

## Board responds

Editor:

I was pleased that Mr. Huggins was not surprised to find a rebuttal to his letter printed in the *Redstone Rocket* on April 18, 1984, nor should he be surprised that there is a response to his letter of May 2, 1984 or any other letter which contains a misstatement of the facts. The Board of Directors of RFCU has been silent in the past regarding articles full of innuendos and factual misstatements. It will not be silent in the future.

Mr. Huggins states that all newly elected officers and existing officers except for him, a petition candidate, went off to the Hilton for a RFCU sponsored dinner. The fact is that the board does have a dinner immediately after the election. The purpose of the dinner is to honor outgoing board members for their past service. Newly elected board members whether nominated by the board or by petition, are not issued formal invitations. Board members re-elected are invited because of their prior service with those who are not re-elected. This affair is planned weeks in advance of the election itself, and since we do not know who the successful candidates will be, we do not extend any formal invitations beyond the current and outgoing board members.

Perhaps the "open arms" reception is a figure of speech too strongly used. When I was elected by the membership to the board, I was given no special welcome nor did I expect to be. The results of the count was all I needed to have me understand that I was in for long hard hours, pressing decisions, and much criticism for no pay.

As for social events held by the board of directors, there are none. The board meets on a monthly basis to take care of the business of the credit union. Those meetings are local dinner meetings and include alcoholic beverages. Special meetings of the board and some committee meetings may or may not have a meal served depending on time and circumstance. One time during the year we hold an annual planning conference and travel, lodging and food is paid for by the credit union. Historically, this conference was held at the homes of board members.

In more recent years, at the suggestions of the auditors themselves, the board has gone out of the area to rather nice places to do its planning for the coming year. Local meetings were always interrupted by the business of the board members' regular jobs. RFCU is not a shoe box operation. It is in fact a \$180 million corporate body. Its board is not paid. The annual expenditures on total board activity is less than the salary of a GS 11. I do not know the feelings of

other board members, but I do not feel any remorse at the credit union paying for 12 meals per year, and an annual planning conference.

Mr. Huggins talks about a proposal in the Counselorette to eliminate the petition method of nominating candidates. In no way could the Counselorette article be interpreted as a proposal to eliminate the petition method of nominating candidates. The Counselorette article merely points out some of the pitfalls inherent in the method.

The secretary of the board is required by the bylaws to certify petition candidates. Such certification takes place only after an outside agency examines the submission of required documents in accord with the rules and advises the secretary that the documents are in order for certification.

I accept Mr. Huggins' reminder that our job as elected officials is to represent all credit union members. Our charge is to act in the best interest of the organization. Such action automatically benefits the masses in the membership. The high dividend rate on shares and other instruments coupled with the competitive rates on loans and the rapid growth rate in membership and assets are all indicative of member satisfaction with policies and practices promulgated by this board of directors.

I know that Mr. Huggins is happy also, for I see that he is still a member of the RFCU.

Charles L. Ray, Jr.

## Phone calls

Editor:

I think everyone on Redstone Arsenal is aware that all telephones are used for other than official business.

No one thinks anything about it when an employee makes a local call home to check on a sick child or a local call to make a doctor's appointment (after all, the doctor's office is open only during the hours that the employee is at work) or to call the local mechanic shop about their car that is needed everyday to get to their work (the mechanic shop is open only during the hours those who commute a great distance are at work).

But...on the other hand, those people who live outside the local area cannot use the FTS system to do the same thing without their calls being recorded at the switches.

If telephones are not to be used for anything other than official business, it seems we have a two-way standard.

Name withheld by request

## Who discriminates

Editor:

I noted with interest the letter to the editor written by John E. Corbett in the April 25 edition of the *Redstone Rocket*, which expressed his concern over continuing discriminatory practices against blacks at Redstone Arsenal.

Mr. Corbett opined that: "Management and command officials should not receive all of the blame for this injustice."

As one who is pretty knowledgeable of the discrimination laws and pertinent regulations, and

who has probably represented as many individuals in EEO complaints (race, creed, color, religion, sex, marital and political status, age, and handicapping condition) as any other individual on the arsenal, I ask Mr. Corbett this question: "Who else but management (includes supervisors) and command officials have the authority and power to legally discriminate against an individual or group? Certainly one's non-management co-workers don't have the authority or power to discriminate by the legal definition contained in 42 USC sections 601 and 717; 5 USC sections 2302 (b); FPM 713, and 29 CFR Part 1613.

It might also surprise Mr. Corbett to learn that neither the EEO counselors nor the EEO office "represent" employees in discrimination complaints—the first group investigates complaints, the second processes such complaints. If individuals want "representation", they must turn to a fellow employee, an attorney, or the union (usually it's the union to which they turn).

I suggest that Mr. Corbett should join in the fray, and get an accurate picture of "just who discriminates".

After thirteen years of representing employees in every conceivable type of complaint, I frequently am afflicted by the 'dry heaves' for the injustices I see. I could go on and on—ad nauseam—ad infinitum.

Lastly, whoever said: "For a better world, let it begin with me," certainly said a mouthful (I just wish I had thought it up).

Robert L. Fletcher  
President  
Local 1858

## Alcohol related

Editor:

It seems to me that lately a lot of attention has been given to the military personnel involved in D.U.I.'s on and off post. Every time an alcohol related incident happens, the military gets exposed all over posters, papers, directives, and briefings. If a civilian causes an alcohol related incident, no mention of alcohol is stated. For example, the head-on-collision between two vehicles (*Redstone Rocket*, issues May 2 and April 25, 1984). Since this is a combined post of military and civilian personnel, an equal amount of publicity should be designated to the civilian populace when involved in an alcohol related incident. If the military should be tagged as D.U.I. offenders, the civilians should be also.

Name withheld by request

## Raw deal

Editor:

In the "Mailbox" column of your April 25 issue, SFC Deberry and MSgt Black made a good point in "Inequities evident." However, civilians also occasionally get raw deals on their suggestions.

The undersigned submitted suggestions in 1965, 1972, 1981 that the government overpaid civilian employees about \$120 million a year by computing hourly wages based on 2,080 working hours, when in fact, the average work-year consists of 2,087.14 hours.

In 1966, the General Accounting Office went to great length to discredit the suggestion and it was rejected. Ironically in 1982, the GAO "discovered" this overpayment and got the suggested fix put into the Budget Reconciliation Act (BRA) of September 1982.

The proposal is now law; the suggester got nothing. A MICOM Awards Committee Member advised that the suggestion should have been resubmitted again in 1982. Who said anything had to be fair?

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# Tips offered on physical fitness

WASHINGTON—Improved physical fitness is what every service member strives to achieve and maintain. Physical fitness is a relative term at best, and everybody begins conditioning programs with varying degrees of fitness. And, although training may be done in groups, it is also helpful for training to be individualized and adapted to each person's abilities.

With these principles in mind, the following "suggestions" were given to the training cadre at Fort Knox, Ky., in January 1983, in an attempt to reduce the number of training injuries. And since June 1983, the same information has been given to all trainees in the reception station prior to their assignment to a basic training company.

Physical fitness is many things to many people. Whatever else it may be, it is generally accepted that fitness includes strength, agility and endurance.

## Strength

Many, if not most, feel that to improve strength one must do at least one more repetition of any given exercise that was previously done. For example, if one does 20 pushups today, 21 should be done tomorrow. This approach has left many soldiers unable to pass the Army physical readiness test and is a potential source of injury.

Few would attempt to run a mile as fast as possible and then come back on succeeding days believing they could continue to improve their times. Attempting maximum effort in any strengthening exercise, day after day, will often result in no improvement.

In attempting to improve strength, regardless of the exercise in question, utilize the principle of "PRE," or progressive resistance exercise. The following discussion relates to pushups, but is applicable to any strengthening exercise:

—Determine your maximum effort through a self test. If unable to do even one pushup, you must initiate the exercise with a lesser degree of difficulty, perhaps by doing wall pushups or pushups from the knees instead of full-length pushups done on the toes and hands.

—Reduce your maximum effort by 1/2 to 1/4. If the maximum number of repetitions you can do is 20, then start with 10-15 repetitions. This lesser effort will be much easier to do.

—Recover two or three minutes, perhaps interjecting a stretching exercise, and then do a second set of 10-15 repetitions.

—Repeat this procedure through 3-4 sets initially. You now will have done two to three times more repetitions than were done previously when maximum repetitions were done once.

—On succeeding days, continue the same number of repetitions and sets until they're no longer difficult. Now additional sets can be added. After accomplishing 6-7 sets in one exercise period, reduce the number of sets to three while increasing the number of repetitions by 25 percent.

## Agility

Agility, acquired through stretching, is an individualized need to which strict numbers of repetitions need not be applied. Follow these principles:

—Stretch preventively those areas which are routinely shortened through activity. For example, runners routinely shorten the extensor muscles of the body like the back and the hamstrings of the leg.

—Stretch these muscles in a manner convenient to you at the time you feel a need. Do as many repetitions and hold for as long as necessary to achieve the mobility you desire.

—Generally speaking, with increased weather temperatures, stretching is less critical. Slower as opposed to faster exercise speeds and increased durations of activity, like running several miles instead of a 100

yard sprint, are suggested in warmer weather. Exercising in colder temperatures increases the need for added stretching prior to running or doing other rigorous exercise.

## Endurance

In improving endurance, the heart and lungs are the primary areas of focus. To improve the efficiency of the heart and lungs, one should determine an activity that is accessible, enjoyable and satisfies these three basic factors:

**Intensity:** The activity must successfully elevate the pulse to 70 percent of maximum. To determine maximum pulse rate, subtract your age in years from 220 and multiply the result by 70 percent. For example,  $220 - 40 = 180$  multiplied by .70 equals a pulse rate of 126 beats per minute for a person 40 years old. At this pulse rate, you'll find yourself breathing normally and not gasping for air. Most people take the pulse at the radial artery in the wrist or the carotid artery in the neck.

**Duration:** The activity must be carried on non-stop for 15-20 minutes or more. Some researchers advocate at least a 30-minute exercise period, but anything less than 15-20 minutes will probably not produce added training benefits.

**Frequency:** The activity should be performed at least every second day. Added positive training results will be achieved if exercise is performed more frequently.

Many activities satisfy these requirements for strength, agility and endurance. Some suggestions are fast walking, running, swimming, cycling, cross-country skiing, jumping rope and rowing.

## Choose something you enjoy

These are but a few suggestions. Choose something you enjoy. If running is your choice, as it is for many in the military, consider the following points.

—Shoes: there are literally hundreds of good walking and running shoes on the market today. In choosing shoes to suit your needs, consider several factors. The portion of the shoe cupping the heel should be firm, molded and padded. Cushioning can be determined only by trying on the shoes, walking and running in them.

The heel should be approximately 1/4 inch higher than the front of the foot. The shoes should bend with relative ease at the ball of the foot. If considerable force must be applied to bend the shoe at this point, the shoe is too stiff and may lead to discomfort and injury.

—Running considerations: keep hips beneath shoulders and avoid leaning forward. To accomplish this, try taking shorter strides. Gradually increase the number of steps per minute to 180 per minute or more, if possible. Avoid steep downhill slopes, at least for the first three weeks. The forces of gravity are multiplied considerably when running downhill on steep grades. Running downhill requires less effort for the heart and lungs and is therefore unlikely to enhance efficiency; however, the additional forces of running downhill greatly increase the likelihood of injury and should be avoided in the earlier stages of a conditioning program.

—Movement information: putting shorter people in front precludes overstriding and potential injury. Putting the least conditioned people in front allows the formation to move at the pace of the least conditioned, thus precluding injury due to straining by less conditioned people in an attempt to stay up with the group. Just as a chain is only as strong as its weakest link, the formation can only be as strong as its weakest participants. This allows the unit to remain intact and improves cohesiveness.

—Spread the ranks when running: if runs are conducted with ranks close together, those not in the front rank are forced to run on their toes with a constant braking action to prevent stepping on the person in front of them. This can produce unusual stresses and injury to the legs.

The information shared here is only valuable in reducing injuries to the degree that it is utilized. The key is to become tuned in to the body and apply stresses in a gradual enough manner for the body to adapt and to not break down. (Arnews)

## Editor's note:

This article was written by Lt. Col. Douglas A. Kersey, Army medical specialist corps for the office of the surgeon general and health services command.



## Patriot is first Army weapon system to get three color camouflage paint

Patriot will be the Army's first weapon system deployed with new three color camouflage pattern and chemical agent resistant paint.

Army camouflage paint coatings are being converted from a four color pattern to a three color design that originated in West Germany. Up close, the difference between the three and four color coatings is not striking but at ranges exceeding 100 meters the three color pattern is much more effective for visual camouflage. It also saves money, perhaps \$100 in painting a large vehicle.

Letterkenny and Anniston Army Depots will paint Patriot equipment scheduled for European deployment. Anniston is responsible for painting the missile canisters. A unique problem in design of the canister pattern is that the pattern must blend for can-

nisters backed on the Patriot launcher and guided missile transporter.

Letterkenny is responsible for painting all tactical vehicles, including the new 10 ton heavy expanded mobility tactical trucks used by Patriot as tractors.

Black is the dominant color in the new three color camouflage paint. The pattern surface is 41 percent black (compared to five percent in the old four color design), 15 percent brown and 44 percent green. The pattern makes surfaces appear round since straight lines and corners rarely occur in nature.

Polyurethane was chosen over enamel for the new coating since it is tougher, better able to resist absorption of chemical agent and easier to decontaminate if exposed to chemicals.

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# Foreign students get orientation help at the school

BY MAGGIE CUMMINS

Helping students from foreign countries is the job of a foreign support specialist at the missile school here. "My work is highly enjoyable and has been tremendously rewarding," says Walden Tarpley, foreign support specialist at the Allied Student Training Detachment. He helps foreign students at the Missile and Munitions Center and School get oriented to life at Redstone.

Part of his job is to keep an information program current and easily understandable. Tarpley says that the students go through a 'cultural shock' when they first arrive and must be oriented to the American lifestyle as well as the military lifestyle while at Redstone. Students receive a 40 hour block of instruction where they may learn more about the government, agriculture and economics.

Tarpley prepares lesson plans and administers the information program during the students' orientation.

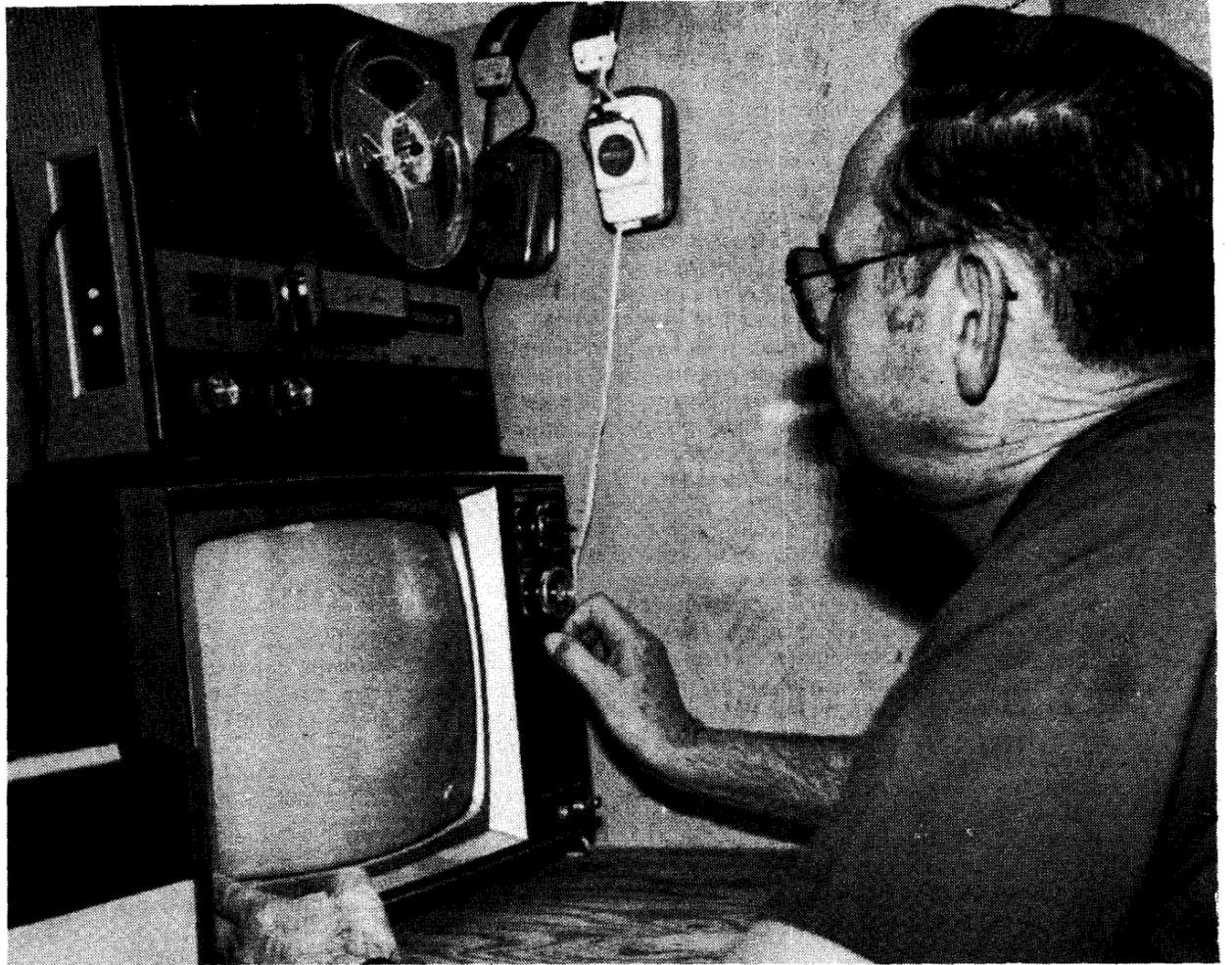
Before coming to the states for special training most students, according to Tarpley, are given an English proficiency exam. Most pass in their own countries, but increasing failures have made it necessary to improve their language comprehension at Redstone.

An English language lab was started in 1978 to assist students in their studies here, as well as help family members learn the English language.

The lab was separated from the normal classroom environment because there were problems with different cultural backgrounds, and with the different learning levels in listening, speaking, reading and writing.

The lab helps students to learn at their own speed. There are 9 carrels, 84 video cassette tapes and numerous training materials to assist students in their studies.

"To aid the foreign military, the Electronic and Technology Training Department has been very cooperative in providing tapes, slides and other materials to interface with the materials we have,"



FOREIGN SUPPORT SPECIALIST—Walden Tarpley uses a video tape player.



STUDYING ENGLISH—Encarnacion Garcia studies in the English language lab.

says Tarpley. "This provides extra services to students who want to move faster in their studies."

The lab is open during evenings as late as students need to study. It is also open on weekends and holidays.

"I think it is good for me," says MaCarmen Andres, wife of SFG Pedro Andres. "You can close your

book and listen and it will repeat it again and again so that you will understand the language."

"If you don't understand the student text, you need not buy it for the tapes help you understand how to say the word," says Encarnacion Garcia wife of SFC Fernando Garcia. "Mr. Tarpley explains the language technique very slowly so that we can understand."

## Exchanges contribute to morale, recreation

DALLAS—In a recently issued statement, Army and Air Force Exchange Service noted that during the past 10 years nearly \$790 million in morale and recreational contributions have gone from exchanges to Army and Air Force personnel.

AAFES officials say that these contributions have averaged more than 55 percent of net earnings during the past ten years. The remainder was used for new or

improved exchange facilities at no cost to the taxpayers.

Dividends from AAFES are used for recreational centers, arts and crafts shops, unit activities, athletic and outdoor recreational equipment, family and youth programs and other morale activities.

These dividends come from earnings made possible by customer purchases, officials say.(Arnews)

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# Redstone pediatrician no stranger to Huntsville

BY SKIP VAUGHN

A doctor who grew up in Huntsville has returned to help provide children's health care at an Army hospital.

"I'm glad to be back home," says Dr. Scott Field, a recent addition to the pediatric staff at Fox Army Community Hospital. He came here from Pensacola, Fla. where he was chief pediatric resident at a civilian hospital.

Field joined a staff of two other doctors and a nurse practitioner. He replaced Dr. Ben Hinton who retired earlier this year. "I've really enjoyed it. The people are real nice and the facilities are good," Field says.

He was born in Atlanta, has lived several different places, but calls Huntsville home. He was graduated from Grissom High School in 1972 and went on to major in chemistry at Birmingham Southern College where he was graduated with honors in 1976.

Four years later Field was graduated from medical school at the University of Alabama in Birmingham. He spent his first year of residency training in Birmingham then the last two years in Pensacola before serving as chief pediatric resident.

"There's been a trend (in pediatrics) really over the last 10 years toward seeing more adolescents and older patients. And there's a current trend into taking more time and consideration for developmental and behavioral problems as opposed to acute physical illnesses," Field says. "I think they reflect a fulfillment of a need for more comprehensive medical care in pediatrics."

He is not the only pediatrician in the family. His wife, the former Susan LaMarsh of Birmingham, finishes her residency this year at the same hospital he just left, Sacred Heart Hospital in Pensacola. They were married before she started medical school in 1977.

Field was the third of three children born to Bettie and E.L. "Spike" Field, a retired NASA engineer who works for McDonnell Douglas. His brother Mike works for Texas Instruments in Austin, Texas, and his sister Kathryn works for Clark Cruise & Travel Service in Huntsville.

The 30-year-old pediatrician's hobbies include woodwork, oil painting, hiking, and outdoor sports.

"I like children and working with them and I have a special interest in infectious diseases which are very common in pediatrics," Field says.



PEDIATRICIAN—Dr. Scott Field does routine checkup for 6-year-old Russell Fells, son of Sgt. Kenneth and Patricia Fells.

## Thomas Road Beauty Salon

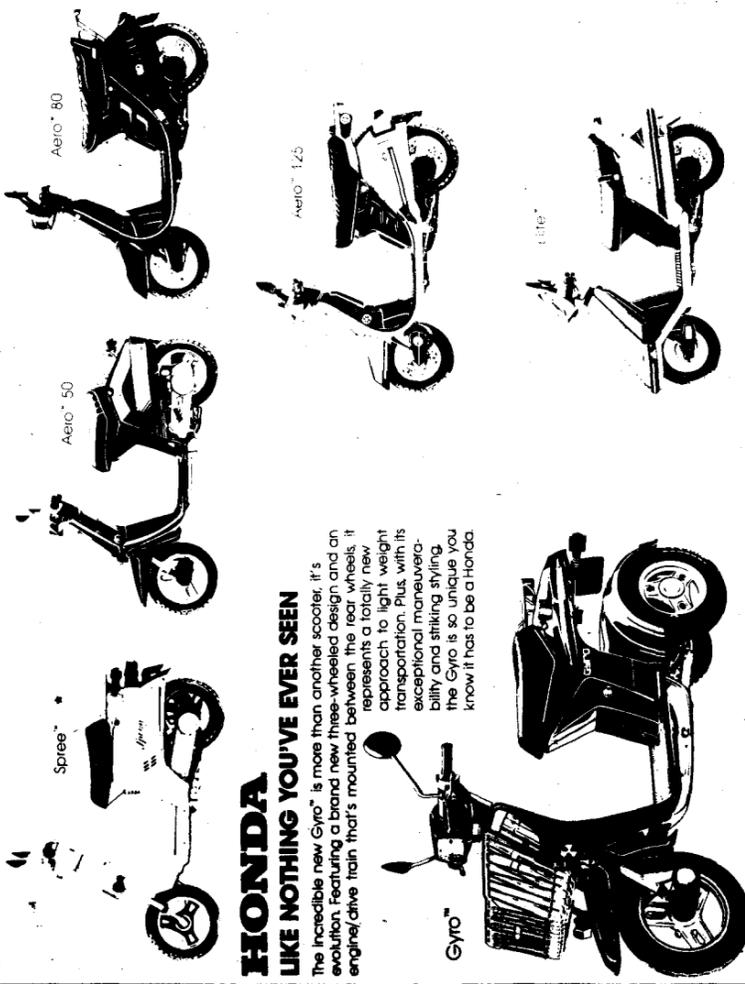
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## Activities scheduled for Armed Forces Day

A parade and missile systems exhibit will be part of Armed Forces Day here Thursday, May 17.

Activities start with a luncheon by invitation at the Officers Club. Sponsors include the Chamber of Commerce, Association of the United States Army, and the American Defense Preparedness Association.

Various missile systems will be displayed from noon to 6 p.m. at the parade field behind the recreation center on Patton Road. An Armed Forces Day retirement parade will be held there at 4 p.m.

"We're observing Armed Forces Week (May 14-17) and it's to let everybody know the patriotism and what the Army's all about and what the Army has done throughout the years," said CSM Harvey Kahl.

Refreshments are to be sold at the parade grounds. The public is invited to attend and visitors are encouraged to use the Gate 10 entrance on Patton Road.

"I want to thank the city officials of Huntsville for their approach to Armed Forces Day. I want to thank the support of the people putting their (missile system) displays out. I know there's a lot of work that goes into that," Kahl said.

Among other activities that week, Sp4 Gary Skinner is to travel to Montgomery for a ceremony at the state capitol May 18. Governor George Wallace will present awards to outstanding enlisted representatives from throughout the state. Skinner was Redstone's post soldier of the month last December.

## CWF softball season opens with lopsided wins

BY MIKE McCOLPIN

A number of lopsided victories opened the Civilian Welfare Fund softball season.

The Cougars, Duffy's (Rachels), Express, Stallions, RADS and Thiokol all posted wins in their openers.

Cougars whipped MIA 19-3 behind Danny Smith's two home runs, including a grand slam. Sam Meadows also hit two homers and Bob Nichols contributed one. Smith, Meadows, Bob Peagler, Ken Lomax and Fred O'Conner all had three hits.

Duffy's pounded the Pershing Project Office team 23-0. Randy Pate had four hits; Henry Smith drove in seven runs; and Doyle Choate had three triples to back Kelvin Harris' shutout pitching.

The Express got off on the right track by smoking P&P III 22-5 behind two homers by Willie Epps and one by James Todd. Express pounded out 29 hits and held off P&P III with a rock solid defense.

Stallions stampeded Dr. Zoom and the Sonic Boom (MIA #2) 23-10 behind two homers by John Pitcher and one each by Don Sutton and Jerry Williams. Sutton, Williams, Rick Hedrick and Mike McColpin all had three hits. Wayne Westerhouse had two homers for Dr. Zoom and barely missed a third when John Jordan leaped at the fence to rob him of a sure homer.

RADS nipped F&A 2-0 on the strength of Jim Naur's two-run homer in a defensive struggle. Jay

Loomis went three for three and Dean Reese was the winning pitcher.

In the only other opener reported, Thiokol knocked off T&E 15-12 in eight innings. Danny Holt and John Seigh each had three hits and Forrest Emfinger had two hits including a double. Mike Defatta delivered the game winning hit. Jim Springer, Rob Dorcy and Ken Alongi had three hits each for T&E. Jesse Murph was the winning pitcher.

## Anniston Army Depot wins environmental award

WASHINGTON—Anniston Army Depot has won the Secretary of the Army environmental quality award.

The award is given annually to recognize the installation that conducted the most outstanding environmental protection and enhancement program during the calendar year. The Alabama installation's noteworthy achievements earned it the award over seven other Army posts.

Specific highlights of the Depot's program include: completion of the first major installation restoration

## Youth soccer standings

	Won	Loss	Tie	Pts.
<b>Patton League</b>				
*Sharks	5	1		10
Screaming Eagles	4	2		8
Cowboys	1	3	2	4
Golden Eagles		4	2	2
<b>Eisenhower League</b>				
*Eagles	5	2	1	11
Warriors	3	2	3	9
Scorpions	3	3	2	8
Wildcats	2	3	3	7
Panthers	1	4	3	5
<b>Bradley League</b>				
*Panthers	8			16
Tigers	5	2	1	11
Vipers	3	4	1	7
Strikers	2	6		4
Rangers	1	7		2
<b>MacArthur League</b>				
Cosmos	3	2	1	7
Renegades	3	3		6
Fury	2	2	2	6
<b>Pershing League</b>				
American	3	1	1	7
*Blue Devils	3	3		6
Cullman	3	3		6
Sting	1	4	1	3

\*Final Season Standings

clean-up of a former hazardous waste disposal site, a project which removed 62,000 tons of chemical wastes and contaminated soil; air emissions management initiatives resulting in significant reduction in air pollution from the installation while reducing the amount of energy consumed; and completion of major waste water treatment facilities to prevent pollution of area streams.

Anniston Army Depot will represent the Army in competition among all the services for the Secretary of Defense environmental quality award.(Arnews)

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# New military parents receive exchange coupons

Mothers who bring their newborn babies in for a two-week checkup at Fox Army Community Hospital will receive Post Exchange coupon booklets under a new program.

"It's a program where we would like to help the military dependents by offering these coupons which have discounts on baby items," said Robert Davis, exchange manager. "And it includes not only baby items but items for the mother."

This is being done at post exchanges throughout the southeast exchange region, according to Davis.

The booklets here include coupons for 10-20 percent off on baby items. Coupons for the parent include a \$5 discount at the beauty shop, \$1.50 toward the purchase of a meal at an AAFES food outlet, half off adult admission at the post theater, and \$3 worth of gasoline with the purchase of eight gallons or more.

To kick off the program Davis presented the first coupon booklet and a bouquet of roses to a new mother last week. From now on the booklets will be presented by Capt. Nancy Trent, pediatric nurse practitioner. She plans to give them to mothers who bring their new babies in for two-week well baby checkups.

"I think it's an excellent idea," Trent said. "I think it'll help defray some of the expenses that hit close to home when they become new parents."

The hospital here does not deliver babies. It provides care starting with the two-week well baby checkups and continuing through 18 months plus immunizations and developmental assessments.

"It's a nice little input that the Post Exchange is doing. I think it's a benefit for the parent as well as the baby," Trent said.



PRESENTATION — Exchange manager Robert Davis, far left, gives roses and coupon booklet to new parents Keiko Brown and SSgt. John Brown with their son Richard as nurse practitioner Capt. Nancy Trent looks on.



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## Gift shops open as new service

A gift shop has been added in two of the larger civilian cafeterias on post as a new service.

The small stores opened May 2 in the cafeterias in building 5250 and 4488. The shop hours are 8 a.m. to 4 p.m. but the cafeteria hours remain unchanged.

"We're not going to make any money off of it, we're probably going to come close to breaking even. But it's providing another service," said Al Sessler, post restaurant officer.

"The object wasn't really profit. The object was to add another service," he said.

Still in planning is a snack bar that would be located near the civilian personnel area. That would bring the number of civilian cafeterias on post to seven.

The sites for the gift shops were selected on the basis of the number of people in the buildings and the space available, Sessler said. A portion of any profit would go to the Civilian Welfare Fund.

## Flying club plans Saturday open house

Flying lessons and rides over Huntsville will be available at an open house at the Redstone Arsenal Flying Club.

The event is set to start at 10 a.m. Saturday. In case of rain or other bad weather, it would be held at 10 a.m. Sunday.

Planned are 30-minute introductory flying lessons at \$15 per person for those eligible for club membership. These include active, reserve and retired military, Defense Department civilians, NASA workers, and family members of the aforementioned. Other guests will be offered 20-minute rides over Huntsville and Redstone at \$7 per adult and \$5 per child under age 14.

"It's called a spring open house. It's mainly to try to increase the membership, particularly the military," said Maj. Bob Kincaid, club safety officer and a member of the open house committee. "The club is in need of military members."

Lunch will be available from the post restaurant fund's mobile snack truck. The flying club is located near the Redstone airfield on a road that turns left off Hale Road.

For more information call the flying club, 8:30 a.m. to 12:30 p.m. Monday through Friday, at 881-3980.

## Good response to Ordnance Ball

Early indications point toward heavy attendance at the first annual Ordnance Ball scheduled here May 19.

"Response has been good," said Col. Regis P. Dietrich who is co-chairman with Col. Michael A. Cody of the committee planning the ball activities. "Attendance should reach 400. We have activities to keep people entertained, and we have reserved the entire of-ficers club to accomodate them."

Cody emphasized that persons who have not returned invitations must do so by Monday. The same is true of those who have not contacted the committee, but want to attend. Those persons should call 876-4859.

The program commemorating the establishment of the Ordnance of the Corps will feature a series of toasts and special guest and speaker retired Lt. Gen. Harold F. Hardin who is a member of the Ordnance

Hall of Fame and former deputy commanding general for readiness at DARCOM.

Col. Joseph Cote, commandant of MMCS, will serve as host of the ball and will greet guests as they enter.

Outside, as they arrive, attendees will see a large display of equipment. The ordnance theme will continue inside also with table decoration centerpieces of candles cast as replicas of the flaming bomb. A large, framed ordnance crest will be prominently exhibited.

The combo known as "Pershing's Own" from the U.S. Army Band will provide dining and dancing music. The menu includes a formal prime rib served dinner. Dancing until midnight will follow the dinner and program. Disco dancing will be in the lounge area and formal dancing in the main ballroom.

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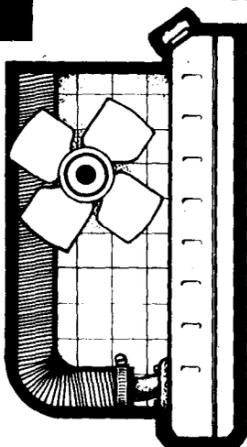
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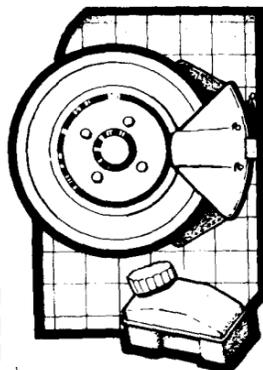
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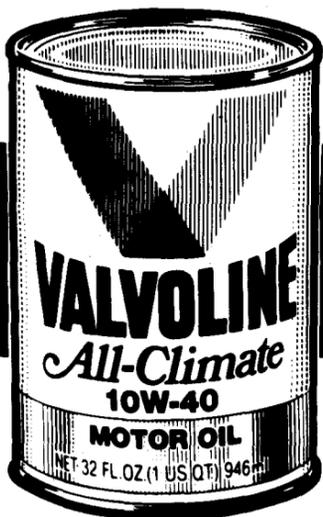
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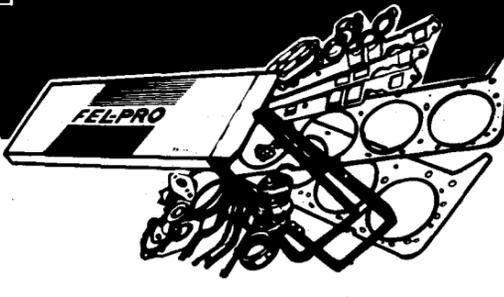
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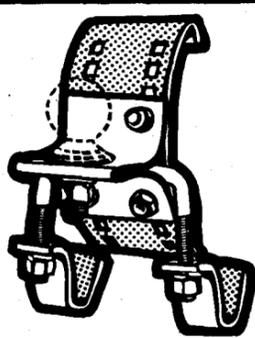
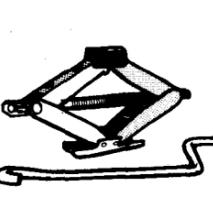
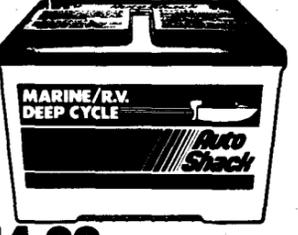
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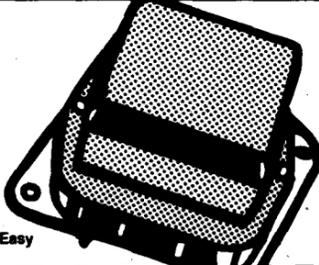
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# Engineers build weapon from borrowed parts; it ev

BY ED PETERS

An experimental air defense weapon fashioned by two Missile Command engineers by mounting Stinger missiles on an old machine gun carriage has formed the basis of two key concepts of air defense for the Army's light divisions of the future.

Rich Jones and Ben Bentley of the Army Missile Laboratory's Advanced Sensors Directorate developed an experimental weapon, MUSL (pronounced "muscle"), which has spawned two new automated air defense systems based on the Stinger missile.

One is the Avenger missile system, being developed by the Boeing aerospace firm, which is similar to Jones and Bentley's MUSL.

The second system, called Setter, is being developed in a technology demonstration at Army Missile Laboratory and, in Jones' words, "is a substantial quantum jump in technology from MUSL and Avenger."

Being developed for roof mount on the new "Humvee" truck, Setter carries eight Stinger missiles in four pods like MUSL and Avenger but, unlike either, also shoots hypervelocity rockets and has a super-sophisticated target sensor.

Jones and Bentley think their Setter just might be the light air defense system, or LADS, that the Army's looking for.

The Setter weapon packs a lot of firepower in a package that is small and light enough to be mounted atop the Humvee without affecting its stability or structural integrity. The weapon mounts eight Stinger air defense missiles using pods and launcher components patterned on lightweight armaments for helicopters.

## Spike rockets

It is also equipped with the missile laboratory's new high-speed Spike rockets fired in volleys of three, six or nine that release "hypervelocity penetrators" resembling large nails with fins in a deadly shotgun spray traveling 5,000 feet per second.

A high technology sensor "suite" has special sensors and a laser range finder that locate and cue a gunner to targets. Sensor suite data is integrated by a microprocessor and overlain on a television screen mounted in front of the gunner who is inside the vehicle for protection.

"The sensor suite has the ability to detect threat aircraft at significant ranges," Jones explained, "and provide automatic cueing to the gunner so that right there on his video display not only does he see a real world scene but he also has symbology displayed alerting him to potential targets as they're detected."

"Should he choose he can go into an automatic mode just by pushing one button where the microprocessor on board will prioritize all those targets for him and automatically slue the mount to the target of highest priority so that he doesn't have to worry about looking where the target is and trying to move his mount and get the sight on the target."

"It will automatically position the weapon so that he can see the target in his field of view. He locks on it by pushing another button and then squeezes the trigger to fire if he identifies it as a hostile target."

"It's almost like playing Atari," Jones added with a chuckle.

A Humvee truck equipped with a turret for Setter is being built by the Army's Tank Automotive Command and is expected to be ready late this year or early in 1985, evolving in barely four years from an experiment in mounting Stingers in pods on a World War II machine gun carriage.

Stinger was designed as a shoulder-fired missile but was put in pods for mounting on helicopters as a lightweight defensive weapon.

"We had this air launch system, so we asked ourselves, Why can't we use these components to come up with a lightweight ground launch system?," Bentley related.

Jones, working with Bob Evans of the laboratory's Advanced Systems Concepts Office, came up with the idea of making a ground-launched system by mounting the Stinger pods and air launchers on an M55 machine gun carriage. In December 1981 Jones took his plans to the missile laboratory's prototype development group which located one of the old gun carriages at Anniston Army Depot and installed a live Stinger pod on one of the gun mounts and dummy pods on the other three. Jones selected the World War II vintage gun carriage for the experiment because it could perform the vertical and horizontal target tracking

movements necessary for a light air defense system.

His sensors group fitted it with a day sight from a Navy jet fighter and a night sight from a Tow missile and a video screen to display the sight pictures.

Only four months from the time work started on this weapon, which was called MUSL for multiple Stinger launcher, it was ready to be tested. By this time Bentley, who had been an Army helicopter pilot flying test missions for aircraft armaments, had joined Jones as a civilian engineer in sensor systems branch.

In April 1982, a soldier using the MUSL weapon detected, tracked and killed a target aircraft in a spectacular night firing at Fort Bliss, Texas. Then the MUSL was airlifted to Fort Lewis, Wash. and used two weeks by the 9th Infantry Division. There the Boeing aerospace firm became interested in the weapon, learned about it from Jones and Bentley and from there developed their Avenger air defense weapon which is "essentially equivalent in capacity" to MUSL, Jones said.

Jones and Bentley turned to applying what they'd learned with MUSL to the more advanced system they decided to name for Bentley's bird dog.

The name, which fits, is in reference to the Setter weapon's highly advanced sensor system which evolved in part from the homely experiments conducted on MUSL with borrowed sites.

"When you think about the functions that a good bird dog does," said Bentley with a grin, "he uses his eyes, his ears, his nose — multiple sensors — to find an aerial target and to get the gunner, in this case the hunter, to bring a shotgun around and shoot the bird."

"We're using multiple sensors to find an aerial target, to bring a weapon system around to bear on the target and allow the gunner to engage it."

Adds Jones, "The objective of our program is to demonstrate the technology of this sensor suite where we're taking multiple sensors, fusing all the data together and providing a single display to the gunner. So even though we're building something that is a prototype we didn't want to say this is a LADS or come up with a weapon system type name for it because that really wasn't what we are trying to do. A LAD's candidate will evolve from this but it's not our primary objective."

## Good candidate

Be that as it may, both men think their candidate's a good one and view their work as "the chance of a lifetime" to make a contribution to the Army on a level that few ever achieve.

Jones and Bentley stop just short of calling themselves Setter's inventors, saying instead that they were the "instigators" who, while building the weapon virtually from scratch, were helped out by a lot of people along the way.

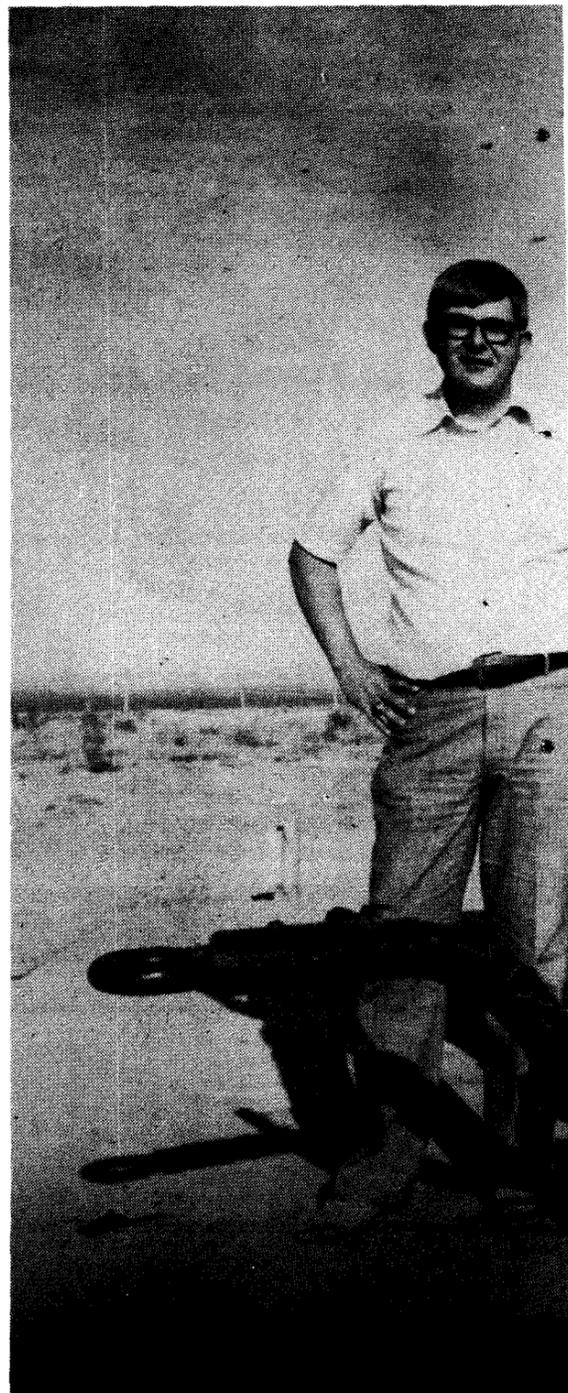
"As far as Setter is concerned, that evolution of the basic idea, Ben and I did invent that. But we were cleaning out the safes the other day and came across some of our original drawings of that thing that you would attribute to a fourth grader. They were bad, but they show you that it involves the help of many people here in the laboratory to turn a concept on the back of an envelope into something feasible and workable," Jones said.

He said a key factor in Setter's fast development has been the availability of technology developed by the missile laboratory such as sensors and the Spike rocket system that was ready to be adapted to Setter. The third man in Jones and Bentley's office in sensor systems branch, Bill Dobbs, contributed a new type sensor he was working on for other applications. This sensor detects radar-type emissions and makes the weapon effective in bad weather. Such technology "focusing" is a major thrust in the missile laboratory today and can speed the development of a weapon system, according to Jones.

"The ability to blend ongoing technologies as well as the management support in wanting to focus those technologies I think is what has allowed us to do it," said Jones, noting that effective teaming with Tank Automotive Command and industry has been a factor too.

This approach has also helped hold down costs to where the total technology demonstration program including testing probably won't exceed \$6 million. "You look at what we're going to put out of this program and the total investment and you see a tremendous return of technology for the dollar," Jones observed.

Another plus in Setter's development is the soldier

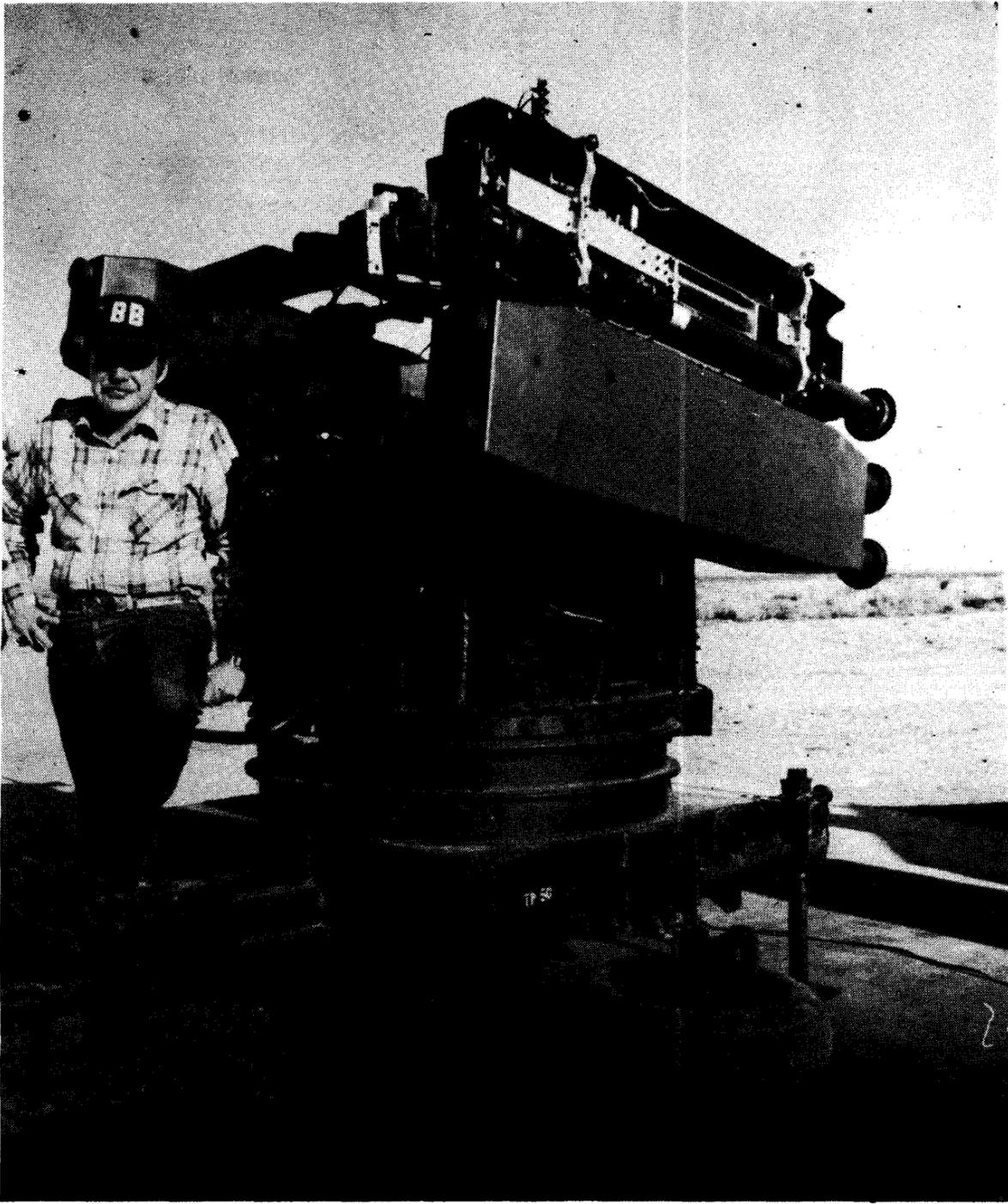


background of both engineers. "Both of us still have lot of O.D. blood running around in our veins," joke Jones, 39, who joined the missile laboratory in 197 after 11 years as an air defense officer.

Bentley, 38, who came aboard early in 1982 with 1 years in armament and aviation, says, "We have some deep-seated feelings as we've both been the victim from time to time of trying to use some bad equipment...well-intentioned but bad equipment. We still empathize very much with the soldier out there on what he's trying to put up with."

SETTER — A model of the new Setter shown by Bentley and Jones. The turret mounts Stinger missiles, Spike rocket system. The nail-like object held by Bentley is a hypervelocity penetrator from a Spike rocket.

# olves into new concept for light air defense



**THE EXPERIMENT** — Jones and Bentley with their MUSL weapon during tests at Fort Bliss' McGregor Range in April 1982. From this experimental weapon built on an old machine gun carriage the two engineers have evolved a new concept for light air defense.

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air defense system is  
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# Lance corporal selected Marine of the Quarter

BY MAGGIE CUMMINS

Lance Cpl. Steven Wilde was selected Marine of the Quarter Thursday and received a Meritorious Mast from Capt. Scott Ryan, the Marine Corps Detachments commander.

Wilde is the detachments' diary clerk responsible for checking in student Marines at the missile school. He also keeps records on detachment activities.

"Wilde was selected by his section supervisor for his leadership potential, appearance, and outstanding record book," said 1st Sgt. Herbert Wise. "The Marine of the Quarter selection board is similar to the Army's soldier of the month and year boards. He competes with about 100 Marines, both permanent party and students at MMCS. Lance Cpl. Wilde is one of the first permanent party members selected that I know of in the two years that I have been here.

"It is more enjoyable to me to recognize the achievers rather than the problem Marines," he added. "Wilde is a good Marine and deserves the award."

A native of Maryland, Wilde, his wife, Sandra and 11 month old son, Michael, came here from Albany, Ga. where Wilde also received the Marine of the Quarter award in December. He came to Redstone in January.

"I've had a good tour so far," said Wilde. "The people in my last duty station taught me how to do things right and a lot of people depend on me in this job.

"All the people that went before the board deserve to be Marine of the Quarter," he said. "Marines work together as a team and that is what makes the difference in the Marine Corps."

According to Wise, Marine of the Quarter usually gets the job of guideon bearer. Ryan will also make a request to the Commandant of the Marine Corps that Wilde be promoted to corporal.

CSM Harvey Kahl of the Army Missile Command presented gift certificates to Wilde at the Meritorious Mast. Wilde received them from area merchants and organizations.



MERITORIOUS MAST—Lance Cpl. Steven Wilde receives honors at Meritorious Mast for winning Marine of Quarter title.

## Event for small businesses set May 24

Small businesses can meet with government officials and large businesses at an annual event aimed at helping their chances of getting a contract.

The fourth annual Small Business Opportunities Day will be held Thursday, May 24, at the Von Braun Civic Center arena. Some 200 exhibitors are to include government agencies, big businesses, prime contractors, and minority contractors.

"The purpose of it is to give exposure to the small business community. It's to show how the government works, how they do business and specifically how the Missile Command does business and to show those small businesses how to do business with the government," said Dr. Bobby Ingram, director of the

MICOM Small Business Office.

"It also gives small businesses the opportunity to communicate with big businesses in order to get sub-contract opportunities on the major weapon systems we buy at the Missile Command," he added.

Maj. Gen. Jerry Max Bunyard is to give the opening speech at 9 a.m. Weapon system exhibits and contractor products will be on display. Two seminars are to be given during the day by Lowell Smith, a small business advisor. "The two seminars will be geared to specifically show how to do business with the Missile Command," Ingram said.

As many as 2,000 people are expected to attend from some 40 states and Canada.



MARINE OF QUARTER—Lance Cpl. Steven Wilde poses with prizes along with his wife Sandra and son Michael.

## Combat helmet and vest give better protection

WASHINGTON—A new combat helmet and vest combination designed to give soldiers vastly improved protection against fragments and bullets is now in the field.

Based on advances in design and construction technology, the new gear "combines substantial improvements in protection and casualty reduction with greater mobility, comfort and reduced fatigue," Army logistics officials say.

U.S. Marines in Lebanon wore the vests, where the

jackets were reportedly widely accepted and credited with preventing serious injuries and deaths. The helmet's life-saving properties were proven in the Grenada operation by Army units wearing them, officials said.

The system, designed at the Army Natick Research and Development Center in Massachusetts, underwent extensive field testing before "type classification" in 1978. First production quantities went to Army airborne units in 1982.(Arnews)

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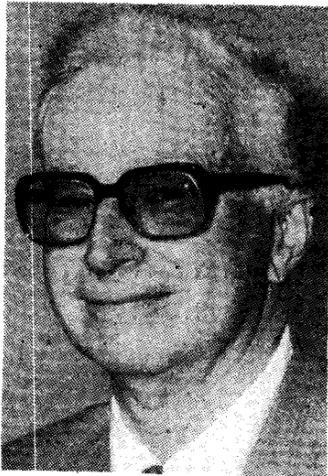
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## Annual bicycle rodeo rescheduled for May 19

The annual bicycle rodeo cancelled April 28 because of bad weather has been rescheduled for May 19 from 9 a.m. - 1 p.m. in the Bicentennial Chapel parking lot. The rodeo will include bicycle safety inspections, registration and maneuverability competition in two events: for ages kindergarten through second grade and for ages third grade through sixth grade. Winners of each event will receive trophies and

awards, all participants will receive certificates and refreshments will be available. The bicycle rodeo is for military children only.

Also, the military police crime prevention team will fingerprint children whose parents sign a consent form. Fingerprint cards will be given to parents for their records.

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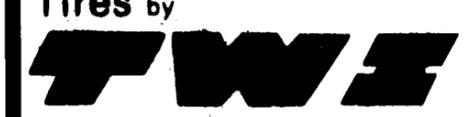
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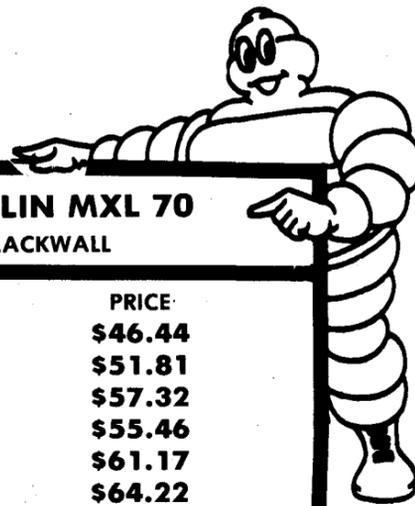
SIZE	PRICE
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P185-75R14	\$65.76
P195-75R14	\$69.05
P205-75R14	\$73.70
P215-75R14	\$76.74
P215-75R15	\$78.12
P225-75R15	\$80.73
P235-75R15	\$84.66
P205-75R15XA	\$83.65



MXL 70

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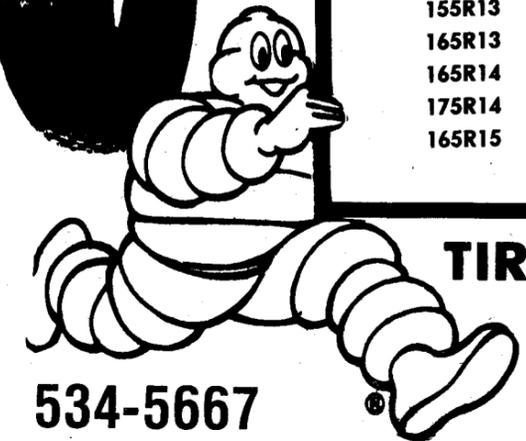
SIZE	PRICE
165-7013	\$46.44
175-7013	\$51.81
185-7013	\$57.32
175-7014	\$55.46
185-7014	\$61.17
195-7014	\$64.22



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145R13	\$36.18
155R13	\$41.29
165R13	\$46.35
165R14	\$48.28
175R14	\$53.06
165R15	\$51.24

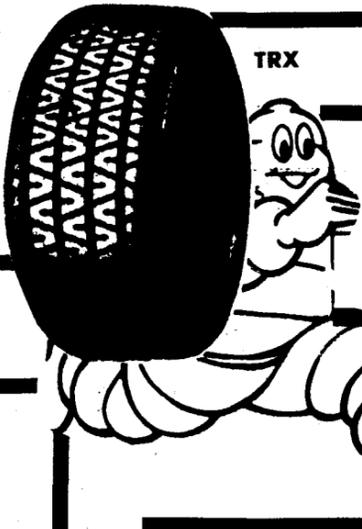
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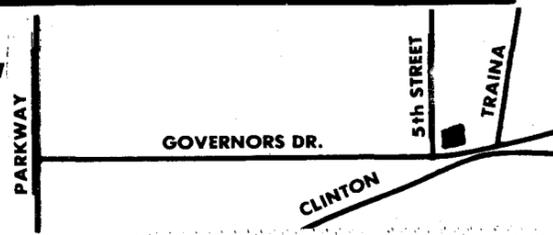
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# —ANNOUNCEMENTS

## Blood drive winners

Winners of the March blood drive were: 1-50 category, Human Engineering Detachment, Dwight Nichols coordinator; 51-100 category, Chaparral/Faar Project Office, Nancy Engle coordinator; 101-150 category, Multiple Launch Rocket System Project Office, Peggy Langley coordinator; 151-200 category, Comptroller, Helen Daniels coordinator; 201-400 category, Missile Intelligence Agency, Bertiera Humphrey coordinator; 401-over category, Facilities Engineering Division, Greg Bliss coordinator.

## Recreation Center

Tonight—Uno at 7 p.m. Thursday—Bingo at 8:30 p.m. Friday—Checkers at 7 p.m. Saturday—Huntsville Village Singers show at 7 p.m. Sunday—Miniature golf for mothers 50 cents per game. Monday—Video games and free refreshments at 7 p.m. Tuesday—Pool at 7 p.m.

## Commissioning ceremony

Col. Malcolm R. O'Neil, project manager of the Multiple Launch Rocket System, will be guest speaker at Alabama A&M University's ROTC commissioning ceremony on May 13 at 9:30 a.m. in the Elmore health science complex. Forty-one cadets will be commissioned as Army second lieutenants during the ceremony.

## Register for volleyball tournament

Teams have until June 1 to register for the MICOM picnic volleyball tournament which is open to all command personnel, their families and affiliated contractors. To register call Capt. Logan Cox or 1st Lt. Ken Noland 876-1125/3229.

## Bloodmobile

The bloodmobile will be at building 4488 on Friday from 7:30 a.m.—12 noon. It will be at the Recreation Center on April 16 from 9 a.m.—noon.

## Gospel concert

Bobby Jones and New Life of Nashville will be featured in concert at the Von Braun Civic Center at 8 p.m. Saturday for the New Life Adult Choir's first anniversary. Bobby Jones and New Life have appeared in Las Vegas with Barbara Mandrell and on national television. Tickets are \$5 in advance and \$6 at the door. For more information call David Rugless 532-7056.

## ROTC award

Sherril Dalrymple, a cadet major in Butler High School's Air Force Junior ROTC, received an annual ROTC award from the American Defense Preparedness Association. She received a certificate, bronze medallion and \$50 savings bond. The presentation was made last Friday at the post theater by Sgt. Maj. Joseph Webb of the missile school here.

## Mass in Spanish

There will be a Mother's Day Mass in Spanish at 6 p.m. on May 12 at the Post Chapel. Confessions in Spanish will be heard at 5 p.m. after Mass, there will be a potluck supper. Families are asked to bring a Hispanic side dish to go with barbecue meat. Single soldiers are especially welcomed; just bring yourselves.

## Economy couples

The Economy Couples Club will have its monthly meeting on May 13 at 4 p.m. hours at the Post Chapel. It is a cookout and all E-1s through E-4s who are married and live off post are invited.

## Best yards

Yard of the Month winners for April are, best single unit, CWO 4 Paul Balke, 430 Skinner Drive and SSgt. Wayne Galloway, 1228-B Nike Street; and best multi-unit, 1st Lt. Gregory Moyer, 256-D Wesson Circle, and Sp6 Lonnie G. Hurley, 201-A Dyer Circle. Winners receive a certificate of appreciation, two free dinners, a color photograph of the awards ceremony and display of the Yard of the Month sign for a month. Receiving honorable mention were CWO 4 Leslie Haas, 433 Simpson Drive, and SFC Rodger Franklin, 1332-B Jupiter Street.

## Savings bonds

The market-based interest rate for savings bonds issued between May 1 and October 31 is 9.95 percent. This is the fourth semiannual rate to take effect since market-based, variable rates were introduced on Nov. 1, 1982, and represents an increase from the November 1983-April rate of 9.38 percent. An annual savings bond campaign is being conducted Army-wide in May.

## Carpool Hotline



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### Decatur

Carpool member wanted from Decatur to 4488, 5687, or 5681, hours 7-3:30. Terri Julian 876-5494.

### Arab

Carpool wanted from Arab to Redstone Arsenal, hours 6:30-3. Willie Durham 876-1726.

### Anniston/Oxford

Carpool wanted from Anniston/Oxford area to MMCS, hours 6:45-3:30. Bobby Coley 876-6628.

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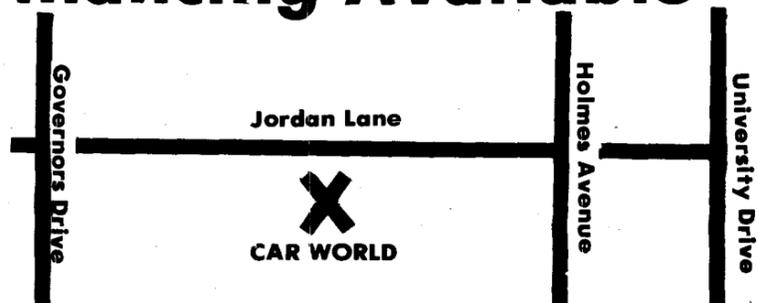
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## Eligibility changed for midterm reenlistment

WASHINGTON—A new policy affecting the reenlistment eligibility of mid-term soldiers took effect in April as part of the Army's continuing program to upgrade the overall quality and trainability of its enlisted force.

Army personnel officials refer to "trainability" as a soldier's potential to be successfully retained in a new specialty, as demonstrated by the scores from such examinations as the skill qualification test and the armed services vocational aptitude battery.

The thousands of mid-termers affected—those active-duty members with less than 10 years' service and in their second or later enlistment—now must score at least 80 SQT points (rather than the old 60) in order to be exempt from having to measure up via the ASVAB scoring.

In explaining their intent to "increase quality, not decrease quantity," officials emphasize that the affected soldiers have a year's grace period during which none of them will lose their retainability solely because of failure to meet the new criteria.

Criteria also include the soldier's attainment of a general technical score of 100 for any testing administered before Jan. 1, 1976, or on or after Oct. 1,

1980. The GT score measures basic reading comprehension and math skills. Officials explain that a GT score of 100 roughly equates to the 9th grade educational level.

The new criteria appear in the latest change to AR 601-280 (The Army Reenlistment program).

"We want to get the soldiers with marginal scores back into school, where they can prepare for raising their scores," said an Army's personnel official. "We view the new criteria as quite reasonable."

In the long run, the new emphasis on superior performance in the SQT and on basic reading and mathematical skills as measured by the GT score is expected to produce improved soldiers.

By this change, the Army intends to stimulate, rather than eliminate, those enlisted members not meeting the new test-scores requirement.

An official summed up the philosophy in these words: "Almost every soldier will have to learn new skills within the next 10 years—what with all the new, highly technical systems and equipment now planned for the modern Army." He added that his office expects no increase in separations as a result of the new policy. (Arnews)

## Troop dining facility reopens Monday

Soldiers will again have three dining facilities on post when a troop dining place reopens May 14.

Dining facility number three in building 3438 north has been closed for renovations since last December. It'll be open for business again starting with lunch Monday.

"It's been closed down about four months now and it's one of the best looking facilities you'll ever find," said CWO 3 Tony Famiano, chief of the food service branch.

Changes include new carpets, tile, lighting, and a new ceiling. The facility has also been wallpapered and repainted.

It consists of one large room that is capable of seating 200 at a time. The reopening is set for 10:45 a.m. Monday.

"We plan on having a special meal that day for the personnel that eat in that facility. What we're looking at now is an international meal," Famiano said.

After the first day the facility will be open for breakfast 5:30-7:30 a.m., lunch 10:45 a.m. to 12:45 p.m. and dinner 4:30-6:30 p.m. Mondays through Fridays. "This is strictly a troop dining facility," Famiano said.

Troop dining facility number one is next door in building 3438 south while facility number two is in building 3480.

## Enlistment in reserve draws 8-year obligation

WASHINGTON—Soldiers enlisting after June 1 will incur an eight year military obligation, a two-year increase that officials say will ultimately strengthen the individual ready reserve.

The new policy increases the time soldiers remain "on call" with the IRR after they leave active-duty or reserve units. IRR rosters provide the nation's primary source off additional trained personnel available dur-

ing emergency mobilization.

Army IRR forces today number some 250,000. Officials say no substantial increases will appear as a result of the new obligation until after 1990.

The new obligation is not retroactive and does not lengthen the IRR time for any current service member. (Arnews)

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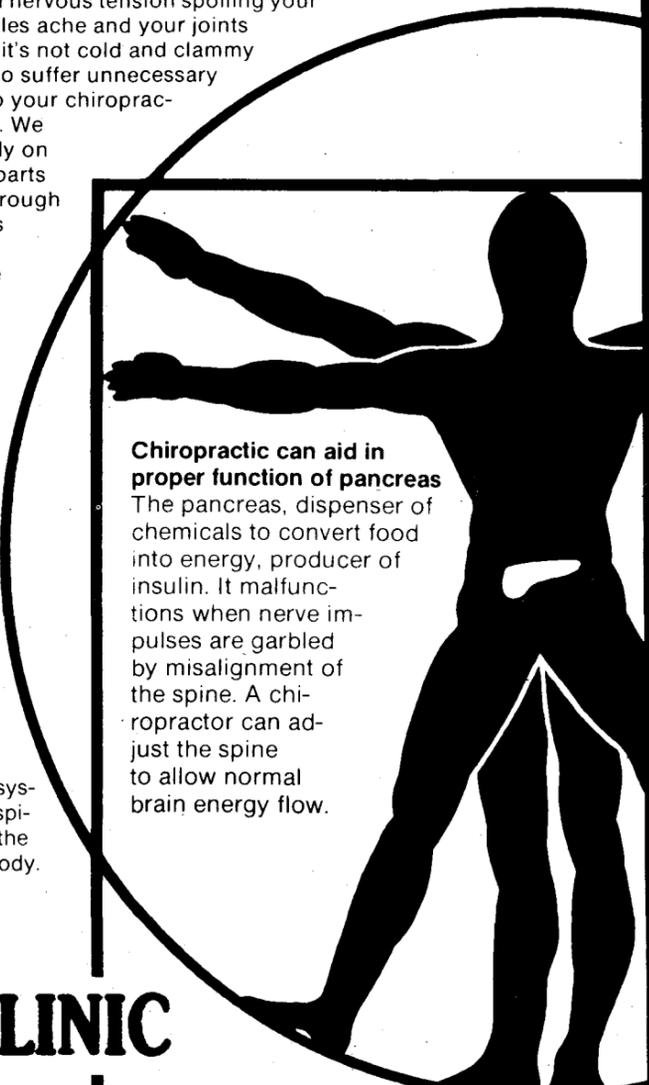
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# Here's formula for estimating energy requirements

WASHINGTON—How much can you eat and not gain weight?

"Estimating the energy requirements of machines has become a matter of interest for many consumers," said Maj. Kenneth D. James, a registered dietitian at Walter Reed Army Medical Center. "But estimating the energy requirements for a person is an inexact process because individual energy requirements vary."

However, James explained that a variety of formulas have been developed to aid in estimating caloric requirements, based on clinical studies using special equipment.

"To determine your ideal weight, males with medium body builds should allow 106 pounds for the first five feet in height, and an additional six pounds per inch for each inch more than five feet," said James. "Females should allow 100 pounds for the first five feet in height, and an additional five pounds per inch for additional inches."

Using your desired weight in pounds, James said you can calculate your basic caloric need by multiplying this weight by 10, arriving at the energy requirement your body needs at rest.

The next calculation will be the activity factor. By multiplying your ideal weight by three if you're very active, and adding the result to your basic caloric needs, you get the number of calories needed daily to maintain your present weight, James said.

The last factor key to the equation, said James, is to add or subtract 500 calories a day, resulting in a gain or loss of about a pound per week.

To provide an example, a six-foot tall medium-framed male is allowed 106 pounds for the first five feet in height, and an additional 72 pounds (12 inches multiplied by 6 pounds per inch) for the foot in height above five feet. His "ideal" weight would be about 178 pounds, and his basic caloric requirement would be 1780 calories per day. Assuming he is moderately

active, he needs an additional 890 calories per day (178 multiplied by 5), for a total estimated requirement of 2670 calories.

Assuming he weighs 195 pounds, he could lose about a pound per week by decreasing his daily caloric intake to 2170.

"Unlike cars and refrigerators, there are many variables that affect the actual energy requirements for individual persons," James said. "For this reason, 'precise' calculations of caloric requirements may be inaccurate for any given individual, and this method provides only an approximation of the energy requirements."

"Perhaps the best monitoring device to determine if the appropriate amount of energy has been consumed is to use the bathroom scale," James said. "If your weight goes up, the message is clear—eat less."



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## High school seniors receive OWC merit awards

The son of a colonel here won first place in merit award competition sponsored by the Officers' Wives' Club.

William John Cruse, son of Col. William Cruse, was selected on the basis of academic standing, support in extracurricular activities, and community involvement. Four high school seniors were chosen for \$500, \$400, and two \$300 awards, according to the OWC.

The other winners were Micaelli Daun Cody, daughter of Col. Michael Cody; Charles David Walker, son of Col. Terry Walker; and Paul M. Miller, son of Lt. Col. Gerald Miller.

Cruse is a senior at Saint John's Prep School in Col-

legeville, Minn. He lettered in wrestling and football and received academic honors. He is serving as an English Department assistant.

Cody, who attends Butler High School, has been selected to Who's Who Among American High School Students. She is captain of the cross-country track team and is active in school theater.

Walker is a member of the Butler High School Honor Society and the Key Club. He received a varsity letter for track.

Miller is an honors student at Butler, a member of the Key Club, and holds varsity letters in cross country and track. He has been accepted to Michigan State University.



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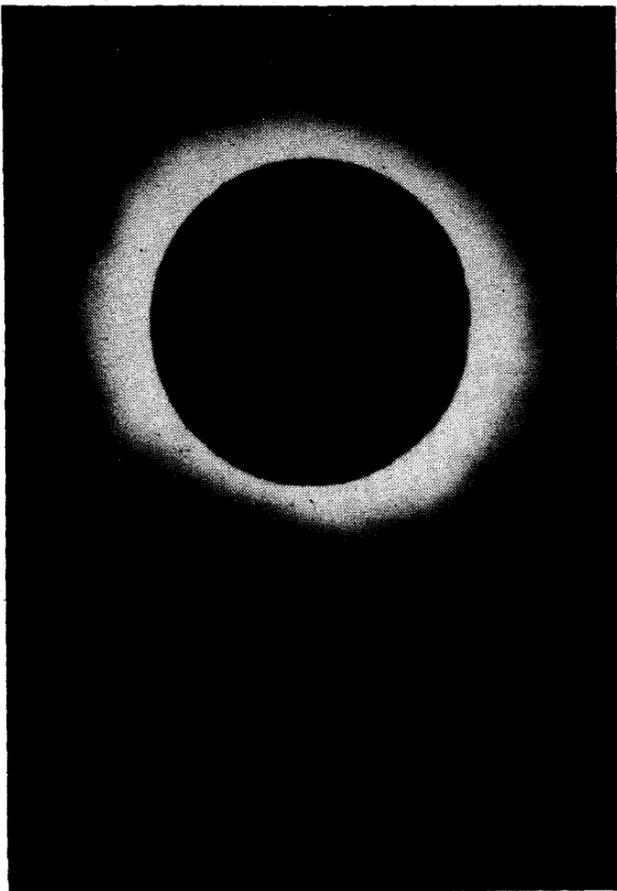
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# Engineer plans to photograph partial eclipse May 30



**ECLIPSE**—Dunning took this picture of a total eclipse in 1979 in Manitoba, Canada.

Mexico, the U.S., the Atlantic Ocean and end up over the desert in Africa. It is to be over New Orleans just after 11 a.m. CDT and leave the coast of Virginia about 11:50.

Here the eclipse is expected to be visible around 11:20. It will only last about 11 seconds for an observer on the ground, however, Dunning says.

His advice for watching an eclipse includes a technique called projection. This is where someone sets up a telescope, aims it at the sun, and views the image on white paper. "That way you don't look directly at the sun," Dunning says.

Another suggestion is making a pinhole camera. A piece of aluminum foil with a small hole through the center can be taped onto one end of an empty cereal box. A sheet of tissue paper can be taped on the other end and the observer would look through the tissue paper. An alternative would be to leave open the end opposite the foil and watch the image projected on a sheet of paper.

Dunning also suggests watching an eclipse directly through a filter. A shade number 14 welder's glass is a dark green filter about 2 inches by 4 inches that can be bought for about \$2.50 at most welding supply stores, he says. Another filter is called aluminized mylar, a thin plastic sheet similar to silver toy balloons. "But you want to be sure there are no scratches in the aluminum surface," Dunning adds.

Two pieces of completely developed black and white photographic film can also be used as a filter, according to the engineer.

"Here is what you will not under any conditions use: Don't use smoked glass, don't use dark plastic garbage bags, don't use color film," Dunning says. "It does not filter out the infrared rays."

Eclipses, whether they be total or annular, occur at some point on the earth about twice a year. A total eclipse is not expected in the United States or Canada before the turn of the century. Dunning took photographs of the last total eclipse in 1979 in Manitoba, Canada.

He photographed a total eclipse in 1971 in Georgia and another one in 1972 in Quebec. Dunning, who also photographs lunar eclipses, uses a telescope that he built especially for eclipses. A camera is mounted to it along with a clock drive that turns the telescope and camera to follow the sun's path. He got an automatic film winder recently.

For the annular eclipse May 30, Dunning plans to travel to Pine Level, Ala., about 18 miles northwest of Montgomery. This is so he can be in what he expects will be the center of the path of the moon's shadow. Eclipses happen somewhere in the world every six months but Dunning concedes it would cost too much money to travel all over chasing them. "Even professional eclipse chasers haven't been to more than six or eight," he says.

"I'll tell you the first one you see the experience is indescribable really. You might say it's eerie," Dunning says. "It's a phenomenon you've never seen before and you're looking at it firsthand which is entirely different than looking at a photograph."

**BY SKIP VAUGHN**

A partial solar eclipse that is to occur May 30 will be visible here but people should use eye protection to watch it.

That's the advice of an Army engineer who has a hobby of photographing eclipses. "This is what they call an annular eclipse," says Phil Dunning of the quality engineering division of Product Assurance Directorate.

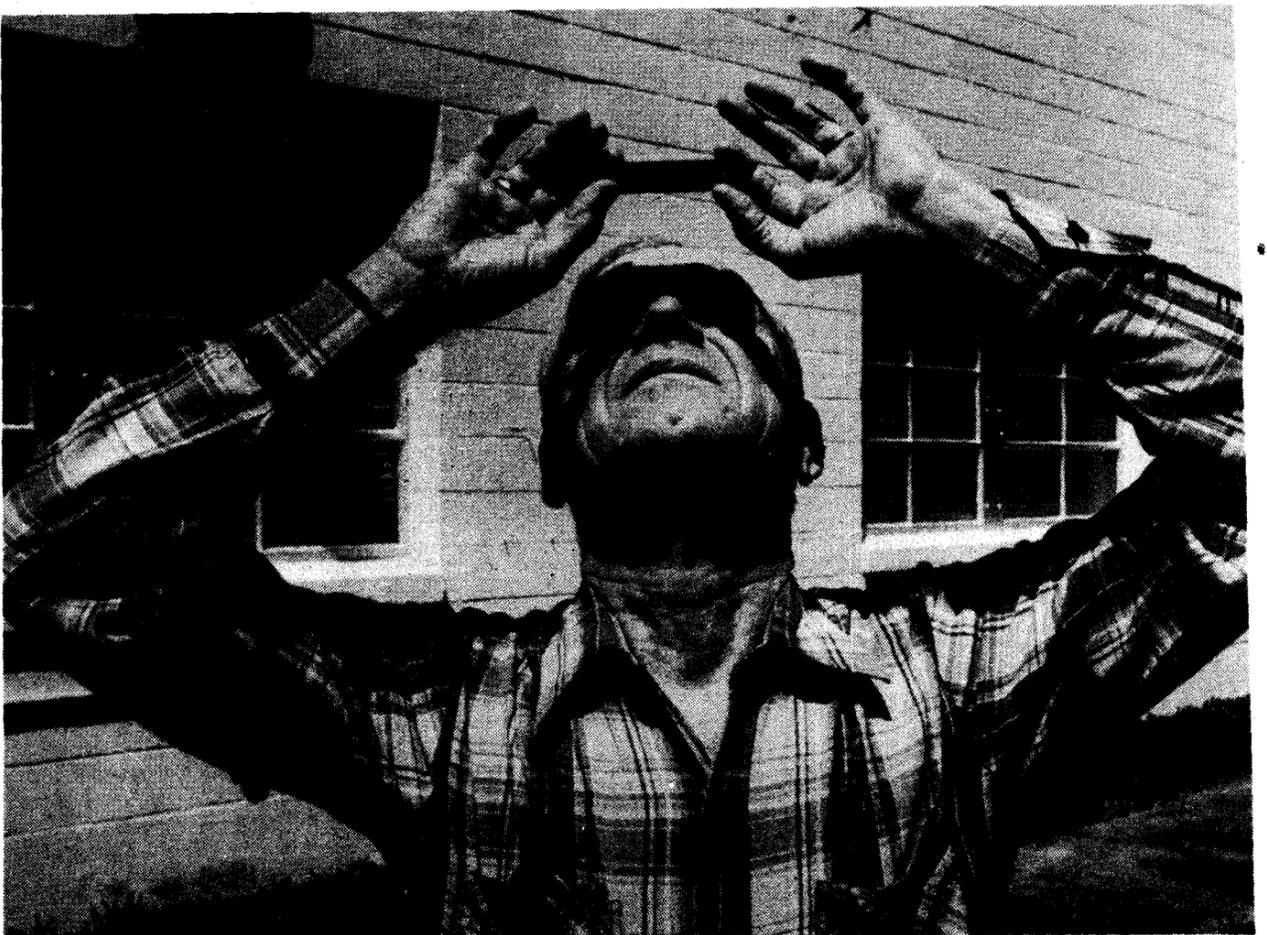
"What it means is that the moon is farther away than normal and it will not completely cover the sun. Therefore you'll have a ring around the moon," he says.

The eclipse is to only last a matter of seconds as opposed to a total eclipse that can last up to eight minutes. The shadow of the moon on the earth's surface will only be about five miles in diameter where a total eclipse shadow is normally 110 to 150 miles wide.

Unlike in a total eclipse, eye protection is needed at all times to watch an annular eclipse.

"There is enough sunlight in this ring to cause eye damage and what will damage your eyes is the infrared radiation," Dunning says. "In a total eclipse this infrared ring is blocked out completely but this annular eclipse lets enough through to damage your eyes."

About 95 percent of the sun will be covered by the moon as observed from Huntsville. The eclipse is to occur in the late morning of May 30. The path of the moon's shadow is to begin in the Pacific Ocean, cross



**FILTER**—Army engineer Phil Dunning shows how to use a welder's filter to observe the sun.

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