

The Redstone Rocket

VOL. XXVII; NO. 11 AUGUST 2, 1978



"When the sunne shineth, make hay!" That centuries-old English proverb is not only good advice, but also a reminder that the searing summer won't last forever. While everyone's hoping winter will come

late and leave early, the hay crop is this field east of Bldg. 5250 appears adequate to see a lot of cows through a long period of cold.

MMCS gets new top man

Colonel Harry L. Foradori became the fourteenth commandant of the U.S. Army Missile and Munitions Center and School during official ceremonies at Redstone Arsenal Monday.

Major General Homer D. Smith, commander of the U.S. Army Logistics Center, Ft. Lee, Va., presided over the change of command and reviewed the assembled troops.

After passing the MMCS colors to the new commandant, Maj. Gen. Smith presented the retiring Col. Edwin A. Rudd with the Distinguished Service Medal. The citation that accompanied the prestigious award lauded the 30-year veteran's exceptional managerial talent, dedication to duty and impressive accomplishments.

Col. Foradori is the former commander of Aniston Army Depot.

A native of Brockway, Pennsylvania, his military career began in 1953 as an enlisted

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In brief

New bagger system delayed for 60 days

WASHINGTON (ARNEWS) — The proposed commissary bagger and carryout system which would require patrons to pay a two percent service fee for bagging services, and was scheduled to go into effect on July 30, has been delayed by DOD for 60 days. The delay will allow time for congressional action and resolution of the recently introduced amendment to the Defense Authorization Bill.

The amendment, sponsored by Senators Roth (R.-Del.) and Stone (D.-Fla.), would exempt baggers from the federal minimum wage under the Fair Labor Standards Act.

The postponement means that during the 60-day period ending September 30, baggers will continue the present system of working for tips. Patrons will not be charged the two percent fee, and commissaries will not establish separate bag-your-own checkout lanes.

Joint assignments

WASHINGTON (ARNEWS) — Soldiers who are married to other servicemembers should consult their personnel offices if they wish to be considered for joint domicile in future assignments. A new preference statement code "J" is now necessary for couples wanting joint assignments.

'A whole new person'

Sergeant loses 127 pounds

Sergeant First Class Alfred Frank has suffered a lack of recognition lately.

A personable greeting to a friend he hasn't seen in several months more often than not draws a who-the-hell-are-you kind of stare. In one instance a friend's wife he hadn't seen in some months walked away in a huff, not recognizing Frank and mistaking his friendliness for a pass.

For Frank, the lack of recognition is a happy consequence of shedding a lot of weight in a short time. In eight months he's lost 127 lbs.

Physical appearance isn't all that has changed, however. "I feel like a whole new person, like I can do . . . anything!", says the 42-year-old sergeant.

A big man who did things in a big way, Frank says he was faced with the choice of either losing weight or losing out on his Army career. "You might say I had to stop eating to be able to afford to eat . . . I had to stop to keep my job," says Frank. "And," he adds emphatically, "I want to get promoted."

After years of sidestepping Army weight standards, they "finally caught up with me," he acknowledges. Frank came into the Army weighting 254 pounds, but has weighed between 320 and 340 for nearly all of his almost 24 year military career which he began as a teenager. He is not quite 5 feet 10 inches tall.

Last October he weighed 337 pounds. Now he's down to 210. Army standards say 192

pounds is an acceptable weight for a man of Frank's build, but his personal goal is 175.

Trained as an interrogator and now working as a translator at Redstone Scientific Information Center, Frank says his bulk never interfered with performing his military duties, but feels it has kept him from being promoted. "But if I was on a promotion board and saw my picture I wouldn't have promoted me either," he says with a laugh.

A self-described "foodaholic" who is "not cured and never will be," Frank says his appetite has diminished barely if at all.

"I could eat just as much as I did before, but now I eat and get the hell out of the kitchen. I used to be 'garbage man' for my four children. I couldn't stand to see any food left on a plate," he said.

Despite appetite being "a constant battle, I've learned to live with it because of my success."

Frank says he eats no special food, does not take diet pills, but exercises strenuously for a few hours every day, playing racketball and doing situps.

A side effect of his weight loss has been irritability. With medication it has been lessened considerably, "but that desire for food will never stop," he says.

Losing an average of nearly 16 pounds per month, Frank says it's impossible to keep clothing that fits. Uniforms bought only recently droop on him. "I'm wearing

(continued on page 5)

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not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

OPINION

Free speech: alive and well at Redstone

Last week a letter to the editor appeared in the **Huntsville Times** which was critical of Redstone Arsenal, and its newspapers in particular. The writer stated that these newspapers — the **Redstone Rocket** included, presumably — express only the management viewpoint on the one hand or trivialities on the other. According to the writer, freedom of the press does not exist here.

Well, I wish that letter had been sent to me, because I would have published it, and gladly. The truth is, the **Rocket** welcomes the opinions of its readers, positive or negative, about any aspect of life at Redstone Arsenal, including this newspaper.

Unfortunately, few readers seem interested in exercising free speech by writing letters to the **Rocket**. Why this is I don't know. But if free speech is dead here, it's not because the **Rocket** is unwilling to print the views of its readers; rather, it's because they are too apathetic to present them.

Another matter — is the **Rocket** a management propaganda sheet? I don't think so. The purpose of this newspaper, as I see it, is to serve the Redstone community by keeping it informed. We report what's happening at Redstone, and do so honestly and objectively. Anything newsworthy that happens at Redstone — good or bad — we report.

Does the **Rocket** indulge in trivia? Well, one man's pleasure is another's poison. What some readers view as trivia, other perceive as of great consequence. We try to present a news and feature package that offers something for everyone. We think this is the best way to serve the interests of all our readers.

One final point — the most significant one. **Rocket** staff members have a job to do, and we take pride in our work. If we thought we were simply purveying propaganda or trivia, we'd hang it up. It's that simple.

DOMINIC AMATORE

Letters

THE REDSTONE ROCKET

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

All advertising copy and payments therefore are received by Mrs. Vergie Robinson, P. O. Box 5351, Huntsville, Ala., 35805, telephone 533-2703, as representative of the publisher. The advertising office of **The Rocket** is located at 2400 Bob Wallace Avenue, Suite 210. Advertising deadline — both display and wantads — is 10 a.m. Monday before publication.

The **Rocket** is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for **The Rocket** are \$12.72 a year, or \$7.42 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 930, Hartselle, Ala. 35640.

Everything advertised in this publication must be made available for purchase, use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

If you can't stand the heat...

It's always been my belief that there is a time and a place for everything.

Summer is not the time nor is a government building which is conserving energy the place for a heavy coat and tie or a polyester pants suit.

Energy saving is a must at Redstone and it sometimes results in minor discomfort for workers, but some of us make higher temperatures a catastrophe by not dressing for the conditions.

It hardly seems necessary to remind anyone that if you wear heavy clothing in a warm building you're going to sweat and be uncomfortable, but . . .

Some of us apparently are still clinging to the outmoded concept of a civil servant as someone who wears a business suit to work

no matter what — as if the ship of state would founder if not manned by a formally attired crew. These people regard naked elbows as indecent.

Loosen up, folks. There's nothing wrong with working in blouse or shirt sleeves. It's more important to be cool and comfortable than to look like something off the cover of **Vogue** or **Esquire**. And let's face it — you can't be efficient if you're working in a pool of sweat.

I'm not saying that you should greet the public in bikini tops or leisure suits open down to the navel, but why not dress sensibly?

Who knows — you might learn to like it.

DOMINIC AMATORE



On 1 Aug. 1962, the Army Materiel Command — now DARCOM — was created. Utilizing the reservoir of talent from the former technical services, this command was designed to meet the logistical needs of the U.S. Army, the nation, and our allies.

These 16 years have brought us many challenges — challenges which have been successfully met due to the dedication,

determination, and skill of the men and women of this command. You have accepted the responsibilities, generated the ideas, and borne the burdens throughout these years.

Our nation is at peace today. But in peacetime or in an emergency, DARCOM's role as an essential member of the Army team is to support the total Army. We must continue to do whatever is necessary to ensure the total Army is ready-seeing that the job gets done in the quickest, cheapest and most efficient manner.

As we embark, together, on our 17th year, I wish to express my personal appreciation to each of you for your loyal support. With your continued dedication and assistance, I am confident we will meet whatever demands the future may hold, in war or peace, I am proud to be a member of the DARCOM team.

John R. Guthrie, General
USA Commanding

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School registration is now underway for new students

Registration for first grade, kindergarten, and new students in the Huntsville City Schools is going on now. All city high school offices are open for new students in Huntsville to register. Middle school offices opened yesterday to register students who moved to Huntsville during the summer.

Kindergarten, first grade and new elementary students in the Huntsville City Schools may register only from 9 a.m. until noon on Thursday, August 10, according to Dr. Shelby Counce, superintendent.

To register for kindergarten classes, a student must live in the school zone and be five years old on or before October 2. Title I kindergartens are located at Blossomwood, Cavalry Hill, Lincoln, West Mastin Lake, Terry Heights, East Clinton, Colonial Hills, RollingHills, West Huntsville, McDonnell, and Lakewood. State-supported kindergartens are located at Chaffee, Morris, Chapman, and Jones Valley.

Students entering first grade should register at the school they will be attending, and must be six years old on or before October 2.

Proof of age and immunization is required for entry into the Huntsville City Schools. Parents should bring the students's birth certificate and certificate of immunization when registering the student.

Voters face registration deadline

Soldiers and their families living in government quarters on Redstone are eligible to vote in county, state and federal elections here if they register to vote before the registration deadline.

To register a prospective voter must present name, address and social security number in person at the Madison County Board of Registrars, room 411 in the County Court House. The office is open from 8:30 a.m. to 5 p.m., Monday through Friday.

Prospective voters must also furnish the board with names, addresses and phone numbers of two, unrelated, area residents who can verify his address. Redstone residents are acceptable references.

The registration deadline for the September 5 primary is August 25. Closing dates for later elections will be announced.

Dental clinic offers fluoride treatments

The Redstone Dental Clinic will conduct a self-applied stannous fluoride treatment and oral hygiene instruction session on Wednesday, August 16, from 12:30 to 3:30 p.m. The session will be held at the clinic, Bldg. 3494, for dependents of active duty military personnel and retired military and their dependents.

Persons planning to attend must make an appointment at the clinic during operating hours, 7:30 a.m. to 4:30 p.m., Monday

through Friday. Children must have a permission-for-treatment slip, available at the clinic.

Lollie McAnnally, public health dental hygienist, will supervise as participants brush their teeth with a special prescription toothpaste which is nine percent stannous fluoride. This treatment will help prevent tooth decay.

McAnnally will also show a film and give a brief talk on oral hygiene.

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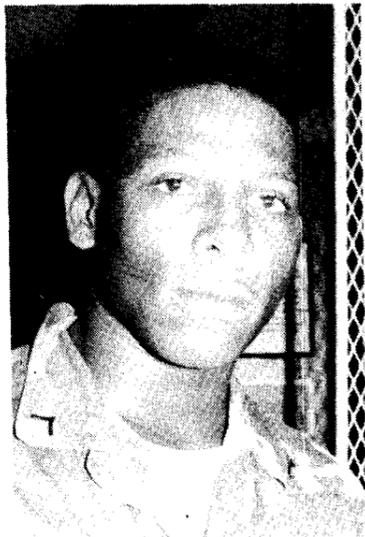
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QUESTION: How does your chain of command show interest in you?



PFC Robert Lyons, Marines— “They let us know in many ways. Like in formation when they tell us what’s going on. And if you have a problem, they can usually help. That’s what they are there for. They give it to you straight, too. They don’t beat around the bush.”



SSgt. Jordan Jefferson, 4th S.C.— “Well, the company commander shows a lot of interest in the welfare of both the students and cadre. He pushes education for everyone and does what he can to give you the time to take tests and register and so on. He also backs up his NCOs real well and it’s good to see that again.”

LTC Kenneth Worsham, MIRADCOM— “I don’t go to formations or deal with the troops every day, so my perspectives are rather subtle. But I see the command’s interest in people in the long range planning that makes this post better for all of us. I’ve been here off and on since 1972 and I’ve seen constant improvement in facilities — New housing, remodeled barracks, a new chapele, a new PX. And it’s continuing. The new commissary is going up now.”



Sp5 Patricia Bennink, 5th S.C.— “I was recently promoted to E-5 and I had a lot of help in preparing myself. If I was ever in trouble or anything I know they’d support me to the best of their ability.”



Pvt. Debra Haney, 6th S.C.— “Well, when I have a problem or a question I go to my platoon sergeant. She takes the time and does her best to get my problem solved. If she can’t there’s always the C.O. and the first sergeant, but the problems and questions are usually handled by the platoon sergeant.”



Sp4 Stephen Howard, MIRCOM— “They show a lot of interest in me. For instance, I’ve always been able to get the answers I needed from the first sergeant or C.O. And from what I’ve seen, the guys that are doing well get the praise they deserve and guys that aren’t doing so well get what they deserve too. It seems like no matter how busy they are, they always take time to help.”

Safety, security Lewis’ goals

Lt. Col. Terris Lewis’ boyish appearance belies 19 years of experience in Army military security but there’s no mistaking his enthusiasm and pride in his job, his men and the Army.

“Military Police must provide a safe and secure installation,” Redstone’s new Provost Marshal-Security Officer said this week, “but that’s only part of the job. MPs are the first and last people visitors see while entering and leaving the installation and because of this high visibility, we have to be professional in everything we do.”

Lewis said the role isn’t easy since many people are quick to criticize the military police, and slow to commend them, but “... that goes with the job.”

The 40-year-old Ferndale, Mich., native comes to Redstone from Fort Ord, Calif., where he commanded three companies of approximately 800 MPs. He succeeds Lt. Col. Edward C. Smith, Jr., who is retiring from the Army in September.

This is Lewis’ first assignment here

although he served at neighboring Fort McClellan for a year in 1975 as Secretary of the MP School and later Executive Officer for the MP Brigade.

Lewis is a graduate of Central Michigan University with a BS in Education and earned his masters degree there in Education Administration.

What does he hope to bring to the job at Redstone?

“I believe we’re here to perform a service and I feel strongly about the Military Police code of ethics,” he said citing the following:

- I am a Soldier in the United States Army.
- I am of the Troops and for the Troops.
- I hold Allegiance to my Country and Devotion to Duty above All Else.
- I Proudly Recognize my obligation to Perform my Duty with Integrity, Loyalty, and Honesty.



LTC TERRIS LEWIS

— I will Assist and Protect my Fellow Soldiers in a Manner that is Fair, Courteous, and Impartial.

— I will Promote, by Personal Example, the Highest Standards of Soldiering, Stressing Performance and Professionalism.

— I will Strive to Merit the Respect of Others, Seeking No Favor because of Position but, Instead, the Satisfaction of a Mission Accomplished and a Job Well Done.

Among medals and awards he holds the Meritorious Service Medal, Bronze Star, Joint Service Commendation Medal and the Army Commendation Medal.

127 pounds

(From front page)

fatigues and keeping a low profile. There's no sense in buying class A's until I lose another 30 pounds or so."

He has trimmed nearly 2 feet from his web belt, as his waist shrunk from 57 inches to its present 36 inches. The waist would be even smaller were it not for a roll of loose



Frank tries on pants he wore just eight months ago

skin that will have to be surgically removed, according to Frank.

Frank said he has tried before to lose weight. Shortly before his latest attempt, he managed to lose 40 pounds but gained it all back and more.

His present medically-supervised program, under Major Ronald Landefeld, M.D., is different from others he's tried. "No one has tried to baby me," Frank says.

In other weight-loss programs, too often he's been treated as if he were a joke, a hopeless case, Frank says, asserting that, "It's degrading the way the Army treats fat people, like they were babies. They take care of their alcoholics, but they're down on fat people." In Frank's "foodaholic" condition, as he describes it, eating is an addiction and "You can't stay away from it because you've got to eat to live."

Frank credits his success in the weight-loss program to Dr. Landefeld and Captain Homer Stokes, Frank's company commander, both of whom were understanding, yet firm. "They encouraged me, set goals for me, but they left it up to me. They had faith in me," says Frank.

For Frank, the rewards of weight loss have been many. "I feel great, I'm in terrific physical shape, the best I've been in 20 years, despite my age," he says. Where he formerly had high blood pressure, he says he now has "the blood pressure of an 18-year-old."

For the first time in years, he doesn't have to special-order uniforms, and doesn't have to worry about being able to find civilian clothes that will fit.

He has found that he is not the "lazy person" he always thought he was, and has come to enjoy activities such as home



A lot to smile about

repair that he dislike when his size interfered with stooping and bending.

Insignificant things that most people take for granted become revelations to him. "Look, I can cross my legs!," he blurts happily, and demonstrates. "I've never been able to do that before in my life!" He means, of course, during his adult life, before he began a new life eight months and 127 pounds ago.

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The Bible

Its message is now captured on film

Churchgoers on Redstone are not just hearing the word of the Bible anymore. Now they are seeing it as well.

Last year Redstone's Audio-Visual Center received the first chapters in the New Media Bible, the first complete rendering of the Bible attempted on film.

These 10 films cover Genesis 1-22 (from Creation to Abraham's sacrifice of Isaac) and Luke 1-2 (the Annunciation, Nativity, and Jesus's youth). Ten more films are expected next year and each succeeding year until both Old and New Testaments are complete. Completion of the New Media Bible is expected to take over 30 years.

"The New Media Bible has unlimited potential," Redstone Chaplain (Captain) Alfred N. Minor said. "So far we've used the New Media Bible in Sunday school as a teaching aid and a basis for discussion. We've used it as a study tool for the chapel's youth groups, both Protestant and Catholic, and we've used it as the reading at some services."

Other chaplains have shown the films at prayer breakfasts and in conducting the courses of the Nebraska Christian College.

According to Minor, Redstone has responded enthusiastically to the Bible on film. He finds that today's adults often

relate better to films than to the printed word. Sunday school students consider the films a treat. They have told Minor it is more like going to the movies than attending a class.

Although Sunday school students may not realize it, the New Media Bible was designed to instruct. Each film is accompanied by a teaching package containing film strips with synchronized records or cassettes, projectionists' scripts, leaders' guides and copies of the **New Media Bible Times** magazine.

Films run 15-20 minutes. Characters emote on screen, but their words are not heard on the soundtrack. The only voice heard distinctly is that of the film's narrator, reading word for word the translation of the Bible chosen for the film series. Redstone uses the King James Version read by Alexander Scourby. The films and texts do not preach denominational doctrines.

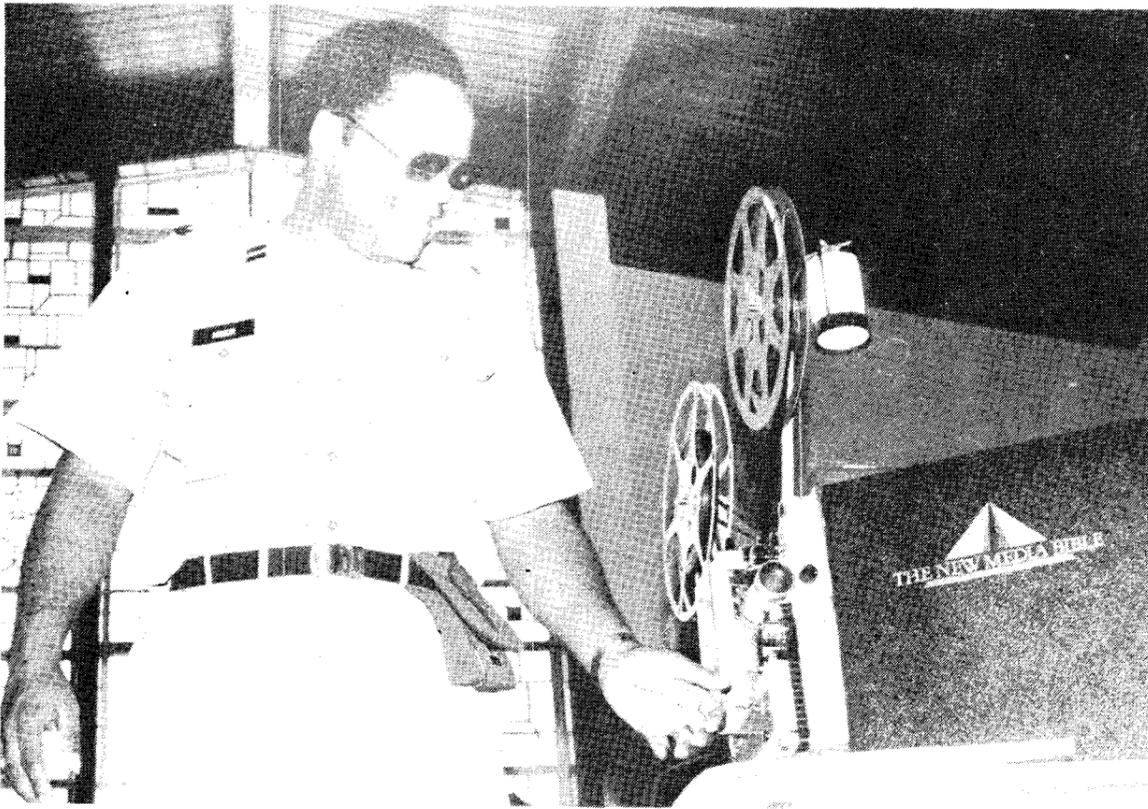
"Using these films has been a godsend for us," Minor said. "We can use them with little kids, and with adults of all faiths. The New Media Bible lends itself to completely new dimensions in worship."

After studying the results of tests of the New Media Bible conducted by the Navy, DA purchased subscriptions to the filmed Bible for all its Audio-Visual Centers. Post chaplains and religious groups use the films most, but films and teaching packages may be checked out from the center like other training film series.

Although many scholars are calling the New Media Bible the most important tool in the dissemination of the Bible since the printing press, the filmed Bible does have detractors. For some, any translation of the Bible to a visual medium, no matter how literal the translation, smacks of sacrilege.

Redstone chaplains do not see the New Media Bible in this light. They consider it one of the best tools available to achieve their goal of a total ministry.

"People today have grown up with TV. We are used to being spoken to with a picture in front of us," Minor said. "I think it's a very good for the Church to have finally gotten to the point where it can use the resources of the mass media, instead of just fighting them."



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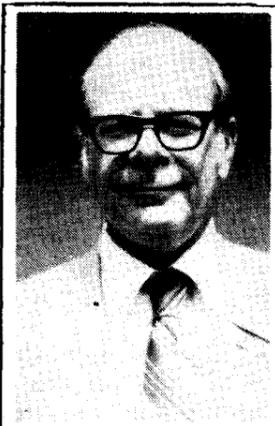
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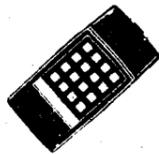
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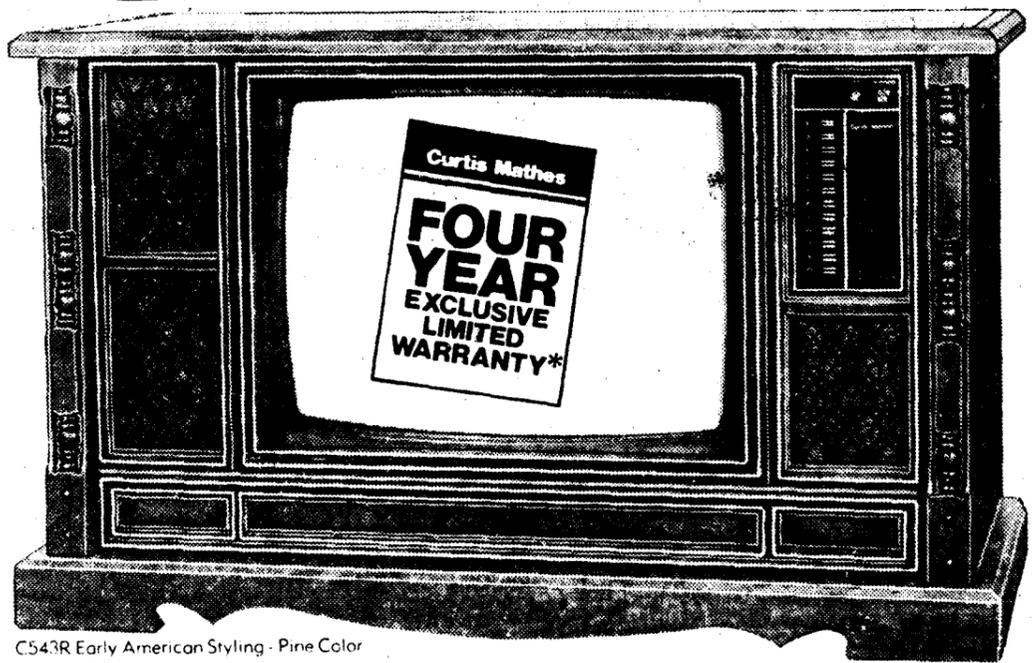
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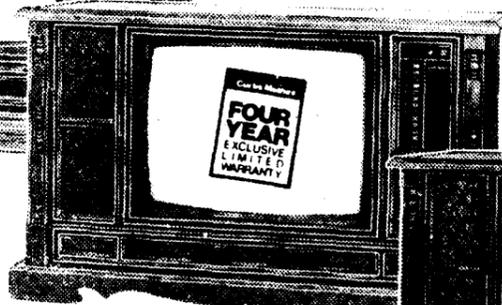


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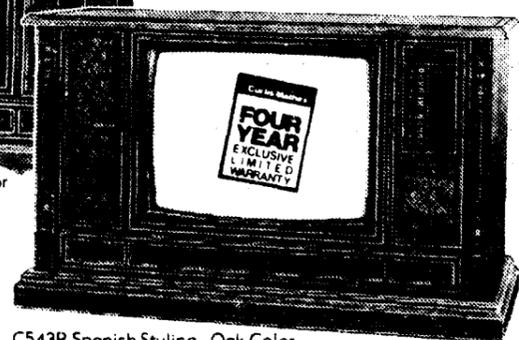
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Registration for DYA football now underway

The Arsenal's dependent youths are just now winding up their summer activities and already it is time to get out the pads in preparation for another football season.

DYA is cranking up for another chapter of the highly successful Pop Warner Junior football program this week with the player sign-up as the opening phase. Registrations are being accepted at the DYA building (114) through Friday, August 4.

The Pop Warner program provides tackle football played within strict age-weight groupings so as to assure a safety-first brand of balanced competition.

The age-weight requirements, with ages as of July 31, 1978, are: 8 years, 50 to 85 pounds; 9 and 10, 50 to 100; 11, 50 to 125; 12, 65 to 125; 13, 90 to 125; and 14, 90 to 105.

Players will be assigned to a team in one of the three age-weight groups. They are: Junior Peewee: 8, 9 and 10, 50 to 85 pounds, and 11 years olds weighing 65 pounds or less; Peewee: 9, 10 and 11, 65 to 100 plus 12 years olds weighing 80 or less; and Junior Midget: 11, 12 and 13, 90 to 125 plus 14 years olds weighing 105 or less.

Additional information on the Pop Warner program on post may be obtained at the DYA building or by calling 876-KIDS.



ALL-STARS — These 13-year old all-stars carried the Redstone colors in the District Babe Ruth tournament held during mid-July in Tanner. They were selected from among the 13-year old performers on the four teams that competed in the Arsenal's league this summer. Kneeling from the left

are: Robert Mertz, William Frank, Pete MacConachie, Bill Jones, Raymond Cutts and John Ragano. Standing: John Dove, Ronald Lamm, Donald Gregory, Byron Eilenstine, Mike Sparrow and Jeffrey Behrens.

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22 military-civilian hunts slated

Redstone deer hunters can look forward to 22 of the popular military-civilian hunts this season when half the spaces are filled by military personnel and half by civilians.

Under the revised arsenal hunting rules, "military" personnel include active duty and retired U.S. military, members of the reserve while on active duty and allied forces personnel assigned here.

"Civilians" include U.S. government civilian employees — both Army and

Marshall Center — and government contractors with auto decals and security badges for arsenal access.

Those who take part in military-civilian hunts will be allowed to take dependents but no quests.

"Military" personnel may hunt on days other than those specially designated military-civilian hunts with their dependents and two quests.

Five of the seven days allotted by state

authorities for gun hunts in which deer of either sex may be taken have been included in the military-civilian schedule. The first either sex gun hunt will be held December 23 and limited to military and guests. Dates for the either sex military-civilian hunts are: December 30; January 6, 7, 13, 20.

Deer hunting begins October 14 and continues through January 20. The first part of the season is limited to hunting with bows and arrows only. Archers may take deer of either sex. Gun hunting begins November 18. Those who prefer to hunt with bows and arrows may do so throughout the season.

The complete deer hunting schedule is printed elsewhere on this page.

State authorities have also set seasons and bag limits for small game.

Squirrel and rabbit seasons will begin October 14. There is a daily limit of eight squirrels. The season ends January 1. Rabbit season ends Feb. 28. The daily limit has been set at eight.

The first part of the dove season will open at noon September 16 and end November 1. The second portion begins December 23 and ends January 14. Limit is 12 birds daily.

Twelve quail may be taken daily. The season runs from November 20 to Feb. 28. Raccoon and opossum may be hunted from October 14 through Feb. 28. Limit is one person or two per hunting party.

There will be a special eight-day season for early migrating teal from September 17 through Sept. 25. Limit is four a day and shooting hours run from sunrise until sunset.

The state waterfowl season will be set in August and depends on allowable total days specified by federal authorities.

1978-79 Deer Hunting Schedule

DATES	WEAPON	SEX	HUNTERS
14-15 Oct 78	Archery	Either	Military & Guests
21-22 Oct 78	Archery	Either	Military-Civilian*
28-29 Oct 78	Archery	Either	Military-Civilian*
4-5 Nov 78	Archery	Either	Military-Civilian*
11-12 Nov 78	Archery	Either	Military-Civilian*
18-19 Nov 78	Gun	Buck	Military-Civilian*
23 Nov 78	Gun	Buck	Military & Guests
25-26 Nov 78	Gun	Buck	Military-Civilian*
2 Dec 78	Gun	Buck	Military-Civilian*
3 Dec 78	Gun	Buck	Military & Guests
9-10 Dec 78	Gun	Buck	Military-Civilian*
16-17 Dec 78	Gun	Buck	Military-Civilian*
23 Dec 78	Gun	Either	Military & Guests
30 Dec 78	Gun	Either	Military-Civilian*
6 Jan 79	Gun	Either	Military-Civilian*
7 Jan 79	Gun	Either	Military-Civilian*
13 Jan 79	Gun	Either	Military-Civilian*
14 Jan 79	Gun	Either	Military & Guests
20 Jan 79	Gun	Either	Military-Civilian*

* Dates when Arsenal portion of Wheeler National Wildlife Refuge will be open for deer hunting only to a 50-50 ratio of military-civilian participation.

Volunteers needed to help administer hunts

The Army is looking for a few volunteers — military and civilian — from among arsenal hunters willing to help with the work in the hunting operation this season.

Their use is authorized in the new post hunting regulation that brings hunting into line with recent changes to improve arsenal security. The study that led to the new reg found that administering the hunting program was tying up many people — primarily MPs — and that too has been changed.

The volunteer helpers will be used on morning or afternoon shifts as needed, primarily during the busy weekend and holiday deer hunts, to assist the staff of the Outdoor Recreation Center. Volunteers could check hunters in and out, issue

hunting area authorizations, answer questions, weigh deer and record information on game taken for record purposes. They will not handle money, issue licenses or arsenal permits or have any role in enforcement of game laws or post regulations.

Persons eligible to work as volunteers include soldiers, retired military personnel, civilian employees of the Army and NASA and government contractors authorized to enter the arsenal who have vehicle decals and security badges.

Military volunteers who work regularly

will get preference in the assignment of hunting areas. Civilian volunteers will be allowed to hunt but cannot take guests.

Individuals who wish to apply must do so in writing, stating their experience and qualifications. Applications should be delivered or mailed to the MIRCOC Public Affairs Office, Rm A-126; Bldg. 5250, Redstone Arsenal, Ala. 35809. Closing date for applicants is August 18.

Final selection of volunteers will be made by the Deputy Post Commander. The new reg authorizes him to pick 12 volunteers.

Rugby, anyone?

An effort is underway to introduce the English game of rugby to the local sporting scene and a call is out for persons, military and civilian, who may be interested in taking an active part.

Players, coaches and officials are all needed at this time. A basic knowledge of the game would be helpful, but is not absolutely necessary.

Persons interested in obtaining additional information may contact Jerry Willis at 533-3778.

Surplus sale set

The Defense Property Disposal Service at Redstone has slated a local spot bid sale of surplus government property for Thursday, August 3, at the Rocket Auditorium.

The sale is open to all. Registration is scheduled to start at eight a.m. and the sale an hour later.

Items being offered for sale include: typewriters, calculators, adding machines, electrical and electronic parts, air condition units, counter tops, sinks, cooling towers, sedans and pickup trucks.

The property is located in building 7426 and at the Property Disposal vehicle yard and Warehouse Road. Inspections are authorized daily, starting July 27, between the hours of eight a.m. and three p.m.

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8th S.C.	14	6	1½
Co. B	14	6	1½
95th SVC	10	11	6
5th S.C.	8	12	7½
HHC Mircom	7	13	8½
7th S.C.	5	16	11
EOD	3	18	13

EAST

	W	L	GB
291st MP	17	3	—
6th S.C.	14	6	3
4th S.C.	14	6	3
Marines	14	7	3½
Meddac	13	7	4
Co. C	6	15	11½
Air Field	5	16	12½
Miradcom	4	17	13½

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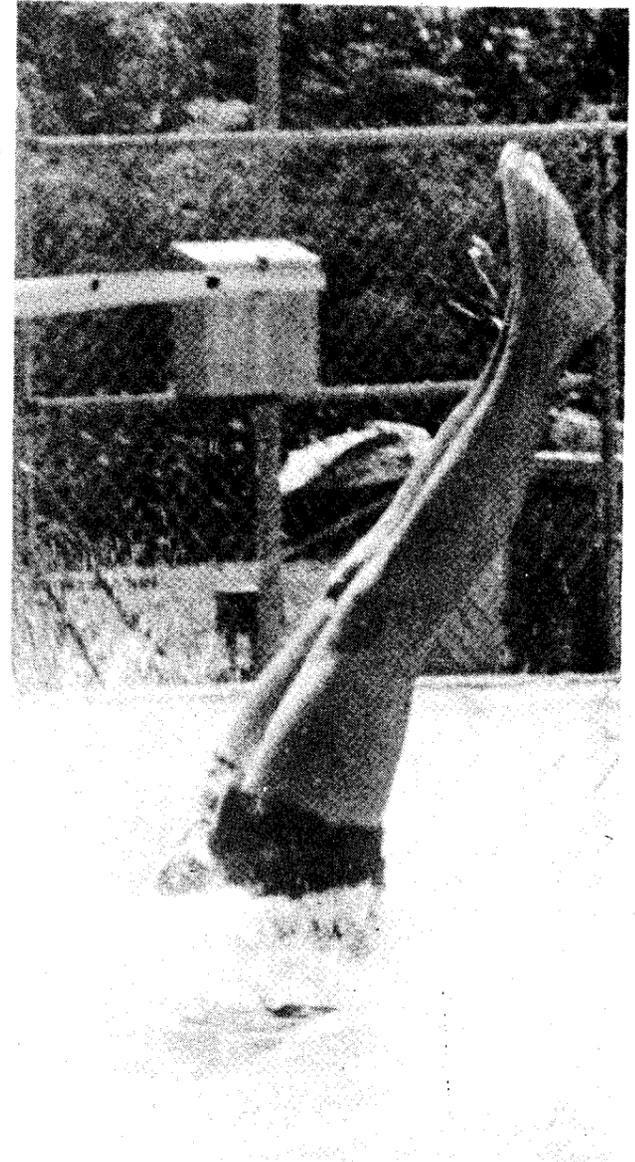
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**Where did the pool go?
Rowden wonders**



Story by Ray Rowden; photos by Phillip Barden

It all started when I was nine years old. Half the kids on my block were splashing around in the YMCA pool; beating the heat, enjoying summer vacation and giving our mothers a much needed rest.

A playmate dared me to perform an awesome act of bravery — to jump off the diving board. Immediately recognizing the life or death risk that involved, I invoked the first rule of dare-taking; "Darers go first!"

He did — and amazingly he survived. Naturally, he was overjoyed. I was terrified. My only choices were to plummet to my death from the dizzying height of nearly four feet or back down from a dare. I chose death with honor.

But I survived. In fact, by the end of the afternoon, my friend and I survived hundreds of times. And I was hooked — a slave to the springboards.

In following summers and between horrendous belly-flops and back-slappers my personal list of dives expanded — jackknife, swan, forward flip, backward

flip, cutaway, and a one-and-a-half.

At first, just doing the dive, completing the necessary mechanics, was a joy. But then came the glorious day when artistry dawned on my diving horizons.

In the brief period between leaving the board and entering the water some people create art. They become living sculpture. Like ballet dancers or figure skaters, their movements communicate ideas of grace, power and speed.

The challenge changed. Instead of adding another turn or twist the goal was to add a feeling. Modesty (not to mention an editor with a penchant for accuracy) forces me to report only limited success.

However, even if I haven't become one of the world's greatest divers, I still enjoy it tremendously. Additionally, I'm more appreciative of the dives other people are doing.

And that's a comforting thought. For although age may one day rob me of timing and agility, I think the appreciation will last. Not to mention the memories.

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MG Street speaks to AUSA

By **BOB HUBBARD**

The Army is on the threshold of new technology that will enable soldiers, even those less skilled, to accomplish more sophisticated battlefield jobs, a senior Army air defense officer told a Huntsville audience Wednesday night.

"Some people say that in Patriot we have produced the most advanced weapon yet designed," said Maj. Gen. Oliver D. Street, III, "a system so smart that it's able to diagnose its own problems and repair itself."

Patriot, and the new technology evolving with its development, "... will solve many of our problems in future sophisticated battlefield environments," said Gen. Street, Patriot Project Manager in Huntsville Research Park. The Army's new air defense system is now in engineering development.

Street's remarks were made at the annual meeting of the Tennessee Valley Chapter, Association of the U.S. Army, which also elected and installed new officers for the coming year. The new slate includes Walter Jackson, President; Jack Risse, 1st Vice-President; Al Boguish, 2nd Vice-President; Dr. William May, Treasurer; and Jane Robertson, Secretary.

After showing the audience a film of Patriot in action, including missile launches, trackings, and intercept of a full-scale

Soldier of month leads flag pledge

Members of the Tennessee Valley Chapter, AUSA, saw a soldier of the month in the flesh at their last meeting. In fact he led the pledge of allegiance for the group. His name is Pfc William Kelley, Instructor in Hawk at MMCS, who won the honor in June. The AUSA chapter has long supported the SOM project with savings bonds and memberships to the chapter.

Kelley also participated in a function not accomplished by many Redstone top enlisted. He was with General John R. Guthrie, CG DARCOM, as he reviewed the troops during the retirement parade in June.

Additionally, Kelley spent the traditional week end in Huntsville as guest of members of the Huntsville-Madison County Chamber of Commerce.

F-102 fighter which was demolished by a direct hit, Street told the AUSA members and guest that "... you've just seen a system that has performance a hundred fold greater than the Army has done in the past.

"But tonight I want to talk about what you didn't see in Patriot, what's inside it, what's an integral part of it, and what can provide us one of the greatest assists in reducing our problems interfacing the man with the environment.

"I'm talking about the computers and test equipment in the system, the monitoring and calibration equipment, as well as those operational assistants, and threat immunity, to the operator. I say the Army is on the threshold because we have yet to recognize the full potential of what's inherently available to us. Obviously, we must if we are going to assist those young soldiers in accomplishing their jobs in a sophisticated environment."

Patriot, a system 16 years in the building, features mile of memory tapes and more than 3,000,000 transistors.

"With this system, we have the opportunity for the computer to do the deductive thinking, the calibrating, and monitoring that's necessary to keep the system operational," Street explained. "The computer can assist in isolating problems and tell you how to solve them and that's a tremendous step forward. That means we don't have to train a man to be an engineer, an electronics expert, know how to use mathematic equations or calibrate.

"It means we can use a less skilled individual to do a sophisticated job because, for once, we're giving him the tools to assist him."

The new technology won't come easily because it does create change and attacks institutions that have existed for years, the general warned.

"It attacks experience that we've had in the past which says no, you can't do it this way, you can't put that much reliability and faith in a piece of hardware, in a computer." Then the general quoted Teddy Roosevelt:

"But it is not the critic who counts; not the



MAJ. GEN. OLIVER D. STREET

man who points out how the strong men stumbled or where the doer of deeds could have done them better. The credit belongs to the man who is actually in the arena."

Looking at the audience, Street said "... I want to assure you there are people in the arena all over this post who are trying to realize the threshold that we've discovered."

Again, quoting Calvin Coolidge that "nothing can take the place of persistence," Street concluded:

"I just wanted you to realize that we're on the threshold of something new and vast, and it is being pursued diligently by the United States Army."

At the same meeting, Landa Casteel, a secretary in the RSI Office of MIRADCOM's Plans and Analysis Directorate, was named "Ms. AUSA" of the Tennessee Valley Chapter for recruiting the most new members and will go the national convention in Washington.

Miss Debbie Kelley, Miss Alabama Teenager 1978, whose mother Betty works in MIRADCOM's Product Assurance Directorate, was a special guest and sang the national anthem.

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Physicist seeks more stable optical systems

By DOMINIC AMATORE

What better name for a research physicist specializing in optics than Bob Light?

Light works in the Guidance and Control Directorate of MIRADCOM's Technology Lab, applying his knowledge of optics to missile guidance and fire control systems. He also has another job: heading a Missile and High Energy Laser Research Program seeking ways to produce more efficient optical systems.

"Optical systems in military weapons get quite complicated, with many pieces of glass," said Light. "These systems must be 'bore-sighted': aligned so that they're all looking at the same target. This is hard to do, primarily because the systems are so complex. We're trying to improve bore-sight stability by minimizing the pieces of glass in our system. One way to do this may be by using gradient index lenses."

Gradient index optical lenses

Light explained that a typical lens consists of more than one piece of glass. A single piece of glass cannot focus all colors in a light ray to the same point. Also, rays at the outer edge of the lens are refracted, or bent, more than rays at the center of the lens, and thus focus closer to the lens than the latter. As a result, a single piece of glass projects a blurred, poor quality image.

In order to get a quality image, Light continued, a conventional lens combines two or more pieces of glass, each with a different index of refraction characteristic. That is, each bends a light ray a certain way. By meshing these different pieces, all light rays passing through the lens are focused at one point and the desired image is attained.

"But a multiple-piece lens is heavy, awkward, expensive and difficult to keep in alignment," said Light. "If we could change the basic properties of a piece of glass, so that its influence on a light ray changes as it goes out from the center of the lens, and so that it focuses all colors in the ray to the same point, that single piece of glass would function as a lens and eliminate many of our problems."

A gradient index lens does just that, said Light. Instead of having a uniform index of refraction characteristic, so that it affects light rays uniformly throughout its thickness, this lens consists of layers, or gradients, each with a different index of refraction characteristic. These layers refract light rays passing through the lens in such a way that they all focus at the same point.

National expert consulted

Light said he has enlisted as a research consultant the nation's foremost expert on gradient index lenses, Dr. Duncan T. Moore of the University of Rochester's Institute of Optics.



Bob Light, left, explains the workings of an airborne precision laser designator to Dr. Duncan T. Moore

"Right now I'm looking at the problems of applying this new technology to the military's visual and infrared optical systems," said Moore, who visited Redstone recently to study Army optical systems and to brief scientists here on gradient index lenses.

The potential advantages of using these new lenses are many, said Moore.

"For one thing, they could be produced much more cheaply than conventional lenses," he said. "A three-element lens—that is, a lens consisting of three pieces of glass—costing \$700 to produce can probably be made for under \$50 as a gradient lens."

According to Moore, a gradient lens can be produced more cheaply than a conventional one because it doesn't have to be ground. "Sixty percent of the cost in producing a lens is the labor involved in grinding and polishing the lens surfaces and 30 percent of the cost is mounting," he said. "Producing gradient lenses, we avoid these costs while increasing the material cost only slightly."

Moore said that since the lenses have not been mass produced, it's difficult to know exactly how much of a cost reduction their use would result in.

Greater accuracy

Gradient lenses are also more accurate than conventional ones, said Moore. "They have certain image-correcting capabilities not otherwise possible. Specifically, they help correct off-axis aberration—errant focussing of light entering at the fringes of the lens—with relative ease compared to conventional lenses.

"A lot of lenses used in laser systems we can make a lot better," he said.

Moore is also investigating possible use of another kind of gradient lens, which is simply a flat piece of glass. Instead of having different index of refraction characteristics throughout its thickness, this lens has them on its surface, in concentric circles radiating outward from its center.

"This lens can be achromatized at all wavelengths; the other correctly focuses different colored light at only one wavelength," said Moore.

Another advantage of this lens is that it can be athermalized, or made temperature resistant, added Moore, noting that extreme heat or cold is a primary cause of optical systems falling out of alignment.

Temperature resistance, together with reduced weight and ease of handling, make the various gradient lenses well suited for military applications, according to Moore.

"By using gradient index lenses, we can reduce the complexity of Army optical systems and make them better suited to a field environment," he said.

Other research underway

Light is also considering ways to develop better optical systems and is consulting with other experts.

"We're searching for athermalized optical materials to use in our systems to make them more stable," said Light. "Dr. Richard A. Buchroeder, a research associate at the University of Arizona's Optical Sciences Center, is working with us on this project.

"We're also applying finite element analysis, a structural analysis technique used by structural engineers, to transparent objects to see what happens to them under thermal stress. Dr. Allan J. Malvick, also of Arizona's Optical Sciences Center, is the consultant."

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Top man

(From front page)

man. He was commissioned a lieutenant in the Ordnance Corps in 1954, after completing Officer Candidate School at Fort Benning, Georgia.

He has had assignments in conventional ammunition at Fort Dix, New Jersey; Special Weapons in Germany and at Aberdeen Proving Grounds, Maryland. In 1964, he served as the Senior Ammunition Advisor, Military Assistance Command, Vietnam. He was Chief of the Munitions Branch, US Army Pacific in Hawaii in 1968-69. In 1970-71, he commanded the 196th Ordnance Battalion in Okinawa. He served at the Pentagon during 1972-74 where he was the Executive Assistant to Lieutenant General Fred Kornet, the Deputy Chief of Staff for Logistics, U.S. Army. During 1975-

76, he held the position of Executive Officer to Lieutenant General Eugene D'Ambrosio, the Deputy Commanding General for Materiel Readiness, Development and Readiness Command in Alexandria, Virginia.

Colonel Foradori received a Bachelors Degree in Military Science from the University of Maryland and a Masters

Degree in Business Administration from Syracuse University. He is a graduate of the U.S. Army Command and General Staff College and recently completed the Industrial College of the Armed Forces.

He is married to the former Dorris Dillenbeck of Black River, New York and has eight children; four daughters and four sons.

Personnel evaluation instructions coming

The new Civilian Personnel Performance Evaluation System will be implemented on October 1. As part of this system, new DA forms are required to replace DA Forms 1052, 1053 and 1053-1. The MIRCOM Civilian Personnel Division (CPD) has not yet received the new forms or instructions on filling them out.

CPD representatives will attend orientation sessions on the new evaluation system at DARCOM headquarters during August. They will brief and train super-

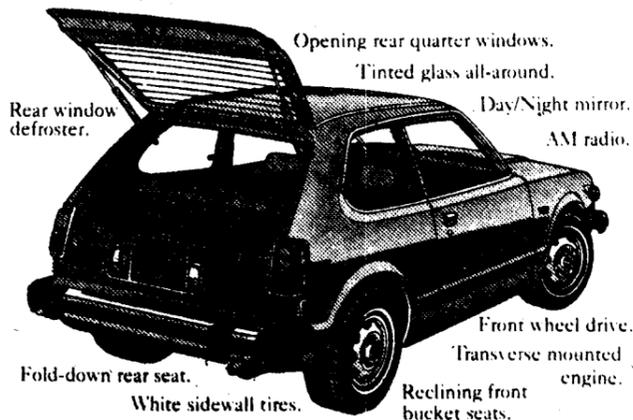
visors and managers in local commands after the orientation.

Supervisors and managers should not process any DA Form 1052s due after September 30 until they receive further instructions. Performance appraisals due in November this year will not be distributed at this time.

If there are any changes in the October 1 effective date for the new system, CPD will inform all personnel concerned.

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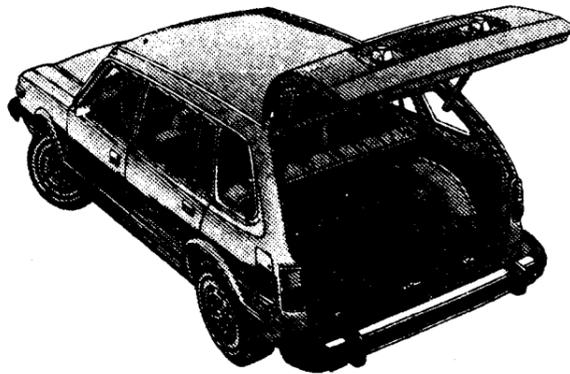
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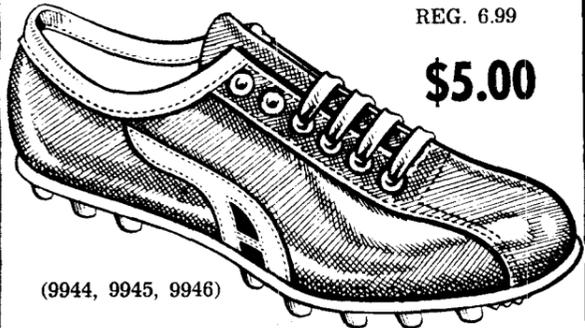
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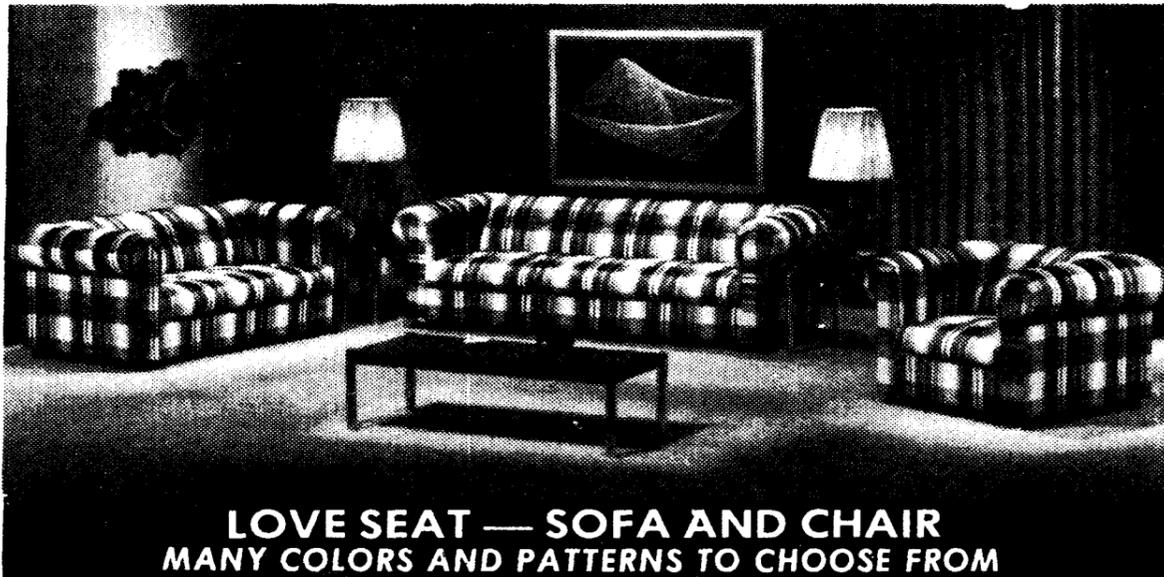
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Upward Mobility carries former clerk to success

Two-and-a-half years ago Lois Wilson decided it was time for a change.

She was a clerk-stenographer with the Literature Support Division of the Training Development Directorate at the Missile and Munitions Center and School. She decided she would rather be a training specialist with that organization.

Now she is — the fourth MMCS employee promoted through Upward Mobility since April, 1977. Her duties changed from filing and typing to writing munition training literature, including field manuals, training extension courses and the Missile and Munitions Bulletin.

"I knew I'd be working for civil service for 26 more years and decided I might as well make the most of it," said Wilson. She considered many factors, including the probability of promotions. "About the highest I could expect to go as a clerk-steno was GS-6, whereas the 1712 field (education and training) has positions up to GS-13. And I'd definitely say that being a training specialist is more challenging and rewarding than working in the clerical field."

Wilson was promoted from GS-4 to GS-5 upon entering the 1712 field and can look forward to reaching the GS-7 level in a year. She said, "I wouldn't have gotten into the field without the Upward Mobility program. It stirs everyone's consciousness and keeps them thinking about your potential."

She named the tuition assistance, counseling and help in getting on-the-job training as the most helpful areas of the program. Wilson added, "The program's emphasis is on the individual. You have to be assertive and let people know what you want."

Wilson said it helps to have a good supervisor. "You have to create your own program plan, present it to your supervisor and ask for his assistance. I guess I've been lucky — I've always had excellent supervisors." Although she is hesitant to admit it, she also has a large measure of ambition and determination.



Lois Wilson: up the ladder

The former clerk-steno sees preparation as the key to the Upward Mobility program. In her case, preparation included attending Calhoun State Community College for two years majoring in secondary education, attending the ammunition specialist course here and all the detail and OJT assignments she could collect.

She said, "You have to let the supervisors know you're willing to learn. Whenever something that deals with the job you want needs to be done you have to say, 'Hey, let me try it.'"

By aggressively seeking the training she needed, she noted, "I reached a position where the organization needed by skills." Wilson said choosing the right career field is

important. "There are more 1712 job positions in MMCS than any other field and it's much easier to get the OJT and detail time than in fields that offer only three or four positions."

Wilson recalled her initial interview for the Upward Mobility program saying, "The interviewer asked what grade I was seeking and I replied GS-13. He laughed and said, 'But you have to start somewhere.' I said, 'Of course, but you don't have to stop.'"

That is the attitude that took Wilson to her current position and will probably keep her moving up.

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School suggestors get \$1,000 award

Two MMCS soldiers have divided a \$1000 suggestion award they received for a device that the military has very little use for. However, no one is complaining.

While assigned as instructors in the Hazardous Devices Division, Sergeants First Class Daniel F. Brennan and Fred A. Sprague, III developed a device that has probably saved several lives and probably many thousands of dollars in property already.

It is called the Brennan-Sprague Disrupter and it is in almost daily use by bomb technicians throughout the U.S. and in several friendly countries. An inexpensive tool (costing about \$3), it gives bomb technicians a safe, proven method of disarming many kinds of improvised explosive devices.

The military Explosive Ordnance Disposal units already had a disrupter, but it was not available to their civilian counterparts. Disrupters which are available are also too expensive for many small law enforcement agencies (ranging from \$300 to \$500).

The one military unit that uses the device frequently is the Hazardous Devices Division here. Their job is to train bomb technicians and investigators associated with various law enforcement agencies, and every student learns to make and use the Brennan-Sprague Disrupter.

The official suggestion evaluation states, "For the first nine months of 1977 (the disrupter was being used at this time—Ed.), 17 lives were lost, 122 people were injured, and 6.6 million dollars of property damage was caused by bombs. For the similar period in 1976, 44 lives were lost, 180 people were injured, and 10.3 million dollars of property damage occurred.

It cannot be conclusively stated that the disrupter was totally responsible for the decline in 1977, but it was certainly a contributing factor."

Brennan explained that money was not the motivation for their many hours of development and testing. "By the time these people (the bomb technicians) finish a course here, we're all friends. We don't like to hear about them getting blown up because they didn't have the tools to do the

job. The disrupter is like a gift to a friend."

The suggestion evaluation summary states, "Through their efforts the developers have rendered a very valuable public service to all citizens of the United States." The suggestion award granted each man \$500.

Meeting notice

The NCO Association has changed the date of meetings beginning with the next regular meet, August 4. The dates will be on the first Friday of each month at 6:00 p.m. in the NCO Club.

A special election to fill vacancies will be held at the next meeting. All trustees should be present.

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COURSE SCHEDULE — EARLY FALL TERM (August 30 — October 25)

11-571	Radar Systems	MW	4:30-6:40	Gilbert
11-644	Guided Weapon Control Systems	TT	4:30-6:40	Pastrick
17-514	Computer Data Structures	MW	6:50-9:00	Covelli
17-544	Computer Hardware Organization	TT	4:30-6:40	White
17-624	Interactive Computer Graphics	TT	6:50-9:00	TBA
21-691	Consequence Analysis	MW	6:50-9:00	Jackson
24-511	Marketing Theory and Practices	TT	6:50-9:00	Psihas
24-534	Federal Financial Management	TT	6:50-9:00	Taylor
24-795	The National Economy	Arranged		Psihas
27-671	Research and Development Management	MW	4:30-6:40	Jackson
31-541	Modern Engineering Analysis	MW	6:50-9:00	Watson
34-547	Laser Fundamentals	TT	4:30-6:40	Roberts
34-691	Optical Processors	MW	4:30-6:40	Poulsen
90-621	Master's Project	Arranged		Staff
90-711	Doctoral Research (DSc)	Arranged		Staff
90-721	Demonstration Project (DBA/DPA)	Arranged		Staff

TENTATIVE COURSE SCHEDULE THROUGH JUNE 1979

LATE FALL TERM (Oct. 26 — Dec. 21)

11-561	Infrared Systems
11-614	Microwave Electronics
17-501	Computer Methodology
17-647	Computer Architecture
17-691	Requirements Language
21-611	Management Responsibilities & Practices
21-614	Organization Development
24-551	Government Contracting
24-795	Modern American Federalism
27-631	Reliability and Maintainability
31-501	Quantitative Methods for Managers
31-544	Mathematics of Signal Analysis
34-691	Laser Beam Propagation

WINTER TERM (Jan. 2 — Feb. 26)

11-621	Nuclear Effects on Electronics
11-671	Advanced Radar Systems I
14-547	Missile Aerodynamics
17-571	Computer Program Development I
17-691	Distributed Data Processing
21-621	Management Decision Making
21-691	Conflict Management
24-634	Federal Managerial Accounting
24-795	The Free-Enterprise System
27-544	Cost Estimating Techniques
31-617	Applied Stochastic Processes
34-649	High-Energy Lasers
90-701	Research Methodology
90-704	Research Proposal Development

EARLY SPRING TERM (Feb. 27 — Apr. 30)

11-672	Advanced Radar Systems II
11-684	Digital Processing of Signals
17-547	Microprocessors and Microcomputers
17-691	Algorithm Analysis and Design
21-642	Psychology of Abnormal Behavior
21-691	Information Management
24-637	Business Financial Environment
24-795	Human Resources Conservation
27-614	Government Contract Law
31-521	Operations Research Techniques
34-561	Nuclear Weapons Phenomenology
34-691	Laser Radiation Effects
34-691	Fiber-Optic Systems

LATE SPRING TERM (May 1 — Jun. 25)

11-681	Signal Processing
11-641	Advanced Control Systems
17-501	Computer Methodology
17-644	Computer Telecommunications
21-617	Policy Formulation and Evaluation
21-641	Human Behavior in Organizations
24-795	Legislative Processes
27-671	Project Management
29-611	Business Legal Environment
31-661	Numerical Computing
34-541	Contemporary Optics
34-691	Optical Systems Design

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