

The Redstone Rocket

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Old soldier awaits orders

BY BOB HUBBARD

Private First Class Alexander Ferrell waited but his Army orders never came.

"My commanding officer ordered me to go home on medical leave until he sent for me," Ferrell told Redstone authorities.

"I'm still waiting."

In fact, the 75-year-old Athens, Ala., resident has waited nearly 55 years!

Ferrell's story surfaced Wednesday when he reported to Army officials at Redstone seeking medical treatment and an honorable discharge. He said he is permanently disabled from a service connected accident.

According to Ferrell, he was struck by a hit and run driver in Sept. 1925 while stationed with the Army at Ft. Benning, Ga. A silver plate was inserted in his skull, he said, and his commander ordered him home to convalesce, and await recall.

"I followed his orders," said Ferrell, who said he suffered loss of memory from the accident, "and I'm still waiting."

"Part of my memory has returned," he said, and he wants medical treatment and his veteran's benefits.

Micom has forwarded his request through Army channels and is awaiting the response.

Documents in Ferrell's possession indicate he served in the Army from 1923 to 1925 when he was dropped from the rolls as a deserter.

Two cases set for trial here

Two soldiers face trials by courts-martial in separate cases here next week.

PFC Roosevelt White of Company A, School Brigade, is scheduled to face general court-martial charges of rape, kidnapping, communicating a threat and disobeying a lawful order.

Sp4 Reginald Davis of Headquarters and Headquarters Company, MICOM will be tried by special court-martial for three counts of failure to report for duty, being absent without leave, disobeying a lawful command, striking

a superior noncommissioned officer and using disrespectful language to a superior NOC.

Colonel Peder C. Wold, a military judge from Fort Bragg, N.C., will preside over both trials July 16-18, according to officials in MICOM's office at the Staff Judge advocate.

Capt. Leo Martineze will defend Davis and Capt. David Sneed will act as prosecutor.

Capt. James Garner will present the Army's charges against White. He will be defended by Capt. Paul Stephens of Fort McPherson, Ga.

Air tests slated in Bldg. 5681

By ED PETERS

Air sample tests will be made in Building 5681 following discovery of DDT residue under part of the building.

Recent tests of dust samples taken from tunnels under the floor of the building's northern end show there is a small amount of DDT there.

Dr. Irene Roan, Redstone occupational health chief, said there is no evidence that DDT has escaped from under the building into the work areas. The air tests will be run to make sure.

Facilities Engineering Environmental Office is looking at the possibility of removing the DDT residues by vacuuming or similar means.

For a three year period beginning around

1950 a private chemical company rented the northern end of the building to grind and compound DDT and other crop poisons into commercial insecticides.

Insecticide residue was found in three samples collected recently under the building's north end where a system of pipes and concrete tunnels is still in place from World War II days when incendiary bombs were made in the building.

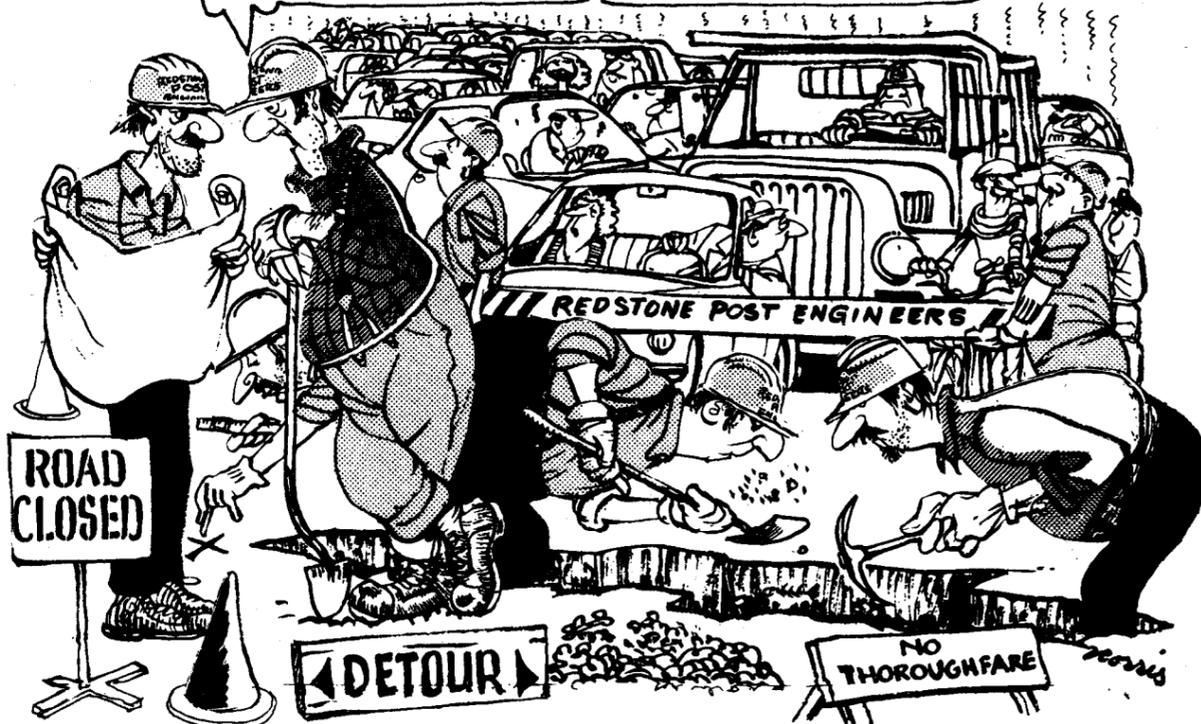
A dust sample from a wooden beam in what appeared to be an old storage bin in a corridor contained 5,000 ppm DDT. That sample showed 470 ppm chlordane and 496 ppm BHC.

A dust sample from a tunnel floor contained DDT in the amount of 500 parts per million.

(Continued on page 8)

Old gold teeth help Uncle Sam

--and you say there's another solid silver drainage pipe somewhere near here?



By SKIP VAUGHN

Once a 20-foot drainage pipe was dug up under a commercial photo processing operation. The pipe was solid silver.

That was before people became aware of the value of precious metals, before rising silver and gold prices. The business had been dumping process solution down the drain and the drainage pipe attracted the silver.

Redstone Arsenal's precious metal recovery program is aimed at avoiding such waste. The program has been going on for several years and has seen more emphasis this year with the designation of a program coordinator.

"I didn't find it to be a difficult job because it was going quite well," said Leonard E. Jones Jr., program coordinator.

There are 13 "generating activities" on Redstone Arsenal, excluding NASA, from which precious metals are recovered. Everything from old gold teeth to used X-ray film is turned into the Defense Property Disposal office at Redstone and then shipped within five days to New Jersey where the metal is recovered.

The central collection place for the Department of Defense is in Colts Neck, N. J. Recovered metals are used as "government-furnished material for government contracts

(Continued on page 16)

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KROOP TALK

What's your opinion of enlisted shoulder board insignia for the new gray-green shirt?



Sp4 Craig Kerkman, Co. B — "I think it's a great idea. They should have come out with that right away. It adds to the appearance of the uniform, — looks a lot sharper. It also cuts down on the wear and tear on the collar."



Pvt. 1 Orville Wilson, 4th S.C. — "I think it sounds like a pretty good idea. It would look better then, very military. But it would be harder to tell the ranks apart. Enlisted rank should be on the sleeves like it used to be. That goes for all the uniforms, including fatigues."



1st Lt. Hugh Cook, Co. B — "I think it would be a good idea. You wouldn't mess up the grey-green shirt by pinning insignia on the collars. But there is one disadvantage. As it is, you can tell the difference between officers and NCOs very rapidly. Not so if they were both wearing shoulder boards. But I don't think that would be a real problem."



MSgt. Lewis Page, Co. A — "I don't like them. They make you look like a foreign soldier, and with that uniform there's too much foreign influence already. It would also be harder to see the insignia. It's hard enough to see the rank insignia when it's on the collar."

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AER falls short of goal; CFC holds steady

By SKIP VAUGHN

The Army Emergency Relief drive on Redstone Arsenal officially ended July 1, falling far short of its \$8,000 goal.

Donations totaled \$2,292 on the morning of the final day for the annual fund raising drive that began May 16. Six directorates were given to July 16 to complete their drives, according to 2nd Lt. Eric J. Borg, AER fund campaign officer.

"I anticipate a big change in the total," Borg said.

Last year's drive raised \$5,834 on the arsenal. The most raised here in recent years was \$7,011 in 1978.

AER is supported entirely by donations. It uses the donations to provide emergency relief to soldiers and their families, including retirees.

Meanwhile, the Combined Federal Campaign expects to set its goal for the Huntsville area within the next month for the annual CFC drive slated to begin in September.

The Sept. 22 to Oct. 31 drive will include 35 federal agencies in the Huntsville area, ac-

ording to Ruth Morrison, chairman of the CFC fund raising program coordinating committee.

Last year CFC raised \$523,500 from the 18,000 area civilian and military personnel. That was short of the \$600,000 goal. The 1978 campaign raised \$575,000.

"I think we're going to have a real good campaign this year," Morrison said.

Willa Dean Jones, chief of pay and examination in the Finance and Accounting Division, said there has been no change in cancellations of CFC payroll donations. "We've had very few," she said.

Civilians can deduct a minimum of 50 cents a pay period for CFC while military personnel can deduct a minimum of \$1 a month. No maximum limit is set.

Unlike Redstone Arsenal's savings bonds program which has seen a drop in participation, CFC has seen "no significant change at all," Jones said.

CFC funds go to United Way, the National Health Agencies, the International Service Agencies and, for the first time this year, the National Service Agencies. Also for the first time, three local health and welfare agencies not affiliated with United Way have applied for participation, Morrison said.

Last year a class action lawsuit filed by three Washington-area soldiers resulted in changes in the Army's fund raising procedure intended to prevent any suggestion of coercive tactics on the part of drive solicitors or supervisors.

"We'd like to encourage true voluntary giving," Morrison said.

Under the revised guidelines, there are no goals for organizations below command level nor per capita figures telling how much an organization gave per person.

This year's CFC campaign goal will be based on "discussion about what was given last year, relative number of people involved and general economic conditions of the area," Morrison said.

Army strength won't be cut

WASHINGTON — The Senate has decided not to cut the Army by 25,000 soldiers but seeks a higher percentage of high school graduates for the all-volunteer Army.

Secretary of the Army Clifford L. Alexander, Jr., said he was gratified that the Senate did not see fit to vote any kind of reduction in end strength which would limit the Army's ability to accomplish its mission. At the same

time, he said the Army is fully cognizant of the Senate's concern that the Army continue to do everything possible to recruit well qualified volunteers who are fully capable of performing the duties required of them.

The Army, he said, is confident that, given the resources and incentive programs necessary to attract such young persons, it will succeed in achieving the standards expected of it. (ARNEWS)

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"It's good I joined right away, because it took me a couple of months to find a good full-time job.

"Even with a regular job, the extra \$1,300 I earned with the Reserve came in handy. It was the difference between barely making ends meet and being able to put a little money away.

"By going direct from Active into the Reserve, I was also able to keep my rank of E-4. I'm now an E-5, pulling in over \$1,600 a year. Not

bad for a weekend a month and two weeks annual training.

"I'm also taking advantage of some other benefits.

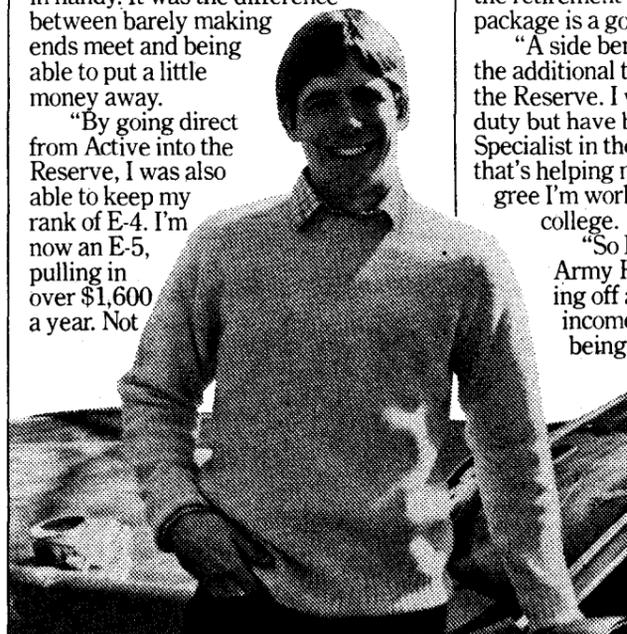
I buy a lot of my auto supplies at the PX. I carry low-cost government life insurance through the Reserve.

I also think the retirement package is a good deal.

"A side benefit that's helped me is the additional training I've picked up in the Reserve. I was an MP on active duty but have become an Accounting Specialist in the Reserve. Right now, that's helping me with the business degree I'm working toward at a local college.

"So I can recommend the Army Reserve to anyone coming off active duty. The extra income is good, and it's nice being with people who can appreciate what you achieved in the service."

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Pershing launch sites eyed in Utah, Idaho

WHITE SANDS MISSILE, N.M. — White Sands Missile Range officials have announced plans to survey areas in Utah and Idaho for possible use as temporary launch sites for MICOM's Pershing II artillery missile.

Maj. Gen. Duard D. Ball, range commander, said the Army's Pershing Project office is interested in two general areas for medium and long range tests of the new system.

A third firing range, already in use, is the preferred site for short range tests. This is the Army's McGregor Range, just northeast of El Paso in southern New Mexico.

The Utah, or medium range, site would be at or near the range's Utah launch complex at Green River. Although the Green River site has been occupied by the Army since 1962, no Pershing missiles have been fired from the area since 1974.

An area near Mountain Home Air Force Base, southeast of Boise, is the proposed site for the long range tests. Most of the real estate

that would be involved is administered by the Bureau of Land Management.

Plans call for test firings of the Pershing to take place in late 1982 and early 1983.

A total of 26 missile firings are planned during the engineering development tests. Eight rounds will be fired from McGregor, four from the Utah site and 14 from the selected Idaho location.

Pershing II is a third generation of the Army's most powerful artillery weapon. The most notable difference from its predecessors is Pershing II's use of precision guidance technology for its reentry — or warhead — vehicle. Earlier versions used a ballistic reentry system similar to the trajectory of a rifle bullet or arrow.

During the flight tests, the reentry vehicle will not contain a live warhead; rather it will include a payload of instrumentation to provide performance data on both the missile and reentry vehicle.

Test missiles will carry a small explosive charge to be used in the event the missile veers off course or malfunctions. This would enable range flight safety engineers to destroy the missile over the pre-evacuated safety area near the launch point or over an unpopulated area during its flight to White Sands Missile Range.

All rounds fired during the test will be programmed to impact on designated targets within the boundaries of the White Sands Missile Range.

Pershing II is approximately the same size as the earlier versions, although somewhat heavier. It is 35 feet tall and weighs 16,303 pounds. The missile can carry nuclear or conventional warheads.

In addition to the guided reentry vehicle, the newer Pershing has a longer range. The missiles now in use have ranges of about 400 nautical miles.

Col. William Fiorentino is Pershing Project manager at Redstone Arsenal.

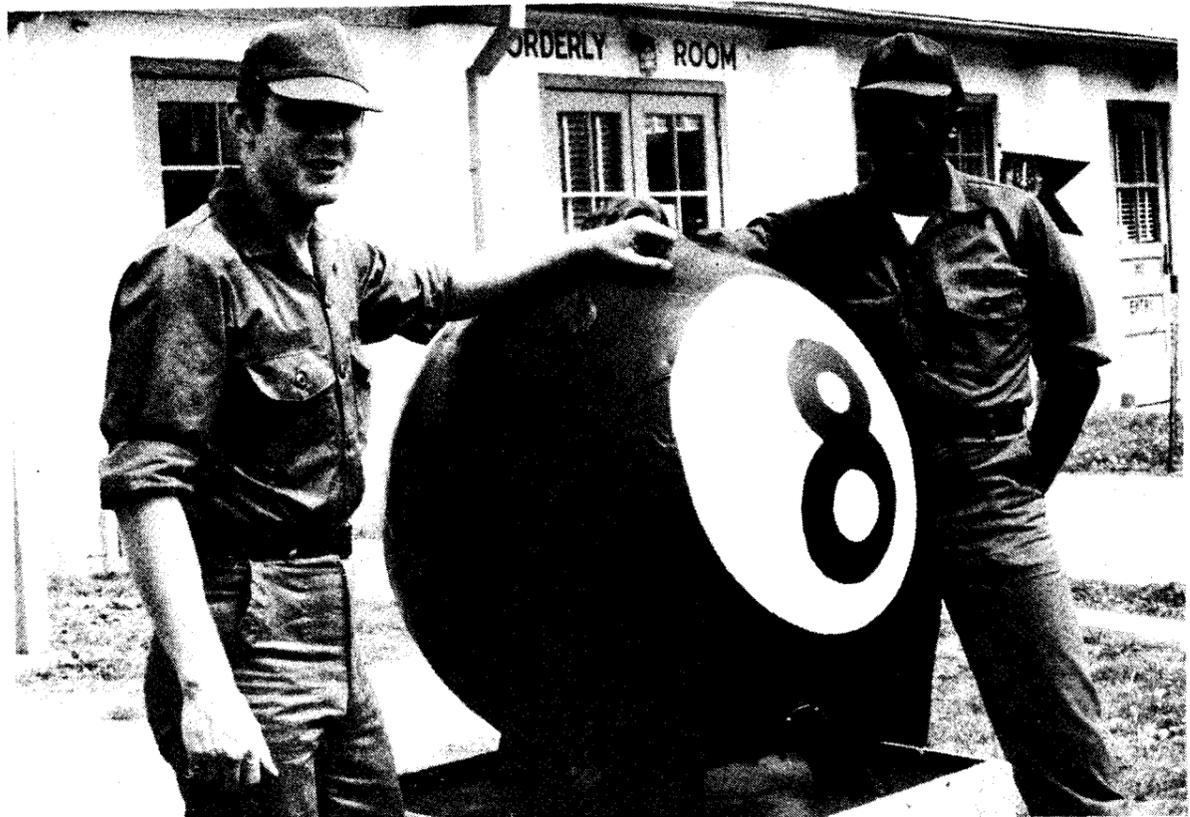
Senate okays pay increase

WASHINGTON — In last minute action before recessing until July 21st., the Senate approved a special 11.7 percent pay increase for members of the Armed Forces last week.

The special pay provision was part of the fiscal year 1981 Defense Authorization Bill which passed by an 84 to 3 vote. The 11.7 percent pay hike was just one of several recommendations made by the Senate Armed Services Committee on pay and benefits that the Senate approved.

A joint House-Senate conference will have to be held on the authorization bill because the House version does not contain the special pay provision.

Other actions designed to improve the soldiers' quality of life taken by the Senate include: an increased per diem for TDY; an increase in CHAMPUS maximum coverage for handicapped from \$350 to \$1,000; a family separation allowance for E-4s and below with four or less years of service who are going on unaccompanied overseas tours; a one year extension of bonuses and educational assistance for the National Guard and Army Reserve; and an increase in maximum enlistment and reenlistment bonuses for certain skills. (ARNEWS).



Eight-ball

Two 8th Student Company soldiers stand with the "Eight-ball" they helped to fashion from a naval sea mine they rescued from the

unused training aids at McKinley Range. According to their first sergeant, the soldiers are quite proud of their handiwork.

MICOM awards MLRS contracts

The Army Missile Command has awarded two contracts totaling approximately \$36.4 million to Vought Corporation of Dallas for production of the Army's new Multiple Launch Rocket System (MLRS).

One contract, for \$9.5 million, calls for initial production tooling, and the other, for

\$26.9 million, calls for fiscal year 1980 low-rate production of both rockets and the self-propelled launcher loaders.

The Army plans to field the free flight artillery rocket in the early 1980's.

Col. Monte Hatchett is the Army's MLRS Project Manager at Redstone Arsenal.

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'Lazy man's' book helps reliability program

Charles Cox of the Missile Command's Product Assurance Directorate passes off his little book as "just a lazy man's way of getting the job done." Those who use it believe it's much more than that.

The 70-page booklet Cox wrote helps contractors understand what the Army wants for a reliability program. It also helps the Army monitor their compliance with the contract.

The document has been so successful that other commands are using it too, and the Department of Defense has relied on it in updating its rules.

To understand what Cox did, and how it pays off for the Army and its contractors, you have to understand the procedure they were previously saddled with.

Until 1972, a separate reliability program had to be written for each and every major missile contract. It was based on a broad, generally worded military standard on how to write reliability programs. It was so standard that it had to be taken apart paragraph by paragraph and tightened up to get what was needed.

"It was a horrendous thing to have to give a contractor," Cox recalled. "He had a

document on one hand a stack of change pages on the other. The contractor would look at the Mil Standard and then look to the change pages to find the exception reading "Change line 3 of paragraph 10, page 13, to read" That was hard to follow and it was easy for the contractor to miss changes and make mistakes.

It took several days to pull this mass of paper together for each contract, but the real problem was being certain nothing was left out. That kind of checking is the hardest, and Cox believed the whole thing was a time-wasting operation.

Contract exhibit

"It finally dawned on me that we were making the same changes every time," Cox continued, "so I decided to integrate all the changes into a single document." The first version of his book, called a contract exhibit and assigned the number QR-800, went into a contract proposal for the first time in 1973.

Contractors liked it. They now knew exactly what MICOM wanted, and it saved them time in responding to requests for contract proposals.

The document gave MICOM the advantage of being better able to compare competing proposals. Because the contractors had a tighter program document to adhere to, their flexibility was reduced and MICOM could better understand what they were saying they would do.

Naturally, the first document had loopholes,

but changes could and have been made in a hurry. Cox said, "we can literally make changes overnight." So, it's easy to keep the document up to date.

The big motivation is making the job simpler. Double-checking contracts takes less time because everyone knows what the document calls for. And although the saving is mainly in cost avoidance, MICOM should be getting better products at the same or lower prices.

Cox's idea is rippling outward. The program has been expanded to take in the maintainability and reliability programs in the production phase and the Tank-Automotive Command has adopted the program.

His efforts have even been indirectly recognized by the Department of Defense, which is rewriting its Mil Standard. Some of the words are familiar to Cox. They were taken directly from his book.

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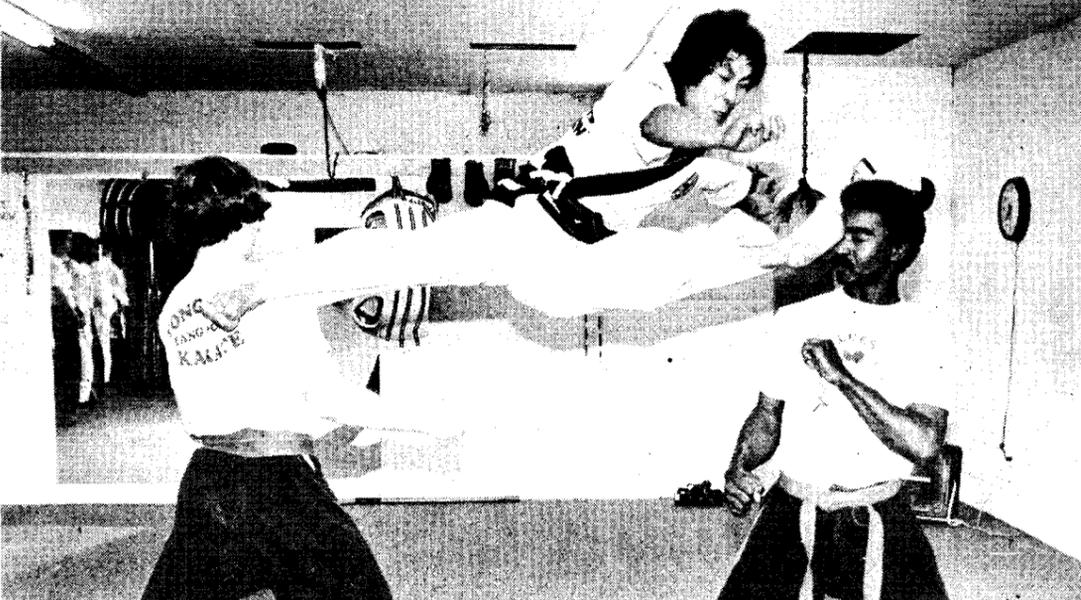
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New pay increase for military doctors

WASHINGTON — Under a new pay law, most military physicians can expect to see an increase in the special pay they receive.

The Uniformed Services Health Professionals Special Pay Act of 1980, passed by Congress and signed into law by the President on June 28, creates a new special pay system. This system went into effect July 1. The new law is expected to enhance recruitment of physicians and encourage them to continue on active duty.

Under this law, physicians who are not in training could receive from \$16,000 to \$21,500 per year in special pay as compared to the previous range of \$13,200 to \$17,000.

In return for an active duty agreement, a physician with less than 10 years creditable service will receive a yearly lump sum payment of \$9,000 while a military physician with 10 or more years of service will get \$10,000. Physicians in an internship or initial residency program are not eligible for this type of pay.

Variable special pay, another of the special pays, will be given to all military physicians on active duty regardless of status. Payments will range from \$5,000 to \$10,000 per year depending on a physician's years of creditable service, with the exception that interns will receive \$1,200.

Physicians who are board certified could

receive up to \$5,000 a year. The amount authorized — from \$2,000 to \$5,000 — will depend on a physician's years of creditable service.

Variable and board certified special pays will be paid on a monthly basis.

Besides the above special pays, which are entitlements by law, some physicians could receive an additional bonus called incentive pay. This payment will be made at the Secretary of Defense's discretion based on such criteria as critical specialties, remote duty, etc. Although this pay may range up to \$8,000 per year, the annual amount spent may not exceed six percent of the total special pay budget for the fiscal year. (ARNEWS)

Watermelon awarded for Independence Day Speech

Safety was the official reason that C. P. Carey gathered the workers of the Munitions Branch of the Course Development Division of MMCS's Directorate of Training Developments into building 3344 Thursday.

All supervisors had been urged to remind their workers about the need for safety consciousness over the July 4 weekend. But with the help of Irv Thompson, a little more was arranged for Carey's Branch.

For example, they had three brief, patriotic speeches on the meaning of the holiday. These were given by Maj. William Gardner, Francis Lundy and Charles Havens. The speakers were surprised to learn that a panel of judges

graded their speeches and gave the highest marks to Lundy.

She spoke on "the people who decided to do something about suppression and tyranny 204 years ago and won the freedoms we now enjoy." Her prize was a ripe, juicy watermelon, bedecked with a ribbon and bow.

The affair ended with the whole crew sharing sliced watermelon and cantaloupe. The extras may not have been necessary, but they seemed appropriate to an Independence Day message.

And it added meaning to the closing of Carey's safety reminder. When he said, "We want to see you back here in good health on Monday," you could believe it.



The watermelon winner

Francis Lundy receives the grand prize from C. P. Carey after she delivered a winning speech.

Promotion granted

WASHINGTON — Over 3,000 first lieutenants will pin on their captain's bars before October 1, announced DA officials.

A promotion board which met last November selected 3,489 officers with a temporary date of rank (TDOR) on or before Sept. 30, 1978 for promotion to captain AUS this year. Those selected will be promoted between July 1 and September 30.

This promotion to captain marks a reduction of time in service from four and a half years to four years for first lieutenants. In September 1979, the Chief of Staff approved a recommendation to reduce the captain AUS promotion point to four years by Sept. 30, 1980.

The new promotion time is designed to help relieve a shortage of about 5,000 captains on active duty, officials reported. The current shortage, they said, has resulted mainly from the low number of lieutenants admitted into the Army from 1972 to 1976. During that period, the Army was greatly reducing its size after the Vietnam conflict.

The November promotion board considered 3,659 applications for promotions under the accelerated plan. Of that number, 3,026 were selected from the Army promotion list: 204 from the Medical Service Corps; 14 from the Army Medical Specialist Corps; and 245 from the Army Nurse Corps. (ARNEWS)

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Seven States Schedule Primaries election⁸⁰

KANSAS

Kansas will hold its State Primary Election on August 5.

Registration is not required for members of the Armed Forces and their spouses and dependents.

These individuals may request an absentee ballot by completing a Federal Post Card Application (FPCA) and sending it to the County Election Officer, County Seat, county of residence.

The FPCA must be witnessed by a notary, U.S. commissioned officer, or other individual authorized to administer oaths.

Party preference must be noted on the FPCA when requesting a Primary Election ballot.

A separate FPCA must be used to request an absentee ballot for the Primary Election on August 5 and for the General Election, November 4.

MICHIGAN

Michigan will hold a State Primary Election on August 5.

Members of the Armed Forces and their spouses and dependents may each use a Federal Post Card Application (FPCA) to request the State

Registration Form and simultaneously request an absentee ballot for this election.

The completed FPCA, witnessed by and sworn to before a person authorized to administer oaths, must be sent the City or Township Clerk, place of residence. It is not necessary to indicate political party preference when requesting a ballot.

MISSOURI

Missouri will hold its State Primary Election on August 5.

Members of the Armed Forces and their spouses and dependents may register and receive an absentee ballot by using the Federal Post Card Application (FPCA).

The FPCA must be sworn to before a commissioned officer or other official authorized to administer oaths and sent to the Clerk of the County Court, or the Board of Election Commissioners, county of residence, at least 30 days prior to the election date.

For the Primary Election, political party preference must be indicated on the FPCA.

A separate FPCA must be sent to receive an absentee ballot for the General Election of November 4.

TENNESSEE

Tennessee will hold its State Primary Election on August 7.

Members of the Armed Forces and their spouses and dependents may use the Federal Post Card Application (FPCA) as both a request for temporary registration and to obtain an absentee ballot. Absentee registration is temporary and a second FPCA must be submitted for the General Election in November.

All FPCAs must be signed, witnessed, and notarized and received not less than seven days before an election.

When a ballot is requested for the Primary Election, the political party preference must be noted.

Requests for absentee registration and absentee ballots must be sent to the County Election Commission, county of residence in Tennessee.

GEORGIA

Georgia will hold its Primary Election on August 12.

Members of the Armed Forces and their spouses and dependents may use a Federal Post Card Application (FPCA) to request the State's registration card. Once received,

the State registration card must be completed and returned in accordance with the instructions attached to it to receive an absentee ballot.

For the Primary Election, political party preference must be shown on the FPCA. Individuals requesting a ballot for the Primary Election will also be sent a ballot for the General Election.

Requests for registration and ballots must be sent to the Board of Registrars, county of residence in Georgia.

ALABAMA

Alabama will hold its Primary Election on August 26.

Members of the Armed Forces and their spouses and dependents may register and apply for an absentee ballot by using the Federal Post Card Application (FPCA).

A completed FPCA, witnessed by and sworn before a notary, U.S. commissioned officer, or other official authorized to administer oaths should be sent to the County Board of Registrars of your county.

A separate FPCA must be submitted for each election, and for the Primary Election political party preference must be indicated on the FPCA.

OKLAHOMA

Oklahoma will hold its Primary Election on August 26.

Members of the Armed Forces and their spouses and dependents are not required to register to vote absentee.

A completed Federal Post Card Application (FPCA), witnessed by a commissioned officer or other official authorized to administer oaths, may be used to request an absentee ballot. For the Primary Election, political party preference must be indicated on the FPCA.

A single FPCA may be used to request ballots for both the Primary Election of August 26 and the General Election of November 4.

FURTHER INFORMATION?

If you need further information on any of the State Primary Elections listed for the month of August, contact your Unit Voting Officer or Counselor. If there are detailed questions, contact the Federal Voting Assistance Program Office, Rm 1B 457, The Pentagon, Washington DC 20301. Telephone numbers are: Autovon 244-4928/4960, or Area Code 202-694-4928/4960.

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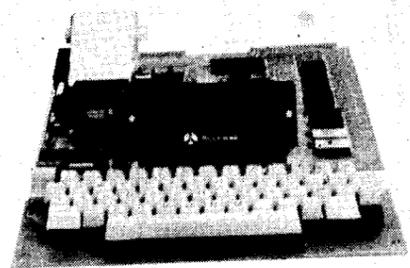
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5681 was WWII bomb factory

By ED PETERS

Building 5681 presently provides office space for approximately 800 people but it began life in World War II in a factory complex known as Plants Area 2.

Plants Area 2 was located in the center of the arsenal just south of Mills Road.

In WWII the factories made poison gases, incendiaries and other war materials.

At the end of the war a number of the plants were rented from the Army and converted to peacetime use making chlorine, DDT, carbonyl iron and other products. A carbonyl iron plant is still in production but the others have closed.

Building 5681 was built as a mustard plant but was never used for that purpose.

Instead it spent the war years as a bomb factory. Several types of bombs were made there including napalm and "goop" type incendiaries.

A second war use was as a carbon dioxide production facility. Tanks under the building that had been put there to hold mustard were filled with dry ice which was allowed to evaporate and the carbon dioxide given off was piped to a factory west of the building where phosgene, a war gas, was made.

The area beneath the building that housed the tanks and other equipment is constructed of heavy reinforced concrete. There is a large pit area where tanks were located. A series of tunnels contain a network of pipes and figured in a downdraft ventilation system designed for mustard production.

The north half of the building was rented in 1949 by the John Powell Chemical Co. Powell set up a facility in the building to grind and compound the DDT product of Calabama Chemical Co. which made the insecticide in a leased factory nearby. The Powell operation here also handled chlordane, dieldrin and other crop poisons brought in for processing.

The Olin Co. later purchased both Calabama and Powell and continued to make DDT here until 1971.

In December 1950 Powell tried to rent the remainder of the building as they wanted to increase production.

But with the coming of the missile mission to Redstone the Army had other plans for the building. In November 1951 Powell was made to move material they had stored in the south part of the building and it was converted to office space.

This arrangement didn't last long. The Army became concerned about conducting highly secret missile work in the shared building and decided to take the whole



Area under north end of 5681 was designed for mustard production

building for work associated with the Major (later renamed Redstone) missile program.

At the same time local Army officials looked at other segments of Plants Area 2 to convert to missile work. Plans were made to evict the Calabama DDT Factory too. Both Calabama and Powell fought eviction on grounds that

their continued operation here was in the national interest. DDT was in great demand at the time for military, agricultural and public health use.

Calabama was allowed to stay. John Powell was evicted midnight, May 31, 1952.

Air tests

(From front page)

Other insecticides, Chlordane and BHC (Benzene hexachloride), were also detected in the sample in the amounts of 32 ppm and 19 ppm.

A sample from a third point under the building tested 15 ppm DDT, 4 ppm chlordane and 3 ppm BHC. It is believed the residues drifted under the building through a steel grate floor while insecticide was being ground years ago.

No insecticide was made in the building. The grinding facility processed DDT from a factory nearby as well as other insecticides that were brought in for processing.

For a time in 1953 the insecticide facility was co-located in the building with research and development activities for the Redstone missile. In recent years the building has been occupied by the Missile Command's Maintenance Engineering and Materiel Management Directorates. Approximately 800 people work there.

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Golden knights need chutists

WASHINGTON — Do you have at least 150 free-fall jumps behind you?

Well, the U.S. Army Golden Knights are looking for qualified parachutists to join their team. The team's annual tryouts will be held Oct. 20-Dec. 13.

To be eligible, individuals must:

- Be active duty, grade E-1-E6.
- Have at least 150 free-fall jumps.
- Be actively jumping with a ram air type (square) canopy.

● Have at least two years remaining on current enlistment as of Jan. 1, 1981, or be willing to extend or reenlist.

● Have no record of court martial or article 15.

● If currently serving overseas, must have completed five-sixths of tour.

● Must not currently be on orders or alerted for overseas assignment.

Persons selected to try out for the team will be notified through command channels and

placed on TDY or special duty with the parachute team. Selectees will receive specific equipment requirements and other needed instructions.

Interested individuals may request tryout applications by writing the Commander, USAPT, Attn: Tryout NCOIC, P.O. Box 126, Fort Bragg, N.C. 28307 or calling Autovon 236-4800.

The USAPT must receive completed applications no later than Sept. 15. (ARNEWS)

Rockets win Invitational tournament

The Redstone Men's Softball Team traveled to Owens Cross Roads and won the Independence Invitational.

The tourney started Friday with a come-from-behind victory over PPG of Owens Cross Roads 13-7. James Seals hit a grand slam home run to ignite a five-run Rocket rally in the fifth inning.

On Saturday the Rockets beat Steve's Heros, another local team, 10 to 2. Seals again supplied the power with two homers and 5 rbi's. Next was Jiff-E Mark who fell 14 to 4. Redstone got 10 quick runs in the first two innings and never looked back winning in 6 innings. Louis Abrev, Prentiss Thomas and Carter Hines had three hits apiece for the Rockets.

On Sunday Redstone took on CSC. The Rockets jumped off to a 9-0 lead and had to hold off a determined comeback bid by CSC to win 9 to 7 and advance to the finals. Seals again homered for the Rockets.

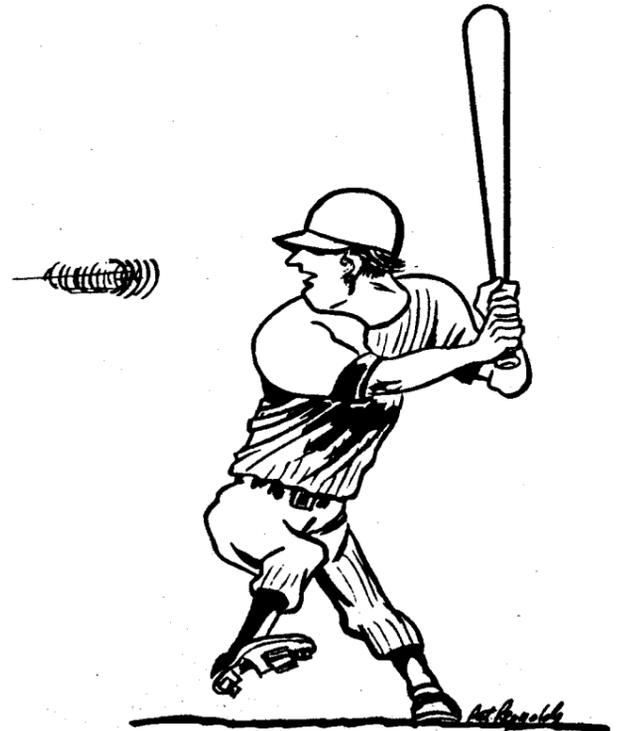
CSC was the opponent for the championship. The game remained a see-saw battle through

seven innings and went into extra innings tied at 12. The Rockets scored four runs in the eighth inning and held off CSC in their half to win the ballgame 16 to 12 and become tournament champions. Thomas and Seals homered for the Rockets. Redstone has won two tournaments and has an overall record this year of 40 wins and 8 defeats.

Redstone hosts McClellan team

The Redstone Rockets men's softball team will play host to the Fort McClellan men's team on Saturday, July 12 at 1 p.m. at Troop Softball Field 14. Two games will be played. The Rockets will travel to Fort McClellan on Sunday.

Soldiers who would like to travel to Fort McClellan on Sunday to watch the game should contact SSgt Cid at MMCS Motor Pool, 876-2326. A bus will be leaving Sunday morning at 9 a.m.



How they stand

CWF

	W	L	PCT	GBH
Rachels	11	1	.917	
R&D	11	2	.846	½
MMCS	7	4	.636	3½
Maint Engr	6	5	.545	4½
P&P	6	6	.500	5
Comptroller	6	6	.500	5
Raytheon	6	7	.462	5½
F&A	5	7	.417	6
Metrology	2	10	.167	9
EMS	0	12	.000	11

Company Level

West

HHC team 1	20	0
291st MP Co.	10	8
MEDDAC	10	9
Co. B team 1	10	8
8th S.C.	8	10
Co. A team 1	7	12
Readiness Group	5	12
95th SVC	5	14

East

Co. A team 2	18	2
Marines	15	5
515th Ord. Co.	10	9
7th S.C.	8	12
4th S.C.	7	11
Co. B team 2	7	13
HHC team 2	4	13

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VA pensioners get pay raise

WASHINGTON — About 300,000 veterans and their survivors got larger Veterans Administration pension checks July 1, according to VA officials. A 14.3 percent increase in the cost of living caused the pension hike.

This increase will affect some 2.4 million VA pensioners.

Unlike compensation paid to disabled veterans because of military service, pensions are paid to veterans permanently and totally disabled from circumstances unrelated to military service. Survivors of veterans in need receive pension checks also. The size of the pensions are affected by income from other sources.

Veterans receiving increases are those enrolled in the "improved" VA pension plan Congress introduced in 1979. This plan links VA pension rates to adjustments in Social Security payments. Before the change, an individual's pension could be reduced each time Social Security payments increased.

Pensioners receiving checks under the pension rules effective before 1979 will not receive the increase.

Their pensions will remain fixed and payable at the rates effective in 1978. Those rates are protected against reduction resulting from cost of living increases in their income from other sources.

Veterans under the "old plan" may transfer to the improved plan at any time, VA officials say. The agency will carefully review each application and advise applicants to choose the plan which works to their personal advantage.

For more information, contact your local VA office. (ARNEWS)

Missile symposium here on August 12

The Missile Command will sponsor a symposium on transitioning of missile systems from research and development to production on August 12 at Building 5250, Room A-115.

The symposium will look at how a major missile system travels from the experimental stage to being accepted by the Army for full-scale production.

Over 150 people from government and private industry will exchange ideas and discuss problems in the design and manufacture of new weapons systems. Concepts of cost, reliability and performance will be viewed from the management level.

Registration will be on August 12 at Building 5250 from 7:30 to 8:30 a.m.

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Four memorialized in ceremonies at the Pentagon

WASHINGTON — Two Medal of Honor winners, an Army nurse, and the inventor of the M1 rifle were memorialized in Pentagon ceremonies Friday.

The ceremonies, memorializing four conference rooms used by the Secretary of the Army (SA), honored Medal of Honor winners, 1st Lt. James A. Gardner and Sgt. Donald R. Long, Silver Star winner and Army nurse (2nd Lt.) Ellen G. Ainsworth, and M1 rifle inventor Mr. John C. Garand. The ceremonies also marked the first time a DA civilian has been honored under the U.S. Army Memorialization Program.

Mr. Garand was a designer and engineer who served in the federal government for 35 years. He was born Jan. 1, 1888, in Saint Remis, Quebec, Canada, and became a U.S. citizen in 1920.

In 1916, Mr. Garand submitted a design for a light machine gun to the U.S. Navy. He was asked to go to the Bureau of Standards to continue his research. Working at the bureau and at the Springfield (Mass.) Armory, he perfected a design for a fast-firing, gas-operated, semi-automatic rifle which became

the U.S. rifle in 1940. He donated the invention, and many others, to the U.S. Government royalty free. Today, his name is still associated with the rifle used by the U.S. Infantry in WWII, the .30 caliber M1 rifle — The Garand.

Ainsworth was born March 9, 1919, in Menomonie, Wis., and entered service in March 1942 after completing nurses training at Eitel Hospital, Minneapolis, Minn.

Hospital duty

On Feb. 10, 1944, near Anzio, Italy. Lt. Ainsworth was on duty in a hospital ward which came under heavy artillery fire. Despite extreme danger, she directed the placing of surgical patients on the ground to lessen the danger of further injury. Her disregard for her own safety and her calm assurance prevented panic and serious injury. For her bravery, she was awarded the Silver Star for Valor.

Lt. Gardner was born in Dyersburg, Tenn., on Feb. 7, 1943. He attended the University of Tennessee before enlisting in the Army. He

received his commission through Officers Candidate School, April 17, 1964.

On Feb. 7, 1966, Lt. Gardner led his platoon on a mission to help a company pinned down by a larger enemy force in Vietnam. Disregarding his own safety, he single-handedly charged through a hail of gun fire and destroyed four enemy bunkers. Although he fell dead on the rim of the last bunker, his actions inspired his men to continue the attack and rout the enemy. His actions earned him the nation's highest military award — the Congressional Medal of Honor.

A Blackfork, Ohio native, Sgt. Donald R. Long was born Aug. 27, 1939, and graduated from Decatur-Washington High School there before entering the Army on April 16, 1963.

Sgt. Long and his cavalry troop were conducting a recon mission in Vietnam on June 30, 1966, when they were attacked by a Viet Cong regiment. He left his armored personnel carrier to provide supplies and help his wounded crewmen to safety. When an enemy grenade was hurled onto his carrier's deck, he threw himself over it to save the lives of eight of his comrades at the expense of his own. Sgt. Long was awarded the Congressional Medal of Honor for his actions "above and beyond the call of duty."

Secretary of the Army, Clifford L. Alexander, Jr., commented, "I am proud to do honor to these four great Americans. I hope that as people enter these rooms they will want to learn more about the quiet but profound contributions of Garand, Ainsworth, Gardner and Long. Throughout the entire Army we are going to do more to remind everyone of the singular contribution of so many — contributions by people from all backgrounds. They represent, by their past deeds, the best in us."

An Army official explained that the Army Memorialization Program was set up to recognize and honor individuals who have made major contributions to the Army and the nation.

The program is active on all Army posts and local commanders may select facilities to be memorialized such as headquarters, buildings, ranges, barracks and streets, and choose the individuals to be honored. The honorees are selected on the basis of acts of heroism, duty in positions of great responsibility, and lengthy distinguished service.

The official commented a long standing Army policy that only permitted honoring military personnel has been changed so deceased DA civilian employees may also be honored. (ARNEWS)

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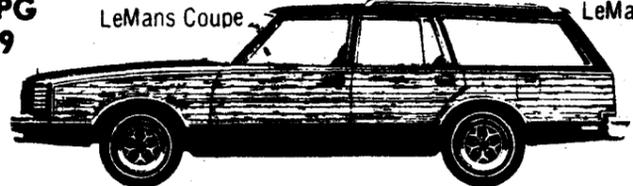
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Drowning deaths high among soldiers

BY LORI KING

A soldier went to a lake for a swim. He jumped into the lake and immediately had trouble swimming and called for help. His buddy tried to pull him out but couldn't.

This is one of several incidents reported in a recent Army message stressing water safety.

Drowning remain the second most frequent cause of Army deaths. The majority of these drownings occur in recreational activities outside military control and supervision, according to DA officials.

What starts out to be a 'good time' can end up a tragedy if soldiers are not aware of the risks and dangers involved in swimming, hunting, fishing and boating.

Accidents are caused by unsafe acts or unsafe conditions, said Lon A. Moffitt, safety specialist, but 85 percent of those accidents are from unsafe acts.

"A lot of the drownings that occur are because of attitudes," agreed Nick J. Latona, safety specialist. "The service members know that they are not allowed to swim in certain areas yet they do it anyway.

"They will go swimming intoxicated, alone or so confident that nothing will happen to them," he added. "They never really realize

the danger that swimming can have until it's too late."

A safety program is required by AR 385-10 to keep accidents to a minimum.

Accident experiences show that service members are far less likely to take risks if they understand the dangers involved. Although Redstone Arsenal has had no reports of drownings this year, commanders are still encouraged to alert their troops to the potential dangers of water activities. A few safety tips are: swim only in authorized swimming areas, swim with a buddy, wear life vests while boating and realize the effects of cold water (hypothermia) and alcohol on swimming ability.

These safety tips are important during the next few months since summer is the high risk period for drowning, said officials.

Swimming on post is restricted to three swimming pools: one is the recreation area on Vincent Drive, one at the NCO Club and one on Goss Road by the Officers Club.

Boating is authorized in the Tennessee River if proper equipment is used.

Most boater drownings happen when passengers do not wear life preservers.

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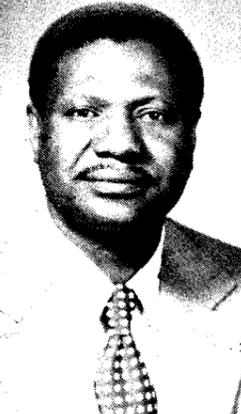
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Hwy 72W & University

Carpool wanted from Twin Oak Apts. off Hwy 72W at University Dr. to 5681, hours 6:30-3, can change. Linda Blackwell 876-7697.

Haysland

Carpool wanted from SE Haysland Sq./Weatherly Rd. area to 3600 area, hours flexible. R. B. Respass 876-4119/4250.

Hillwood Addition SE

Carpool or ride wanted from Hillwood Addition SE (corner Overlook & Woodcrest) to 4484 or 4488, hours 7:30-4. Tom Hengerger 876-2181.

Camelot

Carpool wanted from Camelot in SE Huntsville to 8027, hours 7-3:30, can change. Carol Vicuna 876-3217.

Drake Avenue SW

Ride wanted from Drake Ave. SW (between Whitesburg and Parkway) to Bldg. 3304 MMCS, hours 7-3:30. Carol C. Houser 876-8443/8538.

Ardmore Hwy/Ready Section Road

Carpool wanted from Ardmore Hwy/Ready Section Road area to 3224, hours 7-3:30. Betty Traweek 876-3517/3613.

Athens

Carpool member wanted from Fairview/East Limestone area or intersection Hwy 251 & East Limestone Rd. to 4488 or vicinity, hours 7:45-4:15. Brenda Kyle 876-3103.

Flintville

Carpool wanted from Flintville (Huntland, Elora area considered) to 7101, hours 7-3:30. Doug Morris 876-5560.

Announcements

Photo contest at crafts center

The Multi Craft Center, Bldg. 3466, will be sponsoring the Redstone Arsenal level of the All Army-Interservice Photography Contest on July 15. Entries are due at the Multi Craft Center on or before July 13. Entries will be accepted in three groups: monochrome prints, color prints and color transparencies. For information concerning size limitations, rules, etc. contact the Multi Craft Center at 881-5841 after 1:30 p.m. Wednesday through Sunday. The contest is limited to active duty military only and winning entries will be forwarded to Ft. Gordon for competition at the TRADOC level.

Farewell tea

The Redstone Officers Wives Club hosted a farewell tea on July 8 in honor of Mrs. Louis Rachmeler and Mrs. Harvey C. Day Jr. Mementoes were presented to the guests of honor. Following the retirement of Major General Rachmeler and Colonel Day, both families will live in the Huntsville area.

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Yes, I'd like to place a free carpool ad:

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Additional Instructions _____

Starting point _____

Destination _____

Hours _____

*It's helpful if you indicate the section of town you live in.

Scottsboro

Carpool, ride or riders wanted from Scottsboro to anywhere on Redstone Arsenal, hours 7:30-4. Ray Pelfrey 876-5726.

Arab

Carpool wanted from Arab to 5678, 5687, 5681, hours 7:30-4. Tommy Smith 876-5483/4971.

Carpool wanted from Arab to 4488, hours 8-4:30. Martha Brazelton 876-2890.

Sheffield/Ford City

Carpool or ride wanted from Sheffield/Ford City to 4566, hours 7:30-4. Janet Baker 876-3747.

East Limestone

Carpool wanted from East Limestone to 5250, hours 8-4:30 but flexible. Betty Wells 876-1197.

Shop The Ads

Use coupons, save on groceries

The Coupon Exchange Group for military wives will hold its first meeting on Monday, July 14 from 7 to 9:30 p.m. at the recreation center, building 3711. Lois Price and Marguerite Hopson will speak on "How to Use Your Coupons and Save on Your Grocery Bill."

Piano lessons

Recreation Services is offering piano lessons for youngsters. Parents of interested boys and girls may register them at the DYA office, Bldg 114, weekdays from 8 a.m. to 4 p.m. For more information call 876-5437

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CALL 883-2910
For Further Information

The Reading Center admits qualified students who are willing and able to do good work. None shall be denied admissions because of race, color, national and ethnic origin.



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Pet Adoption Day July 12th

10 a.m. to 2 p.m.
Greater Huntsville
Humane Society
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WANTAD RATE — \$3.00 minimum, per weekly insertion, covering first 25 words. 8 cents per word all over 25 words. Cash with copy, except where open account basis is previously established. 50 cents service charge added for credit. Mail copy with payment to Mrs. Vergie B. Robinson, P. O. Box 5351, Huntsville, Ala., 35805. Deadline is Friday noon, before Wednesday publication.

1. FOR RENT

For Rent
Destin, Florida—Large 1 bedroom condo, completely equipped. Private beach, lighted tennis courts, pool club house, and restaurant. \$300 per week, \$60 per day for 4, min 4 nites. Call 534-0651 days, 881-6045 nights. 8-27-C

FOR RENT

On beach Panama City, Fla. 1 br. condo (could convert to 2 bdrms.) Sleeps 6 first floor in front of pool. Color TV, stereo system, whirlpool. \$335.00 per week. For more info. 881-1348 Pictures available upon request. ttc

VACATION - DESTIN, FLORIDA - CHATEAU LaMER

Large 1 BR Condominium completely furnished, private beach, club house, pool, lighted tennis court, shuffle board. 3 nights minimum \$60/day: \$300/wk. 883-7390 (eve) 8-27-P

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Destin, Fla., Chateau La Mer. 2 br., 2 bath. Completely furnished. Pool, club house, pvt. beach, lighted tennis cts., restaurant. Sleeps 6. 4 nights min. \$70/day; \$350 wk. Call 895-3483 (K) day or ATHENS 232-2828 ttc

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Cedar Chalet on Guntersville Lake. Stone fp, cathedral ceiling, sleeps 6, beautiful view of lake & woods, \$215 per week. 533-3302 days 881-4926 night. ttc

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NEW FURNITURE

Couch - chair - and loveseat in brown and beige fur - \$225.00. Modern couch and chair in earth-tones, \$150.00. 536-0205 or 534-4787. ttc

4. HOUSES

BIG COVE AREA

Brick & cedar home on a level lot with tall pines. Great room has cathedral ceiling & fp. Super large master br suite. This 3 br home, also has custom lighting & is nicely decorated. A great buy in the low 80's. RESULTS REAL ESTATE 837-5634

RESULTS REAL ESTATE

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For those seeking a distinctively different way of life. We offer this energy efficient contemporary rancher in SE. Sunken Cathedral ceilinged lr with floor to ceiling fp, separate dr, rec room, 3 bdrms, 2 full baths, work saver kitchen with an abundance of warm wood cabinets and built-in appliances. low, low equity and assume payments. Call Vergie Robinson 883-4587 or 881-4900 LANDMARK Gallery of Homes. ttc

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Cabin with 2 bns, great room, screen porch plus boat house & pier. Priced in the 30's for the best in summer fun. RESULTS REAL ESTATE 837-5634

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INVESTMENTS

Help for you in buying this home. Seller will make the first 3 months of ownership easy by paying \$750 per month for you. This lovely secluded home offers 4 bdrms., 3 1/2 baths, den, rec room, stone fp in living room and den (and don't forget the help on payments). If you're looking for a lovely home that is a super buy, see this one. G204. 539-0643. ttc

HELP FOR YOU

Home pleases eye, price pleases BUDGET! Thrifty living in this charming 3 bdrm. brick home convenient to school & shopping. Den has wood burning stove plus rec room has Franklin fp. Don't let this one get away!! B3803. 539-0643. ttc

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Home pleases eye, price pleases BUDGET! Thrifty living in this charming 3 bdrm. brick home convenient to school & shopping. Den has wood burning stove plus rec room has Franklin fp. Don't let this one get away!! B3803. 539-0643. ttc

LET MOTHER LIVE ALONE AND LIKE IT!

Right in your own home. Brick rancher plus mother-in-law suite with 1 bdrm, bath, kitchen and living room all this and 3 bdrms. bath, kitchen, living-dining combo, single car garage. Hugh corner lot, only \$41,500. Call listing agent Gene Arvin for private showing. 533-6973 or 881-4900. F3607. LANDMARK Gallery of Homes. ttc

LIKE NEW CONDITION

and only \$22,500. Ready for occupancy. Starter home, 2 bdrm. cottage near The Mall. Call Gene Arvin for more details. 533-6973 or 881-4900. M1103 LANDMARK Gallery of Homes. ttc

GOLF COURSE VIEW

One of the few left with 5 1/2% assumable loan. 3 bdrm., 2 bath, LR & DR, kitchen with fp, inside laundry, 2 car garage. Hurry to see this one. 60's. 824MV. Call Nora Towns 883-5777 or 881-4900 LANDMARK Gallery of Homes. ttc

8.7 ACRES ON ELK RIVER

City water. Beautiful home site. Jerry Madison 881-2148 or 881-4900 LANDMARK Gallery of Homes. ttc

"HOW SWEET IT IS — AND HOW PRETTY!!"

Located in Lacey's Spring on 1 1/2 acres this 2 1/2 yr. old rancher offers 3 bdrms., 2 baths, inside laundry, stone fp, custom window coverings, carpet, wallpaper, garage and a picturesque view from the front porch that is breathtaking. Coming home to this is like leaving for a vacation spot where you can hide-a-way! \$54,900, \$15,900 equity, 9% Int. Rate. This is an exclusive. Call Irene 883-5498 or 881-4900 LANDMARK Gallery of Homes. ttc

NEW LISTINGS

SCENIC VIEW PARK backs to my beautifully landscaped yard. 3 bdrm. brick rancher, den, LR/DR, nice kitchen. Mid 30's. L2610.

CREAM PUFF OF THE YEAR 3 bdrm. tri-level, 1 1/2 bath, LR, eat-in kitchen, large workshop area. Good location. Only \$35,500. O3736.

INVESTOR'S OR BEGINNERS! low payments of \$200.80 Low equity \$7,581. On this completely remodeled 3 bdrm. brick rancher with new carpet, vinyl, beautiful wallpaper, counter top, large fenced backyard. Must see. M2732. Call - Kathy Cooper 883-1921 or 881-4900 LANDMARK Gallery of Homes.



TWO NEW LISTINGS! — N.W.

IMMACULATE 4 bdrm., 2 bath, tri-level. Den with fp & bookshelves, LR, DR, all this with fenced in yard. 50's 2819B.
CHARMING 3 bdrm., 2 bath, brick rancher located on large lot at end of street. \$29,500. 6219 M.
Call Now - Nora Towns 883-5777 or 881-4900 LANDMARK Gallery of Homes.

5. REAL ESTATE

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This 4-plex investment has some new paint and roof and is already rented. Owner will partially finance. If you need a tax shelter this one is for you. Better call now, it won't last long for \$38,500. Joyce Mood 883-0281 or LANDMARK 539-0643. ttc

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Make an offer on this commercial bldg. Corner Andrew Jackson & Stevens Ave. Why pay rent? Call Virginia Robinson LANDMARK Gallery of Homes 881-4900 or 883-4587. ttc

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may be the answer to your tax problems. \$84,500 - 10 1/2% FHA/VA financing available. \$17,500 down. SV LANDMARK Gallery of Homes 539-0643, 859-4660. ttc

"THE BIG THREE"

LOAN, LOCATION, LOW EQUITY 3 bdrm. brick rancher located in desirable Montdale area. \$11,000 equity, assumable 10% VA loan. Better hurry! This new listing won't last long. Call Vergie Robinson LANDMARK Gallery of Homes 881-4900 or 883-4587. ttc

BY OWNER

10 ACRES, \$4000
7 ACRES, \$2500
18 ACRES, \$6000
9 ACRES, \$3500
Near Pulaski TN. Partly wooded nice bldg. sites. Also other tracts for sale. Terms available. Call Pulaski, Tenn. 615-363-5349. ttc

ATTENTION INVESTORS!

Just received NEW LISTING in Five Points area. All reasonable offers will be given VIP treatment on this 3 bdrm., 1 bath home. Price \$15,000. OS517. LANDMARK Gallery of Homes, 539-0643. ttc

6. Mobile Homes

FOR SALE: 1975 12x60, Tristar 2-bedroom mobile home, partially furnished, electric, located in Athens, \$5,700 firm. Call 233-2197 nights. 1TP

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Nursery Service Available

Old gold

(From front page)

to reduce the acquisition cost of a product," Jones said.

"Material is subsequently reutilized within the Department of Defense," he said.

Several hundred ounces, officials decline to be specific, in precious metals are recovered from the arsenal each year. Generating activities include photo, R&D labs, reproduction, test and evaluation directorate, government owned contractor-operated facilities, MEDDAC and MMCS.

Mainly silver is recovered from Redstone, where a large amount of film is processed. Also recovered are gold and platinum.

"We were throwing away tons of raw film a couple of years ago then the price of silver went up," said Don Godwin, chief of the audiovisual branch for RASA. "There's no waste of photographic film today if proper recovery is being used. Recover from film, fixer. . . You get back probably 90 percent of what you put into it."

The largest user of silver is the photographic field followed by the industrial field which manufactures batteries, dental items, and so on, officials said.

Items turned in to the disposal office here include dental scraps, outdated film, electronic scrap and silver batteries. "We get

everything from teeth on up," said Ruby Massey, precious metal monitor for the Defense Property Disposal Office on the Arsenal.

Silver flake off electrolytic units is "the latest and fastest growing type of recovery," Massey said.

The largest recovery of silver from Redstone is through an acid-fixing solution used in processing film.

The total Department of Defense recovery program for fiscal year 1979 resulted in collection of 10,320 ounces of gold and 1,701,000 ounces of silver, Massey said. The total recovery program cost worldwide was \$4 million, she added.

Jones, chief of the stock control branch in the Supply Division of RASA, became coordinator of Redstone's program as a collateral duty in February. "The DoD precious metal program has resulted in a multi-million dollar recovery of precious metals with a minimal cost of less than 10 percent to manage and recover the metal," he said.

Silver six months ago was selling for \$40 an ounce and recently was selling for about \$14 an ounce. "It's my position that we will recover precious metals without regard to the market value of silver solely because the dumping of silver or any precious metal into the en-



Silver lining

Army photographer Ray Rowden gets tangled up in used film at the Photo Lab.

vironment is pollution or an environmental hazard," Jones said.

"If silver dropped to \$2 an ounce, I would still manage the recovery of this because we shouldn't dump it into the environment."

SOUTHEASTERN INSTITUTE OF TECHNOLOGY

COURSE OFFERINGS — EARLY FALL TERM 1980

DATES: MW sessions Aug. 27-Oct. 22; TT sessions Aug. 28-Oct. 21

LOCATION: 200 Sparkman Drive, Cummings Research Park.

REGISTRATION: Continuous through first session. Telephone for reservations.

FEES: Full-term 500/600-level: \$180 plus \$5 registration. Application: \$5 special, \$25 regular. Short-term fees as noted.

INFORMATION: Telephone (205) 837-9726.

10-502 GENERAL ENGINEERING REVIEW II TT 6:50-9:00 p.m.
 An intensive review of electrical circuits, fluid mechanics, thermodynamics, and engineering economy. Preparation for professional examination or advanced study. Instructors: Raymond C. Watson, Jr., M.S.E.; Terry F. Greenwood, Ph.D.

11-571 RADAR SYSTEMS MW 4:30-6:40 p.m.
 An introduction to the theory, functions, and applications of radar systems. Instructor: Stephen M. Gilbert, Ph.D.

11-611 ANTENNAS AND ARRAYS MW 4:30-6:40 p.m.
 A study of the theory, design, and applications of antennas and arrays. Instructor: Richard E. Lawrie, Ph.D.

11-681 SIGNAL PROCESSING TT 4:30-6:40 p.m.
 A study of signals, detection and estimating, and signal processing. Instructor: R. Duane Hays, Ph.D.

17-514 COMPUTER DATA STRUCTURES TT 6:50-9:00 p.m.
 A study of logical data structures and their machine processing. Instructor: Robert R. Covelli, S.M.

17-544 COMPUTER HARDWARE ORGANIZATION TT 4:30-6:40 p.m.
 A study of basic operations, logical design, and organization of digital computers. Instructor: J. B. White, Ph.D.

21-626 VALUES AND ETHICS IN MANAGEMENT MW 6:50-9:00 p.m.
 A seminar on the role of values, ethics, and morality in management. Instructor: Donald Jackson, Ph.D.

24-616 BUSINESS LEGAL ENVIRONMENT TT 6:50-9:00 p.m.
 An examination of the legal environment in which business and commerce operates. Instructor: Gary L. Rigney, J.D.

27-521 PROJECT/PROGRAM MANAGEMENT MW 4:30-6:40 p.m.
 An introduction to the management of high-technology projects and programs. Instructor: Henry F. Magill, M.S.E.

31-541 ADVANCED ANALYSIS TECHNIQUES I TT 4:30-6:40 p.m.
 An introduction to selected topics in higher applied mathematics. Instructor: L. Wayne Johnson, Ph.D.

34-541 CONTEMPORARY OPTICS MW 4:30-6:40 p.m.
 A study of the fundamentals of contemporary geometrical and physical optics. Instructor: Charles L. Wyman, Ph.D.

34-649 HIGH-ENERGY LASERS MW 6:50-9:00 p.m.
 An examination of the theory, functions, and applications of high-energy lasers. Instructor: Thomas G. Roberts, Ph.D.

61-531 RUSSIAN-ENGLISH TRANSLATION MW 6:50-9:00 p.m.
 An introduction to language translation from Russian to English. Instructor: Arthur M. Doyle, M.A.

SHORT-TERM COURSES:

10-691 BMD SYSTEMS ANALYSIS Sept. 29 - Oct. 3
 A 5-day intensive course on methods of analyzing BMD system performance, strategic ballistic missile performance, and strategic missile interchange. Time: 8:30 a.m. - 4:30 p.m. Lectures by Wayne R. Winton and John L. Dyer of Sparta, Inc. Fee: \$450 credit and noncredit.

17-695 HIGH-PERFORMANCE MICROPROCESSORS . . . Sept. 22, 23, & 24
 A 3-day seminar on 16-bit, high-performance microprocessors. Time: 8:30 a.m.-4:30 p.m.; hands-on demonstrations after hours. Lectures by specialists from Intel, Zilog, and Motorola; coordinated by Robert R. Parker and Joseph C. Scalf. Fee: \$200 noncredit; \$250 credit (with additional studies).

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