show to working in virtually every facet of production for shows coming out of Miami during the days of live TV.

Shaw's television career culminated when he became cameraman for The

Jackie Gleason Show, but after a few years he became bored.

"How many times can you listen to 'And away we go?'" he said.

He applied to work at the TV department at Redstone, making tapes about alcohol and drug abuse. He had been dry then for four years.

After working in the film department, Shaw went on to become the Civilian Program Coordinator for Human Resources Development. He now has a temporary promotion to Alcohol and Drug Control Officer.

Working for Human Resources Development has given Shaw a chance to teach, something he enjoys immensely.

"I can draw from my background . . . and establish a more informal session," he said.

Besides giving lectures on alcohol and drug abuse, Shaw taught a course at UAH on the Jew's Harp and other primitive musical instruments. His interest in Jew's harps came from his wife's expression "fiddlesticks and Jew's harps," which she used when exasperated.

Now he owns about twenty or thirty harps.

"Somewhere on me at all times you'll find a harp," he said, gesturing to the one he was wearing as a tie clip.

He even uses the harp in his drug abuse lectures in order to help establish an informal atmosphere.

"I learned . . . as Wolfgang the biggest dog in the world that kids naturally love the Jew's harp and want to learn to play it," he said.

Besides establishing an informal atmosphere, Shaw says that when talking at schools, "you have to be upfront and deal with things honestly."

He said that kids want to know about drug abuse, but that they are wary of someone who just comes in and tells horror stories about marijuana.

He said that the biggest response he has gotten from school kids, especially girls, has been to a film showing the dangers of a mother's drinking to an unborn infant.

Shaw stresses the role of the parent in influencing a child's attitude toward alcohol and drugs.

"Parenting is the most important job in the world — and the hardest," he said. "If children do not receive from parents the things that they need, they will look for them in other significant adults."

Shaw said parents encourage drug abuse



in their children when they drink and smoke themselves.

Shaw said that drug abuse is a complicated subject to work with. "You may deal with someone who severely abuses a legal, socially acceptable drug (like alcohol). Then there are those who may occasionally use an illegal drug (like marijuana)— is that drug abuse or not?"

Even talking about addiction is a problem since people may mean different things by that term.

"All we really know about addiction is that it is externally marked by compulsive use of the drug and that ending that use causes withdrawal symptoms. Marijuana and cocaine have no withdrawal — cigarets did for me."

With use of drugs becoming more widespread and accepted, Shaw believes it is important for counselors to treat the behavior of the addicted person, and not give him lectures on what and what not to use.

Asked how a person could help someone close to him who had an addiction problem, Shaw said that those around an addicted person should not help him delude himself.

"Alcoholics play games," he said. "They need a persecutor, a supplier, a rescuer — if you play their game they'll go on."

Shaw said an alcoholic has a chance to end his drinking when he "bottoms out," or loses his support system. He said that his ability to stop drinking came from a power outside himself — something he calls God.

"You don't intellectually decide to become an alcoholic . . . or to stop. "It's an emotional thing."

Shaw is glad to talk about his alcoholism if it will help others. He said that the admissions of prominent people that they had had drinking problems helped him to overcome his own drinking.

Of those who look down on him because he is a recovered alcoholic, Shaw said:

"I couldn't care less — at least I'm able to identify what's wrong with me, and being able to identify it, I can do something about it."

Shaw's life is now full.

"When you take something out of your life you have to put something back in," he said. "I've put in teaching, taking classes, training . . ."

And the Jew's harp?

He smiles broadly. "The Jew's harp is part of it, too."



# Rolling Junkyard

## Unusual rig recovers (

The ungainly rig lumbers into position alongside an armed anti-tank missile lying battered on the ground. An operator shielded by armor plate activates a boom. Slowly it sweeps outward, extends and lowers. A clamp locks on to the unexploded round. There are tense minutes as the boom lifts and guides the deadly object into a blast-proof container.

Serious business, recovering dud missiles with live warheads, but the recovery crew at Miradcom's Test and Evaluation Directorate find it hard to keep a straight face while doing it.

The source of their amusement is the recovery rig, which they know is a rolling junkyard even though it does a masterful job of recovering dud missiles.

They aren't the only people amused by it. Gawkers stop their cars and line windows of buildings to watch the road show when the rig passes enroute to retrieve a dud on the test range.

The recovery rig consists of trailer pulled by an armored personnel carrier. A garish coat of paint, orange that looks as if it were luminescing under black light, is said to be for range safety but it also draws attention to the trailer's unusual engineering features. Features like the telescoping boom, fashioned from pieces of aluminum pipe found in the scrap pile behind Bldg. 4505. The boom pivots on a 3/4 ton Chevrolet truck differential bought at a junk yard.

### Finding the parts

Finding other parts was somewhat more difficult. The surplus equipment pool yielded a hydraulic cylinder off an old Sergeant missile launcher. It's used to make the boom extend and retract. Hydraulics from a Hawk launcher cause it to rotate. Various valves, solenoids and miscellaneous but useful mechanisms turned up in searches of old parts bins. The Chaparral system provided a servo motor. The power plant was once part of an R&D experimental vehicle.

This strange array of hardware is packaged on a Nike-Ajax radar trailer

found at the surplus pro

"We did have to buy  
Everett Edwards, :  
apologetic. Principal  
recovery rig, Edwards  
involved in building it at t'  
Group of T&E Directorat  
Division, is as proud o  
bargain-basement natu  
apparatus as he is of th

It has performed well.  
14 missiles have been r  
hitch. Earlier practice h  
the dud rounds in plac  
could never be known  
round to fail.

### Time and n

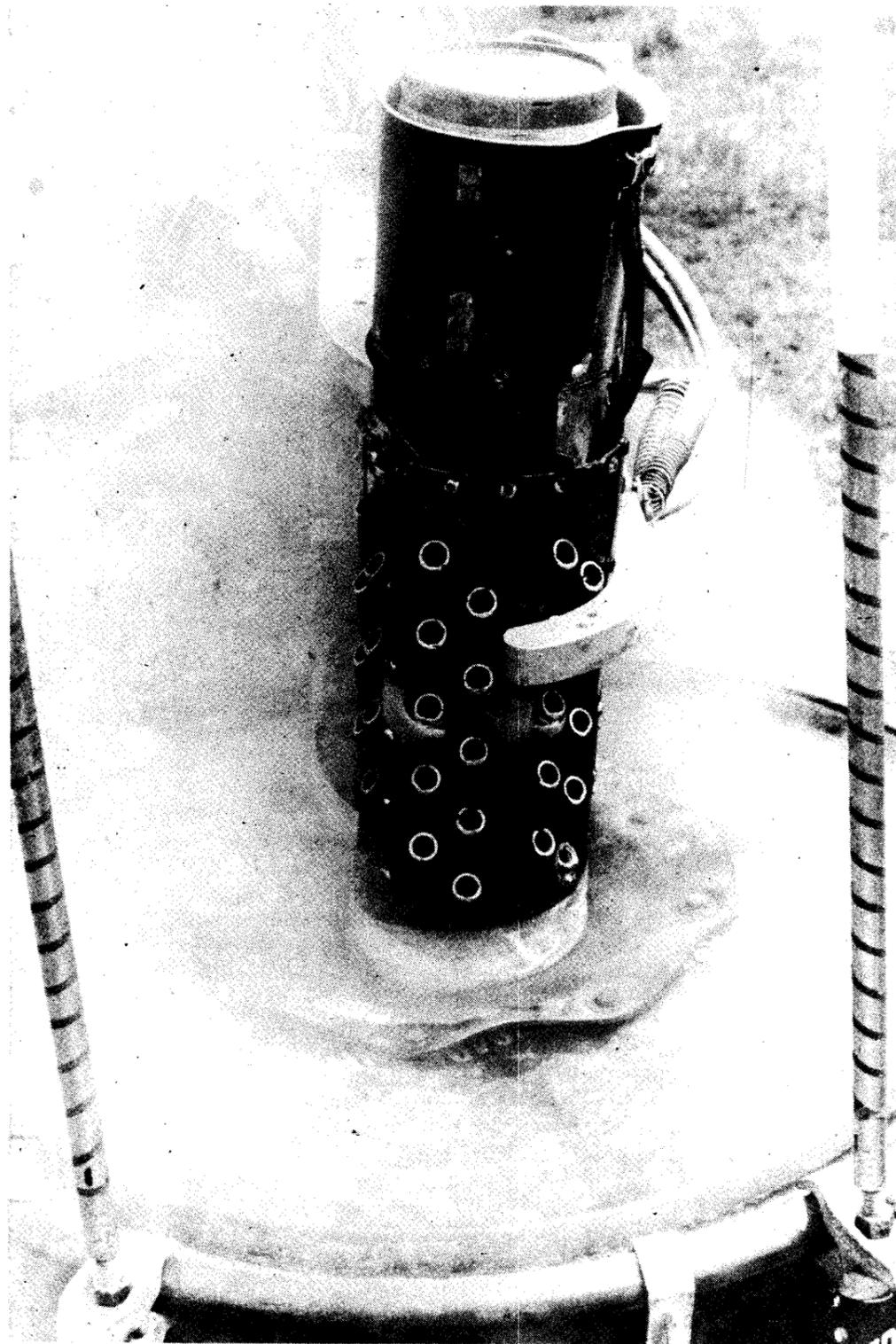
A succession of failure:  
urgent need of a metho  
disarm missiles so failure  
performed. The Mechanic  
told to find a way. The  
mediate problems, mon

Mechanical Test Gro  
Chappell called the gro  
brainstorming session. "  
went into the hopper .  
reasonable, how much i  
much time we had, wha  
with," Chappell recalls.

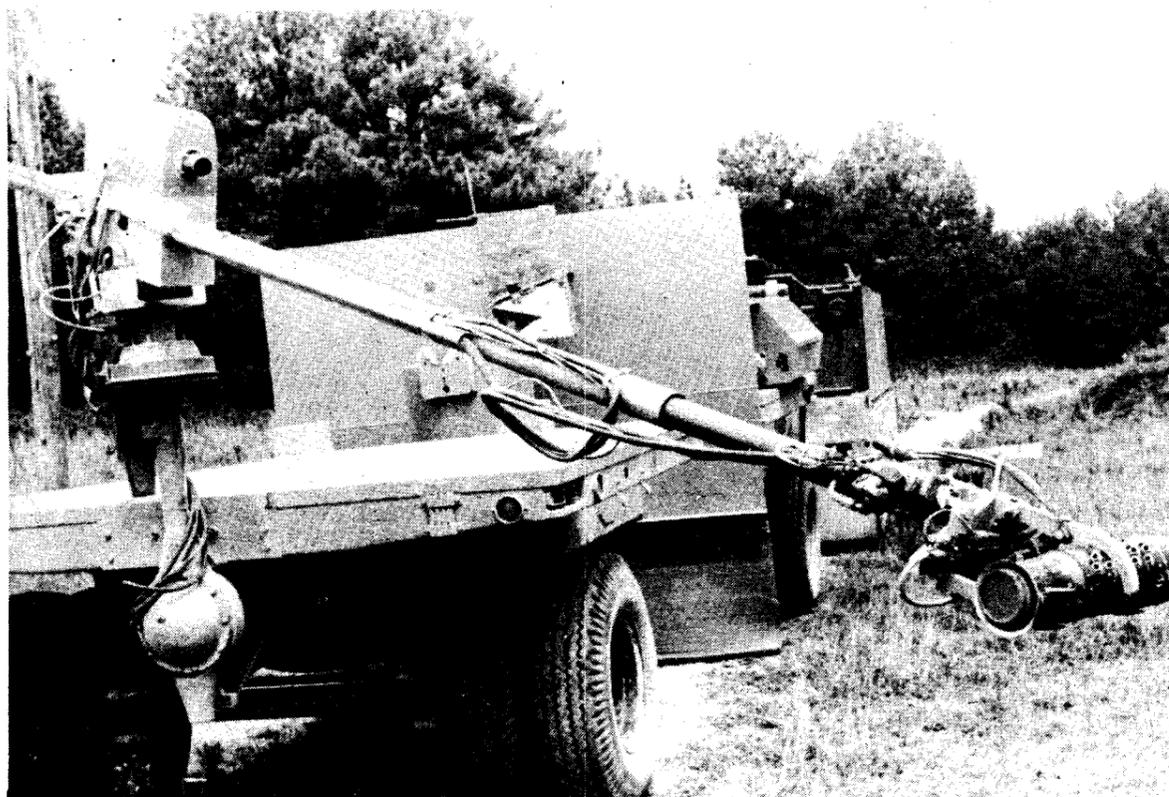
They considered buyi  
vehicle used for similar w  
it for their purpose. '  
rejected when the  
modifications was calc  
"So we decided to build  
heap," Chappell said wi

Within one day of  
requirement, said Edwa  
tentative concept drawn  
accepted. They were tol  
work progressed they al  
salvage yard and drawin  
former often dictating wh  
latter.

They began building it i  
ready by August and got  
itself on a live warhead



**The dummy dud round is all steamed up. The steam vat is an old 55 gallon drum.**



**The boom pivots on 3/4 ton truck rear end.**



**The dud missile is recovered by remote control from inside the armored personnel carrier. A TV monitor displays images from cameras outside.**

rd

## Dud missile rounds

erty yard. "A few items," says the designer of the like all those in the Mechanical Test e's Reliability Test of the home-made, re of the homely way it performs. In just over a year recovered without a ad been to blow up. But that way it what caused the

### Money

brought about an d to recover and analysis could be al Test Group was re were two im- y and time. up Chief Frank up together for a All kinds of ideas . . . What looked would cost, how t we had to work

g a commercial ork and modifying his was quickly cost without lated at \$100,000. it from the scrap h a laugh.

receiving the rds, they had a The concept was d to proceed. As ternated between g board, with the it appeared on the

June 1977. It was a chance to prove n September.

Inside the armored personnel carrier, the operator's hands play deftly over rows of switches in a home-made wooden control box with rope handles. The switches control electro-hydraulic mechanisms that operate the boom and guide the pick-up mechanism to the missile by remote control. The operator observes the operation on a small TV screen displaying images from a boom-mounted camera and another trained on the missile from a tripod on the ground.

The first few rounds recovered were stored in a "safe box" while finishing touches were put on equipment to disarm them. The equipment, consisting of a trailer-mounted, remote control saw for opening up the missile and steaming apparatus for steaming out the explosive, like the recovery rig is an ingenious adaptation of scrounged materials.

The saw and steam systems, designed by Paul Grieb, now with Ground Laser Designators, ride on trailers built to haul Lance missile propellant tanks. One of the tanks now carries the water supply for the steamer. Both are hydraulically controlled by a valving system made up of 25-year-old missile repair parts.

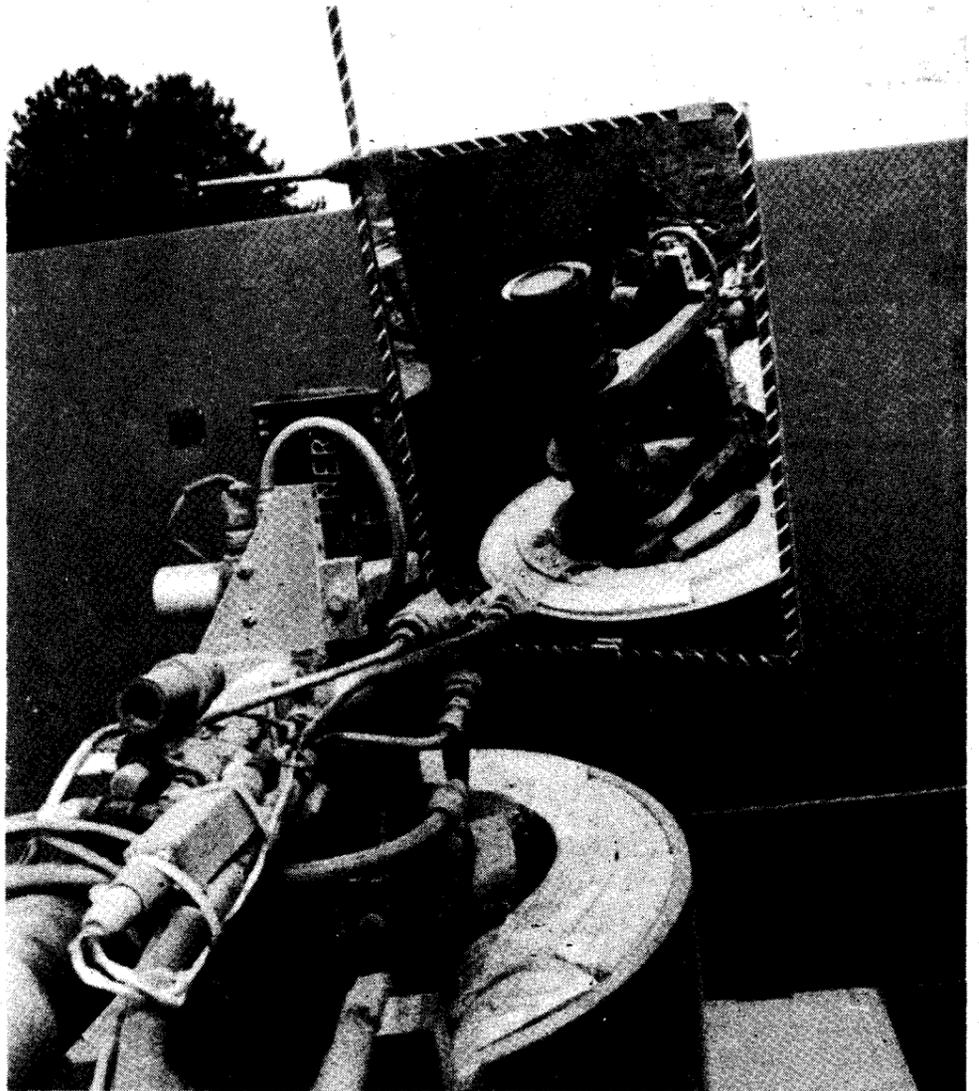
For the disarming operation, the remote control box is moved from the armored personnel carrier to a blockhouse protected by an earthen berm. The dud round in the pick-up mechanism is guided into the carriage of the industrial hacksaw. From inside the blockhouse, switches are thrown to lock the round in the carriage and start the saw. A jet of water sprays the saw blade to keep it cool.

### Warhead removed

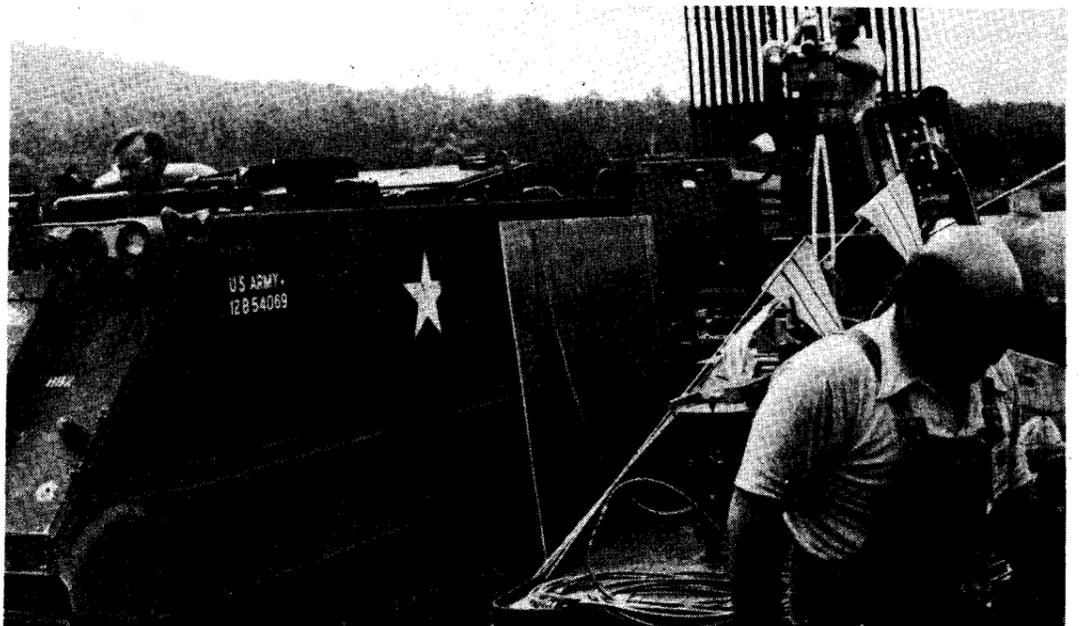
The first cut removes the warhead which is steam cleaned to remove explosive. The second cut exposes safety and arming mechanisms which are removed and subjected to failure analysis.

Presently there is a capability to recover and disarm Tow and Dragon missiles and new mechanisms are being developed to handle the Viper missile as well.

Warhead experts consulted warned that one in ten missiles would probably blow up during the operation. Edwards concedes that made him nervous the first time or two the operation was conducted, but says he has remained cool through all succeeding attempts. Except the 13th one.



**A bathroom mirror aids the boom-mounted TV camera as the round is guided into a blast-proof vessel, fashioned from an old lance test fixture.**



**It's a busy scene as equipment is set up.**

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# Wallet

(from front page)

yard. Ran them to the docks, too. That big crane down there was for coal, but we had big pumps down there to transfer the chemical to barges.

"Left for awhile to work for Union Pacific. Came back in 1950 and stayed until 63 when I retired."

The billfold?

"I remember losing it at the diesel shops. Doesn't have any money in it, but look."

He pitched a plastic laminated card onto the desk he happened to be standing beside. The card was white with black lettering and included a small photo of him 25 years back. The card said "Intra Arsenal Pass," plus other information about the bearer.

"Look here."

## Car papers

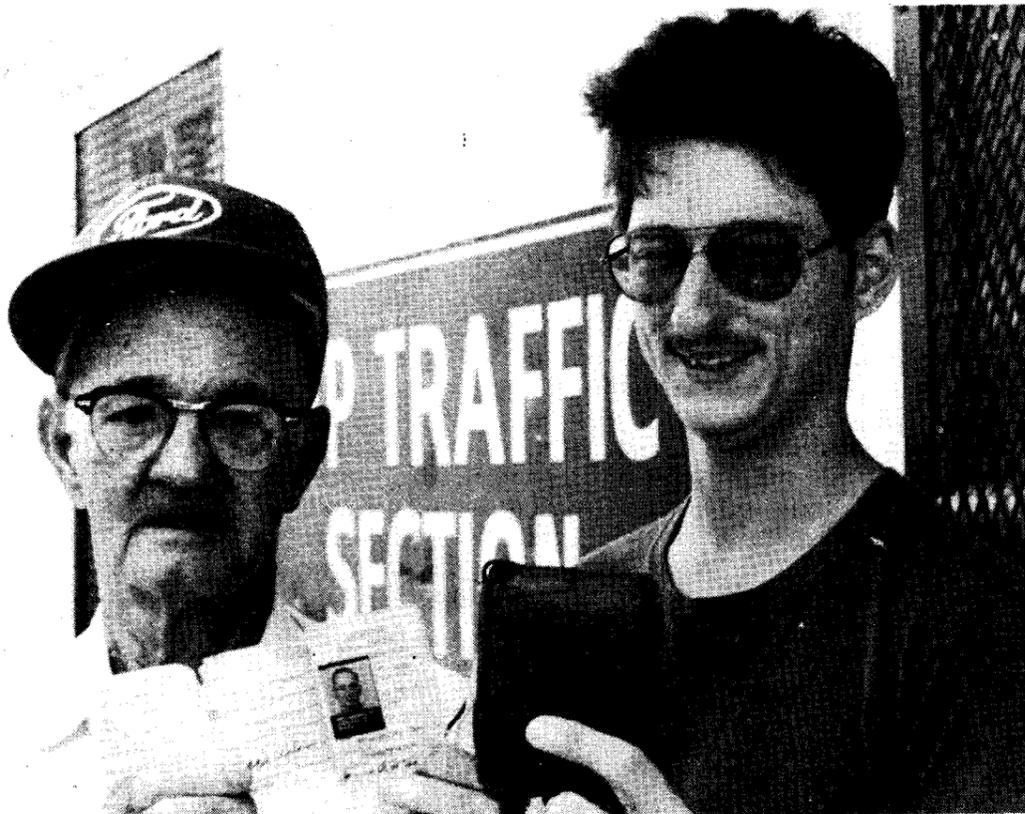
He pushed out another small scrap of paper. It was the registration slip for a 1950 Studebaker.

"Wish I had that little Stude now. I'd have \$1500 sittin' in my driveway."

"They gave me a bad time about that Stude at work, but I showed them in the long run. Was a good car — drive a 67 Torino now with 185,000 miles on it. First think I did when I got it was to get my grandson up here and rebuild the 351 engine into a 394. It really gets up."

"First thing I do is find out what makes something work. I even run a watch repair business, now, since the doctor won't let me do much work. Had two heart attacks since I retired."

"Got a 1916 Ford. Brass radiator, you know. Have a 1930 Chevy. Everyone is after me to sell it. It even has the free wheeling knob."



James McLaughlin, retired employee, and Sp4 James F. Mace, Military Police, display McLaughlin's long-lost billfold and

then-important papers from it, including an Intra Arsenal pass.

"Sure glad he found it," he said, referring to the billfold once again.

Sp4 James F. Mace, a military policeman, noticed the billfold crammed in a vent in an outbuilding near Gate 3. They tracked McLaughlin through papers still inside the billfold to his home at Rt. 1 Hartselle where he has resided throughout the years.

"Got to go through this," said McLaughlin of the billfold. "Some things in here the little lady shouldn't see."

His wink said he had lived long enough with the little lady that there wasn't much, if anything, she did not know about him.

"Let me take inventory. It's 13 grandchildren and six great grandchildren with a

switch order on another. We don't really want anything as long as we have the kids."

With that he bounced over to his Torino and dug off for Hartselle.

## Rachmeler to address Officers Wives Club

Major General Louis Rachmeler will speak at the Officers Wives Club annual sign-up coffee September 12 at 10 a.m.

Reservations are required and must be made by noon September 8. Last year's permanent reservations list will not be in effect.



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**ELEGANT COUNTRY HOME** — Including 7 acres and a 17' x 36' inground pool. This home is beautifully decorated with plush carpet, chandeliers, chair rail and extensive use of wall paper in all rooms and featuring large foyer, living room, dining room, den w/ fireplace, deluxe kitchen with all built-ins including micro wave and trash compactor, study, laundry room, bedrooms, 2 1/2 baths, double garage plus an additional 1425 sq. ft. Basement w/ fireplace, storm shelter, patio overlooking pool w/ privacy fence. Extra features include burglar alarm, fire alarm, intercom. If you want elegance, quality and privacy and only 20 minutes from Huntsville Shopping Centers, this one is for you. \$110,000. Nick Davis Rd. 533-1490.

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

**ADAMS STREET EXCLUSIVE**

**ADMITTEDLY EXPENSIVE** — But worth it! Over 4000 sq. ft. "Raised Cottage" is full of charm and history. 11ft. ceilings, 6 fireplaces, and 5 brick thick outer walls for low utility bills. This lovely home is surrounded by a beautiful lot. Gorgeous terraced back yard with patio, pool and cabana area. This is an exclusive listing priced at \$159,500. A "must" to see if you're in this price range and are interested in Exclusive "Wickham" Area. 883-1200

**HILLS — TREES — PEACE AND QUIET** — Beautiful new street and lot, underground cables — 4 Bedroom 2 story entrance foyer, extra large separate formal dining room, family room with large fireplace, 2 1/2 glamor baths, super efficient kitchen with large window looking into the trees. This home is just being completed and decorated by one of Huntsville's leading professionals. Located in Fox Run. Priced \$84,900. (04-C-14025) 883-1200.

**MONROVIA ACRES** — Beautiful built tri-level home with lots of room (6 1/2 acres) 4 bedrooms, 3 baths, basement & fireplace. Big machine shed & barn with stalls. Extra land available. (NRMAD) 533-1490.

**GET OUT OF TOWN** — 17 miles (or 20 relaxing minutes) to this 3 year old custom built brick rancher on 8 nice acres. Home features 4 bedrooms, 2 1/2 baths, large living area with great room, 3 bedrooms, 2 baths and all the extras. (06-0GP-879) 883-1200.

**A DECORATOR'S DREAM** — Tastefully and imaginatively decorated, this home offers 2800 sq. ft. of lovely living area. Four bedrooms; 2 and one half baths; living room with fireplace; den with fireplace and wet bar. Lots of trees and a garden. \$99,900. 881-9111. (04-MC-304)

**SPACIOUS LIVING** — That's what you will find in this lovely 2 story home in Tara. Features include 4 bedrooms, study, formal entry, large living & dining room, den with fireplace & fireplace in master bedroom, eat in kitchen with bay window, noby room, double car side entry garage, beautiful landscaping. (04-D-10137) 533-1490

**FUTURE FARMERS — ATTENTION!** You could really go for this elegant Colonial style home and 7 1/2 beautiful acres. The home is almost new custom built, and designed for gracious living. Very attractive foyer, formal living rooms, great den with brick heat & water fireplace, fully equipped deluxe kitchen and breakfast area, 2 1/2 lovely baths, 3 spacious bedrooms, super inside laundry, and oversized paneled garage with built in shelves. Utility bill is reasonable. The acreage is excellent for soy beans, timber, etc. Located in Limestone County. \$154,000.

**CUSTOM BUILT BASEMENT RANCHER** — This lovely custom built basement rancher is just the house for you. Large foyer opens into spacious formal living and dining rooms, den with fireplace, 4 bedrooms, 3 baths, kitchen with large eat in area, and many extra features. This house with 2176 sq. ft. upstairs has huge unfinished basement with bathroom and closet wallboarded and ready to be finished. \$77,900. (04-C-13011). 881-9111.

**PICK YOUR SHADE TREE** — and relax as the kids walk to school and the SE YMCA close by. Outstanding features of this new home include wooded lot, 4 BR's, family room, fireplace, decorator kitchen and quality extras found only in this price range. \$74,900. (04-B-10027) 883-1200.

**QUALITY MINDED?** — For those who appreciate the finest construction techniques as well as an up to the minute floor plan. Now is the time to own! NEW tri-level built by Scenic Homes with 4 bedrooms, 2 1/2 baths, convenient kitchen and breakfast area with a view. Family room PLUS rec room. Trees! Walking distance to Weatherly Heights School and Southeast Y. Better Hurry! (04-C-10002). 883-1200.

**ON A HILL WITH TREES** — Here is the home you've been waiting for. Situated on a tree shaded lot with minimum yard work for more leisure time to play golf or whatever. This outstanding brick rancher offers it all. Just step onto the huge deck among the trees and watch the squirrels play and smile in the bar-b-que smoke. Home featuring 4 bedrooms, 3 baths, formal living and dining rooms, den with fireplace and bookshelves, inside laundry, and a garage that beats all garages, over 1000 sq. ft. in garage. \$87,500. (04-HH3105) 883-1200.

**\$60's**

**PERFECT LOCATION PERFECT HOUSE PERFECT INVESTMENT** — close to schools, shopping, S.E. YMCA, you'll love this brand new tri-level under construction. Features 4 BR's, den, family room, bay window breakfast area, fireplace, professional decorating. (04-C-9013) 847,900. 883-1200

**CONTEMPORARY BRICK RANCHER** — For you Contemporary lovers. We've just finished this sparkling brick rancher built by Scenic Homes, a quality builder, and is ready for occupancy. Home features all GE appliances, Weatheron Heatpump, Large den with fireplace, 4 bedrooms, formal living & dining rooms, 2 baths, double garage, large kitchen, breakfast room. The best part is the price \$63,900. (04-GM2521). 883-1200.

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

**BASEMENT RANCHER** — 4 bedroom home in Fox Run. Approximately 1 1/2 years old. Equipped kitchen with breakfast bay, living/dining comb. den with fireplace, playroom downstairs, inside laundry, large double garage, deck, trees. Priced mid \$60's. Equity \$18,100. (04-W-516)

**OLD HOUSE FANS**... here's your opportunity. In the Wickham District, our new listing features 5 bedrooms, 2 baths, modern kitchen, split systems for heating-cooling, large living, dining, study & den. You will be a welcome addition to our dynamic, growing, prosperous Historic District, where the quality of life can only be rated as "Fantastic". \$66,950. (04-E-416)

**TRADITIONAL** — Ranch on lovely wooded lot. 1942 sq. ft. of living area, 4 bedrooms, 2 1/2 baths, the modern windows, Stone fireplace and fully carpeted. (04-A-13005) \$64,400. 881-9111.

**LOVELY WOODED LOT** — and a lovely 5 bedroom, 2 1/2 bath Williamsburg home in excellent condition. The den has full wall fireplace, carpets over hardwood, eat in kitchen, inside laundry and large redwood deck plus patio. (04-CT-12300) \$69,900. 881-9111.

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

**CHARMING VICTORIAN** — Would you believe right here in Huntsville is one of the loveliest Victorian homes that you can find anywhere? This home, located on a large park like lot, offers 4 bedrooms, 3 baths, 2 fireplaces, large front porch, formal living and dining room, study, large roomy kitchen, oak floors, 9 ft. & 11 ft. ceilings, detached garage and much much more. 881-9111. Priced in the 70's. (02-M-1506)

**ALL KINDS OF PLACES TO DO YOUR OWN THINGS**... such as: a REC. ROOM; a STUDY or HOBBY ROOM; a WORKSHOP in the basement; a HIDE AWAY SEWING

**AREA** that is the dream of every seamstress; a DEN with a fireplace. Lots and lots of storage space in this 4-bedroom home. Put your gardening talents to use on the beautiful nearby wooded lot. LOW \$90's. (04-P-4012)

**STOCK MARKET DOWN... WEST WIND!** End the year with a sound investment in a 160 acre lot with 3 bedroom brick rancher and 2 bedroom rental home. Over 40 acres in cultivation and the rest in timber. Keep the rancher and 20 Acres for your own mini-farm and sell the rest in 5 acre tracts \$135,000. (07-W). 881-9111.

**SOUTHEAST** — Super large home for active family, being redecorated in all areas. 4 bedrooms, 3 with walk-in closets, den w/ fireplace, 580 sq. ft. rec room, inside laundry, huge foyer and living-dining room. \$75,500. (04-E-2520) 883-1200.

**WALK TO WEATHERLY SCHOOL**... from your new 4 BR home. This home will give you formal living room, separate dining room, fully equipped kitchen & spacious breakfast area, den with FP & 1/2 bath on first floor. Upstairs 4 large BR's & 2 baths. This home is beautifully decorated in shades of dark rust carpeting & extensive use of wallpaper. Ready for your family. \$67,500. (04-C-9007) 883-1200.

**NEW LISTING** — LARGE FAMILY needed for this tri-level home in Fox Run S/D. Features include 4 BR's, great room with FP PLUS Rec. room, formal dining room, fully equipped kitchen, 2 1/2 baths & side entry double garage. That's not all! Come see this home & choose your own color. \$65,200. (04-C-14005) 883-1200.

**IS YOUR WIFE A DREAMER?** Has she been dreaming of decorating that new 4 bedroom brick ranch? Give her that chance while there's still time. New development now starting across from YMCA on Weatherly. Construction to begin soon on lovely 1970 sq. ft. rancher. Super location. \$65,900. (04-C-9005). 883-1200.

**DEN & REC ROOM**... Tri-level, 2000 sq. ft. Beautifully decorated and wallpapered in shades of rust and dusty gold. Four bedrooms, 2 1/2 baths, fireplace in den & Rec Room, paneled in plank English Oak. Large corner lot with fantastic view of the mountains. \$64,900. (04-S-1210). 883-1200.

**BRICK-CEGAR & STONE** — Enhances this brand new 2045 sq. ft. rancher. 4 bedrooms, 2 baths, lovely custom decor in the newest colors. Fully built-in G.E. kitchen. Den w/ fireplace + formal living & dining area. \$66,900. (04-C-9017). 883-1200.

**BELAIR SUBDIVISION** — Choice Southeast Location in Whitesburg Jr. High and Grissom High area. Multi-level home on acre lot has 4 bedrooms, 3 baths, big rec. room with fireplace, almost new heating and cooling system, new roof. This spacious home is only \$63,900. (04-S-7903). 883-1200.

**WALK TO GRISSOM**... from this 1 1/2 story Cape Cod. Features include 4 bedrooms, 2 baths, huge 14' x 26' den with stone fireplace, double garage lovely lot with fenced rear yard. Roof is only 2 years old, new carpet in den and new vinyl in kitchen. (04-H-7819). 883-1200.

**ROCKMONT-ON-CARDESSA** High above lake Guntersville rests a home of unique dimensions and character. A modified A frame, its three levels feature 4 bedrooms, 3 baths 28'x24' Great Room with a massive full masonry fireplace, luxurious, fully equipped kitchen, and loads of storage. A full width deck perfectly complements its setting on 2.1 acres of immaculately kept grounds featuring 600' of road frontage and intensely natural landscaping. It is pleasantly close (but not too close) to school, shopping, Turners Marina, Public docks, Guntersville and Huntsville. Asking \$64,900. We'll throw in its "Million Dollar View" of the lake below for absolutely nothing. (06-R2-Box 523 B). 883-1200.

**\$50's**

**HAZEL GREEN** — Custom built brick rancher on acre lot. Luxurious features throughout this 3 bedroom, 2 bath home. Large sunken living room w/ corner fireplace. Spacious paneled rec. room. Lovely kitchen with top quality appliances and bay window. Double garage. \$59,400. 533-1490 (06-G-135)

**NEW LISTING** — FLOOR PLAN (one of Huntsville's most popular!). This Great Room floor plan is one of the best. No wasted space, excellent traffic pattern, 1 level home, large isolated Master bedroom suite with huge walk in closet & spacious full bath, two more bedrooms plus conveniently located bath, formal dining room, eat in kitchen, master bath for mom's convenience. Side entry garage (double is a handyman's dream with a huge work area. The lovely 3 bedroom rancher is available in Fox Run for \$52,500. (04-M-14004) 881-9111.

**DECORATOR WANTED** — for this new four bedroom rancher in Fox Run S/D... Being built by one of Huntsville's best builders. You can put your decorating touch to it. Features include living room, dining room, large eat in kitchen, den (Sunny) with double garage & best of all, large Master bedroom with sliding glass doors away from the other BR's. Privacy plus. \$55,000. (04-A-1201) 883-1200.

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

**FROM EVERY WINDOW A BREATHTAKING VIEW!** Fall will soon be upon us and the hills will be alive with color. You'll feel so warm and cozy by the cheery fireplace in the huge great room. LARGE Kitchen has pantry and lots of cabinets plus eat in space. Separate dining room nearby. Bedroom wing is secluded with a convenient utility room, the master bath for mom's convenience. Side entry garage (double is a handyman's dream with a huge work area. The lovely 3 bedroom rancher is available in Fox Run for \$52,500. (04-M-14004) 881-9111.

**BUYING A NEW HOME? FIRST** — check this 9 year old 2-story beauty! 2260 sq. ft. of well planned living. NEW carpeting NEW condenser, freshly painted inside. The 4 spacious bedrooms will turn you out Separate dining, den 2 1/2 baths, inside laundry, 2 car garage, lovely flat and landscaped yard with privacy fence in back. Only \$59,900. (04-W-11308) 881-9111.

**BEGINNERS DREAMS**... come true with this older and spacious home 2 blocks east of Andrew Jackson. Under priced at \$19,900 and you will agree when you see the large rooms, lovely kitchen with lots of cabinets, carpeting in living room and master bedroom. (hardwood in 2nd bedroom) (02-1) 1028) 881-9111.

**ADD THE 4's, Space** — 2150 sq. ft. cooled area plus 2 car garage. Flat lot, 90 x 140 w/ privacy fence, garden spot, brick patio, impressive 2 story with 4 bedrooms, 2 1/2 baths, den with new fireplace, new carpet throughout, new compressor, new wallpaper, inside laundry. \$59,900. (04-W-11308). 881-9111.

**NEW LISTING** — SHERWOOD PARK'S nicer homes — with fireplace on inside and trees on outside — is tastefully and beautifully decorated, with new carpets, LR/Dining Rm comb. 3 BRs. 2 1/2 baths, large eat-in kitchen, Rec Room, utility Rm., and workshop inside. Extra insulation, makes utility rates very low. Price \$3,500 (03-H-513). 533-1490.

**A NEAT HOME, A NICE NEIGHBORHOOD, AWAITING A NEW FAMILY!** — This 4 bedroom brick rancher is in walking distance to Chapman school, has fruit trees and fenced yard. Inside you will find nearly new carpet in living and dining room and 4 bedrooms, you will note the master bedroom is King size. The house also has 1 1/2 baths, a kitchen and den combination, and double garage. This house is located at (02-H-1811) — priced at \$53,900. 533-1490.

**REC ROOM PLUS 4 BEDROOMS** — Located in beautiful Fox Run with a fantastic view of Green Mountain. Over 2,000 Sq. Ft. of living area, fully carpeted, central heat and air, living, dining, den with fireplace. Kitchen with breakfast bar. 2 baths. \$59,500. (04-C-13019). 881-9111.

**NEW BRICK RANCHER**... in Fox Run... featuring a huge great room with beamed cathedral ceiling & fireplace, 3 bedrooms, 1 1/2 baths, foyer, dining room, large eat-in kitchen, inside laundry, all beautifully decorated, double garage, storm windows & doors, 10 yr. home warranty. (04-M-14012). \$55,500. 883-1200.

**DUPLEX** — looking for a good investment? Very attractive Colonial Duplex. Unit has living room, large eat-in kitchen, 3 bedrooms, bath and inside laundry. Unit B has living room, eat-in kitchen, 2 bedrooms, bath and inside laundry. Both units rented. (2722C) 533-1490. \$54,900.

**MONTE SANO** — Newly decorated sprawling rancher on a huge corner tree studded lot. 2 fireplaces enhanced with book cases. Three bedrooms, 2 full baths. The large "on the ground" deck can be viewed from a wall of glass in dining room. Built in kitchen w/ file breakfast bar. New central heat & air. Low \$50's. (04-HP-3320). 883-1200.

**LARGE CORNER LOT W/TREES** (corner Strong & Dell) — Good Southeast area. Brick rancher with 2000 ft. All rooms large. 3 BR's, 2 bath, nice kit/den combo. DBL carport. Carpet thru out. House in very attractively blended on well established lawn. Total price \$54,500. 533-1490. (04-S-8004)

**SOUTH OF HUNTSVILLE, NEAR LACEY'S SPRING** — Custom built brick rancher, only 2 years old in "new" condition. Quarry tile foyer, sunbeam living room, spacious country kitchen, 12' x 17' master bedroom suite, paneled den, plush carpeting, luxurious baths, heating and cooling by Carrier. 1 ac corner lot. 16' x 30' swimming pool. All for \$59,950. (06-R2L5). 533-1490.

**NEW LISTING** — UNIVERSITY PARK — This 2-story brick and redwood home is very conveniently located to shopping, schools, and fine restaurants. Outside you will note the immaculate yard and large deck... inside some

special features you will note are: Large eat-in kitchen with built-ins; 2 baths and a nice den. The living and dining rooms are L-shaped and good sized. All three bedrooms are spacious and the double garage is extra large. (01-9-1116). 883-1490.

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

**TO SEE IS TO DESIRE** — Don't miss seeing this very desirable 3 bedroom ranch home. This delightful rambler has many features you find in more expensive homes. Wood-paneled fireplace in den, 2 1/2 baths, carpeting throughout, exceptionally large lot and attached 2 car garage. There is also a diningroom and modern kitchen with all the built-ins... \$57,750. (04-G-2512). 881-9111.

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

**IMPRESSIVE SPLIT-LEVEL** in Fox Run, one of Huntsville's newest and nicest neighborhoods. Located on a corner lot with a great view of the mountains. Features 3 good-sized bedrooms, 2 baths, foyer, living and dining, den with fireplace, hobby room, inside laundry, central heating and cooling, double side entry garage. \$57,900. (04-SC-14001). 533-1490.

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

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

**CONTEMPORARY WALK TO GRISSOM** — A beautiful park like backyard surrounded by privacy fence is just one of the many lovely features of this 3 bedroom, 2 bath home. Other features include a spacious L shaped living and dining rooms, large quarry tile foyer, spacious pullman style kitchen, den with fireplace, inside laundry, separate storage building, and close to school and shopping. (04-MV-1018). \$56,950.

**HERE'S WHAT YOU HAVE BEEN LOOKING FOR** — Nice comfortable home and small acreage not too far from town. 1.5 acres of beautifully landscaped. Seclusion, front daylight basement with lots of room for expansion. Kitchen overlooks privacy of back yard. Carpeted master bedroom has its own bath. On city water. Carport plus 20x50 metal shed. Located on Hwy. 231 just South of Morgan City. Shown by appointment only. Nothing on the market like it for \$51,500.

**1976 SQ. FT.** of living area plus 2 car garage all add up to a neat package for the price. 3 bedrooms, 2 baths, fully equipped kitchen, 3 baths (04-CT-14004). 881-9111.

**3 BEDROOM AND STUDY** or 4 bedrooms, great room with fireplace, 3 baths, fully carpeted. Walk to Mt. Gap School. (04-CT-14010). 881-9111.

**SIESTA** in this Spanish ranch located in Gourdneck, 3 bedrooms, 2 baths, great room with fireplace \$54,800. (04-W-1518). 881-9111.

**STATUESQUE** 2 story brick with large lot. Formal living and dining rooms, 4 bedrooms, and 2 1/2 baths. Den with stone fireplace. Storm windows and finished double garage. (02-JL-1301) 533-1490.

**IT'S IN TO BE OUT** — Relax in beautiful Sunset Meadows. Rambling French Provincial by one of the best builders around. Quality construction very few houses offer. 4 bedrooms, 2 baths, large den with fireplace. Cham pagne appliances in kitchen. \$59,400. (02-JL-1118) 533-1490.

**GOURDNECK** — Continue on Chaney Thompson Rd. from our new basement ranchers and turn right at Gourdneck. View a lovely new Spanish ranch — 3 BR's, 2 baths, 2 car garage. \$54,800. 881-9111.

**BEAUTIFUL VIEW** — Under construction in one of Huntsville's most desirable neighborhoods, "FOX RUN". This tri-level features foyer, living room, dining room, den w/ fireplace, 4 bedrooms, 2 1/2 baths, eat-in kitchen w/ built-ins, central heat/air, carpet throughout, double garage. \$59,900. (04-M-14003). 533-1490.

**TRADE IN**... your old house on this new 3 bedroom home in Fox Run. Professionally decorated to please even the most discerning buyer. Large living room, dining room, cheerful eat-in kitchen with bay window, den with fireplace, inside laundry, large side entry garage. Almost ready for occupancy. (04-S-1205). 883-1200. \$56,500.

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

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

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

**BLUFF LOT** — with panoramic view of Guntersville Lake. 2400 sq. ft. Two kitchen, super den features a storage bench under a wide window and three bookcases and a fireplace (really something else) flanked by a stone wall. 4 bedrooms, 3 baths, separate living room & dining room. Inside laundry area, central heat and air. Exterior of cedar shakes & stones & western cedar. A deck that's the whole back of house. Only \$59,950. (06-R2-Grant) 883-1200.

**\$40's**

**MOUNTAIN PARK CIRCLE**... Beautifully decorated brick tri-level featuring 3 bedrooms, 1 1/2 baths, living & dining rooms, den, kitchen has all new appliances including dishwasher, low utilities, power ventilator, storm doors & windows, humidifier, mature trees & lush lawn, private back yard — no houses in back. (01-MPC-2707). \$43,900 or equity of \$10,500. 883-1200.

**GARDEN SPOT** ready for planting in this beautifully landscaped backyard with utility bldg. Attractive 4 BR home included, featuring large den, carpets throughout, large patio, and garage. Walking distance to Johnson High School. In the 40's. (01-PP-6032). 533-1490.

**MONTE SANO**... on a large wooded lot. This Contemporary rancher offers 3 large bedrooms, formal living and dining & great rec room. 2 full baths, ever-lasting vinyl siding and storm windows. (04-HP-3416). 883-1200.

**ONE ACRE** — BRICK RANCHER — Just listed this well maintained country home features a quiet and beautiful living room, dining room, 2 full baths, living-dining rooms, custom drapes, raised hearth fireplace, large comfy den. Special quality features consist of storm windows & doors, all vinyl eaves, gutters & downspouts, and 40 years guaranteed roof installed 7 years ago. \$45,000. (Bush Rd.) 883-1200.

**MERIDIANVILLE** — Drive out today and view this new listing right outside the city limits featuring 3-BR, separate LR, DR, nice den w/ fireplace, 2 baths, carpeted throughout, central heat/air, double garage situated on 1 acre lot. Located only 2 blocks from Colonial Country Club. \$33-1490.

**LARGE FAMILY**? Plenty of room in this BRICK tri-level living room, dining room, den, eat-in kitchen w/ built-ins, 4 bedrooms (2 king), 2 1/2 baths, double garage, fenced yard with trees. Mid forties. (01-R-2610). 533-1490.

**RUTLEDGE HEIGHTS** — This immaculate split-level located in super neighborhood features 4 bedrooms, 1 1/2 baths, formal living & dining rooms, den, huge, double garage. Conveniently located to shopping & Research Park. Offered at \$48,900. (01-F-1905). 883-1200.

**1812 KENDALL TERRACE** — Shiny bright 3 bedroom rancher located conveniently to schools and shopping. Living/dining room; 1 1/2 baths; nice eat in kitchen with built-ins. Central heat/air; storm doors & windows. Lovely fenced yard with garden spot and grape arbor. (01-KT-1812). 533-1490.

**AWAY FROM THE HUSTLE & BUSTLE OF THE CITY** — This lovely brick ranch home is located in Blue Springs Garden Subdivision and offers living-dining room, den, kitchen, 3 bedroom, 2 baths, huge double garage on almost an acre lot. Equity \$10,500, payments \$294.32. (06-6107-S.L.). 883-1200.

**DRAKE AVE.** Here is a very neat 3 bedroom rancher on large lot convenient to shopping, schools & medical district. Large living & dining room combination, eat-in kitchen, 1 1/2 baths, carport & fenced rear yard. \$44,000. Call for appointment. (03-D-117). 533-1490.

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

**DON'T JUST DRIVE BY** — Stop and let me show you this lovely home. The great street appeal of this brick split-foyer includes a beautiful landscaped yard of well trimmed shrubs and trees. Also the backyard has a developed garden, mature fruit trees, & still has enough room for the children to play. The friendly neighborhood will make you enjoy this 4 bedroom, 2 1/2 bath home just that much more. (01-HE-3317). 533-1490.

**FAMILY TREAT** — This 4 bedroom split foyer home is immaculate and ready for your immediate occupancy. From entry foyer step up to spacious L-shaped living/dining area. Eat-in kitchen onto screened deck w/ lovely view of valley; 3 bedrooms and 2 baths complete the upper level. Downstairs you'll find a king size bedroom, bath, and 12x20 paneled den w/ sliding door to patio and large fenced yard. Single oversized garage w/ workshop. \$43,500. (01-2904-B). 533-1490.

**YOU ASKED FOR IT**... More living area for your money — well this is it! New energy saving basement rancher with over 1800 sq. ft. of heated comb w/ stone fireplace, eat-in kitchen, 3 bedrooms, 2 baths, unfinished basement for your own innovations. 2 car rear entry garage. \$48,700. (04-CT-14012) 881-9111.

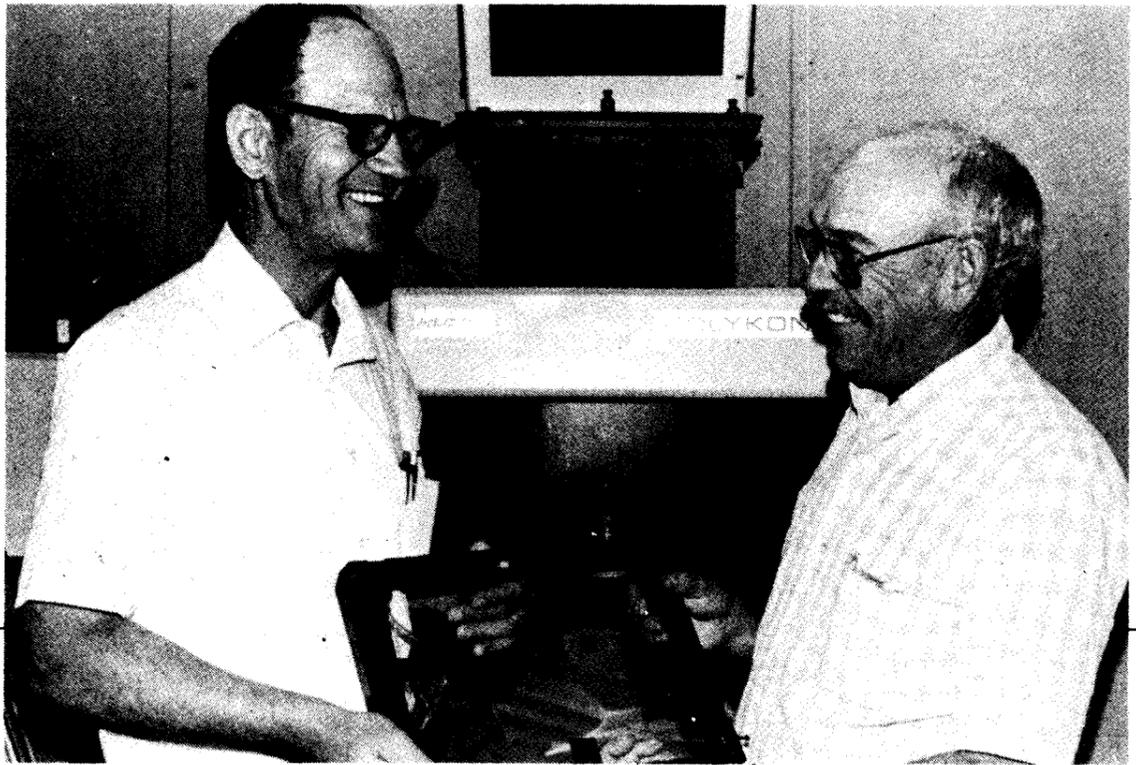
**IDEAL LOCATION** — Clean, excellent condition! Acre lot with trees, LR separate DR, Den, 3 BR's, 1 1/2 baths, priced for quick sale — This lovely brick rancher is a lovely Well constructed older home. \$44,900 (SL) 533-1490.

**YES YOU CAN!!!!** Have almost 2000 sq. ft. of heated and cooled area for this new energy saving basement ranch (with unfinished basement) and you can save on utilities; you can save on gasoline, as children can walk to elementary and junior schools, and you can enjoy your precious leisure on this shady lot with 2 car rear entry garage and lots of concrete pad for the skateboards and basketball. Yes — it is only \$48,700. Great room with fireplace, eat in kitchen, 2 baths (1/2 bath stubbed in basement) 3 bedrooms — all ready for you to select colors of carpet and appliances; etc. (04-CT-14012).

**CHOOSE YOUR OWN** — colors, carpet, wallpaper, etc. If you purchase this 3 bedroom, 2 bath tri-level now, this home offers foyer, great room with stone fireplace, eat-in kitchen, carpets throughout, and spacious garage. \$45,500. (04-S-1015). 881-9111.

**HAVE YOU ALWAYS WANTED** — to pick your own colors, etc. in a new home? This is your chance. Come by and look at this newly started tri-level with 3 bedrooms, 2 baths, foyer, great room with stone fireplace, eat-in kitchen, large double garage and much more... \$45,500. (04-S-1016). 881-9111.

**MONEY IDEAS** — According to their supervisor, Al W. Holderfield, when two engineering technicians get their heads together even engineering problems cannot deter them. Raymond Aldridge, left, and Edward Lang teamed up on the device they hold to win \$1,350 between them for their suggestion. Their development will change procedures of the step repeat camera use in fabrication of printed circuit boards and improve utilization of the plating and etching facility. The film holder they display makes use of reference pins. Each sheet of film can be aligned through the entire process enabling overlays for circuitry in multi-layers. The two technicians are employed in the Prototype Development Branch, Manufacturing and Technology Lab, MIRADCOM.




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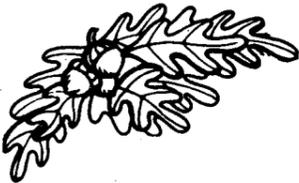
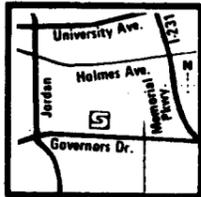
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Each .....	1.71	2x4 Per lin. ft. ....	.25

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Size	8'	10'	12'	14'	16'
1 x 4	.96	1.20	1.44	1.68	1.92
1 x 6	1.44	1.80	2.16	2.52	2.88
1 x 8	2.44	3.05	3.66	4.27	4.88
1 x 12	3.28	4.10	4.92	5.74	6.56

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## BUILDING Materials

4'x8' 3/4"	BIRCH PLYWOOD .....	27 <sup>95</sup>
80 LB. BAG	CONCRETE MIX .....	1 <sup>89</sup>
5/8"x12"x4'	PARTICLE BOARD SHELVING	39¢ each
2x4x8'	ECONOMY .....	85¢ each

**Thompson Roto Stripper**

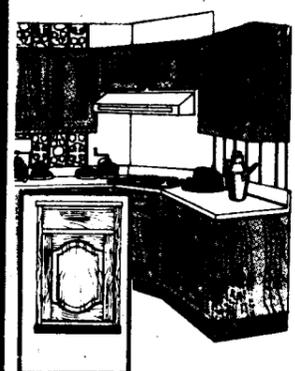
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2 Gallon Pail **11<sup>39</sup>**

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8'x10'	304 <sup>95</sup>	8'x10'	249 <sup>39</sup>
8'x12'	319 <sup>19</sup>	8'x12'	259 <sup>34</sup>
12'x12'	427 <sup>39</sup>	12'x12'	337 <sup>89</sup>

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# CSC, labor relations reorganization okayed

President Carter's plans to reorganize the U.S. Civil Service Commission and to consolidate Federal labor-relations functions into a single agency gained Congressional approval Friday, August 11. Provisions of the plan will be put into effect

on or before January 1, 1979.

The reorganization replaces the present Civil Service Commission with two agencies. The new **Office of Personnel Management** will carry out the Government's personnel management respon-

sibilities and advise the President on personnel policy matters. The **Merit Systems Protection Board** will be an independent agency responsible for safeguarding merit systems against political or other abuse, and protecting employee rights.

The plan also creates the **Federal Labor Relations Authority** to replace the Federal Labor Relations Council and other organizational components of the Government's labor-relations program. This will bring now-scattered elements into one independent body with full-time responsibility for administering this program.

### Office of Personnel Management

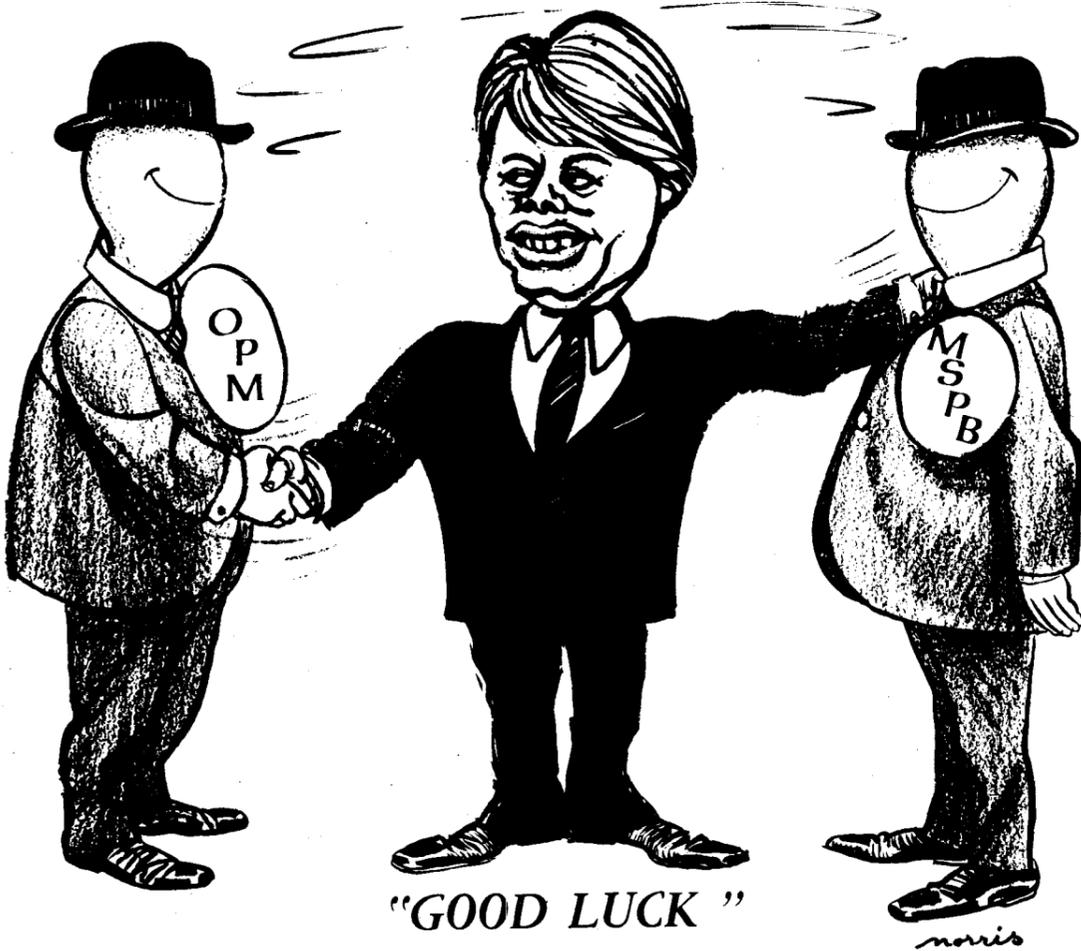
The Office of Personnel Management will become the central personnel agency of the Federal government. In brief, the Office will:

- Aid the President in preparing rules for the administration of civilian employment.
- Advise the President on any civilian employment matters.
- Executive, administer and enforce civil service laws, rules and regulations.
- Coordinate research in improved personnel management.
- Recommend to the President actions to apply merit principles in such areas as selection, promotion, transfer, performance, pay, conditions of service, tenure, and separation of employees.

OPM will be the primary agent for helping the President carry out his responsibilities for positive management of the Federal work force. Both its Director and Deputy Director will be appointed by the President and confirmed by the Senate. They will serve at the pleasure of the President. Organizationally, OPM will be an independent agency within the Executive Branch of Government.

OPM will develop personnel policies governing civilian employment in executive branch agencies and in certain agencies of the legislative and judicial branches. It will provide leadership and assistance to Federal agencies in carrying out these policies.

(Continued on next page)



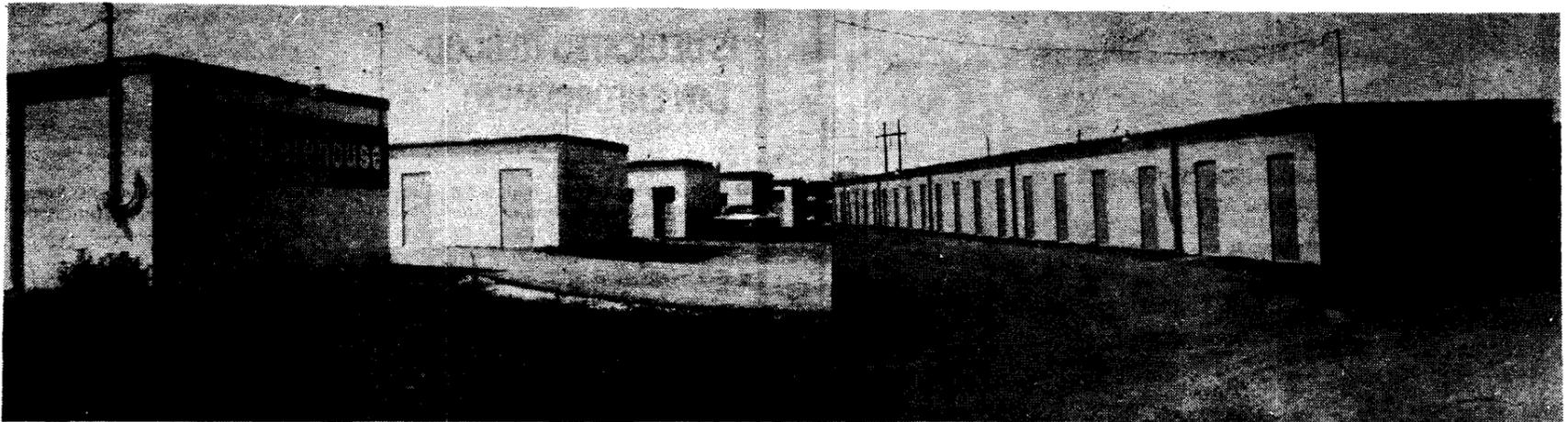
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# Reorganization

(From preceding page)

Among its functions will be many of the current responsibilities of the Civil Service Commission, including central staffing operations, personnel investigations, program evaluation, executive development, and training. OPM will administer Federal employee retirement and insurance programs, and will exercise management leadership in labor relations, affirmative action and employee utilization.

When agencies have the competence and it is cost efficient, OPM will delegate authority and functions to the heads of Federal agencies, under enforceable performance agreements.

OPM will have approximately 6,750 employees. Headquartered in Washington, it will maintain field offices around the country.

## Merit Systems Protection Board

The Merit Systems Protection Board will be an independent agency with responsibility for safeguarding merit systems in the Federal government against partisan political or other abuse, and protecting employee rights within those systems.

The MSPB, with about 400 employees, will be under bipartisan leadership with no more than two of its three members from the same political party. The Board will be the successor agency to the Civil Service Commission and the six-year renewable terms of the present Commissioners will continue. As are the Commissioners, Board members will be appointed by the President and confirmed by the Senate.

The MSPB will retain the adjudication and merit systems protection responsibilities of the Civil Service Commission. The Board will hear and decide most types of appeals and complaints of Federal employees and applicants for Federal employment. Exceptions are appeals involving examination ratings, job gradings and classifications, and decisions by insurance carriers, which will be handled by the Office of Personnel Management.

The Board will conduct special studies of the competitive service and of other merit systems. It will report to the President and Congress on the fidelity of those systems' operations in serving the public interest under basic merit principles.

## Special Counsel

The reorganization plan establishes the position of Special Counsel within the Board to investigate prohibited personnel practices, prosecute officials who violate civil service rules and regulations, and to enforce the Hatch Act. The Special Counsel will be appointed to a four-year term by the President and

confirmed by the Senate. The Special Counsel will be independent of, and not subject to direction by, the Board.

The Special Counsel will:

- Assume all functions of the Civil Service Commission relating to investigations of prohibited political activity on the part of Federal employees and of certain state and local employees.

- Investigate whether information that should have been disclosed under the Freedom of Information Act has been withheld by a Federal official in a capricious or arbitrary manner.

- Investigate charges of reprisal actions against employees for lawful disclosure of information related to violations of law — whistle-blowing.

When it is the judgment of the Special Counsel that prohibited personnel practices have been committed, he or she shall report findings and recommendations to the Chairman of the MSPB, the agency affected, and to the Office of Personnel Management, and may report such findings to the President.

The Counsel will have the authority to bring charges against employees and present them to the Board when the Special Counsel believes that prohibited practices have occurred and disciplinary action against the responsible official is warranted. Decisions of the Board in such cases will be final and the employing agency will be required to take the action determined by the Board to be necessary. Evidence

supporting the need for disciplinary action against a Presidential appointee will be referred by the Special Counsel to the President.

The MSPB, including the Special Counsel, will have approximately 400 employees. Headquartered in Washington, it will maintain appropriate field offices.

## Federal Labor Relations Authority

The Federal Labor Relations Authority will administer the Federal labor relations program, integrating the "third party" functions under an independent and neutral body.

Until now, Executive Order 11491, as amended, vested labor-management relations in a part-time Federal Labor-Relations Council, comprised of three top government officials. Other functions have been assigned to the Assistant Secretary of Labor for Labor-Management Relations. The FLRA will assume these responsibilities and activities, which include:

- Determining appropriate bargaining units, supervising elections and certifying exclusive bargaining agents.

- Investigating and prosecuting unfair labor practice complaints.

- Deciding appeals from determinations of non-negotiability.

# Senate approves CS reform

WASHINGTON (ARNEWS) — President Carter's civil service reform proposal received its first major victory Aug. 24 when the Senate overwhelmingly approved the measure by a vote of 87 to one.

If the measure eventually becomes law, veterans as well as civil servants may feel the impact of the reform. The Senate passed version sets a pay ceiling for so called "double dippers" and protects veterans hiring preference for disabled veterans.

Retired veterans who collect both military pensions and full civil service pay would be limited to a combined annual pension and civil service income at the executive level V scale, currently \$47,500. This amendment would apply only to retirees who take civil service jobs after the measure becomes law and would not affect current retirees.

The measure's curtailment of veterans hiring preference was lessened some by an amendment that expands the practice for disabled veterans.

Other Senate-approved amendments include a review of the merit systems protection board rules and regulations; an evaluation of "critical elements" of job performance; limits on federal involvement in state and local personnel matters; allowing the special counsel to insist on investigations of employee allegations; and a provision for judicial review of federal labor relations authority unfair labor practice decisions.

These and other amendments to the legislation tend to water down the original proposal submitted by the president.

Capital Hill observers, however, expect a House review of the proposal to include even more conservative restrictions to President Carter's liberal reform proposals.

The House is expected to consider the legislation after returning from its Labor Day recess next week.



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# Engineer earns DOD fellowship

The prospect of another cold winter is creeping into the minds of Redstone workers about now, but Dr. Billy J. Walker doesn't have to worry about that. He will spend the next year in sunny Pasadena, at the California Institute of Technology, thanks to a Secretary of the Army Research & Study Fellowship. This fellowship is awarded to civilian Army employees who have demonstrated outstanding achievement, competence and leadership.

Walker is a research aerospace engineer working in the Aerodynamics Group of the MIRADCOM Technology Lab's Aeroballistics Directorate. He is also chairman of the JANNAF Rocket Exhaust Plume Sub-Committee, a tri-service and NASA group which works together to solve research problems. During the next year Walker hopes to help solve one of these problems: turbulent mixing.

## Turbulence research

Walker will be doing research on turbulence at the university, working with some of the top scientists in the field: Dr. Garry Brown, Dr. Anatol Roshko and Dr. Philip Saffman.

"Primarily I'll be trying to create a mathematical or computer model to describe how turbulent mixing actually takes place," said Walker.

He explained that when a missile is fired, its exhaust creates a high velocity stream of exhaust which mixes with the low velocity "free stream" of air the missile encounters as it travels.

"Turbulent mixing can cause problems," said Walker, "because it affects the en-

vironment the missile passes through, causing it to change from an ambient to a disturbed state. This affects subsequent firings, and can even cause them to totally miss the target."

According to Walker, turbulent mixing may also affect a missile's guidance system.

The objective is to account for altered ambient flow conditions caused by turbulent mixing, said Walker, but to do so one must first understand the details of the mixing process. That's what Walker hopes to do in the next year.

## Mathematical model

"I'll be trying to devise a mathematical model we can use to correct for turbulent interaction," he said. "If we know precisely what the problem is we can make allowances for it in the missile design. One of the difficulties of designing is that you don't always know what you're designing for. An understanding of turbulent mixing will help us better design our hardware."

Walker said that in order to get a basic understanding of the process, he will study turbulent mixing without the added complication of chemical reactions which occur due to the rocket burning. Even so, his job will be challenging, he said. "Turbulence is really difficult to describe mathematically. It is one of the great unsolved problems of fluid physics. Scientists have been studying it for a hundred years, making slow progress."

If Walker is successful, his mathematical model will also prove beneficial in chemical lasers.

Walker, who has four years of experience with chemical lasers, explained that in

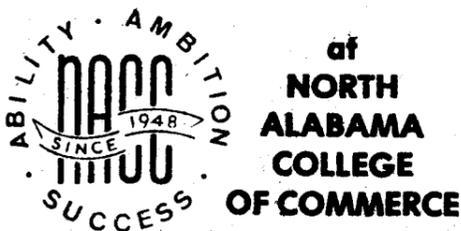
them different gases are mixed and combusted in order to generate the laser energy. When these gases mix, turbulent interaction occurs.

"If we better understand what goes on when the gases mix, we can design a more efficient chemical laser," said Walker.



Dr. Billy J. Walker at work at the computer

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**SATURDAY, SEPT 16 — HACKLEBURG, ALA.**

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**SALE #1 — 10:00 AM — 180 ACRE FARM**

Approx. 1/2 open in beans — balance wooded with 1/4 mile road frontage. Directions from Hackleburg: Take Highway 12 — go 2.5 miles to dead end — turn right on Marion County 45 and go 1/4 mile — turn right — go 1 mile to property.

**SALE #2 12:00 NOON — 175 ACRE FARM**

Part open planted in beans — balance in timber. This farm joins Bear Creek watershed. Directions from Hackleburg: Take Highway 172 west 5.5 miles — turn right on paved road — go 1 mile to property.

**SALE #3 1:30 PM — 240 ACRE FARM**

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**6 ROOM BRICK HOME — UNFINISHED FRAME HOUSE**

This property will be offered for sale in 2 tracts and as a whole. Directions from Hackleburg: Take Highway 172 west 5 miles and turn left on Highway 66 — go 1 mile to dead end — turn right and go 1/2 mile — turn left at water tank — go .1 mile to dead end — turn left — go 2 miles — turn left on gravel road to property. Free barbecue lunch will be served at this sale.

**SALE #4 3:00 PM — 125 ACRE FARM**

Planted in beans — approx. 1/2 mile road frontage. Directions from Hackleburg: Take Highway 43 west 6.5 miles — turn right on Marion County 41 — go 2 miles to 187 — turn right and go 1/2 mile — turn left on Marion County 29 — go 3.4 miles to property. This tract is 5.5 miles north of Marion County Courthouse.

**SALE #5 40 ACRES — WOODLAND**

This 40 acres will be sold at the sale #4 location. It is 6.5 miles from Hackleburg. Directions from Hackleburg: Go west on Highway 43 6.3 miles — turn left on paved road past the Evans Community 1.3 miles — turn right on gravel road to property.

**SALE #6 4:30 PM — 200 ACRE SUBDIVISION**

This property is wooded, has roads running through property and has several beautiful building sites — will be offered in tracts and as a whole.

Directions from Marion County Courthouse: Take Highway 17 south 3 miles — turn left on Highway 11 to property.

These parcels total 960 acres and is some of the best land that we have had the opportunity of offering for sale in sometime. Most of this acreage is productive and is being row cropped at the present time. It is ideal for farming or investment. All sales will be held on the premises with the exception of Sale #5. There are plenty of auction signs to help you in locating each site.

Pre-inspection is invited. Plats and brochures are available on all sales. All properties will be sold subject to the 1978 bean crop.

Free barbecue lunch and cold drinks will be served to everyone attending the Sale #3.

Terms: 20% down — balance due within 30 days.

For brochures Call or write:

Auctioneer, **FRANK STRAWN**, #226, Huntsville, Ala.

**COLLIER AUCTION CO., INC.**

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4222 OAKWOOD AVENUE HUNTSVILLE, ALABAMA (205) 539-4328

# GRAND OPENING

**FRED'S**  
Your Key To Value

**CONTINUES**

SPECIALS GOOD THRU THURSDAY, SEPT. 7

**READY-TO-WEAR**

**MEN'S NO-FAULT™ WRANGLER® JEANS**  
• Sizes 30-40  
Regular \$11.49

**844**  
Limit 3

**MEN'S & BOYS JOGGERS**  
Boys Size 2½-6  
Mens Size 7-12

**\$5.99**



**Health and Beauty Aids**

**MISS BRECK HAIR SPRAY**  
• 9-Oz.  
• Reg., Super, Unsc., Super Unsc., Ultimate

**69¢**

**ULTRA SHEER HAIR RELAXER KIT**  
REGULAR MILD OR SUPER. REG. 3.00

**\$2.50**  
LIMIT 7

**CRICKET LIGHTERS**

**3 FOR \$1.00**  
ADJUSTABLE BUTANE  
LIMIT 3



**Groceries**

**ARMOUR VIENNAS**  
5-OZ. SNACK TIME ANYTIME

**3 FOR \$1**

**VLASIC KOSHER DILLS**  
32-OZ. REG. 88¢

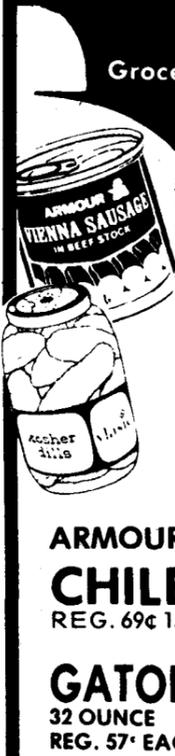
**69¢**  
LIMIT 2

**ARMOUR CHILE**  
REG. 69¢ 15½ OZ.

**2 FOR \$1**  
LIMIT 2

**GATORADE**  
32 OUNCE REG. 57¢ EACH

**2 FOR 88¢**



**PICNIC and SPORTING GOODS**

**PENN TENNIS BALLS**  
3 BALL PER CAN REG. 1.96  
LIMIT 1

**\$1.67**

**IGLOO 48 QT. ICE CHEST**  
REG. 23.22  
LIMIT 1

**\$19.67**

**SOLO HOT-COLD CUPS**  
50-9 OZ. CUPS REG. 2/1.00

**2 PKG. FOR 88¢**



**Automotives**

**STP OIL TREATMENT**

**89¢**

**QUAKER STATE MOTOR OIL**  
SAE 30  
NON-DETERGENT DETERGENT  
REG. 71¢  
LIMIT 2

**2 FOR \$1**



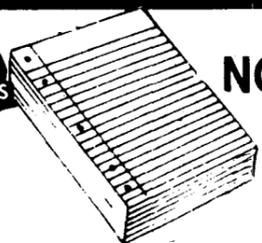
**SCHOOL SUPPLIES and PAPER PRODUCTS**

**NOTEBOOK PAPER**  
200 CT. REG. 65¢

**2 PKG. \$1**  
LIMIT 4

**CHARMIN BATHROOM TISSUE**  
4 ROLLS TO A PACKAGE REG. 88¢

**69**



**Household Products**

**CLOROX**  
1 GAL. SIZE REG. 83¢

**53¢**  
LIMIT 1

**ALUMINUM FOIL**  
12x25 REG. 39¢

**3 FOR 88¢**  
LIMIT 3

**BACON BLANKET**  
72x90 REG. 5.19

**2 FOR \$8**



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(JUST NORTH OF SPARKMAN DR.)  
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