

# Redstone Rocket

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## Army selects contractor for new artillery weapon

BY BOB HUBBARD

The Army has selected LTV Aerospace and Defense Co. of Dallas, Texas, to develop the Army Tactical Missile System (Army TACMS), a new conventional artillery weapon that can strike targets deep behind enemy lines beyond the ranges of existing cannons, rockets and the current Lance missile.

With the selection, the Missile Command last Wednesday awarded more than \$37.4 million to the company's Vought Missiles and Advanced Programs Division for full-scale engineering development of Army TACMS. Total value of the four year program will exceed \$180.3 million.

The fixed-price-incentive contract calls for the Army TACMS missile and launch pod assembly to be compatible with the Army's Multiple Launch Rocket System, and contains options up front for the Army's total missile production buy.

Most of the work will be conducted in Vought facilities in Grand Prairie, Texas.

In addition, MICOM on Thursday awarded approximately \$83 million to Vought (MLRS prime contractor) to integrate the missile in its container into the MLRS launch vehicle.

Army requirements call for the Army TACMS missile to be launched from a modified version of the MLRS launcher. By using MLRS that is already deployed, the Army minimizes the impact of a new missile system on the current force structure.

Once fielded, the Army TACMS launcher can also fire MLRS rockets.

Vought won the Army TACMS development contract in competition with Boeing Aerospace Co.

Formally started in early 1983, what is now Army TACMS combined two earlier study programs, the Army's Corps Support Weapon System and the Air

Force Conventional Standoff Weapon, into a joint missile program.

Vought, Boeing and Martin Marietta Aerospace received contracts in late 1983 for technical approaches and development ideas based on Army and Air Force requirements. The Air Force in late 1984 terminated their participation in the program at Redstone Arsenal.

In late 1985, Vought and Boeing submitted competitive proposals for full-scale engineering development of Army TACMS leading to the selection of Vought.

Targets for Army TACMS' conventional warhead include personnel, supplies and equipment, but the program will be structured to include future technology advancements like smart submunitions and terminal guidance warheads.

Col. Thomas Kunhart is Army TACMS project manager and Dr. Billy Tidwell is his civilian deputy.

## Vanpooling becomes possibility for Redstone workers

BY SKIP VAUGHN

If enough interest is shown, the City of Huntsville will provide a van for transporting a group of workers to and from Redstone.

This ride sharing or vanpooling effort is dependent upon whether at least 10 interested workers here contact the city's transportation department by mid April. If not, it won't happen.

Anita Flowers, a worker here, got the wheels rolling when she inquired with the city about ride sharing. She will soon need a ride to and from her job at Procurement Directorate.

"There's a lot of people on the arsenal that don't have rides to work," says Flowers, a procurement clerk. "They don't know where their ride is going to be coming from until that very morning, maybe till that afternoon."

Others might just not want to drive their cars to work and would rather someone else does the driving, she adds. Under the proposed program, the city would furnish a van and the riders would pay for its gasoline and oil. The group would also assign a driver, probably one of the members.

This would be a group-operated vanpool rather than a city-operated vanpool, according to Louise Heidish, a city transportation specialist. "That's the way our ride sharing program works," she says. "Each group makes its own decisions. The group gets its own volunteer drivers. In fact, somebody in the vanpool can drive."

For several years, the city transportation department has been offering the option of ride sharing and vanpooling. There are "neighborhood-based ride sharing vans in various neighborhoods," Heidish points out. These are used to transport people to medical facilities, grocery stores and schools. A related program is to transport handicapped persons to medical facilities and stores.

"We have a community-government approach for ride sharing," says Heidish, who works in the transportation department's public transportation division. Redstone's program, if it happens, would not be the first commuter vanpool effort although there is no other at present in Huntsville, she says.

"Since the early 1980s, the city has worked in cooperation with the Urban Mass Transit Administration for neighborhood-based ride sharing programs in volunteer van communities," Heidish says. "We established a community-government partnership program to provide neighborhood-based ride sharing."

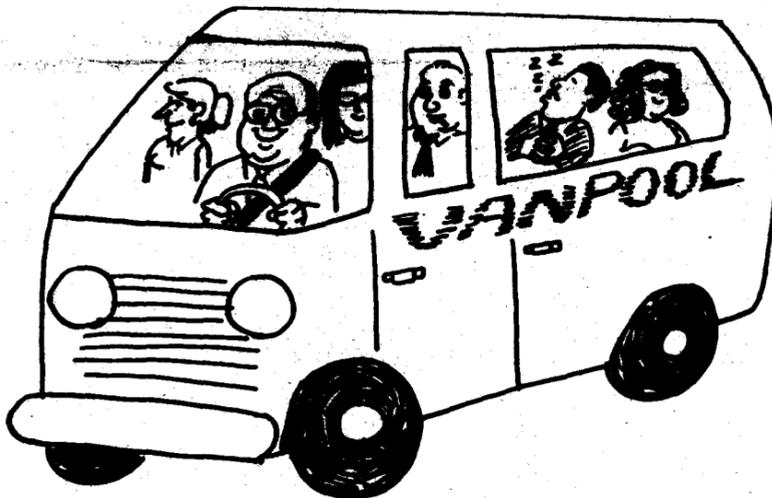
Flowers, a member of procurement division B, needs to come up with a ride to work by early May. She has been riding with either her mother, who lives on the opposite end of town, or with a woman co-worker. Her mother has been looking for a ride for her by making phone calls; someone gave her mother the

transportation department's phone number and vanpooling became a possibility.

"I think it's wonderful that they (the city) will even consider it," Flowers says.

Redstone workers interested in vanpooling should

call the city transportation department at 532-7535/7440. It is hoped that interest will be strong enough to schedule an organizational meeting in late April. A decision will be made based on interest shown by April 16, according to Heidish.



## MICOM's laboratory judged best in Army

For the second time in five years, the Missile Command has been judged to have the best research and development laboratory in the entire Army.

MICOM's Research, Development and Engineering Center won the honor in a competition that involved all 34 of the Army's R&D laboratories.

Dr. William C. McCorkle will accept an award on behalf of the RD&E Center in a ceremony to be arranged at a later date. McCorkle, director of the Center since 1980, was in Korea when MICOM was notified of the award last week.

MICOM's laboratory, which won this same award in 1981, is the Army's lead organization for missile guidance, control and terminal homing; for high energy laser technology; and for "smart" munitions.

The RD&E Center's nominating papers cite seven key programs and developments. These are:

**Sparrow Hawk** - A technology demonstration fitting Navy Sparrow missiles to a launcher from the Army's Hawk system to create a versatile new weapon.

**Setter** - An experimental light air defense system that combines Stinger missiles, Spike hypervelocity rockets and advanced sensors in a potent firepower package that is turret-mounted on the Hummer all-terrain vehicle.

**FOG-M** - A fiber optic-guided tank killer able to find its own targets and engage them out of the line of sight of the gunner.

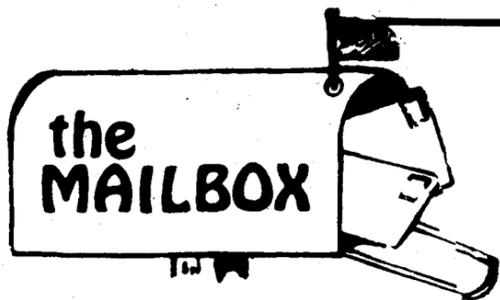
**VHSIC Automatic Target Tracker** - It virtually eliminates human error in laser command to line-of-sight missile guidance schemes, improves the target image and lets one gunner achieve simultaneous flights of missiles such as Tow.

**Spatial Light Modulator** - This has wide application in target recognition and discrimination and robotic vision, is the best device of its type available and has a projected cost that is 20 times less than the price of commercial optical correlators.

**Digital Beamforming** - This forms multiple simultaneous radar beams that are able to defeat airborne jammers.

**Rifleman's Assault Weapon** - The RD&E Center achieved a breakthrough in aerodynamics which corrected an accuracy problem with this spin-stabilized projectile.

Another factor in the RD&E Center's being selected for the award was its role in investigating and finding the cause of the Pershing II motor fire that occurred in Germany in 1984.



## Safety course

**Editor:**

In response to the front page article of the March 19 issue of the *Redstone Rocket* concerning the MICOM motorcycle safety course, I have the following questions.

1. What organization in Huntsville offers the Motorcycle Safety Foundation's "Better Biking Program"?
2. Why are civilians, who might be unable to attend an alternate course, required to pay \$14 and use six hours of personal time for the MICOM course while military personnel pay nothing?
3. The article states that motorcycles are limited to approved roadways (no off-road use). Do dirt and gravel roads throughout Redstone Arsenal (example: Madkin Mountain) constitute approved roadways? What about access to certain hunting and fishing areas on post?
4. Why can't an off-road area be designated for motorcycle use?
5. Can a student attending the MICOM course pay cash rather than obtain a cashier's check or money order?
6. The article states that only street bikes may attend the MICOM course. Does this include any motorcycle, including on-road/off-road motorcycles, with a valid state tag?
7. The article did not point out, but it is my understanding, that students' motorcycles used in the course—many other safety courses provide motorcycles—must pass an inspection. Will every motorcycle registered for use on Redstone Arsenal now require the same inspection?
8. Does Redstone Arsenal have an off-road motorcycle club?

I have always worn a seatbelt while driving an automobile and used a helmet and eye protection while riding motorcycles. But the latest AMC regulations concerning a required motorcycle safety course and the restriction of motorcycles for off-road use is just another example of stereotyping and discrimination against a minority who are not protected in the same sense that other minority groups are protected. Don't forget how important motorcycles are to energy conservation.

Motorcyclists don't injure pedestrians. Automobile drivers injure pedestrians and motorcyclists. Why aren't all cars registered on Redstone Arsenal required to pass an inspection?

Why aren't Redstone Arsenal automobile drivers required to take a driver's safety course? Unrealistic costs are no excuse for singling out motorcyclists.

**Name withheld by request**

**Editor's Note:** Here are answers to the questions asked in the letter above.

1. Several local motorcycle clubs have certified instructors for the Better Biking Program. They offer instruction for their members and to outside groups.
  2. Military personnel don't pay the fee because it is paid by the military training fund. However, if soldiers are scheduled to take the course and don't show up, they must pay the \$14 also.
  3. Dirt and gravel roads, and roads to hunting areas are approved for motorcycle use.
  4. There is an approved off-road motorcycle area on Madkin Mountain. Point of contact is Shelby Williams 876-6854.
  5. In some special cases, cash may be accepted for the course. For more information, call Reita Perry 876-9761.
  6. When the contract for the course was written, the issue of training dirt bike riders was not addressed.
  7. Army Materiel Command now requires that every motorcycle operating on post pass a safety inspection.
  8. The only motorcycle club here is for street bikes, and is called the Redstone Riders.
- There is no regulation requiring an automobile safety inspection. People who will operate a government vehicle on Redstone Arsenal must pass a driver safety course.

## Clean hand policy

**Editor:**

If one were asked to recite a few popular slogans known to the general public, the following would perhaps come forth:

1. Put your best foot forward
  2. You take for granted that a public drinking fountain will supply potable water
  3. Brush your teeth regularly to avoid cavities
  4. Wash your hands before eating
  5. Wash your hands after going to the bathroom
  6. MICOM - Providing Leaders the Decisive Edge
- This letter concerns item 5 since there is a consensus that many personnel at MICOM do not regularly practice item 5. Item 5 perhaps relates to personal hygiene that can only be readily monitored or controlled by each adult on a personal basis for obvious reasons.

Failure to practice item 5 can result in self-contamination as well as serving to spread bacteria or virus from "unclean hands" to points of contact such as drinking fountains, commonly-shared coffee dispensers, door knobs, work documents, etc.

Your employer has provided you with facilities to enable you to practice personal hygiene relating to item 5, but an edict to force employees to practice item 5 perhaps may be limited to food service personnel, barbers, beauticians and professional health care personnel.

If you are not practicing item 5 what are attributing factors:

- (1) Do you not like to use bar soap since it is not as desirable as liquid soap from a dispenser in controlling the spreading of germs?
- (2) Do you not like the crank handle towel dispenser since it is not as desirable as the single pull-out towel model in controlling the spreading of germs?

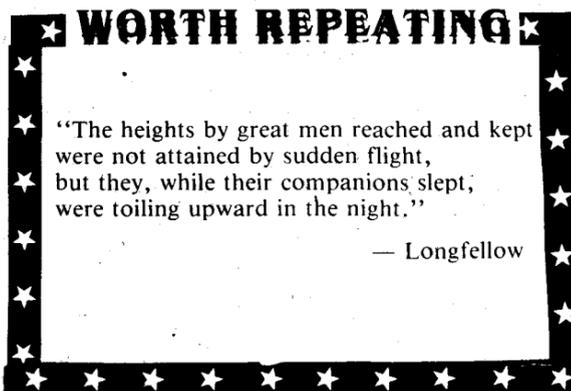
Regardless of your excuses for not practicing a basic health rule of washing your hands after going to the bathroom, you are encouraged to promote a Clean Hands Policy at MICOM by starting a regular practice of washing your hands after going to the bathroom — for your health's sake and your obligation to provide a clean hand to extend to your co-workers for their health's sake. Remember, wash your hands after going to the bathroom. You'll feel better if someone shakes

your hand that you have kept it clean for receiving an ancient custom of greetings and congratulations so often practiced in our society.

**Winslow L. Hill**  
Patent Law Division  
Legal Office

## Sign your letter

Letters will not be considered for publication in the *Redstone Rocket* unless they are signed and contain an address or phone number for the writer. Names are withheld on request but unsigned letters will not be used. Send letters to: The *Redstone Rocket*, AMSMI-IN.



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**NCOA** — Tom Ryan, a retired command sergeant major, spoke to the Noncommissioned Officers Association last Wednesday. Ryan is director of military affairs for NCOA in Washington, D.C. He spoke to the group about what effects the Gramm-Rudman-Hollings bill and changes in military retirement laws will have on the noncommissioned ranks.

## Phone numbers changing at Marshall Space Center

Effective March 31, the Marshall Space Flight Center will begin a 30-day changeover to a new state-of-the-art telecommunications system.

This new system will involve both new telephone equipment and new telephone numbers. During the 30-day period, both the old phone numbers and new phone numbers will be operational.

Effective May 1, the old phone numbers are scheduled to be disconnected. Those calling the old numbers after that date will be referred to the Center's central operator, 544-2121. The central operator will provide the caller with the employee's new phone number.

The new telephone number for the Center's Media Services Office will be 544-0034.

**Productivity boost**

# Computer system ushers in new era in data handling

BY ED PETERS

A new system for information storage and retrieval — the most advanced of its kind anywhere — is expected to give productivity at the Missile Command a significant boost.

Called the Digital Storage and Retrieval Engineering Data System, DSREDS for short, the system stores vast numbers of technical documents on aluminum discs resembling phonograph records.

Technicians began installing the new system last week. It has storage capacity for four million document pages and can be expanded to store nine million.

Each 14-inch aluminum disc stores 14,000 documents. Discs are arranged and dispensed like records in a juke box. It has been calculated that a stack of documents taller than the Washington Monument can be contained in a stack of these discs just eight feet high.

A DSREDS system has tape and disc drives, optical disc units, aperture card and hard copy scanners, a power distribution unit — 49 pieces of equipment total.

"What we're getting is state-of-the-art equipment; there's none other like it," remarked Dave Stanbrough, manager of the program office that was established here by Information Management Directorate 18 months ago to manage the acquisition of 12 DSREDS systems, seven for AMC commands and five for the Air Force. So advanced is DSREDS that the program had to mark time in the concept stage for several years awaiting development of the technology that it needed. The value of the program is \$55.8 million.

At the Missile Command, DSREDS will cut procurement lead times by three to seven days by being

able to efficiently handle technical documentation, according to Stanbrough, and will also contribute to productivity in other ways:

\* It eliminates many of the manual tasks involved in handling data cards. These include pulling, sorting, interpreting and collating.

\* Users will be able to obtain from one file the technical documentation that is presently divided among three.

\* Users can receive documentation via electronic transmission to work stations anywhere on post, instead of having to visit Technical Data Support Division or the "satellite files" in buildings 4488, 5400 and 5681.

The system is being installed here in building 4722 in a 2900 square foot computer room with temperature and humidity controls. "They're supposed to have it up and running by April 28 for what they call a burn-in period," said Stanbrough. This will be followed by a six-month series of acceptance tests beginning at the

end of May. The Air Force's first DSREDS system is being assembled at Sacramento, Calif. simultaneously with installation of the one here.

The first DSREDS systems were supposed to have been installed in December. To compensate for the delay, the contractor, AT&T Technologies Inc., is providing a more-powerful computer, better terminals, faster communication speeds, a better technical data package process, better work station printers and other system enhancements, Stanbrough said.

Also, AT&T has bought, with its own money, two additional DSREDS systems and thus should be poised to deliver the next two systems on time, even if problems delay installation and testing of the first two, which is a possibility, the program manager added.

Stanbrough's eight-member group will oversee installation of 10 more DSREDS systems at the other Army and Air Force sites through 1988.



CARD ROOM — A dark room for developing film and machines for making data cards at a rate of 10,800 per hour are part of the system.



EQUIPMENT INSTALLED — Technicians are assembling the new DSREDS data handling system in building 4722. It will be the most advanced system of its kind anywhere.

## Commissaries aid Special Olympics

FORT LEE, Va. — Special Olympics sports programs recently benefited from a donation of \$32,076 from the U.S. Army Troop Support Agency. The donation is from a Special Olympics promotional sale held in February and March of 1985 at commissaries Armywide and is an annual commissary sales event.

The money will be used to improve the physical, social and psychological development of mentally retarded participants.

TSA officials noted that 29 manufacturers, offering products ranging from toiletries to frozen foods, participated in the sales event in which more than 70,800

cases of these products were sold. The manufacturers passed on to TSA some of the proceeds for an average of 45 cents per case sold during the two month promotion.

The top six stateside commissaries which led in sales were Forts Sill, Okla.; Benning and Gillem, Ga.; Meade, Md.; Benjamin Harrison, Ind.; and the Presidio of San Francisco.

The top six European commissaries were Mannheim, Munich, Bremerhaven, Fuerth and Neu Ulm in Germany, and the Vicenza commissary in Italy. (Arnews)



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# Long career ends for World War II navigator

BY SKIP VAUGHN

Completing a career is nothing new to Festus Bryant.

Bryant has just finished working for the Army after a civilian career with the Air Force and a military career with the Air Force. His government service spans 42 years, 11 months and a week.

He left the government March 31. Officially it was called a resignation since Bryant had already retired once from civil service with the Air Force. "I just want to do a little leisure things like fishing and visiting friends and relatives," says Bryant, who finished a five-year Army career as a contract price cost analyst in Procurement Directorate.

"See, I'm 68 years old. I might be too old someday to do these (leisure) things if I don't watch it," he adds, tongue in cheek.

Bryant feels his military years were the most exciting of his long government career. He served as a navigator on U.S. bombing missions out of England in World War II. This was as a member of a B-17 crew in the "Bloody 100th" Bomb Group. From Nov. 3, 1943 to April 10, 1944, Bryant flew 26 bombing missions into Germany and occupied countries in Europe.

He participated in the first two daylight bombing raids by U.S. forces on Berlin. These occurred March 4 and March 6, 1944. "We got shot up pretty good that second mission; that was one of the heaviest losses," Bryant recalls. Among the wounded were his crew's tail gunner and radio operator.

The Tuscaloosa County, Ala., native was raised on farms. He was the youngest of nine children (three boys and six girls); a brother and sister are now deceased. After he was graduated from high school, he worked various jobs such as at a service station and drug store until joining what was then the Army Air Corps on Sept. 18, 1941.

"I came along in a period of history when the Air Force was sort of being built from scratch so to speak and, in World War II, I think it was composed of the finest young men this nation produced. I worked with and for those people and it was a unique experience," Bryant says.

He earned the Distinguished Flying Cross for completing a combat tour in a B-17 bomber; the Air Medal with three oak leaf clusters; and the European Theater of Operations campaign ribbon with a battle star for air offensive Europe. After the war, he stayed in the Air Force until 1964. His postwar assignments included establishing a customs, immigration and quarantine station at Haneda Air Base in Japan in early 1947. He was a first lieutenant, working out of Yokohama, who set up this station for checking passports, shot records and baggage for incoming and outgoing flights. These included two Russian flights per week out of Vladivostok.

"It was one of the highlights of my military career, I think, running that job," he says. Later, he was

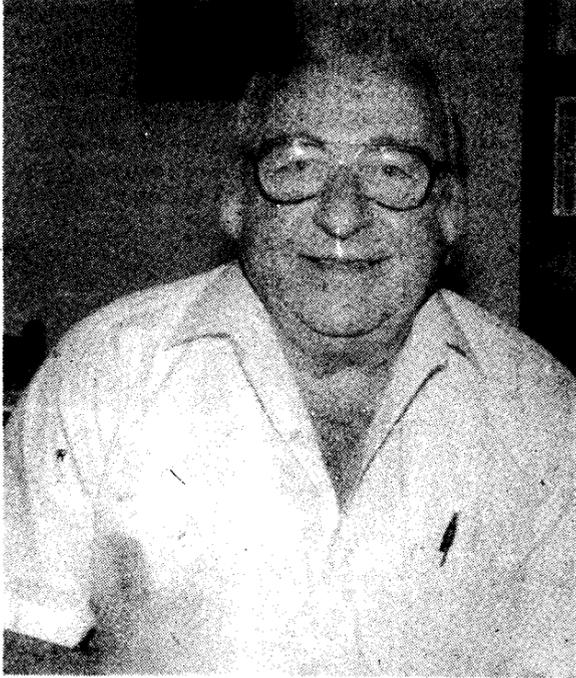
assigned to Biggs Air Force Base in El Paso, Texas, as a radar navigator with the Strategic Air Command. He spent more than 10 years as a radar navigator on a SAC combat crew. During this time, about March 1954, his squadron was temporarily sent to Guam and participated in two hydrogen bomb tests in the Bikini Islands.

He retired as an Air Force lieutenant colonel in October 1964. About a year later, he started working as a contract negotiator at Robins Air Force Base, Ga. He did that for 14 years and nine months before retiring, unsuccessful in an attempt to transfer to Redstone to be closer to Tuscaloosa. About two and a half months

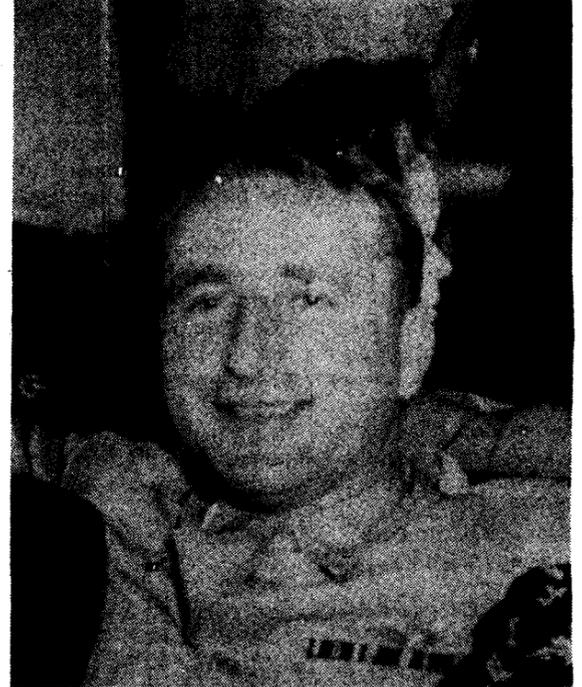
after he retired, the Missile Command offered him a job here with procurement.

As of March 31, he finished with his third career. "In effect, this is my third retirement although they won't let me call this retirement technically (since) I'm already retired," he says with a laugh.

"I'm just going to take it easy for a few months, and visit friends and relatives," Bryant says. "And after I get through with that, I might look around and see if there's anything I can do for a few days a week. I don't want any more fulltime jobs. At my age, I don't think I need any more fulltime jobs."



FORMER WORKER — Festus Bryant takes it easy at home after finishing his third federal career.

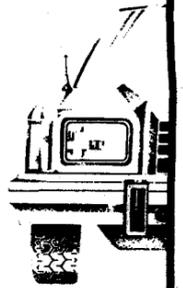


IN 1944 — Festus Bryant enjoys his first night back in the states in this photo taken in New York on June 16, 1944.

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# Information Systems Command has expanding role

BY SKIP VAUGHN

The command responsible for communications is in a state of transition at Redstone.

Information Systems Command provides administrative telephone service, narrative message transmissions (or "twixes"), air traffic control, and video teleconferencing. The command is absorbing other areas related to information, according to its director at Redstone.

"One day the ISC will encompass not only communications but the data processing, the audiovisual people, printing and publications, records management, and certain libraries," said Bill Dortch. Early evidence of the change occurred in mid 1985 when Dortch's title became deputy director for communications.

He now reports to Bill McBride, the director of Information Management Directorate. That data processing directorate is to become part of ISC, according to Dortch. "I think it's going to be totally transparent to you the customer," he said, referring to the change. "You're not even going to know it takes place. We're going to try to keep the ball rolling and I think we will. I think it's two fine organizations merging, our organization with the IMD people."

Change is nothing new to the Information Systems Command, which recently marked its 22nd anniversary. Throughout its history, the command has undergone name and mission changes. What originally was the Strategic Communications Command became the Army Communications Command and ultimately the Information Systems Command. Its headquarters is at Fort Huachuca, Ariz.

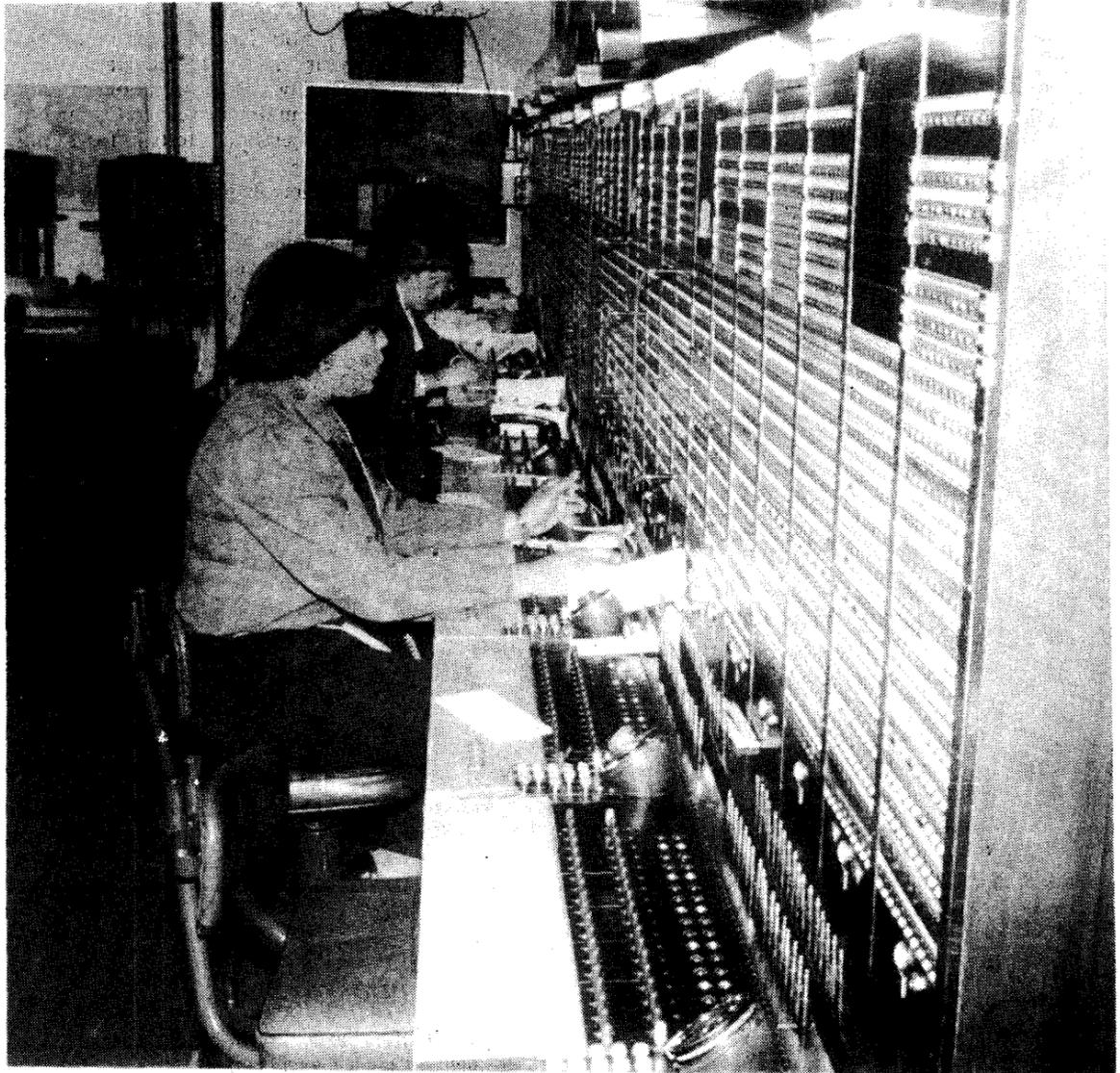
Before 1973, the command provided mostly battlefield or tactical communications. That year its mission became providing communications at Army posts, such as Redstone.

The command here includes divisions for operations, maintenance, and support. Operations division, headed by Willie Crye, runs the communications center, the air traffic control and the telephone operations. Maintenance division, led by Belan Roden, maintains "everything we use" and also does some customer work, according to Dortch. Support division, under Ray Tucker, does the other command work such as paying bills and ordering new service.

"There are 41 people in operations, plus 13 contract personnel, 19 in maintenance, and 14 people in support," Dortch said. It includes about 21 soldiers.

Equipment includes two "comm center" computers that can essentially bring in the same information ("dual home for redundancy," as Dortch explains it); video teleconferencing studios; ground control approach radar at the airfield; and the telephone exchange. The telephone exchange has 10,000 line capacity. With 13,500 phones on post, this means an average of "1.8 telephones per line," Dortch said.

"We spend approximately \$7 million a year here for communications," he said. Most of that is for administrative telephone support, local data transmission, and salaries.



OPERATOR — Olivia Bolden, in foreground, works with other telephone operators at the telephone exchange building on Martin Road.

Dortch, who has been here about five and a half years, sees an increasing role for the information systems command. He believes this is partly the result of divestiture in 1984 that broke up AT&T and partly

the result of a requirement for more and more data. "The role of the information manager/communicator, I think, is becoming more important every day," Dortch said.



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# Bob Hope to be part of Armed Forces Celebration

Huntsville will have a chance in May to spend an evening with a man who has entertained more soldiers than any other performer.

Bob Hope will give a show May 24 at the Von Braun Civic Center as the grand finale to the second annual Armed Forces Celebration, a community-wide tribute to the nation's military. Events for the week include a volksmarch, parade, military exhibits, parachute jumps, and a baseball game.

'An Evening with Bob Hope' will begin at 7:30 p.m. and is expected to last until 10:30. Immediately following the show is the 'Grand Finale Gala', with the theme "Partners in Peace from East to West," featuring Oriental and American food.

Entertainment at the gala will be provided by the Army's 82nd Airborne Band and Chorus. Miss Alabama, Angela Tower, will be an honored guest for the event.

This event is a bit different from last year's military ball. "It would be impossible to duplicate the magnificent ball held last year. Something different, something meaningful to the community, was Bob Hope," stated Evelyn Fox, one of the planners for the show and gala.

Tickets for the Bob Hope show are available at the VBCC box office, and cost \$15, \$20 and \$25. Approximately 7,000 tickets are available. Tickets for the gala, available from the Armed Forces Celebration Council at the Chamber of Commerce, are \$20.

Co-chairmen for the evening are Evelyn Fox and Margaret Wright. Heading up the decorations committee are Kathy Chan, Madelyn Poteat, Atty Allred and Edie Oblinger.

For more information about the Armed Forces Celebration, call 533-4141.



PLANNING — Making plans for the Bob Hope show and Grand Finale Gala are, seated from left, Evelyn Fox and Margaret Wright. Standing from left are Atty Allred, Madelyn Poteat and Kathy Chan.

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# City takes tons of trash from creek on arsenal

Islands of floating trash that clog Huntsville Spring Branch in the swampy area between the bridges on Martin and Patton Roads are being cleaned out by the city of Huntsville.

Tons of debris — cans and bottles, car tires, tennis balls, plastic toys, dead pets — float out of the city and onto the arsenal via the creek, which drains most of Huntsville and passes through the city dump not far from the installation boundary.

To get to the trash, city workers had to haul in many truckloads of rock and build a roadbed through swamp. Then they used a dragline and dynamite to break up the trash and allow it to drift downstream to the Patton Road Bridge where it was caught by a net.

The dragline also dislodged sewage sludge that had accumulated on the bottom, causing the creek to run black when the machine was in operation.

The creek is loaded with filth from the city's sewage treatment plant and is heavily polluted with DDT inside the arsenal.

Because snakes are everywhere in the swamp now, the city plans to suspend the operation until fall, after working here for seven weeks. Meanwhile, they are looking at installing a barrier at Martin Road to keep trash from washing onto the arsenal.

In times past, trash has jammed up against the Patton Road bridge so tightly that people could walk across the creek on it. In one memorable instance, a local television newsman did his report while standing at midstream atop the trash pile.

Downstream of the bridge, there is a swamp area of several acres that is almost completely covered in trash. This likely will be buried in place when the creek is rerouted to bypass DDT pollution later this year.



CLEANING THE CREED — Bill Schroder, Redstone's environmental quality coordinator, observes where the city has installed a net to catch trash being dislodged upstream with dynamite and a dragline.



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# Army works to retain soldiers

WASHINGTON — The Army is succeeding in its effort to retain more of its recruits.

In fiscal year 1985, 4.5 percent of all Army enlistments resulted in entry level status (ELS) separations, compared to 8.5 percent in FY 84. The difference meant a recruiting and training savings of more than \$100 million.

For all active duty soldiers entry level status is the first 180 days of continuous active duty or the first 180 days of continuous active duty following a break of more than 92 days of active military service, according to Chapter 11 of AR 635-200, Entry Level Status Performance and Conduct.

The reduction in ELS separations is the result of Commander of the Training and Doctrine Command (TRADOC) Gen. William R. Richardson's 1984 guidance to commanders of Army training centers and commandants of TRADOC service schools to insist that the training standards be met but assist the soldiers in achieving them.

"It's difficult to compute the exact amount of money saved by these efforts," said Lt. Col. Kenneth Owen of the Office of the Deputy Chief of Staff for Personnel, "but the amount is substantial." Because the Army has already made a recruiting and training investment in each of these soldiers, millions of dollars are saved because new soldiers don't have to be recruited and trained to take the place of those who are separated, he said.

In June 1984 a TRADOC study sought to determine how soldiers were handled during entry level status and why so many entry level soldiers were separated from the Army. The study considered every aspect of

the entry level soldier's Army life, from company commander attitudes to drill sergeant training, to the amount of counseling entry level soldiers actually receive from their superiors. The report concluded that a substantial number of ELS separations could be avoided if leaders would work harder to nurture ELS soldiers. The study suggested that the Army should maintain its high training standards but leaders should do everything they can to help soldiers meet those standards.

According to Richardson's guidance, commanders are to make a concerted effort to assist soldiers, to help them succeed. The installation discharge authority still makes final determinations on separations, however.

Soldiers can be separated while in entry level status for a number of reasons, such as inability to adjust to Army life; emotional instability; lack of motivation; rifle/marksmanship failure; End-of-Cycle Test failure; Army Physical Readiness Test failure or becoming pregnant while in entry level status, according to AR 635-200. Soldiers who are separated during this period receive an uncharacterized-discharge and, after two years, can ask to be reinstated. If reinstated, they have the same entry level status they had when they first entered the Army, he said.

Entry level status for National Guard and Army Reserve soldiers begins upon enlistment and ends 180 days after training starts, except for Guard and Reserve soldiers in split and alternate training options. For these soldiers, entry level status begins upon enlistment and ends 90 days after the beginning of the second phase of training. (Arnews)

## Bowling standings

Here are the troop bowling standings after last week's games:

| Tuesday's Conference  |       |       |
|-----------------------|-------|-------|
| Team                  | Won   | Loss  |
| • * A Company-1       | 386   | 214   |
| * 95th                | 378   | 222   |
| * Marines-1           | 371   | 229   |
| * 515th-1             | 366   | 234   |
| * C Company-1         | 335   | 265   |
| * 515th-2             | 326   | 274   |
| TMDE                  | 324.5 | 275.5 |
| 291st MPs             | 306   | 294   |
| 6th Student Company-1 | 280   | 320   |
| 4th Student Company-1 | 222.5 | 377.5 |
| 4th Student Company-2 | 154   | 446   |
| 4th Student Company-3 | 118.5 | 481.5 |

200 games bowled on March 25:

|                |     |
|----------------|-----|
| Thomas Traxler | 231 |
| David Kiel     | 206 |
| Bill Capper    | 202 |
| Vern Herron    | 200 |
| Michael Harney | 200 |

| Thursday's Conference |       |       |
|-----------------------|-------|-------|
| Team                  | Won   | Loss  |
| • * A Company (E&TTD) | 469   | 131   |
| * B Company-1         | 411   | 189   |
| * Marines-2           | 393.5 | 206.5 |
| * MEDDAC-2            | 377   | 223   |
| C Company-2           | 313   | 287   |
| 5th Student Company   | 285.5 | 314.5 |
| MEDDAC-3              | 276   | 324   |
| MEDDAC-4              | 271   | 329   |
| MEDDAC-1              | 265.5 | 334.5 |
| B Company-2           | 197.5 | 402.5 |
| 6th Student Company-2 | 183   | 417   |
| 7th Student Company   | 132.5 | 467.5 |

200 games bowled on March 27:

|               |           |
|---------------|-----------|
| Angel Santos  | 218 & 208 |
| Ira Hutchins  | 204 & 201 |
| Gene Crowell  | 204       |
| Tony Hughey   | 200       |
| Ken Vance     | 200       |
| Keith Walters | 200       |

(The 1985-86 post bowling leagues concluded regular season play with A Company-1 taking the Tuesday league championship, and A Company (E&TTD) taking the Thursday league title. Last year's champion, MEDDAC-2, finished fourth this year in the conference and hopes to defend its crown in the playoffs. The tournament playoffs were set for April 1 and April 3 at 4:10 p.m.)

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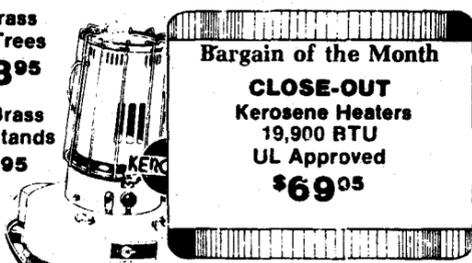
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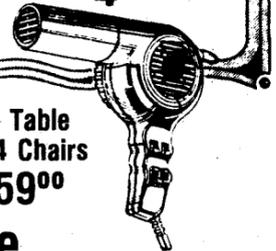
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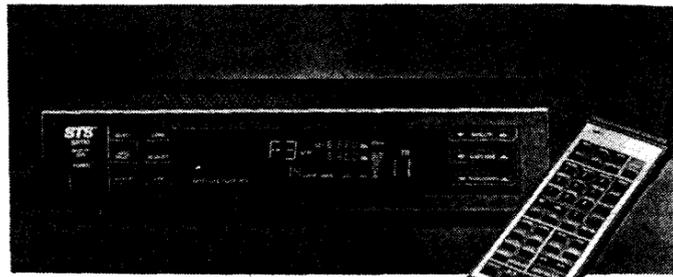
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**DIFFICULT TASK** — This mother killdeer had successfully defended her three eggs for several days when this photo was made last week, even though she chose to lay them in a

busy parking lot. She has received help from workers who marked her nest to keep cars at a safe distance.

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# Young military children to have week of fun activities

Services available to the youngest members of Redstone's military family will be highlighted during the Week of the Young Child, April 6-12. The week is part of the Month of the Military Child, which will be filled with fun activities for children and their parents.

"We're going to focus attention on programs offered here for the young child," said Shirley Sterbenk, chief of Child Development Services.

Sterbenk wants to call attention to the accomplishments made by the Child Development Center in the last 18 months.

"We're not just custodial care any more. We're definitely a developmental program. I'm very proud of that. We've come a long way, but there are still areas in which can improve. What we've done would not have been possible without command support," she said.

Some of the improvements made at the center include creating learning centers for activities such as reading and role playing where there once were bare rooms. The building which houses part of the operation is very run down, but construction for a new center will begin in September, according to Sterbenk.

"Under the circumstances, with the facilities we have, it's our goal to offer the best developmental care we can," said Ellen Guttridge, Child Development Center director.

"We offer full-day, part-day and hourly care to children aged 3 months to 12 years. Hourly care is available on a reservation basis, and reservations can be made up to a month in advance," she said, adding that reservations are not always necessary.

The center stresses everyday living skills to its students 18 months and up, such as cooking, setting the table and cleaning up after meals. Two meals per week are cooked by children and served family-style in their classrooms, and they prepare all their own snacks, Guttridge said.

Special activities for the Week of the Young Child include a balloon launch April 7 at 10 a.m., and the First Annual CDC Olympics with games for preschoolers and school-aged children such as infant crawl races, toddler aerobics, and a shopping cart dressing race. The week will end with an open house for parents and presentation of awards for the Olympics.

In addition to the activities at the Child Development Center, the Family Child Care Program, headed by Ruth Taylor, also will be featured.

"We're supporting the activities by encouraging our care providers to take part in the activities, and we'll have a table at the PX with a slide presentation, in hopes of recruiting new providers and children to the program," she said.

The Family Child Care Program gives care to

children who may respond better to care in a home environment, or to children whose parents prefer such an arrangement.

For more information about the Week of the Young Child and the Month of the Military Child, call 876-3704.



**MILITARY KIDS** — The Easter Bunny, otherwise known as Ellen Guttridge, talks with Koren Oliver and Marvin Salurjarjo at Redstone's Child Development Center.

## Activities listed for children's month

The following activities are planned for Month of the Military Child and Week of the Young Child (April 6-12):

- Thursday, April 3— Story Hour Library at 10 a.m.
- Saturday, April 5— Bowling (anytime) three games for \$1 at the bowling alley. At the golf course at 1 p.m., free basket of range balls.
- Sunday, April 6— Activities at Bicentennial Chapel (Catholic at 9:30 a.m., Protestant at 10:45). Block Party at 1 p.m.
- Monday, April 7— Balloon launch at Bicentennial Chapel at 10 a.m. Olympics, at Child Development Center, begins with torch ceremony.
- Tuesday, April 8— School-age marshmallow eating math bee; Hat Day at Child Development Center; Eraser Relay Race.
- Wednesday, April 9— Preschoolers color identification relay races; preschoolers number identification relay races; school-age shopping cart dressing contest; flag ball.

- Thursday, April 10— Preschooler shoe find; preschooler dressing race; school-age shoe find; water balloon pass. Story hour at 10 a.m.
- Friday, April 11— Open house at Child Development Center. Infant crawl race; toddler aerobics; preschool tug of war; obstacle course contest; school-age tug of war.
- Saturday, April 12— Bowling three games for \$1. Free basket of range balls (one per child).
- Sunday, April 13— Children's play, "Albert the Machine," at 2 p.m. at Recreation Center.
- Tuesday, April 15— Pajama Day.
- Wednesday, April 16— Parent luncheon at the Child Development Center.
- Tuesday, April 22— SCAN Puppet Show (addresses child abuse) at Bicentennial Chapel at 9:30 a.m. "Kids on the Block" Puppet Show (handicapped children) at 3:15 p.m. at Bicentennial Chapel.
- Tuesday, April 29— Kite flying day.

# Engineer gets presidential award for suggestion efforts

When he filled out a suggestion form in 1981, Donald Parker thought he had an idea that could save the government a sizable amount of money and, perhaps, result in a modest reward for his efforts. After all, Parker — an engineer at Army Strategic Defense Command — had received a \$25 suggestion award a few years earlier.

As things turned out, the suggestion led to Parker's meeting, and being cited by, two Cabinet secretaries, President Ronald Reagan, and most recently, Vice President George Bush. In addition, Parker's idea earned him a suggestion award of \$9,634 — not exactly a "modest" sum.

The suggestion involved improving the equipment and methods for testing components of infrared sensor technology being developed by the Army as part of its contribution to the Strategic Defense Initiative. Infrared sensors show great promise for defense against nuclear ballistic missiles because, looking into the intense cold of space, they can detect ballistic missile warheads at great distances.

As the technical monitor for a contract in this field, Parker questioned a contractor's proposed approach to performing ground checkout of sensor-related components. He didn't think the equipment and procedures needed to be nearly as elaborate and expensive as proposed.

The result of Parker's suggested alternative — which was adopted after he had convinced management that his idea was sound — was a calculated savings to the government of more than \$1.2 million. That amount was verified by Department of the Army auditors as being a realistic estimate of benefits from the suggestion.

Last week, Parker was recognized for his achievement by being presented a Presidential Management

Improvement Award. Vice President George Bush presented awards to Parker and others from various government agencies in a ceremony at the Office of Personnel Management, Washington, D.C.



**HONOREE** — Donald Parker of Strategic Defense Command has received a Presidential Management Improvement Award.

While the latest award was the highest honor Parker has received in connection with his suggestion, he said "the biggest thrill" came in October 1984. Then, he was among 12 Department of Defense personnel who met President Reagan in the White House and were recognized for "suggestions, improvements and discoveries which have resulted in increased efficiencies in Department of Defense resource management."

Prior to that, Parker received a Department of Defense Productivity and Excellence Award from Secretary of Defense Caspar W. Weinberger. In 1983, he was recognized by Secretary of the Army John O. Marsh Jr., as one of the Army's two outstanding suggesters of the year.

Parker has worked for the Army as an engineer for nearly 25 years. Following an initial seven years at MICOM, he has specialized in optical sensors at the Army Strategic Defense Command and its predecessor organizations.





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Tentative Program for May 12, 1986  
Morning Session 8:30-12:00 p.m.

### SDI PERSPECTIVES

Moderator Dr. John Wright

Dr. John Wright, President, UAH Opening Remarks  
Honorable William Schneider, Jr., Undersecretary of State, Allied Involvement in SDI  
Honorable Richard Perle, Assistant Secretary, DOD, Allied Participation in SDI, invited  
Honorable John W. Warner, Chairman of Strategic Theater Nuclear Forces Committee U.S. Senate  
Congressional Perspective of SDI, invited  
Dr. Stanley Orman, Director General, SDI Participation Office, U.K. MOD, U.K. Participation in SDI

10:00 a.m.-10:15 a.m.—Break

### Armed Services Overviews

Moderator: Maj. Gen. L Rachmeler (U.S. Army Ret.)  
Lt. Gen. John F. Wall, Commanding General, U.S. Army Strategic Defense Command  
Brig. Gen. Robert R. Rankine, Jr., Special Assistant for Strategic Defense Initiative, U.S. Air Force  
RADM Robert L. Topping, Deputy Commander C31 Systems and Technology Directorate, U.S. Navy  
Lunch 12:00 p.m.-1:30 p.m., Luncheon Speaker, TBA

Afternoon Session: 1:30 p.m.-5:30 p.m.

### Technology and Policy

Moderator: Maj. Gen. Eugene Fox, U.S. Army Ballistic Missile Defense

Program Manager USASDC Huntsville

J.G. Allen, Chief, International Affairs Office, U.S. Army Strategic Defense Command, Strategy of Allied Involvement  
Brig. Gen. William J. Florenttino, Air Defense Program Manager, U.S. Army Missile Command  
U.S. Army Missile Command Role In SDI  
Dr. Thomas Patton, Arms Control and Treaty Advisor, U.S. Army Strategic Defense Command, Arms Control perspective

### Systems Concepts and Technology

Moderator: Maj. Gen. Grayson Tate (U.S. Army Ret.)  
Dr. James Jonson, SDIO Overview of SDI Technology  
Brig. Gen. Malcolm O'Neill, Overview of SDI Concepts, invited  
Dr. H. John Caulfield, UAH University Research Perspective

Reception 6:30 p.m.-7:30 p.m.

Banquet and Keynote Speaker  
7:30 p.m.-9:30 p.m.

Moderator: President John Wright, UAH  
Speaker Introduction: Brig. Gen. John G. Jones (U.S. Army Ret.) Teledyne Brown Engineering  
Speaker Lt. Gen. James A. Abrahamson, Director Strategic Defense Initiative Organization

MAY 13-14, 1986

TABES Conference-von Braun Civic Center

MAY 15, 1986

Technical and Allied Presentations-Program to be determined upon receiving abstracts from interested speakers

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# German-born physicist finds satisfaction with career

BY PAM ROGERS

A language barrier brought Dr. Oskar Essenwanger to the United States in 1956.

As a research meteorologist for the German Weather Service, Essenwanger had published a number of statistical methods in atmospheric science for long range weather prediction, which the University of Wisconsin wanted very much to use.

"They couldn't translate them because the German department didn't know math, and the department of meteorology didn't know enough German. So they sent me an invitation to show them what I had done, so they could develop the method on their computer—an IBM 650. Some people might still remember that model. Today, my desk calculator can do more," he said.

Essenwanger was impressed with the level of technology this country had achieved in the field of climatological research at the time, especially the use of computers for automating statistical data.

"Only in the last 10 years in Germany have computers become more common. In climatological work, data processing without computers was slow," he said. He recalled the amount of work involved in processing data by hand when he was working on his doctorate. "My wife helped me, and it took a year. Today a computer could process the same amount in one minute."

When the National Weather Records Center in Asheville, N.C., offered him a research position, he realized he could accomplish much more in this country than in Germany. It was a difficult decision, but one he's satisfied with. "I would not have achieved what I have if I had stayed," he said. He quit his job with the German Weather Service and moved to his new country in 1957.

While he was with the National Weather Records Center, he worked on a project with the old Army Ballistic Missile Agency to study the effects of weather conditions on the performance of missiles and rockets. That led to another move, to Huntsville this time, in 1961.



PHYSICIST — Dr. Oskar Essenwanger is an authority on weather patterns.

In his 25 years as chief of Aerophysics and his current position as a supervisory research physicist in the Research Directorate of the Research, Development and Engineering Center, Essenwanger has developed atmospheric parameters which led to missile design changes, making them more accurate during adverse weather conditions such as heavy fog and high winds.

His highly specialized work has made him an authority on global weather patterns which may run in cycles of 100 years or more. He has written articles which have appeared in scientific journals, and has

written and edited several textbooks. He's also an adjunct professor of earth and environmental science at the University of Alabama in Huntsville.

Essenwanger's favorite area of climatology is the study of urban weather patterns.

"The urban climate is significantly different from the rural climate. The median temperatures are much warmer due to the heat of the stone masses during the daytime. That's called a heat island. You need more

(See Physicist, cont'd on Page 17)

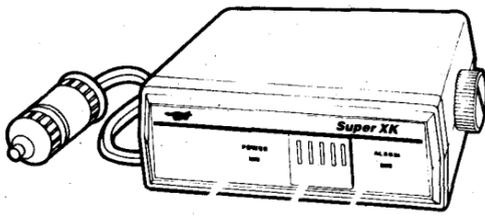
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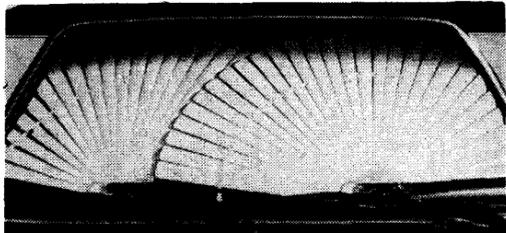
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# New regulation stresses dental fitness for soldiers

BY PAM ROGERS

A push to enhance readiness through improved dental health of soldiers has received a lukewarm response from units here, according to a representative of the Dental Clinic.

Maj. Michael Mann, dental fitness officer, believes many company commanders and soldiers may not be aware of the benefits of the program, which was implemented last summer.

The program is outlined in AR 40-3, and specifically addresses the problem 'noncombat dental casualties' cause a unit in terms of lost duty time. In order to reduce dental casualties, each soldier has been placed in one of four categories of dental fitness.

Class one soldiers require no treatment. Those in class two have an existing dental condition which probably will not result in an emergency situation within one year. Class three patients have a problem which will likely result in a dental emergency within the next 12 months if they receive no treatment. Soldiers who have not had an exam in the past two years, and those whose status is unknown are placed in class four.

## X-rays

"We want to see everybody who hasn't been here in the last year," said Mann. In addition to an exam, panoramic x-rays, which show teeth and facial bones will be made for soldiers who don't already have such a record.

"That's a very good identification aid. A lot of people think this has come out of the Gander crash, but it started before that. It's been in the works for some time," he commented.

"What we're doing now is going through the unit rosters to determine who doesn't have proper records, current x-rays and who hasn't been classified. Those units and individuals are being notified of times to report to the Dental Clinic to have problems straightened out," he said.

According to Mann, in the past, the responsibility of getting an annual dental exam was left up to the individual, unlike some other posts, at which it was mandatory for meeting personnel requirements.

"That will definitely be changing in the future. We're using company support to give us a better handle on who needs to be seen and taken care of," he said.

## Priority treatment

Soldiers who are categorized as class three will receive priority treatment. "Those are appointed right away. It's our responsibility to get them into class two within six months," he said.

There are several advantages to the new system, including fewer soldiers on sick call for emergencies and shorter times in the dentist's chair.

"The idea behind it is to have as many troops as possible with preventable things taken care of. On a day-to-day basis, if someone comes in for an appoint-

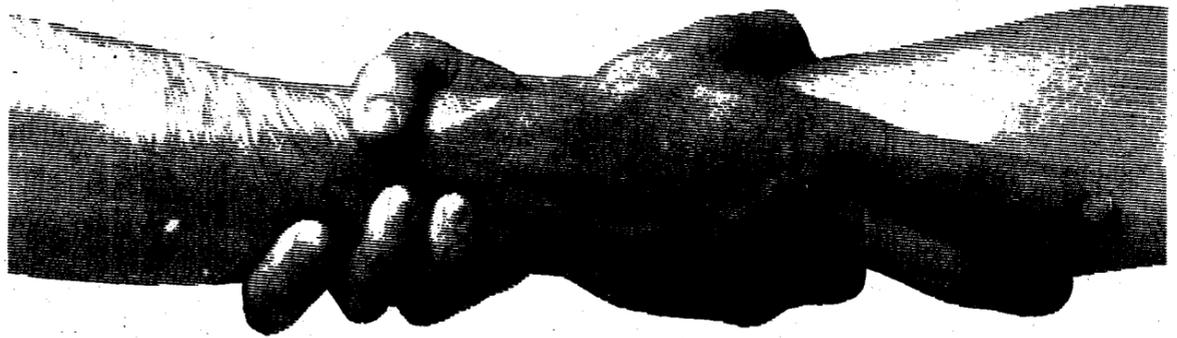
ment, they're in and out within an hour and a half. But if a soldier comes here for an emergency, it's first come, first served. It may take two or three hours to get the patient in, get the necessary records and x-rays, and perform the treatment," he said.

"If I were not associated with dentistry, and were a unit commander, first sergeant, or soldier, and somebody said 'you have to go,' because of no record, I would say it's another program somebody thinks is a great idea that I have to work around," Mann said.

In reality, the program is now a regulation that the Dental Clinic must implement, and with which the commanders must comply. "It won't just disappear," he remarked.

Even though the new system may seem like a hassle at first, Mann is confident it will make the process of receiving and giving dental treatment a little easier.

"It's advantageous to the unit, the individual and to us. It promotes better dental health, and saves everybody a lot of time," he said.



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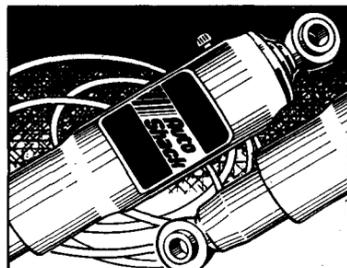
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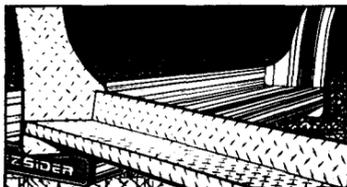
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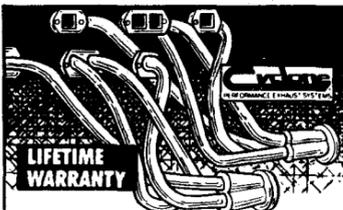
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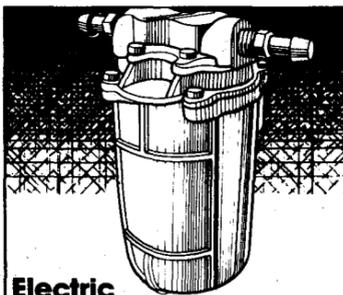
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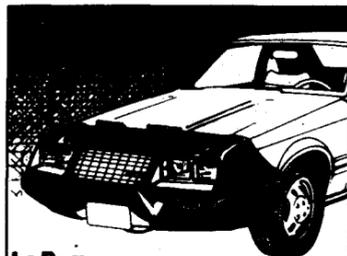
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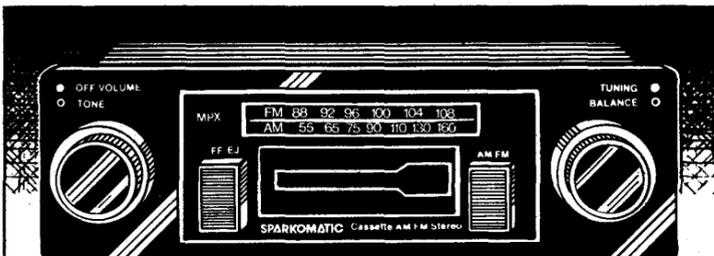
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# Effort underway to reclaim oil that was spilled

Work began here last week to separate a half million gallons of oil and water mixture that was salvaged at a spill scene last summer.

A Birmingham firm has been hired to do the work and also to restore the spill site, which is in the tank farm area south of building 5681.

The contractor is draining the mixture from storage tanks and letting it run through a series of three containers where separation takes place.

Bill Schroder, environmental quality coordinator at Facilities Engineering, said oil recovered by this process may be suitable for use as boiler plant fuel.

The spill occurred here last July when a valve that should not have been open allowed the contents of a large storage tank to drain into a much smaller one which overflowed.

Sixty thousand gallons of fuel oil spilled into a diked catch basin around the tank. Half of that seeped into the ground but was captured by digging an intercept trench to the depth of the water table and pumping it out with the water.

Quick action by Facilities Engineering's spill response team apparently led to recovery of all the oil and prevented its escape into the environment, since no oil has been detected in continuing tests of ground and surface water in the vicinity of the spill.

The 30,000 gallons that remained above ground will be cleansed of dirt and reused, Schroder said.

The intercept trench, which was 300 feet long, was filled in last week.

The final price tag for the spill cleanup may run to a million dollars or more, according to one estimate.



**SITE RESTORED** — The 300 foot long trench dug to intercept an oil spill that occurred in July was filled in last

week. Tests indicate that all the oil was captured before it was able to enter the environment.

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# Gander's aftermath: Difficult task, commendable results

BY CARMEN FINSTAD

WASHINGTON — Last December's plane crash in Gander, Newfoundland, put the Armed Forces Institute of Pathology to a grueling test: identify the remains of the plane's 256 passengers and crew.

On Feb. 22, nine weeks after the remains had begun arriving at the Port Mortuary on Dover Air Force Base, Del., specialists from the institute in Washington, D.C., confirmed the final identifications. All 248 soldiers and eight crew members had been accounted for. The forensic specialists had achieved 100 percent success.

Army Col. (Dr.) Robert R. McMeekin, the institute's director and head of the Army's identification operation, said he didn't expect such success at the outset because 100 percent identification is rare in aircraft disasters. "Our first estimate was that we would be able to identify only 30 to 40 percent of the soldiers, based upon the lack of records (most were destroyed in the crash)," he said. "Even had we had all the records, we didn't think we'd be able to identify more than 75 percent."

McMeekin's background qualifies him to make that assessment. Aside from being a physician, attorney and pilot, he is a recognized authority on aircraft accident investigation. He has developed a diversified identification approach, ranging from computer reconstruction of moving body parts to practical techniques for injury-pattern analysis and victim identification. His experience includes directing the medical investigations of the collision of two 747 jets in the Canary Islands in 1977 and the identification of the homicide and suicide victims of the Jonestown, Guyana, disaster in 1979.

## Answering the call

Immediately upon receiving word of the crash, McMeekin, along with teams from the U.S. Army Military Personnel Center in Alexandria, Va., and the Office of the Deputy Chief of Staff for Personnel at the Pentagon, set out for Gander. However, because the accident had occurred on foreign soil in a chartered commercial aircraft, they had no authority in the case. The Army had sent them there to observe and to provide whatever assistance they could.

The Royal Canadian Mounted Police worked relentlessly throughout the day of the crash, McMeekin said. Their task was not an easy one. "You could see tremendous destruction. You get the impression that the aircraft came through the trees with the right wing and tail down," he said. "You really wonder 'Where do you start?' in a situation like this."

The Arrow Air DC-8 jetliner had stopped at Gander International Airport Dec. 12 for a scheduled refueling enroute to its final destination — Fort Campbell, Ky. The soldiers, most of whom were members of the 101st Airborne Division, were returning from duty with the Multinational Force and Observers in the Mideast. Within several hours, they would have been home.

But something went wrong just after takeoff. The jet lost altitude, tearing through a hilly and heavily

wooded recreation area before exploding and bursting into flames within a mile of the runway.

Immediately after the early-morning accident, the Canadians mapped out a search site 350 meters long by 50 meters wide. Within that area, they charted 10-by-10- and 10-by-30-meter grids to help organize the search. They then proceeded to gather remains, personal belongings and anything else that might help in identifying the victims and in determining the cause of the crash.

But the elements turned against them. A blizzard struck Dec. 14 bringing wind gusts of 40 knots and initially dumping six to 10 inches of snow. The search was suspended. "Unless you were there, you can't imagine what the conditions were like," McMeekin said. "You couldn't have seen more than 25 feet ahead of you."

The Americans proposed a return to the site when the weather conditions improved. The Canadians agreed. Both considered a second search essential since the first had been rushed by the storm.

Determined to quickly resume the search, the Army analyzed the Gander situation and proposed that the impossible might be possible. "We decided to go back and melt the snow," McMeekin said. To do this, the Canadians hired a contractor to construct a simple shelter of wood and plastic over the search site.

On Jan. 8, the search continued. The Canadian Police, along with the Army's Graves Registration specialists, were on their hands and knees, searching inch-by-inch, sifting dirt and debris through screens, McMeekin said. This time they also used specially trained dogs. "The teams did one hell of a job recovering what they recovered. They searched a larger area and located the remains of two more soldiers."

## Flawless forensics

Although the Canadians have an established procedure for identifying remains, they released the Gander victims to the Americans for transport to Dover Air Force Base. They agreed that identification would be easier from the United States because essential records would be more accessible, McMeekin said. He had, nevertheless, expected to spend several months making identifications because of the complex crash conditions.

The first of the remains arrived Dec. 17 in flag-draped transport cases carried by honor guards. Together with an FBI disaster team, radiologists, medical and dental personnel, forensic anthropologists, and computer support, the forensic pathologists began the identifications. At any one time, more than 25 specialists from the institute were working on making identifications. Some 175 of them would participate before the operation was completed.

After taking the transport cases into the mortuary, workers began the identification process by weighing each case and opening the body bag inside to examine its contents. Personal effects were removed, photographed and labeled with a control number. The bodies that could most easily be identified were examined first.

The identification process was every bit as organized as the search had been. A staff member was assigned to each of the bodies during its identification and tasked with ensuring that records, personal effects and everything else associated with the case remained together. McMeekin said he didn't want elements of different cases being confused. The operation was too complex to allow mistakes. All identifications had to be accurate — not only for the soldiers, but also for the families they left behind.

To help ensure positive identifications, the institute brought in experienced personnel from such hospitals as Walter Reed Army Medical Center in Washington, D.C., and from the Naval Medical Research Institute in Bethesda, Md. They also accepted help from more than 600 volunteers, most from the Dover area, many of them Air Force personnel. Some were professionals — doctors, nurses. Others performed administrative tasks like typing, sewing and record keeping.

## A miraculous effort

Aside from expert personnel, the pathology institute, supported by Army computer experts, employed the most modern forensic techniques — particularly, "artificial intelligence" exemplified by computer enhancement. Forensic anthropologists from the Army's Central Identification Lab at Fort Shafter, Hawaii, were able to achieve visual reconstruction of body parts or body types from such available remains as bones.

By measuring bones, for example, they can determine certain physical characteristics — "you're so big; you're so tall; you've got such a build," McMeekin explained. They then feed this information into the computer along with such other available identifiers as scars, tattoos, circumcisions and birthmarks. [The pathologists performed a complete physical examination on each of the bodies, looking for such identifiers.] Through the computer's reconstruction, pathologists get a general idea of what the person probably looked like.

"Artificial intelligence allows us to make judgments about a person's identity based upon what we know from available medical and dental records, for example, and what we might know about an unidentified body from the computer reconstruction," McMeekin explained. "Then we can come up with an exclusionary process by which we can sort and begin looking at people."

Information obtained by this method is not used as the basis for making identifications, however, McMeekin explained. It serves as evidence. He puts it into the same category as identification tags, clothing with names attached, personal effects carried on the body and visual identifications. He sees such evidence as a tool that enables pathologists to make some realistic evaluations about how they will proceed with the identification process.

Pathologists working on this operation obtained more definitive evidence from body parts. For exam-

(See Gander, cont'd on Page 17)

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# Gander

(Cont'd from Page 16)

ple, the FBI team took fingerprints from those victims having discernible prints and compared them to the prints taken when the soldiers entered the Army. Many soldiers were identified through this method, McMeekin said. Comparison of dental x-rays with the victims' teeth also provided definitive identification evidence.

McMeekin would not allow his staff to make identifications based on any single method, however. He required his medical and dental personnel to reverify and document everything they did. After one dentist made a determination on an identity through comparison of dental records, another would perform the same examination from scratch. The results of both then would be compared.

But even these results weren't foolproof enough for McMeekin. He insisted that another method also be employed to ensure positive identification. For example, only upon agreement by the dentists, along with FBI verification of the soldier's fingerprints, would McMeekin sign the death certificate.

"We had a high level of quality control," McMeekin said. "There is no question that our identifications are accurate and complete."

The institute doesn't take sole credit for the successful operation. "One of the reasons we were able to identify everyone is that the Army and the families were very patient," McMeekin said. The forensic specialists and the casualty assistance officers on many occasions asked family members to provide any dental and medical records that might be available from family doctors. "This was a very troublesome, time-consuming process," McMeekin said. "But by doing this, we ultimately had some form of record on every soldier."

The certificates signed, the mortuary staff began preparing the bodies before shipping them to the location requested by the families. The remains, regardless of condition, were "dressed" in the Army green uniform, complete with all authorized patches, ribbons and decorations. The bodies then were placed into caskets and carried by military escorts to the aircraft or hearse that waited to take them home. There, they would be buried with full military honors. (Carmen M. Finstad is an associate editor of the Army News Service.)

# Youth soccer

Here are the standings for Region 388 (Redstone Arsenal) of the American Youth Soccer Organization as of March 29:

| Eisenhower League (under 10) |     |      |     |        |
|------------------------------|-----|------|-----|--------|
| Team                         | Won | Lost | Tie | Points |
| Chargers                     | 2   | 0    | 0   | 4      |
| Sharks                       | 2   | 0    | 0   | 4      |
| Bobcats                      | 0   | 2    | 0   | 0      |
| Cobras                       | 0   | 2    | 0   | 0      |

| Bradley League (under 12) |     |      |     |        |
|---------------------------|-----|------|-----|--------|
| Team                      | Won | Lost | Tie | Points |
| Yellow Jackets            | 1   | 0    | 1   | 3      |
| Scorpions                 | 0   | 0    | 1   | 1      |
| Lasers                    | 0   | 1    | 0   | 0      |

| McArthur League (under 14) |     |      |     |        |
|----------------------------|-----|------|-----|--------|
| Team                       | Won | Lost | Tie | Points |
| Cosmos                     | 1   | 0    | 1   | 3      |
| Panthers                   | 0   | 1    | 1   | 1      |

| Pershing League (under 16) |     |      |     |        |
|----------------------------|-----|------|-----|--------|
| Team                       | Won | Lost | Tie | Points |
| Comets                     | 2   | 0    | 0   | 4      |

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# Physicist

(Cont'd from Page 12)

air conditioning in the summer, but you may need less heat in the winter.

"The urban climate is unfavorable for the dispersion of pollution, which we create in cities. So in a certain way, we're modifying the climate so that the adverse effect is intensified," he said. The only solution he sees for the problem is more open spaces such as parks with trees and grass within cities.

Essenwanger sees just such an adverse urban environment developing in Huntsville with the deforestation of the surrounding mountains. "We are destroying (the forest) and the city effect is intensified," he said.

He asserts that the 'greenhouse effect,' a world-wide increase in the amount of carbon dioxide which is expected to cause a rise in temperatures, is caused not just from burning fossil fuels such as coal and petroleum, but is also a result of deforestation. "We're actually removing our carbon dioxide sink, because trees absorb carbon dioxide," he said, adding that the only other thing which can absorb carbon dioxide is the ocean.

"By burning fossil fuels, we're putting back the carbon dioxide that was removed from the atmosphere 250 to 300 million years ago...that causes a significant

disturbance," he said. "We have to go to different energy sources."

"There are only two different sources for unlimited energy— solar energy and nuclear fusion," he said. Essenwanger's energy of choice is solar. He believes it to be severely under-utilized, especially in this part of the country, where it takes a little more planning and money to include in a house that it does in the west.

Essenwanger gives talks on solar energy when he has the time, hoping to educate the public to its advantages. Other spare time activities include playing the piano and organ. He fills in as organist at his church occasionally. Sunday is the only day he doesn't work, he said.

He and his wife, Kate, have two daughters, Angelika and Marianne, and Essenwanger is satisfied with the way his career turned out.

"You can't have all the nice things in Germany and then add all the nice things in the U.S. You have to accept the good and the bad and make a decision where you find something where the good is better than the bad. You can't eat your pie and have it too. People who want to (do so) are unhappy," he explained.

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## Announcements

### Wine tasting

The Huntsville Chapter of Les Amis du Vin (Friends of Wine), an international, non-profit wine education society, will meet at the Huntsville Hilton at 7:30 p.m. on Monday, April 7. Peter Limberger from Schmitt Sohne of Atlanta will conduct a tasting of German white wines. Make reservations call 883-2572, 837-0886 or 882-0644 by April 5.

### Instructor of month

SSgt. Wayne Edwards was selected OMMCS Instructor of the Month for February in the Munitions Training Department. He has been assigned to the conventional ammunition division as an instructor in the 55B10 ammunition specialist course since September 1985.

### Southern alumni

The Huntsville Chapter of the Southern University Alumni Federation will hold its bimonthly meeting at 4 p.m. Sunday, April 6 in the meeting room at First American Federal Savings and Loan Association, 4008 University Drive. All "southernites" are asked to attend. For more information, call 883-1550.

### Capsule recall

Menley & James Laboratories of Philadelphia—manufacturer of Contact Capsules, Dietac Capsules, and Teldrin Capsules—has issued a national recall. Consumers are urged not to use these products if they have been purchased since March 15, said CWO 2 Alex Stokes, deputy commander for veterinary services.

### Family practice care

Active duty personnel who have a family practice physician here and are transferring to Fort Gordon can be given a family practice physician upon arrival at Gordon. This is an attempt by the chief of family practice at Eisenhower and Redstone Arsenal to provide continuity of care. Contact the family practice clinic "by going directly to the 7th floor of the hospital and explaining your transfer and desire for membership upon inprocessing," states a release from family practice officials.

### Learning center

A course entitled "Accounting Fundamentals" is offered at the Learning Resource Center. This 13-hour course, part of the Financial Management Curriculum, introduces basic accounting terminology and documentation. To enroll, send a DD form 1556 to AMSMI-CP-TC/LRC, building 7446, Attn: Learning Resource Center. For more information, call 876-1061/1416.

### Westlawn testing

Westlawn Middle School has the following test schedule for its students: On April 4, the seventh and eighth graders will take the Otis Linen Scholastic Ability Test. On April 8, 9 and 10, the sixth graders will take the Basic Competency Test while the seventh and eighth graders take the Stanford Achievement Test. There are no makeup days so parents should ensure their children attend school on test days. For more information, call Westlawn Middle School 532-4767.

### Red Cross blood program

April 4—5400 (Bus) from 7 a.m. to 1 p.m.; April 5—3209 (8th Student Company) from 8-12; April 9—111 (Bus) from 8-12; April 11—4488 from 7:30-12:30, 4566 (Bus) from 8-12; April 15—4752 (NASA) from 8:30-12:30; April 16—3711 (Recreation Center) from 9-12, 3480 N (515th Ord Co) from 10-2; April 18—5681 (Bus) from 7-1, 7442 (Bus) from 8-12; April 25—BMDSCOM (Bus) from 7:30-1. If there are any questions or changes, call Naomi Whitaker, Redstone's blood program coordinator, at 876-3124/2759.

### Recreation center

Tonight—Video game contest, Uno tourney at 7. Thursday—Aerobics at 5:15, Bingo at 7. Friday—Puzzle contest at 7. Saturday—Mid East Dance Classes at 10 a.m., Yahtzee tourney at 2:30. Sunday—Uno contest at 3:30, Magic Show at 7. Monday—Trivia quiz at 7. Tuesday—Aerobics at 5:15, Pool tourney at 7.

### Childbirth classes

Redstone Arsenal Childbirth Classes are held on Tuesday evenings from 5:30-7:30 at Fox Army Community Hospital. For registration and more information, call Maj. Nancy Trent, senior nurse practitioner, at 876-5863.

### Engineering society

The local IEEE Chapter will meet April 9 at 11:45 a.m. at the Officers Club. The IEEE 1985-86 distinguished microwave lecturer, Kenneth Carr, will speak on "Applications of Microwave Technology to the Detection and Treatment of Cancer." For reservations, call Linda Hooper 895-6317 or Bill Jones 876-1853 by April 8.

### Pathfinders

Leola Agee of the Missile Command Comptroller's Office was recently named a Pathfinder for Morgan County for her work with International Toastmistress Club as a past president and officer at the council level, her role as a founder of the Opportunity Club, and her service on numerous council, regional and international committees.

### Morris elementary school

Morris Elementary School will hold a fun festival April 4, with traditional carnival activities, crafts and refreshments. Proceeds will go into school projects. The event will be held from 5:30-8:30 p.m.

### Standardized testing

Morris Elementary School is currently holding standardized testing for all grades. Tests for the third grade began yesterday, and will continue through tomorrow. The first, second, fourth and fifth grades will be tested tomorrow, and April 8, 9 and 10. Parents should ensure their children get plenty of rest and a good breakfast on the days they are tested for optimum performance. If children miss these test dates, there will be no make-ups.

### Pedestrian traffic

The Alabama Traffic Code requires a driver to yield right-of-way to pedestrians within a crosswalk. Areas around which drivers should pay special attention are the five crosswalks on Goss Road between the Child Development Center and Weeden Road. Military police will strictly enforce cross-way laws.

### Apple users

The Apple Computer User's Group will meet April 12 at 1 p.m. in the Universal Data Systems Cafeteria, 5000 Bradford Drive NW. The library will have a copying session. For more information call Jack Lundy 876-9414.

### Catholic youth

The Catholic Youth of the Chapel will hold a retreat at St. Bernard Abbey in Cullman April 12 and 13. For more information call Patricia Libby 876-3433/8914.

### Protestant youth

The PYOC in grades 7-12 will take a whitewater rafting trip in Tennessee April 13. Youth in grades 4-6 will have a swimming outing April 13. For more information call Karen Edenfield 881-6576.

## Carpool Hotline



Call 876-1500 to place your free carpool ad.

### Top graduates

The following service members were honor or distinguished graduates at OMMCS during March 17-21: Gary L. St. Clair, honor, Tom Golden, distinguished, TOW/Dragon Repairer course; PFC Kirk A. Engel, honor, PFC Timothy B. Edmonds, distinguished, Explosive Ordnance Disposal Specialist; Pvt. Paul M. Archer, distinguished, Pvt. Mark D. Bond, honor, TOW/Dragon Repairer; SSgt. Armond J. Provencher Jr., distinguished, SSgt. William E. Johnson, honor, Ammunition Inspector; David Dawkins, distinguished, Pvt. Kimberly S. McMurray, honor, Ammunition Specialist; Pvt. Bernard A. Krapcha III, distinguished, Pvt. Eduardo Rivera, honor, Ammunition Specialist; SSgt. Thomas N. Traxler, distinguished, SSgt. Danny L. Sharp, honor, Improved Hawk Maintenance Chief; and Pvt. Christopher A. Michael, honor, Forward Area Alerting Radar Repairer.

### Money management course

Army Community Service is offering monthly courses in personal financial readiness, soldier money management and consumer affairs. The first course will be taught in six one-hour sessions from 3-4 p.m. Tuesdays and Thursdays from April 8-24. Topics include the military pay system, financial institutions and services they offer, maintaining checking accounts, budget development, use and abuse of credit, and consumer rights and obligations. Soldiers and family members may register by calling Brenda Newton 876-2859. This course also serves as refresher training for those with overstamped ID cards.

### Military comptrollers

The Redstone/Huntsville Chapter of the American Society of Military Comptrollers will have a luncheon meeting at 11:30 a.m. April 10 at the Officers Club. The meal will cost \$6 for ASMC members and \$7 for non-members. Speaker will be Elton DeLaune, retired major general and former AMC comptroller. For reservations, call Jean Evans 876-1635.

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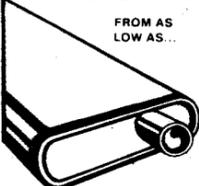
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For Sale 1984 Z28 Camaro, black with gray interior, 1-tops, Telephone, 882-8525 (days), 232-4410 (nights), \$10,400.

For Sale 19" Sunbeam electric lawnmower, rear bagging and E-Z adjust wheels. \$150. Call 776-3291 after 6 p.m.

King size "tubular" soma waterbed no need for special waterbed sheets, this bed requires normal king size fitted sheets. \$150. Call 776-3291.

For Sale 2 bowling balls, 16 lb. Ebony and 8 lb. red 'Marble', each \$15 or \$20 for both. Call 776-3291.

For Sale 1979 LTD Landau 4-door, automatic, air, cruise, full power, new engine, new tires, new battery, luxury interior, \$2850. Call 882-3398 and leave message.

1985 Mazda RX-7 13,000 miles, blue, AM/FM cassette, equalizer, plush interior, many extras. Leaving the country, must sell. \$11,500 or best offer. 895-3570 days, or 882-6944 after 5. Ask for Helen.

1986 Nissan King Cab pick-up truck, 7800 miles, 5 speed, power steering and brakes, cut-pile carpeting, bucket seats, jump seats, chrome, step bumper, air conditioning, factory installed, gauge package, \$8900. Call 830-1523.

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For Sale 1985 Blue Subaru GL10, 4 door sedan, power brakes, power windows, tilt steering wheel, digital dashboard, AC, AM/FM stereo cassette radio, electric sunroof, cruise control, 12,000 miles, excellent condition, asking \$2000 and take over payments. Call 876-4466 or 837-7671.

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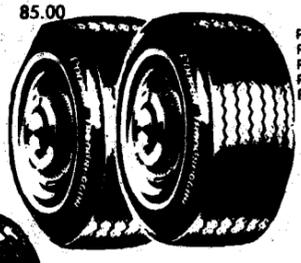
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| P195/70R14 | 58.00 |
| Size       | Price |
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| P215/70R14 | 61.00 |
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# Law enhances benefits for reserve component soldiers

Washington — Recent congressional legislation gives surviving family members of reserve component soldiers killed while on duty the right to use the commissary, post exchange and health care facilities.

The 1986 Defense Authorization Act, signed last November, authorizes the benefits if the soldier died in the line of duty while participating in active duty for training (such as summer camp) or inactive duty training (such as drills) or while traveling directly to or from that training.

The change, which affects more than a million citizen-soldiers, offers health care benefits (including CHAMPUS) to family members of soldiers who died after Sept. 29, 1985, and authorizes commissary and

exchange privileges for survivors of soldiers who died after Nov. 7.

"This change provides the same benefits to National Guard and Reserve soldiers as those formerly afforded only to active duty soldiers," said Lt. Col. Douglas J. Lamude from the Office of the Deputy Chief of Staff for Personnel at the Pentagon. "We are asking Reserve Component soldiers to do more and more things involving greater risks — more realistic training, for example. The bottom line of this legislation is equity."

DOD officials currently are developing regulations to implement the law changes, he said. The regulations will include guidance for issuing privilege-bearing

identification cards to surviving family members.

Individual ready reserve members can obtain information about benefits available to them from Reserve and Guard unit commanders or from the Commander of the Army Reserve Personnel Center in St. Louis, Mo.

Several other legislative initiatives that would further eliminate inequities in reserve component death benefits are being developed by Army personnel officials, Lamude said. One recommendation, for example, would modify rules for granting death gratuity, burial benefits and grave markers to cover deaths that occur enroute to the official RC duty station. (Arnews)

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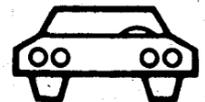
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