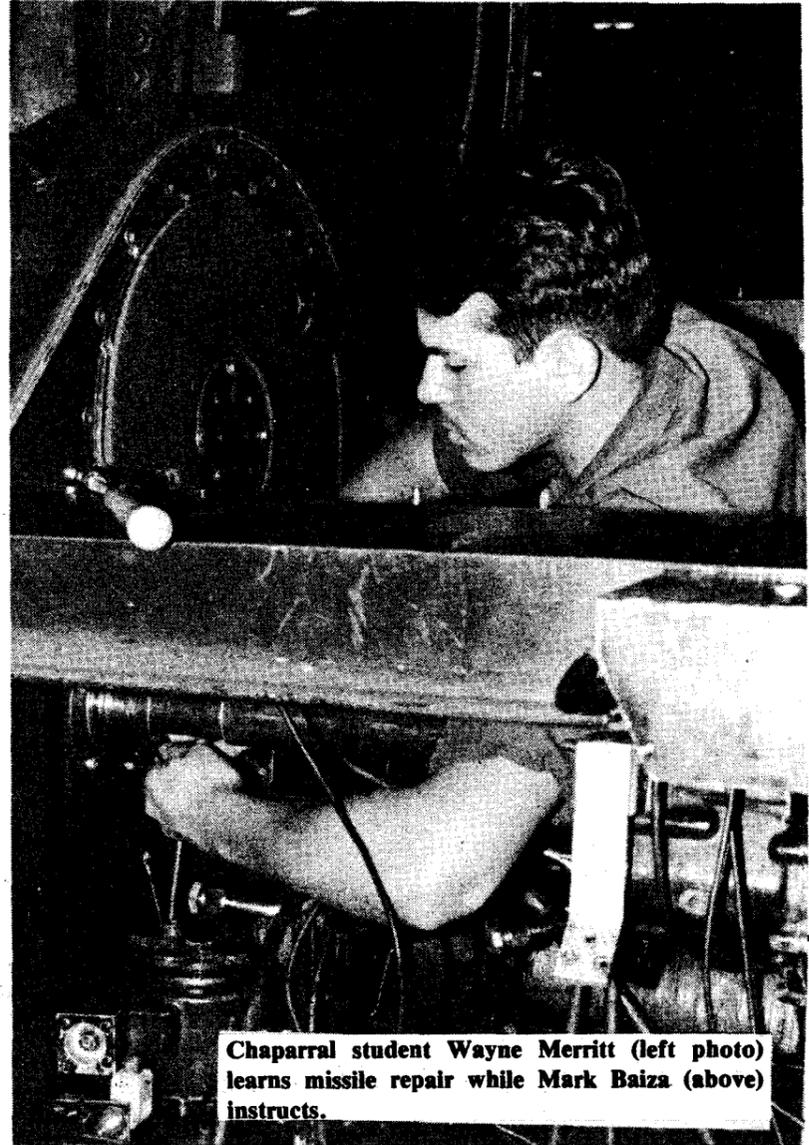
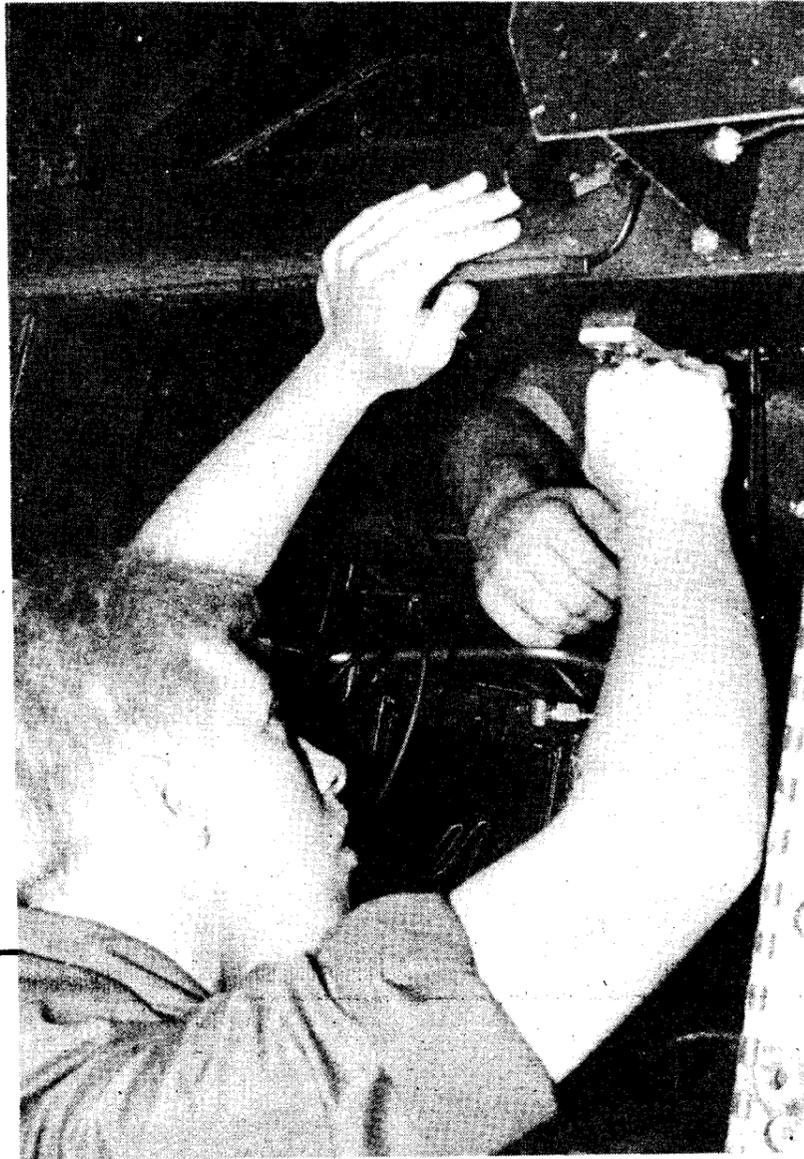


The Redstone Rocket

SECTION TWO — OCT. 4, 1978



Chaparral student Wayne Merritt (left photo) learns missile repair while Mark Baiza (above) instructs.

MMCS reorients program to fit EPMS

By SP4 LARRY PAUL

When the Army-wide Enlisted Personnel Management System (EPMS) was instituted in 1975, the various Army training schools had to reorient their programs to meet the requirements of that system.

Since that time, the Missile and Munitions Center and School (MMCS) has implemented many new resident courses along with Soldiers Manuals, Commanders Manuals, and various other documents which aid the soldier in the field to achieve and maintain proficiency in his in her MOS.

One of the most significant EPMS directed documents is the Skill Qualification Tests, which parallels fully the new course content, and assures a measure of MOS proficiency.

"The impact that the new overall training program will have on the Army is going to be dramatic," commented Colonel Cyrus Brocato, Director of Training Developments, "but, it's like a glacier: it moves slowly, yet has a lasting effect."

At present, many changes have been incorporated into the school program here, but some are still being developed for full implementation in the next couple of years.

However, even after implementation, it will still take time for the quality of

readiness in the field to be enhanced to any measurable degree.

"It will probably be two years before we feel the impact the new training process will have on Army-wide readiness," said Mr. Edward (Don) Lowry from the Training Management Division, Director of Training.

"By then," he continued, "the students from our initial new courses should be in maintenance positions presently filled by soldiers from the old school."

A number of the new courses are in the self-paced format which maximizes use of audio-visual aids and self-paced lesson texts for instructional purposes. This replaced the podium style classroom instruction called 'Lock-step,' which was previously in vogue.

According to both Brocato and Lowry, the various courses taught at MMCS will give the new soldiers a good all-around foundation they will need to be effective in their new jobs.

Using the Land Combat Department, which uses mostly self-paced instruction, as a guide, it was found that the students learn more than just their school lessons. They are also taught other valuable lessons in the art of being a good soldier and individual.

"This organization is being paid to train men into soldiers," said Major Larry Jarvis, chief of the Land Combat Department, "and the only way to do that is to make that person feel like a man and show him that being a soldier is something to be respected."

Jarvis went on to say, "The average student in this school has not completed high school, comes from a low-income family, and has joined the Army to try and find himself."

"In order to train this type of soldier, you must motivate him to believe in the oath he gave upon entrance into the Army, and make him an active member of the school."

"For example," he continued, "when we get students who have extra time before their classes start, we get them to improve the school area. Like right now some students are repainting and cleaning a room to make it into a study hall for their class when it begins. This helps give the new students a sense of belonging and pride in the school."

While talking to Specialist Five Charles Womack, an instructor with the Basic Electronics course, it was learned that

(Continued on next page)

MMCS

(From front page)

MMCS's role in Army Readiness is immense.

"I think MMCS plays a big role in Readiness. Here, we teach the students the things they'll need to know to fix a downed missile. And with this training, they should be able to fix a malfunction quickly, and that keeps a unit's state of readiness up."

"If a piece of equipment can be fixed at either the General or Direct Support level," Womack continued, "it keeps the readiness level up. It would drastically affect a unit's readiness status if all the overseas equip-

ment had to be sent back to the States for repairs."

Another instructor, Specialist Five Rollie Porter, added some insight about his role as an instructor and the impact it has on readiness. "You take a new student," Porter explained, "and say the instructor is mediocre. The student passes the course due to the unchallenging instructor. When that student gets to the field, many times he becomes disillusioned about his job and duty, and this affects the uni's readiness."

"If the student is doing his job for himself and the Army, not just for the Army, then you've got a better soldier!" he continued. "As an instructor, I like to make a student feel his job is important to himself and the Army. If the student can be motivated, he'll be that much more effective in the field. And this plays an intricate part in Army Readiness."

Well, that's all good and well for the Chain of Command, but what does the student himself feel about the training he's receiving?

According to Vulcan repair student Private Joe Stone, "From what I can see at this school, we learn how to trouble shoot a piece of equipment quickly and efficiently."

Although Stone is presently in the basic electronics class, he has some insight as to what he'll be studying next. "After this course, I'll be learning about soldiering. Through this class, I'll be able to soldier a circuit card myself, without having to call someone else in."

He added, "This in turn will keep a unit's readiness up in a quicker time span."

Another student, Private Wayne Merritt, who is presently enrolled in the Chapparral course said, "Through this training here, I think I'll make a positive impact on Army Readiness."

When questioning him on the effects the school as a whole has on Army Readiness, Merritt said, "I think the resources we have here are fantastic. They have everything you need to help you learn your job. This school definitely has an impact on Army Readiness."

He explained this statement by saying, "Without trained people in the maintenance field, a unit's readiness would definitely be affected."

"Ninety per-cent of the people I've seen graduate from here are ready for their job. They've been motivated and taught well," he commented. "I've seen some people try to slide through a course, but they usually get caught, and either learn the whole process again or they get canned," he added.

But acting Corporal Kenneth Johnson, a Vulcan student, probably summed up MMCS's role best. "The work that I'm doing here is vital to the Army's defense. The training I'm receiving here is really good, from the instructors to the lessons. I'm definitely learning about my job, electronics, and soldiering."

He continued, "I think self-respect and confidence are a big part here at the school. And without them, how are you going to do your job?"

"If you're ready mentally and physically, you're ready to do your job, and that has an impact on the readiness of the Army!" he added.

But as instructor Porter said, "The student will only be as good as the instructor."

And from what various people connected with the school had to say, the instructors are some of the best qualified the Army has in their respective fields.



PVT Cornell Thompson gets some first hand help from his instructor Mr. Royce

Waldrep. Thompson is a student with Transistor Circuit Team at MMCS.

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Planning now to train tomorrow's soldiers

By RAY ROWDEN

"Everything we do here is geared for wartime," Donal C. Maliskey, Supervisor of Training Specialties in the Directorate of Combat Developments at the Missile and Munitions Center and School.

As the proponent agency for missile and munitions activities, MMCS is involved with the development of an amazing variety of items. These subjects range from studying the maintenance and logistic support of new missile systems, to the reorganization of personnel and equipment of field units.

Taking up a pencil and pad, Maliskey jotted "CD", and explained, "Combat Developments is like the lead horse for the school. We're usually the first to study a new subject. If our findings are approved, the matter is usually passed on to Training Development so they can determine the training needs and develop the training materials." As he talked, he drew a quarter of a circle and jotted "TD."

Maliskey continued the pencil's arc through another fourth of a circle and added "DT." "The next key point is the actual training of people by the Directorate of Training." He added another arc and "E." "The Directorate of Evaluation can enter the circle at any point to make sure the work is doing what is needed. If it's not, they come back to us," he said as he completed the circle with a fourth arc. "It's a continuous process."

Although current systems are also studied, Maliskey said, "We are generally working in areas that haven't been put into the field yet." Their current projects include the Patriot missile system, the Roland general support rocket system and the Divad gun.

He added, "We just completed a study on Munitions Systems Support Structure which provides doctrine and structures needed to meet the Army's needs in the 78 to 80 time fram."

Among the proposals the study developed is a blueprint for the organization of Ammunition Transportation Points within divisional units. The ATP's inventory would be fitted closely to the unit's munitions needs and according to Maliskey, "Puts ammunition support much closer to the users than before."

He added that many field commanders have already organized ATPs as part of their supply and Transportation Battalions. "This way, rather than going all the way back to the Ammunition Supply Piont they have something in the brigade area."

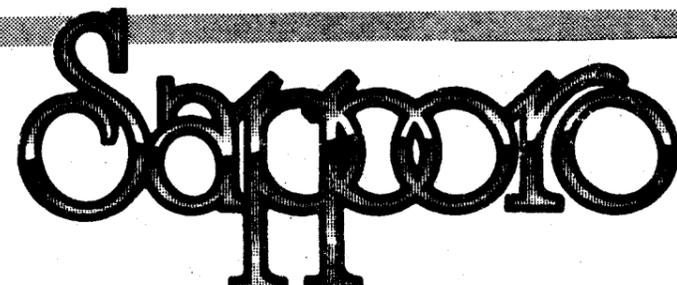
The directorate is still involved in an extended study of munitions systems support structures that will determine doctrine and structure requirements through the mid-1980s.

In the Directorate of Combat Developments the Army's present and future state of readiness is not a goal — it's their job.

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Lance's gaseous distress cured by prescription

By BOB HUBBARD



What's good for heartburn and a sensitive upset stomach should be good for a 'hot' missile. Right?

So ingenious engineers in the 1960s gave Lance a good dose of bicarbonate prior to flight tests at White Sands Missile Range, N.M., and the battlefield missile flew missions with scarcely a burp . . . er, without a hitch!

A decade later, Redstone Army missile experts can laugh about the problem that once plagued Lance, renowned today for its accuracy, readiness and reliability and deployed around the world with 18 U.S. and allied battalions.

Bob Lee, group leader with the Lance Technical Management Division, recalls the ingenious, if novel, home remedy and the early days when the problem was anything but funny.

"Back in the mid-sixties, when Lance was in its infancy, we began having a problem in engineering model flights with soaring temperatures which melted and burned through the propulsion tank," Lee said. That sent the Lance development team — Lance Project Office and what was then the Army Missile Command; Vought Aerospace, the prime contractor, and

Rocketdyne, propulsion contractor, along with Georgia Tech researchers — into a huddle looking for solutions.

After exhaustive tests, the team discovered that hot gases used to drive the propellant expulsion pistons were combining and reacting with leakage from the oxidizer to create the hot spot and burn through.

"We knew we had to redesign the Lance piston and seals to stop the leakage," Lee said.

Meanwhile, as a short term fix, an enterprising Georgia Tech researcher came up with the idea: why not neutralize the hot gas reaction with potassium bicarbonate?

The idea sounded great, after a few muffled snickers.

Lee said the plan was to inject the water and bicarbonate solution into the space between the pistons and tank thereby cooling and diluting the hot gases and minimizing the reaction.

It was — and it did.

"The neutralizer worked," Lee recalls, "and allowed us to continued the flight test program while we redesigned the piston and seals and subsequently solved the problem."



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TOW-Dragon team keeps user in mind

By DOMINIC AMATORE

"When you get right down to it, TOW is the first line of defense against enemy armor. If I were a TOW gunner, I would have to have confidence in the system. I would have to believe that I could defeat an enemy tank one-on-one."

The man who made that statement knows what he's talking about. He's Col. Neil Williamson, III, TOW-Dragon Project Manager. Part of his job is making sure that every TOW and Dragon gunner has a weapon he can rely on.

"We do what we do for that guy who's in the front line of armor defense," said Williamson. "We feel that there is no armor threat on the battlefield we can't defeat with TOW and Dragon."

According to Williamson and two members of the TOW-Dragon team, Major Robert J. Hueffed and Major Clarence R. Longcor, the soldiers who use their missiles may one day face an enemy with a significant numbers advantage.

"To offset this advantage we rely on the sophistication of our weaponry and the sophistication of our total system — trained soldiers, repair parts, contact team, everything necessary to stay ready in a combat situation," said Longcor.

By being ready we hope to prevent a potential enemy from attacking," said Williamson. "If they do attack, their armor will be engaged first by TOW and then by Dragon. This should eliminate a substantial portion of their forces, but if a guy is determined, he'll keep pumping junk in there, and he's got a lot of junk."

"The American soldier does have confidence in his weaponry," said Hueffed. "The TOW gunners I've talked to in Europe are extremely confident in their weapons."

Longcor added that the American soldier is well trained and thus has confidence not only in his weapon but in himself.

"The soldier will do what's expected of him," agreed Hueffed. "But without proper support, like supply parts and resupply of



Working for Readiness — Maj. Clarence Longcor, left, Col. Neil Williamson, center, and Maj. Robert Hueffed

ammunition, the soldier in the field is almost worthless. Our purpose in life is to give that support."

All three agreed that a conscious team effort is needed to support the soldier in the field properly. Every member of the team must keep in mind the end result of the team effort — helping to keep the American soldier combat-ready.

"This can be difficult to do for some people who never see the consequence of their product, who don't see a live round fired or take part in a training exercise," said Longcor. "In TOW-Dragon we make sure that our people who are removed from the first line of defense are conscious of the goal of their efforts."

Williamson agreed: "My secretary had

been typing the word Dragon for I don't know how long, and it didn't mean a damn thing to her until I took her to actually see one. Whether you're a secretary, a lawyer, are in procurement or product assurance — whatever your job is — when that piece of paper hits your desk, you have to be aware of what it's really all about.

"Some jobs seem mundane. But the entire life cycle of a missile system has to be laid out. This might sound like a paper chase exercise, but if you don't do it, when the system hits the field, it isn't supportable.

"We have to avoid the 'we-they' syndrome — we develop and they operate," said the colonel. "When the user gets the end product in his hand, that's where the rubber meets the road."

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MG Louis Rachmeler awards John Beale for his winning slogan

John Beale wins fire slogan contest

John Beale, of MIRADCOM Product Assurance, has won the Fire Prevention Slogan Contest sponsored by the Fire and Protection Branch.

Beale's slogan was "Do Your Part. . . Stop Fires **BEFORE** They Start." The Incentive Awards Committee gave him a \$25 prize for his effort, which was chosen from the 117 slogans submitted.

Major General Louis Rachmeler presented Beale with a Certificate of Appreciation in addition to his cash award.

Beale said he read about the contest in **THE ROCKET**. He made up several slogans right away, and later submitted the two he thought were best.

"Fire Prevention is something I learned about in school," said Beale. "We always had to make posters for Fire Prevention Week and try to have the best one in the school.

"I guess the idea stayed with me," he added, "but I never really expected to win."



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Major General Louis Rachmeler conducted a promotion ceremony Sunday, Oct. 1, that he called a first for him. The promotion of Chaplain (Cpt.) Frank L. Turnbow to Major was held in the Bicentennial Chapel following the 1045 worship service. Rachmeler said this was the first time he ever conducted a promotion in a chapel. He added that it was appropriate for the ceremony to take place there where Turnbow does his work. The entire congregation was invited to remain for the ceremony which was attended by Mrs. Turnbow, daughter Katherine and 13-day-old son Mark Alan.

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Noted artist designs OWC ball decorations

By EVELYN FOX
Officers' Wives' Club member

The 16th Annual Officers' Wives' Club Charity Ball Chairman of Decorations, Diane Sothoron, is delighted to have the help of Mrs. Armand Gradwohl, a noted artist from the San Francisco Bay Area. Rose, as she is known to those who work with her, was introduced to the entire Charity Ball Committee at a luncheon given by Mrs. Robert Feist, her daughter and President of the Officers' Wives' Club.

We were all so charmed by Rose we wanted to share this lovely lady with you.

Rose was born in San Francisco before the Earthquake. Her father, Lorenz Satorius, was Under-Sheriff of San Francisco at the time. She worked her way through the University of California at Berkeley, majoring in art. She married Armand Gradwohl in 1929, three months before graduation and, to her dismay, discovered that married women were not allowed to teach school in San Francisco. Lack of money gave stimulus to creativity in a variety of media and raising seven children during the Depression years remains her "best accomplishment," according to Rose.

Upon retirement in 1959, Armand and Rose bought a home in the picturesque town of Sonoma, Cal., where they built the studio

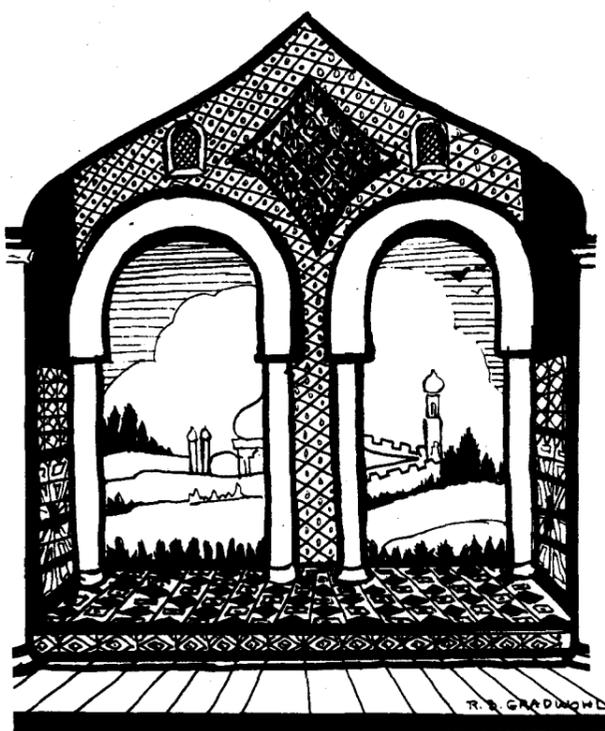
of her dreams. Rose the artist and Armand the manger and engineer — "he made my scribblings into works of art" — donated their talents to the community they adopted and loved. Calendars and note cards featuring Rose's pen and ink drawings of the vineyards, Mission and lovely older homes in the area as well as the designing and etching of thousands of wine glasses used annually for the Vintage Festival of Sonoma are to their credit. Political posters and posters advertising benefits in the area are designed and executed by Rose. Perhaps the most challenging project was to restore the imported, antique Italian Stations of the Cross for St. Francis Solano Church.

Besides having seven children, 18 grandchildren and six great-grandchildren,

with another on the way, Rose and Armand opened their studio to the children of Sonoma for a free Summer School, teaching art concepts and giving the children the opportunity to work in many artistic media. "Daddy was a Doodler" is a program Rose has developed and presents throughout the schools of Sonoma.

Redstone Arsenal and the OWC Charity Ball are indeed fortunate to "borrow" such a talented, warm-hearted, charitable lady for even a short while. She makes the world more beautiful for all of us with her talents. Poster, murals and decorations for the 16th Annual Charity Ball are all designed by Rose S. Gradwohl.

Tickets and further information may be obtained by calling Mrs. R. Keller at 837-6772. Limited tickets are available.



ARABIAN NIGHTS — This is one of several designs created by Rose Gradwohl for the Annual Officers' Wives' Club Charity Ball.

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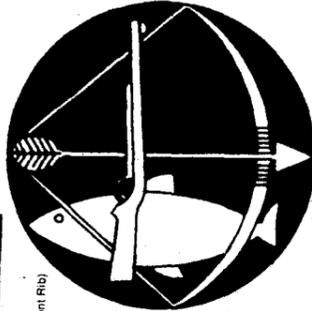
Mon.-Sat., 9 a.m.-6 p.m.
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 at Martin Road

PHONE 881-5403

Schedule for blood donors

Date	Location	Time	Coordinator	Phone
6	Bldg. 5250 (inside)	0800-1300 hours	Eileen Hallock	876-7738
11	Bldg. 3481 (inside)	1030-1600 hours	CPT Pickens	876-7303
13	Bldg. 4488 (inside)	0800-1300 hours	Shirley Sullivan	876-3221
16	Rocket Auditorium (bus)	0800-1200 hours	Gwen Sadler	876-4603
17	MSFC (inside)	0830-1230 hours	Charlie Hester	453-1077
			Carol Wasserman	453-5672
18	Bldg. 3711 (Recreation Center)	0900-1300 NO APPOINTMENT NECESSARY		
20	Bldg. 5681 (inside)	0800-1200 hours	Glyn Rosenblum	876-4381
23	Bldg. 7242 (bus)	0830-1200 hours	Barbara Chandler	876-5859
25	Bldg. 3480 South (inside)	0830-1600 hours	SGT Blank	876-6661
26	Thiokol (bus)	0800-1100 hours	Mary Cash	876-3803
26	Raytheon (bus)	1200-1500 hours	Shelby Bechtold	883-1946
				Ext. 42

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STEVENS MODEL 67 PUMP 12 & 20 Ga., Plain BBL.	88.88
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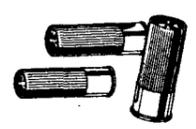
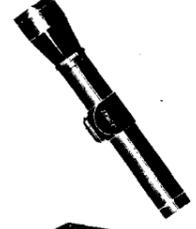
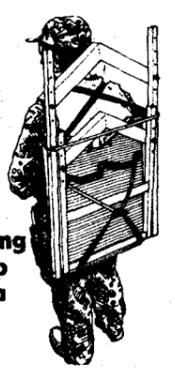
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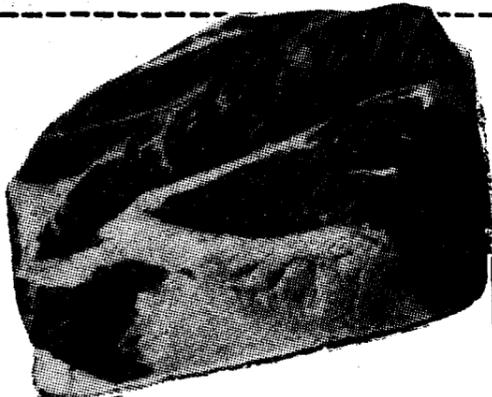
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Double
Cola
2 Liter Bottle
69¢

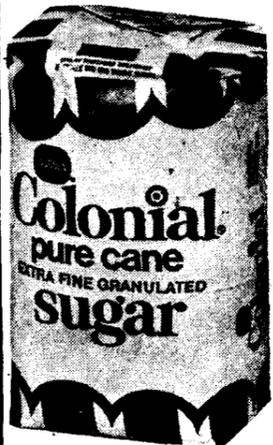
CORONET
Bathroom
Tissue
4 Roll Package
69¢

Nabisco Premium
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59¢

J.F.G.
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Quart Jar
79¢

Sunkist
Tuna
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Mother's Best
Flour or Meal
5 lb. bag
2 / \$1.00



5 lb. Bag
Sugar

57¢

Limit 1 with
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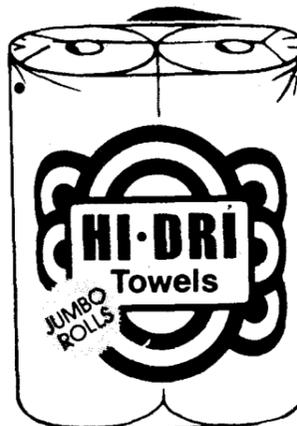


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Pinto
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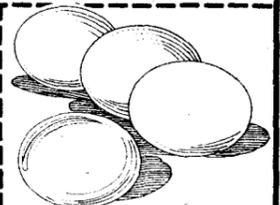


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Eggs

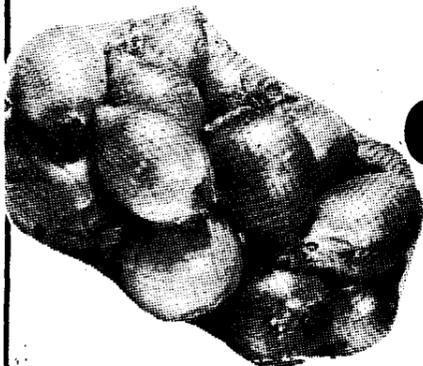
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Cactus Jack	10
Cadillacs	10
Bombers	9
Rolling Rocks	8
The Hawks	6
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Spares	4

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Burt Dempsey, 584; Bob Bates, 566; Mel Webb, 563 (212); Tom Smith 562 (210); Gene Ashley, 558 (243); Charles Turner, 557.

Wed. Officer Bowling

Swingers	26
Strikeouts	24
Lucky-Strikes	20
Nomads	18
Red Tabbers	18
Meddacs	16
MIRADCOM Maulers	15
Bushwackers	10
Exasperators	7
Blackjacks	6

SERIES (High Rollers)

Wilkerson 551, Keller 551, C. Smith 541 (201), Ogozalek 524, Sitzes 514, Fukushima 513 (209), Baasen 512, Hopper 512, Mattern 503.

Jewish Holy Days

Services for the Jewish High Holy Days of Yom Kippur are scheduled at the RSA Post Chapel as follows:

YOM KIPPUR

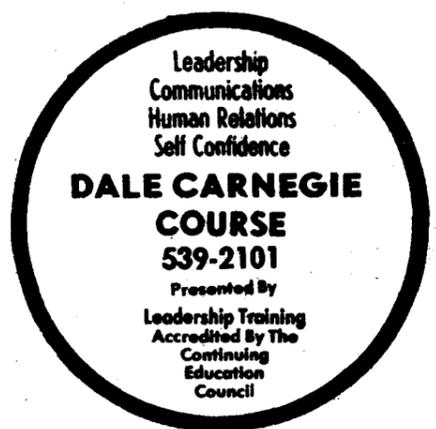
Tuesday, Oct. 10
2000 hours
Wednesday, Oct. 11
1000 hours, Morning Services
1400 hours, Children's Services
1600 hours, Afternoon Services
1715 hours, Memorial Services
1800 hours, Concluding Services



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Secretary faces murder, assault charges



SHOOTING VICTIM — Workers help medics carry O. C. Ashworth into a waiting

ambulance minutes after he was shot Thursday afternoon in Building 5681.

A MIRCOC secretary faces charges of murder and assault with intent to commit murder as a result of two shootings Sept. 28 which left her husband dead and her supervisor seriously wounded.

Huntsville police charged Mrs. Annie Pride Wherry, 30, with murder after finding the body of her husband Jeffrey, 34, in their home at 3404 Rosedale Dr. He had been shot in the back and in the abdomen. Coroner Sam Spry said Wherry had been dead for several hours before relatives discovered the body on the floor of the den during the evening of Sept. 28.

About 3:15 that afternoon, Mrs. Wherry reportedly drew a 38 caliber revolver from her purse and allegedly fired two shots into the back of her supervisor as he entered his office, according to several persons who witnessed the shooting in Building 5681.

The supervisor, Osceola C. Ashworth, 47, sustained wounds in the right side and arm. Given emergency treatment at Fox Army Hospital, he was later moved to Huntsville Hospital and reported in serious condition. By Monday his condition was listed as fair.

Ashworth, a long time Army civilian employee, is a supervisory supply systems analyst in the Materiel Management Directorate. Mrs. Wherry has been a secretary-steno in the office for about three years.

Military police and agents of the Army Criminal Investigations Command took Mrs. Wherry into custody, later turned her over to agents of the Federal Bureau of Investigation. The FBI has jurisdiction in crimes involving civilians committed on federal installations.

Mrs. Wherry left work during the morning of Sept. 28 with her husband who was employed by a local contractor. She returned later and allegedly shot Ashworth when he came back to his office after a meeting elsewhere in the building.

Arraigned before Federal Magistrate Macon Weaver Sept. 29 on a charge of assault to commit murder, Mrs. Wherry was returned to the Madison County Jail, where she had spent the night, in lieu of \$25,000 bond. The charge was to be heard by a federal grand jury in Birmingham this week.

Also on Sept. 29, a state first-degree murder warrant was filed, charging Mrs. Wherry in connection with the fatal shooting of her husband. No bond was set, according to a sheriff's spokesman.

Special duty pay raise approved

WASHINGTON (ARNEWS) — In order to increase the number of volunteers for Drill Sergeant duty, DOD has approved an increase in special duty assignment proficiency pay effective Oct. 1, 1978, according to MILPERCEN officials.

Officials said the increase will result in higher pay rates, based on experience, for many of the Army's 3,800 Drill Sergeants.

Under the new plan, officials explained, Drill Sergeants will receive PRO pay at the rate of \$50 per month for the first six months, \$75 per month for the seventh through twelfth months and \$100 per month beginning with the thirteenth month of Drill Sergeant duty. These increases will be based solely on how long the soldier has been on Drill Sergeant duty as of Oct. 1, officials added.

Soldiers returning to Drill Sergeant duty after a long absence will be awarded proficiency pay at the rate of \$75 per month and will have to complete at least six months as a Drill Sergeant to be eligible for the \$100 monthly special pay, officials said.

Personnel who fail to maintain their proficiency as a recruit training instructor will be removed from the assignment and the proficiency pay will be stopped, according to officials.

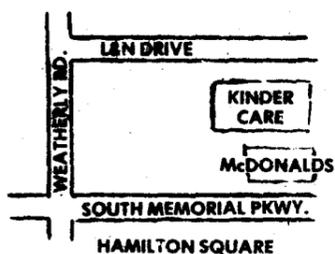
Officials say the new formula replaces the Army's plan to seek a \$25 per month across-the-board proficiency pay raise for Drill Sergeants, and establishes a scale similar to that in effect for recruiters.

Details for applying for the Drill Sergeant Career Development Program are given in Procedure 3-34, DA Pamphlet 600-8.



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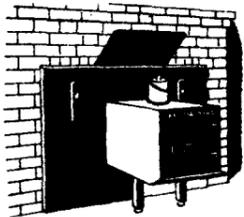
Accelerated quarter begins October 9.
Call 534-7910 for Catalog or Appointment.
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Miss New Mexico visits

Miss New Mexico Kathy Killebrew admires a bas-relief of MG John M. Cone during a visit to Redstone's Cone Laboratory last week. She had worn a gown fashioned by the late general's widow in the Miss New Mexico competition, and Mrs. Cone had given her clipping books of the ceremony dedicating the building in her husband's honor. In Huntsville for the Miss World America contest, the 19-year-old nursing student from Las Cruces dropped by Redstone for a tour of the Laboratory.



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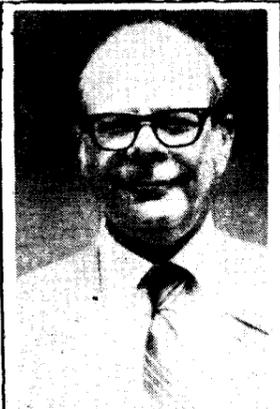
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