

**Bill McKnight**

Selling Lasers To The Pentagon . . .

## Fairy Tale Registers No Sale

In Washington in 1960 an Army senior scientist dismissed a MICOM group with the assertion that he had neither time nor inclination to listen to "fairy tales".

The rebuff was to their proposal that the military explore the potential of a new device, the laser.

That disinterested defense official's attitude was characteristic of the times. "Most people didn't see the laser as having a whole lot of potential then", recalls MICOM's Dr. William B. McKnight.

The laser theory was formulated in 1958, the first operating device demonstrated two years later. Most scientists refused to take it seriously. McKnight did, and so did a few others at MICOM, neverminding the fact that Washington didn't.

Time has vindicated their judgment. Just how seriously the laser has come to be taken today is indicated in the promise seen in it for tomorrow.

Laser technology is beginning to pervade markets ranging from automobile manufacturing to dentist's drills. Perhaps most important, some scientists see it as holding the key to the nation's gaining energy self-sufficiency.

Laser-induced nuclear fusion is probably the top priority in atomic research today. With science on the verge of developing a laser powerful enough to induce it, it is worth noting that when McKnight was struggling to get MICOM into the laser business it was with the thought that terrific amounts of power could be derived from the then-anemic devices.

McKnight's group, working with American Optical Co., were the first to

obtain high power from the neodymium glass laser—advanced models of which are now being used in fusion experiments—and pioneered the multi-stage amplification techniques that make possible its tremendous power. One which seems to have particularly great potential is a giant system now being built at Lawrence Livermore Laboratories in California. This system will have 20 neodymium glass lasers, each of which is a series of amplifying stages.

That the laser has come so far fairly fast is in large part due to pioneering work done at MICOM, much of which originated under McKnight's leadership.

McKnight and his group were convinced the time had come for a military laser program by the time the first laser appeared in 1960. The Washington people controlling the purse strings didn't agree. And to make sure their thinking prevailed, they set ridiculously low budget and manning levels on laser programs.

The MICOM group put together a program proposal and went to Washington seeking support and funding. Washington wasn't impressed.

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However, they found a friend in LTG Arthur Trudeau, then the Army's research and development chief. He sensed they were on to something and got them money for a program. Thus, with between one and two hundred thousand dollars as McKnight recalls, began the military's laser program, now budgeted by many millions.

Laser technology being primitive, with that modest sum McKnight's group took a great leap in the dark, using the approach "is some physical law standing in the way of creating a high power laser?"

They were successful in powering up the devices, scaling them to ever-higher levels and proving for the first time that high power lasers were possible.

They brought their primitive devices to such high levels that the laser laboratory and scaling effort were moved to Tullahoma, Tenn. in order to tap into the electricity of the Air Force's big wind tunnel there.

As the scaling progressed, novel demonstrations of burning holes through razor blades gave way to shooting holes through stainless steel—the latter McKnight demonstrated to a wide-eyed President Kennedy, Vice President Johnson and Secretary of Defense McNamara in a secret demonstration here in 1962.

About that same time McKnight's group turned to a non-military application of their laser knowledge. They designed and built a neodymium glass laser for medical experiments and in collaboration with the National Institutes of Health (NIH) used it successfully in removing cancerous tumors from laboratory animals.

(Continued Page 6)

# The 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.

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## ANSWERS

(Editor's Note: The MICOM Information Office conducts a question and answer program for job-related questions of general interest. Such questions may be telephoned to 876-4161 or 876-4400, or mailed to AMSMI-G. Some questions are selected for publication in the Rocket. Names are withheld. It is not intended that this program take the place of the usual supervisor-employee relationship which is the proper channel for specific job-related questions.)

**QUESTION:** Why did you print the pictures of night time views of MICOM buildings in last week's issue of the paper? I mean, what was the point?

**ANSWER:** No point, really, just showing it like it was on a particular night in November. There is a logical explanation for many of the lights shown in our photos, according to Paul Hancock, Deputy Facility Engineer. The bright lights on the outside of the McMorrow Laboratory are security lights and must remain on. Many of the lights shown on in Building 5250 were, in part, due to an air conditioning project. Lights in the office buildings also, are, in part, due to corridor lights, not individual office lights left on, except where the janitors were cleaning. The janitors have also been removing lights at night to assist the energy conservation program. In short, Hancock makes this point: there are lights that must burn all night and there are others that are needed for a time while work goes on at night.

## Summer Jobs Deadline

Persons interested in summer employment at all federal agencies serviced by the MICOM Civilian Personnel Division have until Jan. 17 to submit applications, according to the U.S. Civil Service Commission.

Applications postmarked after that date cannot be accepted. Forms for applying are available at the Civil Service Commission office, 806 Governor's Drive. Those applying will be informed about the time and place of the employment examination.

Applicants who qualify for summer employment in 1974 will not have to re-take the written examination. However, these applicants will have to request an

updating form when they send their application.

Deadline for this request is Feb. 28. Updating forms are no longer mailed out automatically to previous summer employees.

Outstanding students can bypass a written exam if they have completed two years of college by the end of the 1975 school year and have a grade point average of 3.5 or better.

Applicants must be 18 years old and U.S. citizens at the time of summer employment. However, this requirement can be waived for high school graduates who are 16 years old at the time of employment.

## ASQC Visits Nuclear Plant

The monthly meeting of the American Society for Quality Control will involve a tour of Browns Ferry No. 3 nuclear generating plant, on January 4.

The tour starts at 1:30 p.m. at the plant, which is between Decatur and Athens. Members and guests are invited.

For more information call Fred Williamson, 883-7155.

## FLYING CLUB

The Redstone Flying Club meets at seven tomorrow evening in Toftoy Hall auditorium at the Missile and Munitions Center and School.

"In addition to the regular business of the club, we'll be showing a Federal Aviation Administration film on radio navigation," said Major William Benson, club spokesman.

All persons interested in aviation are invited, he said.

Further information on the flying club is available through Lieutenant Colonel Larry Sisterman at 876-4111.

## Readiness Wives Set Coffee, Party

The regular monthly coffee for the officers' wives of the Redstone Readiness Group is slated for Tuesday morning (9:30) at 421 Hughes Drive. The coffee will be given by the artillery team wives.

An auction to help raise funds for the Chi-Ho Home in Huntsville will be held and members are asked to bring small gifts to be taken to senior citizens in Huntsville nursing homes.

There will be no bridge for the month with both the Ladies Morning bridge and the Readiness couples' bridge cancelled.

The Readiness Group formal Christmas dinner party will be held on Wednesday, December 18, at the Officers Club. The 6:30 event in the Safeguard Room, is sponsored by the engineer team.

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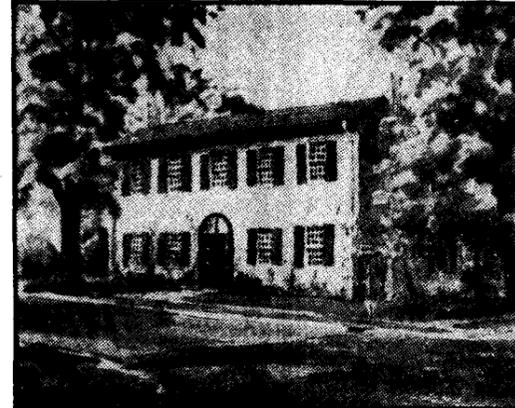
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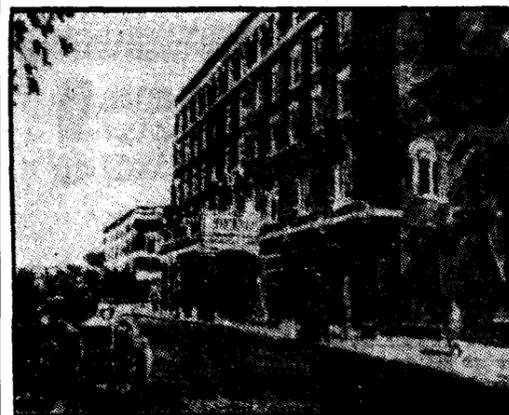
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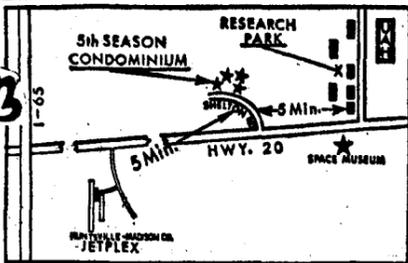
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# Happen By Chance? Don't You Believe It

In 1895 there were 300 horseless carriages, mostly imported, in operation in the United States. In the next fifty years some 85 million motor vehicles were produced in this country.

As production increased, highway accidents rose also.

Today, the law requires many safety devices on cars, but the high accident rate continues.

How come? According to accident research, Americans put up with highway slaughter because they believe the folklore that accidents happen by chance.

But 38,000 deaths and nearly one and a half million injuries in one year are staggering figures. Many of the highway accidents occurred during times of holiday merriment.

For many individuals at Redstone Arsenal, the three-week holiday recess from Dec. 19 to Jan 5 will afford them the opportunity to enjoy reunions with their families and friends.

Although the joyous season should leave pleasurable memories, it's likely the holiday atmosphere will be marred with sorrow and grief from traffic injuries and deaths.

Many personnel will drive their own cars during holiday vacations and leaves. Colonel Henry I. Lowder, commander of School Brigade at the Missile and Munitions Center and School, recommends public transportation as one way to cut accidents.

"I encourage everyone to take advantage of public transportation or commercial carriers. They're professional and their equipment is kept in order by professional maintenance personnel," he said.

Although many have taken advantage of air flights out of Huntsville, there is still limited room for stragglers here to purchase tickets, according to sales agent Don Ford for the Airlines Office.

The Airlines Office (Bldg 3488) is open Monday through Friday from 8 p.m. to 4:30 p.m.

Ford cautions ticket holders who plan to bring presents along on flights to leave them unwrapped. "Under current policies, airlines

check all personal belongings, including gifts, before a passenger can board a plane," he said. "A person can save time and money by leaving his gifts unsealed."

This year the airlines will furnish passengers with corrugated boxes to keep their gifts safe during flight.

Of course not everyone will be flying. MMCS personnel who plan to drive are encountering a new safety requirement.

This year MMCS made car inspections mandatory for soldiers at the school before approval of leaves involving POCs.

The policy received a lukewarm reception. Col. Lowder—who initiated the program—said he wanted added precautions for the travelling MMCS soldier.

"I felt I would be able to do a little more to insure a soldier's safe travel with the mandatory car inspections," he said.

"The safety check at MMCS is not a guarantee that your vehicle is perfect," Col. Lowder said.

"We made spot checks to detect the most serious deficiencies—exhaust leaks, tire wear, lights, windshield wipers—things which could save a soldier serious trouble a few miles farther on," he said.

Cars still can be inspected at the MMCS motor pool (Bldg. 3221), 11:30 a.m. to 4:15 p.m. Monday, Wednesday and Friday through Dec. 18.

You don't have to be a mechanic to know if your car is in safe, trouble-free working order.

However, even in depth safety checks made before your journey can prove fruitless once you are on the highway.

Mechanical failures can happen and may cause injuries.

What should you do if you're injured?

Personnel assigned to Redstone may receive treatment at any hospital, according to First Lieutenant Mel VanDyke, administration officer, Department of Clinics at Redstone Hospital.

"However, individuals should go to the nearest military medical facility; if possible," said VanDyke. The same policy applies to personnel who become ill over the



I'D RATHER DO IT MYSELF—Colonel Errol E. Hayes, MMCS Commandant, does some safety checking of his own as Sergeant First Class James W. Nowell looks on. The safety check is mandatory for all MMCS soldiers before approval of Christmas leaves involving POVs.

(Photo by MSG Malcolm Carr)

holidays.

"For the Army to pick up the tab at a civilian hospital, personnel suffering from injuries or sickness must be classified as an emergency," he added.

"When medical treatment is needed, call the U.S. Army Hospital here and give your rank, name, social security number and the unit commander where you are assigned.

"The necessary paper work will be completed once the individual has returned to Redstone," said VanDyke.

The holiday season can be as safe as a person wants to make it—on the highway and at home.

Plan your trips, study the best and safest routes, keep abreast of the latest weather conditions and once you reach your destination use moderation in your celebrations.

Non-stop celebrations may leave you exhausted when you're ready to return to Redstone.

After all, good driving—safe driving—means more than keeping your license in your pocket and yourself out of jail.

It could mean your life.

## Bloodmobile Here Today

The Red Cross Bloodmobile is accepting donors at the Recreation Center, (building 3711) today between the hours of 8:30 and Three. This is the only scheduled visit to Redstone in December.

During the holiday season the need for blood is always more acute due to numerous accidents and injuries. All prospective donors who can are urged to give blood.

## Sleigh Drivers— Are You Listnin'?

Those who hold government driving permits will qualify as sleigh drivers on December 23. Vacancies now exist.

People who wish to donate their time and ability to drive may contribute both to the annual Christmas Charities delivery of goods.

The Arsenal's Military Police and Equipment Pool Branch drivers have traditionally donated their time. This year the opportunity to participate is being extended to anyone who holds a government driving permit.

Interested persons should contact Jerry Breedlove at 876-1434 to register and to receive instructions.

## Teenage Drinking

Teenage alcoholism will be the theme of next week's installment of the CBS-TV series "The Good Times".

The segment, titled "Sometimes There's No Bottom in the Bottle", will be shown by WHNT-TV, Huntsville, at 7 p.m. December 17.

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# Hellfire Another Step Nearer

Can a helicopter launched missile be guided first by an airborne laser designator, then be switched to a ground designator and still hit a tank with pinpoint accuracy? The Missile Command got the answer, yes, during a development test of its prototype Hellfire weapon system last Thursday. Calling the successful completion of the test another major accomplishment in Hellfire development, Col. John B. Hanby, project manager for the new laser guided tank killer, said this was the first time the Army has fired from the attack helicopter designating the target and then handed the missile over for final guidance to a ground designator.

"This puts us a step closer to a completely autonomous firing—designating and firing from the same aircraft," Hanby said. "This capability should be tested later this month and is one of the last major objectives we have to demonstrate before technical feasibility of the Hellfire system is completely established."

Hanby said primary objectives of the Thursday firing included demonstrating that the Stabilized Platform Airborne Laser (SPAL) would not break lock-on when a missile is fired from the SPAL helicopter; demonstrating missile guidance performance when a single target is lased by two designators operating on the same code; and demonstrating the seeker's ability to re-correlate when the first designator is turned off and remainder of missile flight is supported by a second designator.

"All test objectives were accomplished," Hanby said. "This firing has demonstrated the capability to hand off terminal homing guidance between designators."

Hellfire, being developed for air launch from attack helicopters, provides the Army with a family of terminal homing seeker modules and a common air frame to engage a variety of tank and hard-point targets. It's the first antitank weapon being designed especially for helicopter launch.

Chief Warrant Officer Richard Bosworth, the helicopter pilot, was the gunner for the test. George Sumner manned the SPAL designator and Charlie Crocker the ground designator, both of MICOM's Test and Evaluation Directorate.

MICOM test engineers for Hellfire are Dr. Robert Yates and Lester Ross of the Guidance and Control Directorate and Terry Farris of the T and E.

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**NAMES IN THE NEWS**

By SP4 FRANK HARRIS



ORTA GREEN

**ARRIVALS**

SFC Percy E. Kercher, a Vietnam veteran, recently arrived for his fourth tour at Redstone. Assigned to Co. A, he is a senior instructor in the Conventional Ammunition Division.

Kercher is a native of Vicksburg, Miss., and graduated from Shorkey County training school before entering the Army in 1959.

SFC Willie G. Cromartie recently arrived from Germany for his third tour here.

Cromartie, a senior instructor in the Command Management and Leadership Division is from Lumberton, N.C., where he graduated from J. H. Hayswood High School before joining the Army.

SFC Edwin C. Sheets is assigned to the 4th S.C., he is a training and operations NCO for that company. He came here from Ft. Bliss.

He graduated from Wesleyan Methodist Academy and is a native of Kannapolis, N.C.

SSG Larry A. Cothren has returned to MMCS for the third



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12 ft. Low Profile Travelmate Fold-down Camper. Sleeps 6. Hardtop Delux Model. Regular \$1728.00 for only \$1395.00.

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He is from Dallas, Tex., where he graduated from Lincoln High School. He entered the Army in 1971.

SP4 Ernest L. Dent returned from Korea, and is assigned to Co. A as an electronic instrument repairman in Maintenance Division.

The former printing clerk is a native of Tennille, Ga., and graduated from Elder High School in Sandersville, Ga., before entering the Army in 1972.

time.

A technical ammunition specialist in Maintenance Division, he is assigned to Co. A. He is from Aurora, Colo., where he attended high school before entering the Army in 1966.

SP5 David W. Polk, a former MMCS student, has returned here from Germany. Assigned to Co. B,



DENT POLK

he is a nuclear weapons electronics instructor in the Nuclear Weapons Training Detachment.

PVT Betty J. Orta has arrived for her first Redstone tour.

A clerk typist, she is assigned to Co. C, where her husband is also assigned.

She is from Griffin, Ga., where she graduated from Griffin High School. She entered the Army earlier this year.

**PROMOTIONS**

To Staff Sergeant: William A. Michle, HAWK Division. Specialist Six: Winfred Green, student, 8th

S.C. Specialist Five: Gregory C. Bowman, Reenlistment Office; LaVern D. Richards, HAWK Division; and William Chatman, Training and Education Div. Specialist Four: Allen B. Gove, Command Information Office.

**CIVILIANS**

Alton L. Curnel was commended recently by Colonel Errol E. Hayes, MMCS Commandant, for superior performance as a School Brigade legal clerk.



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# Fairy Tale Registers No Sale

(Continued From Page 1)

NIH came to MICOM for help in the experiment after learning of the success of the scaling effort at Tullahoma.

That scaling effort was to put lasers into a whole new perspective: "It showed people they had to be taken seriously", McKnight recalls.

An Oxford-educated PhD, McKnight is one of the world's most experienced laser physicists. At Oxford from 1966-68 on a Secretary of the Army fellowship he succeeded in getting high peak power out of a gas laser, something the scientific community thought was impossible based on scientific principles believed valid at the time.

From that start gas lasers have come into their own and today they too have been made powerful enough for use in

fusion experiments.

After 15 years as a prime mover in military laser research, McKnight will watch from the sidelines as it moves ahead. He retires next week and has taken a physics professorship at the University of Alabama, Huntsville.

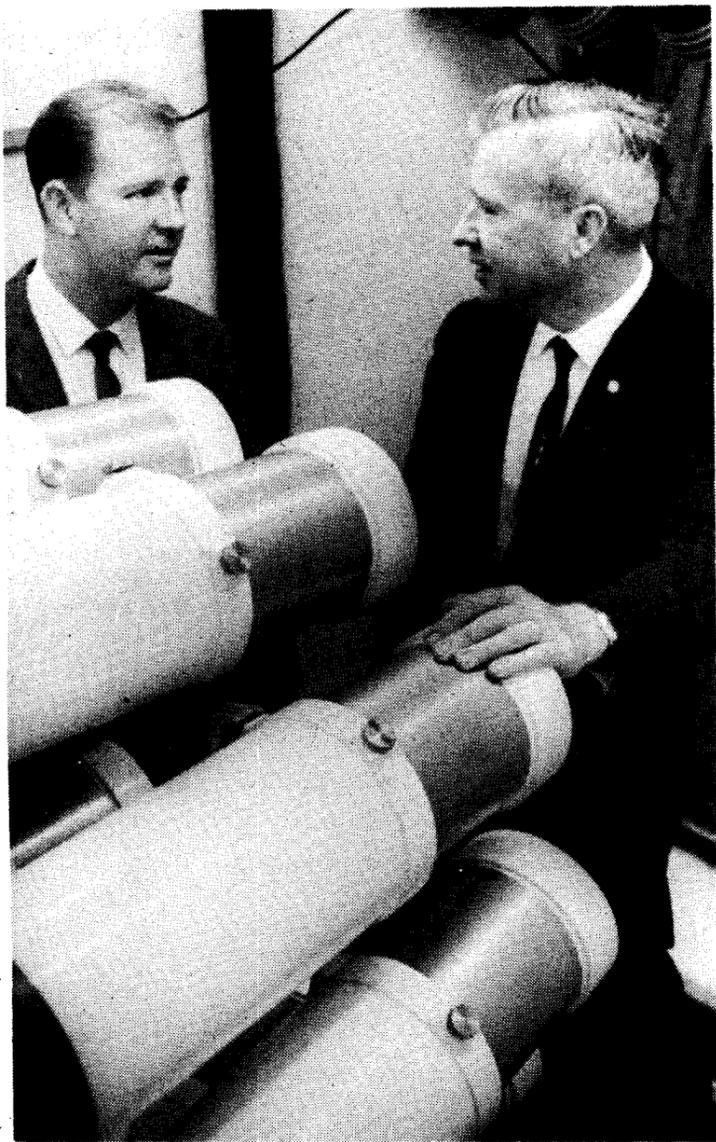
He has seen laser technology come a long way, and sees it going much further. "The technology is young, nowhere near maturity, and needs right now for solid engineering to catch up with physics", he said.

McKnight declines to prophesy a coming "laser age", but some scientists go so far as to say that not since the computer has anything had more potential than the laser for revolutionizing industry, society and government. Another fairy tale?



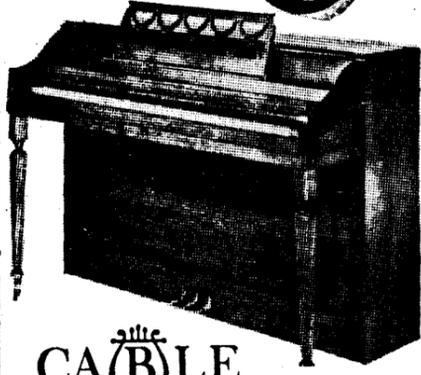
SPINOFF—In this 1964 photo McKnight examines an element of a high power laser which was used successfully in removing cancerous tumors from laboratory animals. McKnight led a MICOM group which designed and developed the laser for the National Institutes of Health.

Dial 112 For  
Redstone News



THE BIG X—McKnight and the late Jim Dearman at Tullahoma in the early '60s with a high power neodymium glass laser array called "The Big X" (for big experiment). It showed the world that lasers were to be taken seriously. A MICOM laser pioneer and a key figure in engineering "The Big X" array, Dearman died in 1966.

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## Galloping Rumor Drops By Arsenal

Last week a depositor's publication of a local bank carried a public service item stating that a young girl in Redstone Hospital with a fatal blood disease needed a shot every eight hours to keep living and that the "Cigarette Industry" would pay for a shot for every 100 empty cigarette packs turned over to them.

The public was requested to save empty cigarette packs and

deliver them to a designated place.

A check revealed there is no such patient at Redstone Hospital. Of course the Army provides needed treatment for patients of its hospitals.

Also, the Rocket has been unable to substantiate that the "Cigarette Industry" has any such public relations program. There is evidence that it is a part of a recurring rumor, or hoax, that shows up periodically over the country.

## Dinner Dance

A dinner dance featuring the Larry Robbins Band and two floor shows will be sponsored by the Huntsville Chapter of National Contract Management Association on December 18.

Dinner will be served at 6 p.m. at the Carriage Inn and will be followed by the first floor show "Las Vegas Hits." The second floor show will be a dance exhibition held during the first intermission. Members and guests should call Gloria Brown 876-4416 for reservations.

## Tour Of Caverns On For Saturday

A tour of Cathedral Caverns is scheduled for Saturday by the Recreation Center. The tour bus leaves the Center at ten.

Those wanting to make the tour must register at the Center by Friday in order to make preparations for the picnic lunch. Admission to tour the Cave is \$1.50.

THE ROCKET — DECEMBER 11, 1974 PAGE 7

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TUESDAY  
"Breezy" (R)

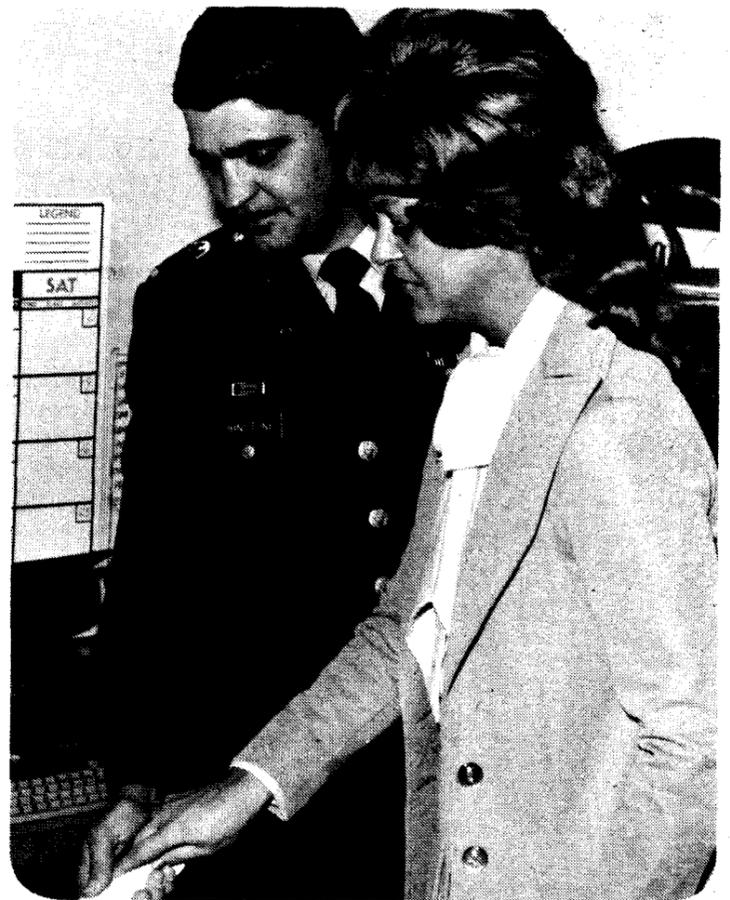


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CELEBRATE PROMOTION—Mr. and Mrs. Gerald Johnstone are happy to cut the cake and there's a good reason—he has been promoted to Warrant Officer. The former Sergeant First Class and enlisted aide to the Commanding General of the Missile Command has been stationed at Redstone four and a half years. Johnstone currently is assistant adviser to the MICOM Post Food Service.

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# "Let It Come To The Top"

Action Line In Business . . .

Meetings Begin



**LISTENING IN**—Col. Errol E. Hayes, Commandant of the Missile and Munitions Center and School, demonstrates how the recording device for his Commandant's Action Line allows him to monitor an incoming call.

The soldier or civilian with something on his mind at the Missile and Munitions Center and School got two ways to let the Commandant know about it last week.

Colonel Errol E. Hayes, Jr., who assumed command of the Army service school in July, opened a 24-hour action telephone line Dec. 5 and began monthly "rap" sessions with student class leaders.

By dialing 876-6690—the Commandant's Action Line (CAL)—anyone at MMCS can bring problems, complaints or recommendations directly to Col. Hayes' office seven days a week.

Col. Hayes said he will personally answer the CAL phone when his schedule permits. When he is out, a recorder will tape incoming calls.

A taped message by the Commandant promises the caller, "I will listen to your comments as soon as I return." Messages will not be edited or screened by anyone other than myself, Col. Hayes said.

How comments and complaints will be handled "depends on what the problem is," he said. Some the Commandant will resolve with a phone call. Others will be referred

to appropriate staff members.

Whatever the method, Col. Hayes said he is determined that the solution be quick and direct. The first call recorded, for example, was received from a student enlisted man at 6 a.m. last Friday. The soldier had an answer 20 minutes later.

Callers are asked to give names, addresses and phone numbers. However, anonymous calls also are accepted, Col. Hayes said.

Those who identify themselves will receive a report by phone or mail from Col. Hayes explaining the action taken on the call. Unidentified callers will receive replies in the MMCS Daily Bulletin or through other official media.

In his office last week, Col. Hayes—the small gray CAL recording device by his side—explained why he installed the unit.

"When I first came here," he said, "I looked at the organizational chart. I looked at the units at the bottom of the chart and I asked, How does a member of this organization get to me?"

"I found no way to do it. Human nature being what it is, if there were a problem, the people higher up wouldn't let it come to the top."

The hot line or action line system

used extensively in the Navy and especially successful at the Navy base at Taiwan was, he decided, the way to open his door to people at the bottom of the chart.

The move "is not intended to

circumvent the chain of command," Col. Hayes said. He urged MMCS personnel to continue to use "established channels" to resolve ordinary problems and get information.

The line is, he said, simply another alternative.

CAL is for use by military and civilian personnel, he said, and can be used to arrange visits should a caller wish to present his case in person.

All persons at MMCS have received letters outlining the workings and purpose of the action line. Other notices are to be included in in-processing packets to new arrivals at the school.

Earlier last week, the first "rap" meeting between student leaders, or "green hats," and Col. Hayes took place in Toftoy Hall auditorium. Four other meetings followed, and similar meetings are planned for the first week of every month.

"Have you ever tried to take a 10-mile hike with a rock in your boot?" Col. Hayes asked the group of about 25. "You can't do it. I want to help you remove that rock."

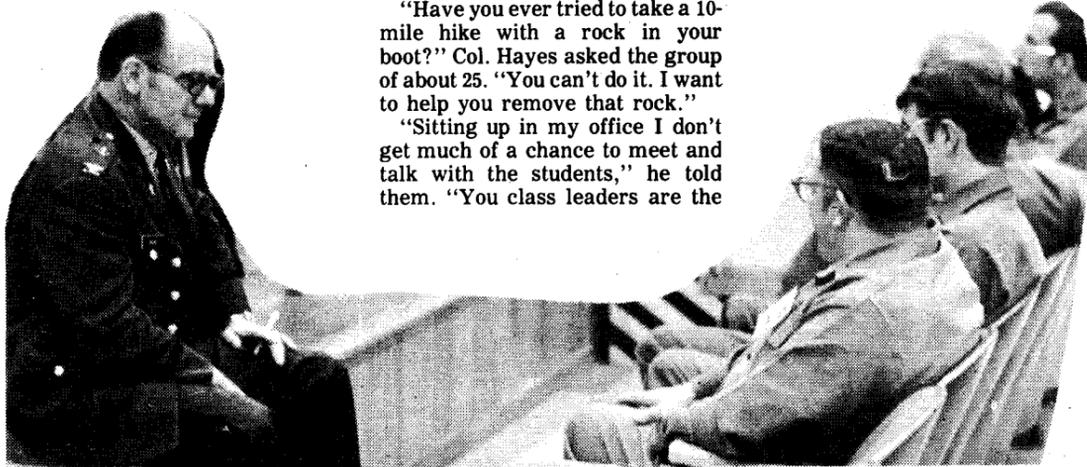
"Sitting up in my office I don't get much of a chance to meet and talk with the students," he told them. "You class leaders are the

ones in direct contact with your classmates and should know their problems, attitudes and needs."

Col. Hayes, his jacket unbuttoned, sat on the edge of the stage smoking a cigarette. He encouraged the leaders to be informal.

They responded. The lively exchange touched on promotions, medical care and several other topics. At least one of the five sessions lasted two hours.

On hand with the Commandant to respond to questions were Colonel Henry I. Lowder, School Brigade commander; Colonel Everett I. Madden, Deputy Commandant for Training and Education; Chief Warrant Officer Claude E. Brackett, military personnel officer; MMCS Command Sergeant Major Bill Tawwater; School Brigade Command Sergeant Major J. L. Pitt; and Sergeant Major E. C. Durden of Training and Education.



**FACE-TO-FACE**—Col. Errol E. Hayes Jr., Commandant of the Missile and Munitions Center and School, talks informally with student class leaders at Toftoy Hall last week.

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# 'I've Made My Contribution



Down To Days . . . Charles Thoman

"Two minutes and counting . . . one minute and counting. Hold it. Clear out those mosquitos!"

Once more the seemingly limitless reach of space age technology comes face to face with a very human plight—fighting the insects.

Charles Thoman remembers it well. His memory stores countless recollections of days at Cape Canaveral, Fla., where he served as chief of operations and chief engineer from 1952-54.

"Sometimes the mosquitos would be so bad in the mornings we just had to stop right in the middle of the countdowns. Then the fogger truck would spray and we'd be on our way again."

Retirement at the end of December will sever Charles Thoman from his responsibilities with the Missile Intelligence Agency where he has worked since 1961. But, there will be no separation from the knowledge he has gained nor the unique background that first brought him to Redstone.

By the time Dr. Wernher Von Braun and the missile research team began testing at the Cape, Thoman was a seasoned veteran. He had been involved in at least 100 preliminary tests and was largely responsible for the communication system there that is still used on national test ranges today.

"We were pretty well organized when the Army came down," he said.

As chief of operations, he kept a close eye on launch operations, range clearances, communications and flight safety.

#### TEACHER TOO

The Maryland native had prepared himself well with study in electrical engineering at Villanova College and a whole string of electronically related jobs. He worked as a radio inspector, a broadcaster and a radar specialist. The year 1945, found him in a classroom at the University of South Carolina teaching electronics and technical report writing.

These years of experience groomed him well for the position he accepted in 1954, when he began working for the Army as head of

the data office at the Cape. He was the first Redstone civilian employee to be permanently assigned to the Florida test site.

"It was a close-knit group there," he recalls. "The people were dedicated and they knew their business."

Thoman speaks of the interdependence and the respect for each other's ideas. His suggestion that missiles be checked out in the vertical position led to the assembly of the vertical test stands at the Cape.

Blended with accounts of technical problems and accomplishments are memories of alligators in the ponds and the rattlesnakes that used to slither through the area.

Some people turn the pages of history with awe. Thoman acknowledges with pride his involvements. His voice relayed the step-by-step account of the first manned space flight.

His broadcasting ability was also well-known to many Huntsville residents who travelled to the southern shores to witness the early test firings.

"Sometimes we had so many people from Alabama, there just wasn't room for them in the blockhouse. So, we set up a public address system and I broadcast the progress of the tests to them," said Thoman.

The communication network also fed to receivers in building 4505 on post and to the NASA offices in Washington, D.C.

#### PEOPLE TO PEOPLE

Listening to one man's remembrances of his life's work emphasizes clearly the vital im-

portance of people working with people. Each of Thoman's stories is filled with the human side of technology—the people who made things work.

"I remember experiences with the Navy down there," he said. "When they recovered one of the first of our nosecones, we heard the comment, 'Your impact point is right in the ballpark. Keep it up and we'll play ball anytime.'"

"The man was right," he added, "We went through the bung hole right into the pickle barrel."

During his career, Thoman has been recognized in such publications as "American Men and Women of Science" and "Who's Who in the South and Southwest." Additionally, he has contributed segments to a handbook on astronautical engineering.

Thoman doesn't view his retirement as a fisherman's holiday. He plans to finish a number of projects he's been working on in his shop at home. One of his favorite undertakings was the restoration of a 1958 MGA that he towed here from Dallas and now drives to work.

He also looks forward to spending time with his children and grandchildren. Son, Charles, whom Thoman calls "Dr. Chuck", is a urologist and lives in Florida with his wife and two sons, and Thoman has two married daughters and five grandchildren in California.

Looking back over 23 years, he smiles and says, "I think I've made my contribution. At least I can say that no one's caught me sleeping yet."

## VETERANS ASK . . .

Q—What state pays the highest bonus to its Vietnam era veterans?

A—According to information available to the Veterans Administration, North Dakota's \$1,600 is the highest maximum bonus paid in 16 states and Guam.

### "The Christmas Story"



The Nativity Scenes will be shown again this Christmas season at the Huntsville Memory Gardens. To help conserve energy, the Nativity Scenes will be lighted only until 12 midnight now through the Christmas season.

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# Unit Level Quintets Boast Clean Slates

By DAVE COWAN

Five teams have managed to endure a tough roundball schedule and remain undefeated after two weeks of play in the RSA Basketball League.

MICOM, which captured the post crown last year and is sporting the same team this year, might have the cream of the crop in the Eastern division of the league.

But try to convince the students from the 4th and 7th. All three teams are unbeaten. The 291st MPs and the 6th SC lead in the Western division with spotless records.

**Monday**

The 4th SC disposed of the Marines, 68-35; MICOM blasted the 8th 56-25; while the 7th SC defeated 95th Calibration, 56-36.

The students scored 24 points in the second period to take a 36-14 halftime lead and then increased their margin to 56-26 in the third quarter enroute to their win over the leathernecks.

The students were lead by Ed Moss and Jim Barnes with 20 points, followed by Jim Smith with 18; while L. T. Braswell put on a one-man show with 24 biggies for the Marines.

The missilemen romped to their second win over the 8th students. MICOM jumped off to a 30-9 halftime lead as the students were unable to hit on their field goals, and missed 11 of 16 charity shots.

Ron Castine and Art Perrin sank 13 and 12 points, followed by Ray Smith and Kerry Bell with 10 each; while Ken Ellis led the students with 12.

The 7th students chalked up their first win over the 95th. The students took a 28-9 halftime margin, but the Calibrators rallied in the third quarter with 20 points to close within 10 at 39-29.

The 7th put the game away with seven of nine free throws. James Johnson paced the students with 18, followed by Fred Morgan with 14 and Willie Nelson with 12. Lance Kennamer grabbed 11 points, while Larry Sunday and Charlie Appleton had 10 each for the Calibrators.

**Tuesday**

The Medics edged Company C, 31-27; 291st MPs ripped SSG, 85-34; and the 6th nailed Company B, 56-27.

Meddac nabbed their first win with a victory over Company C, as Mickey Rooker sank a field goal with eight seconds left in the game. Delridge Hayes stole a pass and canned an insurance bucket at the buzzer.

Company C, after trailing 12-8 at the half, rallied in the third quarter to pull even at 20-20. After the lead changed hands several times in the final stanza, the game was tied at 27 all with 20 seconds remaining as Joe Garrett hit on a free throw.

However, Rooker, who led the medics with 10 points, nailed down the win. For the C's, Garrett had 11 points.

The accurate shooting MPs beat SSG with Richrad Mitchell and Willie Rice pacing the cops with 29 and 27-point performances, while Robin Sheets grabbed 16.

For SSG, James Kennedy and Harold Cook sank 20 and 10 points.

The 6th students, after taking a 20-13 advantage, out shot Company B 14-3 in the third period for their win.

Johnny Muse and Ernest Graham led the students with 14 and 12, while Mike Fields and James Smith had nine and eight points for the B's.

**Wednesday**

The 7th SC beat the Marines, 46-32; 95th edged Company A, 37-31; while the 4th SC mauled the 8th, 47-27.

The 7th students took a 19-16 halftime lead over the Marines and then increased their margin to 33-22 in the third period for their win over the leathernecks.

James Johnson sparked the students with 14 points, followed by Tom Johnson and Willie Nelson with 10 each, while M. C. Williams hit 12 points for the Marines.

Four charity shots and a field goal by Larry Sunday with 53 seconds left in the game gave the 95th their first win of the season.

The Calibrators jumped off to a 17-14 halftime lead and then increased their margin to 29-22 after three quarters to beat Company A.

Company A, led by Wardrick Griffin with 10, fought back to within four points of the leaders at 31-27 before three charities by Romeo Salcedo and a three-point effort by Larry Sunday clinched the game for the Calibrators.

Charlie Appleton and Lance Kennamer led the 95th's scoring with 12 and 11 points respectively.

**Thursday**

The 6th SC downed Company C, 67-40, while Company B blistered

SSG, 59-34.

The 6th students, behind a 19-point effort of Johnny Muse, defeated Company C for their third win of the campaign.

The students exploded for 31 points in the second period for a 43-16 halftime bulge and eventually the win.

James Gaynes contributed 16 points for the 6th, while Jerry Butler and Joe Garrett paced the C's with 12 points each.

Reedy Clifford Boler dodged the big guys to drop 26 points through

the loops in lifting Company B to a win over SSG.

Thomas Riggins also had 14 points in the permanent party's first win, while James Kennedy and Harold Cook led SSG with 14 and 13 tallies.

In a make-up game Friday night, the 291st MPs whipped Meddac, 55-35.

Willie Rice and Richard Mitchell led the MPs to their third win with 27 and 16 points, while Mickey Rooker dropped 12 in for the medics.



FIELD MANEUVER FAILS—Neil O'Donoghue (8) of the St. Bernard Saints tries to out-manuever Wolfgang Tschoke as Rocket goalie Gunther Gormann watches tensely. The Saints defeated Redstone 4-1, but lost to the UAH Chargers in the championship game of the RSA Soccer Tournament last Saturday at Redstone.

Saints Are Second . . .

## UAH Captures Soccer Tourney

The University of Alabama (Huntsville) Chargers fought off the St. Bernard College Saints on a muddy field to win the Second Annual RSA Soccer Tournament here last Saturday.

The Chargers defeated the Saints 4-1 in the championship game after both clubs advanced to the final round with earlier wins.

Teams competing in the tournament with UAH and St. Bernard were the Birmingham Express and the Redstone Arsenal Rockets.

Three players were named Most Valuable Players (MVP) at the conclusion of the tournament. Eugene Karpa of UAH received MVP on offense, while Ed Coffin of the Birmingham Express and Guenther Gormann of Redstone were named MVPs for defense and

goal tender, respectively.

In the first contest, the Saints downed the Rockets 4-1, in a defensive battle and a scoreless first half.

Ron Harmon gave St. Bernard a 1-0 lead 15 minutes into the final half before Gerd Reiman of Redstone tied the game with 20 minutes gone.

The Saints took a 2-1 advantage five minutes later on a Joe Fenlon goal. The Rockets lost control of the game when Redstone's Lother Ernst accidentally booted one in past his own goalie.

Billy Mishalow and Noel Spleen scored two goals each as UAH romped to a 10-1 win over Birmingham in the second game.

The Charger's win set up the finale against St. Bernard.

In a rain-sodden game, UAH took an 1-0 halftime advantage over St. Bernard on Robert Calderon's goal. With eight minutes gone in the final half, the Saints notched the score at 1-1 on a goal by Neil O'Donoghue.

Though hobbled by injuries the Chargers wrapped the game up in the final five minutes on goals by Karpa, Mishalow and Joe Castanza.

In the consolation game, Birmingham Express defeated Redstone 4-3 in sudden death, after both clubs were deadlocked at 2-2 at the end of regulation time.

Tournament rules allowed each team five penalty kicks. The Express booted two against Redstone's one to clinch an exciting 4-3 win.

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# Bowling Results

## AMC League

STANDINGS	
	Pts.
Hughes TOW	31
Spares	29
Lily Flagg	29
Fat Cats	29
T-Birds	26 1/2
Bombers	26 1/2
Alley Cats	25
Sprinters	24
Sheraton	20 1/2
Untouchables	19 1/2

LAST WEEK	
HIGH ROLLERS	
Lily Flagg 3, T-Birds 1	
Sheraton 3, Sprinters 1	
Spares 3, Fat Cats 1	
Alley Cats 3, Bombers 1	
Hughes 2, Untouchables 2	

S&M League	
STANDINGS	
	Pts.
Reba's Enterprises	36
Pickups	33
Parkway Lanes	32
Clowns	28
Three & Two	27
Strikers	24
Outcasts	22
Barber-Coleman	20
Interns	19

**LAST WEEK**  
 Pickups 4, Clowns 0  
 Interns 4, Inree-Two 0  
 Misfits 3, Reba's 1  
 Strikers 3, Outcasts 1  
 Parkway 2, Barber-Coleman 2

**HONOR ROLL**  
 Warren Schoenknecht cranked out a rousing 640 scratch series that sparked the Pickups to their clean sweep of the Clowns. His 775 total with handicap is tops for the league by a wide margin.

**OTHER TOP SCORERS**  
 Roger Kirk, 588; Hugh Mauney, 574; Buck Wade, 549; Earl Moore, 548; John Rayl, 538; Carl Black, 534; Garland Mc-Peters, 539.

## Friday Mixed

STANDINGS	
	Won
B.V.'s	40
Outhouse Gang	39
Three & One	38 1/2
Wieners	32 1/2
Bee's Nest	32
Four-Pins	31
Eight Balls	31
Drifters	20
Barb. Q Ranch	28

**RESULTS**  
 Team Series (scratch): Wieners, 1954.  
 Team Series w/t Hdc.: Wieners, 2559.  
 Team Game (scratch): J.C.'s 703.  
 Team Game w/t Hdc.: J.C.'s 862.

**IND. ONHORS**  
 High Series: (men) Ralston, 543; Hawthorne, 545; Helmer, 525; Bean, 522; Joyner, 522; Schleimer, 521; (women): MacIver, 532; Schnack, 497; Wilson, 496.

High Games: (men) Hawthorne, 204; Coffey, 204.

## Wednesday Officers

STANDINGS	
	Won
ExASPRators	72
Strikeouts	68
Swingers	64
Black Jacks	64
Gimlets	62
Bee M's	60
Lucky Strikes	54
Readiness Group	54
Redrock Engineers	50
Widgets	44
Sch. Bde. B's	18
Halo's	17

**RESULTS**  
 Swingers 8, Halo's 0  
 Gimlets 8, Black Jacks 0  
 ExASPRators 6, Redrock 2  
 Readiness 6, Sch. Bde. 2  
 Strikeouts 6, Widgets 2  
 Lucky Strikes 6, Bee M's 2

**INDIVIDUAL**  
 High Series: Hopper, 585; Hertzog, 564; Grizio, 561; Shuput, 551; Townley, 546; Aldrup, 545; Reece, 542.

High Games: Shuput, 243; Grizio, 224; Aldrup, 211.

High Avg. Aldrup, 179.

## MICOM Wins In A Breeze

The Missile Command girls will be looking for the fourth straight Madison Ladies basketball league win tomorrow evening when they tackle the Tomboys in a 6:15 contest at the West Madison School.

The third win following a season-opening loss turned into a breeze with the Civilian Welfare Fund-sponsored Arsenal team racing to a 69-7 win over McCarley.

Tomorrow's game will close out the first round of league play and set the stage for a second meeting with Big Ed's Pizzeria the following Thursday evening.

Janice McGee took over the scoring leadership in last week's rout with a 26 point outburst. Anita Wingard tossed in 20 more and Gladys Hill made it a trio of double figure scorers with ten.

Pat Shipp, Wilma Rettig and Mary Lou Laney handled most of the defensive assignment as Coach Jack Bissinger rested his regular back court trio.



# Statistics

STANDINGS EASTERN		W	L
4th SC		3	0
7th SC		2	0
MICOM		2	0
8th SC		1	2
Company A		0	2
Marines		0	3
95th Calibration		0	3

WESTERN		W	L
291st MP's		3	0
6th SC		3	0
Company C		1	2
Company B		1	2
Meddacc		1	2
SSG		0	3

TOP 10 LEADERS EASTERN				
Name	Unit	Ga.	Pts.	Avg.
Moss, 4th		2	37	18.5
Braswell, Marines		2	33	16.5
Johnson, J., 7th		2	32	16.0
Morgan, 7th		1	14	14.0
Castine, MICOM		2	28	14.0
Perrin, MICOM		2	27	13.5
Barnes, 4th		3	27	13.5
Barnes, 4th		3	38	12.6
Nelson, 7th		2	24	12.0
Smith, 4th		3	32	10.6
Appleton, 95th		3	30	10.0
Bell, MICOM		2	20	10.0
Ellis, 8th		3	30	10.0
Johnson, D., MICOM		2	20	10.0

WESTERN				
Name	Unit	Ga.	Pts.	Avg.
Rice, MP's		2	53	26.5
Mitchell, MP's		2	45	22.5
Boler, B		2	32	16.0
Muse, 6th		3	45	15.0
Kennedy, SSG		3	43	14.3
Harris, C		1	14	14.0
Cook, SSG		3	37	12.3
Griffin, A		2	22	11.0
Graham, 6th		2	21	10.5
Butler, C		3	30	10.0
Gaynes, 6th		3	30	10.0
Rooker, Meddacc		3	30	10.0

Halftime intermissions during games in the RSA Basketball League are only 10 minutes long, but they can be boring.

Starting Jan. 6, the league will conduct a One On One tournament during the intermissions with top contenders in both divisions competing. The single-elimination event will run until Feb. 27 when a winner will be declared.

Interested players may register at the old post gym or Bldg. 3491 from Dec. 6 through Dec. 19.

A scratch meeting will be held on Dec. 20, starting at 4 at the old gym.

## Conserve Energy

THE ROCKET — DECEMBER 11, 1974 PAGE 11

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# MIA Shares Civilian Cage Lead

Missile Intelligence soared into a share of the lead in the CWF basketball league last week on the wings of a pair of victories and MISD stayed with them after getting credit for a win without playing.

The Intelligence five hung a 43-34 defeat on the Missile School on Tuesday and returned to the Evangel gym two nights later to outscore R & E, 63-52. The MISD win came easy when the Three M quintet was unable to field a team for their scheduled contest.

PAD No. 1 captured an intramural duel from PAD No. 2, 63-32, and R&E Three M, 41-40, in other Tuesday games. The Thursday opener saw another barn burner with the School getting into the win column, 44-43 over PAD No. 2.

Mose Hall and Ronnie Phillips shared the scoring lead with 11 points apiece in the opening MIA win. The winners were held to a two-point first half advantage, 18-16, but broke loose after the intermission to win going away.

Jennings collected 11 points in the losing cause and Foster hit for ten.

MIA doubled the score on R&E early going and led 34-17 halfway through the contest. The second half belonged primarily to R&E, but the engineers were not able to come up with the points to turn the game around.

Phil Shepherd with 12, Council at 11, and Williams with 10, topped the scoring for the winners. Larry Brooks was the top scorer in the game with 16 in the losing cause. Gary Morr collected 11 and Steve Smith ended with one less.

The top individual point production of the week was turned in by Wade Griffin in a 25 point splurge that turned the Product Assurance Directorate family affair into a rout. No. 1 was out front 28-12 at the half.

John Beale and Eazil Sales added double figure scoring to the winning attack with ten apiece while Bob Eastwood was high for No. 2 with nine.

R&E trailed 3M by three (20-17) at the half and was as many as nine points back during second half play, but put on a closing rally that snatched victory in the closing seconds.

John Vann topped the winners with 20 and Jesse Lewis was high for 3M with 14 points.

MMCS got away fast in their bid to win for the first time and was ahead by nine, 26-19, at the half. That turned out to be just enough of a margin when PAD No. 2 came back late in the game.

The top MMCS scorer was Butler with 15 while Benny Dishroon connected for 12 and Wayne Tucker eleven in the losing cause.

## Cleveland Family On Center Stage

The Recreation Center will present the Flowers Family Show, featuring the twins Christie and Lorie from Cleveland, Ohio, Sunday evening.

comedy, and the blending of instrumental artistry.

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# Just What Does It Mean?

Engraved on the foundation stone of the federal merit promotion system are the words "Best Qualified."

These words mean different things to different people.

If conversations with many MICOM people are typical, for example, many federal employees believe "best qualified" when applied in the context of a merit promotion, means the system produces a single individual who is the best qualified for the job.

That widespread belief happens to be wrong.

The system does produce the



CHARLES WELLS

## Attorneys Elect

The Missile Command's Legal Office is well represented on the slate of officers newly installed by the local Federal Bar Association chapter.

Charles Wells takes over as president and Robert Spazzarini, the new president-elect will assume the presidency at the conclusion of Wells' term. Major M.T. Yawn is vice-president and national delegate and Jane Garner, is the new parliamentarian. Secretary-Treasurer Robert Hamilton is a BMDSCOM attorney.

Another MICOM attorney, Carl Stephens, presided over the installation in his capacity as national fifth circuit vice-president.

## Mailman Safest School Driver

A dozen civilians at the Missile and Munitions Center and School recently were cited by the National Safety Council for safe operation of government motor vehicles.

"King of the road" for MMCS is J. L. George of the mail and distribution branch of the school Headquarters. George recently completed fifteen years of driving without accident or citation.

George has actually completed a few more safe years than that, but his earlier safety record was compiled before the recognition program began.

George, based in the headquarters building, spends the better part of the working day behind the wheel of a carry-all van, delivering U.S. mail and internal correspondence to various elements of MMCS.

"There have been a few times when I've caught myself about to do something unsafe behind the wheel," said George shortly after Colonel Errol E. Hayes, presented him a card and lapel pin. For the National Safety Council, the important thing was that George never failed to catch himself.

The other civilians recognized all work for the MMCS Office of Logistics. Their names and periods of safe driving are:

Sherman Hazel and Thomas H. Jackson, 14 years; William D. Kellar, 13 years; Benjamin F. Heard, 12 years.

Also, Robert L. Pierce, Wallace E. Simmons and John Smith, Jr., seven years; Leslie A. Connally and Claude Lee, five years; Joe C. Hines and Ivan Toney, one year.

"best qualified" group whose names are referred to a supervisor or manager for selection of an individual to be promoted.

Key point, often overlooked: As far as the merit promotion system is concerned every person on the referral list is "best qualified."

What happens then, according to the Federal Personnel Manual is this:

"A selecting official is entitled to make his selection from any of the candidates on a promotion certificate whether or not the candidates are placed in ranking order based on his judgment of how well the candidates will perform in the particular job being filled, and when relevant, what their potential is for future advancement."

Failure to understand that best qualified means a list of people instead of one person perhaps helps to explain the common complaint of white male civilian employees who cite promotion of blacks or women as evidence that someone is playing hanky panky with the merit system.

The Federal Personnel Manual says just the opposite is true:

"An agency must adopt adequate procedures to provide equal opportunity in its promotion program for all qualified employees and to assure that non merit factors do not enter into any part of the promotion procedures. Promotions must be made without discrimination for any non-merit reason such as race, color, religion, sex, or national origin, political, martial status, physical handicap, age or membership or nonmembership in an employee organization."

In other words, if a person is not considered "best qualified" for

merit reasons, other factors do not count.

Army civilian personnel regulations and affirmative action plans do require supervisors to carefully evaluate representation of minority groups and women in their organizations and to take affirmative action within the merit system to correct out of balance situations.

## Instrument Society Hears Sportscaster

The Huntsville Section of the Instrument Society will hear local TV sportscaster Dan Jamison when they meet on Monday evening (December 16) in the Red Room of the Russel Erskine Hotel.

Jamison will discuss inside sports and computer predictions and close with a question and

answer period.

The open meeting starts at 6:30. Non-technical friends, relatives and guests are invited.

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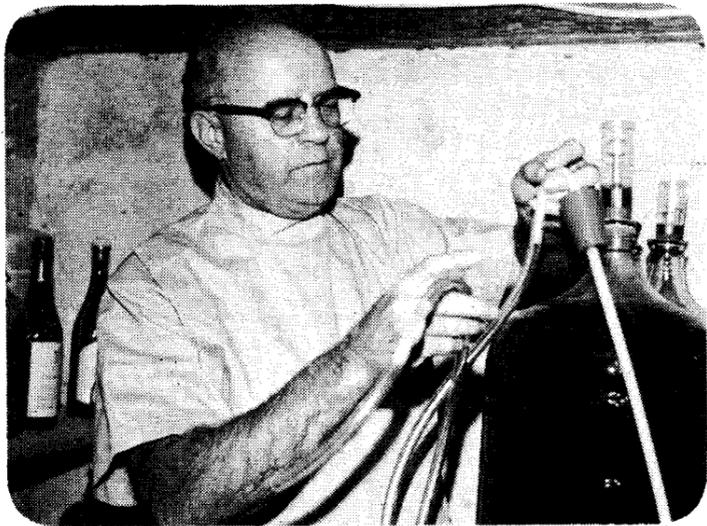
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Next To Richard's Lighting

From Green Mountain

# Little Old Winemaker



Another Batch . . . Marion Gibson

Marion Gibson is an electronics engineer with the Ballistic Missile Defense Systems Command, but because of his hobby his co-workers refer to him as "The Little Old Winemaker."

Gibson has a 20 acre farm up on Green Mountain where he has a garden, a grapevine, and fruit trees. Four years ago he and his wife picked their fruit for canning, but they ended up with a surplus so Gibson decided to make some wine.

Friends and acquaintances gave him instructions and advice on how to make the first batch of wine and it turned out good. In fact it came out so good that Gibson decided to make it a hobby.

He became so interested in wine making that he took a correspondence wine study course from the State of California. Utilizing fruit from around the farm Gibson has made peach, grape, apple, blackberry, elderberry and wild plum wine. Anxious to experiment and learn more he tried rose petal wine . . . and found it delicious too.

Since his wine making was limited to the fruit harvest season, Gibson tried making wine from an orange concentrate that he bought at the supermarket with good results.

According to Gibson, "It takes **Accountants Meet Thursday**

The local chapter of the Federal Government Accountants Association will meet at 11:30 a.m. tomorrow at the Officers' Club.

Guest speaker will be Colonel Frank P. Ragano, Project Manager for the 2.75 Rocket System.

approximately 5 to 6 months from the time I start the wine until I have it in the bottles. I used to have the wine fermenting up in the house, but my wife didn't like the big crocks sitting around and the sour smell that comes from the fermentation process, so I had to move to the basement. She doesn't mind me making wine as long as I don't have it in her living room, dining room or kitchen.

since his first attempt at winemaking. Now he wears a smock and carries his testing equipment with him to check the wine. He talks of body and bouquet and tastes his wine like a professional.

The Gibsons like wine with their dinner . . . she prefers the sweet wine and his favorite is Rose.

Mrs. Gibson is proud of her home canned vegetables and fruit and he is proud of his homemade wine.

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**TRACT 1**—Containing approx. 25 acres, all open and productive soil type with approximately 1/2 being sown to improved grasses and balance of excellent row-crop land. Watered by everlasting pond stocked with fish, well and spring branch. Mostly fenced and improved with a good brick home containing 6 rooms, bath, large porch and an upstairs that can be developed if one desires. Heated with gas and is in excellent condition — all situated on spacious shaded lawn. There is an uncompleted machine shed and a good barn. This is the type unit that is seldom offered at any price.

**TRACT 2**—This tract is improved with comfortable 4 room house and bath, all in good condition. There is approximately 3 acres of land all open and capable of producing an excellent garden, truck patches or pasture. An excellent small tract suitable for your own home or as an investment.

The owners and Agents reserve the right to regroup Tracts 1 and 2 into one unit and the highest price being declared a sale. Consider the many advantages.

Excellent house on each tract  
Abundant supply of water  
Excellent soil type  
Ideal community, near church, schools & market

Inspect prior to date of sale — make your own financial arrangements and be present to buy.

#### LIVESTOCK

16 Holstein Heifers, good type and breeding, some bred, balance open.

#### EQUIPMENT

- 1 Massey Ferguson 165 Diesel Tractor, perfect condition
- 1 Massey Ferguson 2 row Planter
- 1 Dearborn 2 row Cultivator
- 1 Turning Plow 2 - 12
- 1 4 Wheel Wagon
- 1 Bush Hog, 5 Ft.
- 1 H John Deere Tractor
- 1 2-Gang Disc Plow
- 1 2-Row Cultivator

Real Estate is the Foundation of all Security and an investment in your own farm or home will insure your security. This is your opportunity.

#### Sale to be held RAIN OR SHINE.

Terms: Personal Properties, Cash. Real Estate 20% date of sale, balance with deed.  
Possession with deed.

For further information or to see the property contact the owners

MR. & MRS. G. A. COTHREN — 433-1773

# M ONKS

REALTY CO.  
Fayetteville, Tenn.

Phone: 433-3505  
Tenn. Auctioneers Lic. # 52  
Alabama Auctioneers Lic. # 43

#### Assisted by:

Col. Joe W. Lovin, Tenn. Auctioneers Lic. No. 530  
Col. Bob Keller, Tenn. Auctioneers Lic. No. 41

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# WANT ADS

WANT AD RATES—\$2.50 minimum per weekly insertion, covering first 25 words. 5 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Vergie Robinson Menefee, P. O. Box 5351, Huntsville, Ala. 35805. Deadline is Friday noon, before Wednesday publication.

## 3. Miscellaneous

**ECONOMY PAINTING COMPANY**  
WALLPAPERING & PAINTING  
LICENSED, BONDED, INSURED  
FREE ESTIMATES  
PHONE 534-6195 or 852-2478

1-18c

**INTERNATIONAL HEALTH CLUB**—Massages, Steam Baths. For appointment Call 536-9204.

TFC

**SALESMAN WANTED**—If you are interested in part-time employment. Phone 883-8430 for appointment. It's ideal for military personnel.

1-18c

**THOMAS ROAD LAUNDROMAT & BEAUTY SHOP**—Behind Foodtown on Drake Ave. near Arsenal Gates 8 & 10. Open 7 days. Phone 881-9873 or 533-0298.

1-15P

**HOLIDAY CHILDREN'S ENTERTAINMENT** — INDUSTRY OR PRIVATE PARTIES. Do something different! Have a Puppet Show Birthday Party. We are now booking Christmas Shows. Call WILLIAMS PUPPET SHOWS. Phone 534-4157.

1fc

### NOW AT 1/2 PRICE

**BATTERIES, RE-BUILT STARTERS, ALTERNATORS, AND GENERATORS.**  
JOE DENNY, 852-8460

1fc

### \$\$\$ TOP DOLLARS \$\$\$

**PAID FOR JUNK CARS, TRUCKS & FARM EQUIPMENT.** Call JOE THE JUNK MAN, 852-8460.

1fc

**REPOSSESSED 1974 Singer Zig Zag sewing machine,** button holes, monograms, sews on buttons, all built in. Pay off balance of \$59.95 or finance \$6.25 per mo. Call Credit Manager, 536-1804.

TFC

**YEAR END SALE** — Long bed pickup cover \$179. Installed. Short bed \$175. Carousel Mfg. & Sales & Rentals. Hwy. 72 W., Madison, Ala. Phone 837-5321.

12-18c

**TRAILER COVERS**—\$47.50 to \$55.00 Standard seats. Ready made covers \$37.95 and \$39.95. AUTO CENTER UPHOLSTERY, 2008 Clinton Ave., West. 539-0382.

12-18c

**ACCOUNTANT**—Will keep sets of books, your office or my home. Full service. All tax reports and returns, payroll, etc. 25 years experience. Decatur 353-5758.

12-18-C

## 5. REAL ESTATE

**CITY LOTS**  
SOUTHEAST 3 LOCATIONS. \$4,500 to \$13,500. Northwest, several. \$2,000 to \$3,000. Also small tracts in county.  
ALVIN BLACKWELL REALTY  
539-5749

2-28-C

**TO THE MAN WHO WANTS SMALL ACREAGE** to truck farm or 30 to 40 head of cattle. Bottom land, 25 acres more or less. Good barn, well, fenced, on black top road. Best offer over \$21,000. This won't last long. Phone T. J. McCullough, 883-8430.

11c

**LAND FOR SALE**—5 TO 200 ACRES—Beat inflation. Buy land—for retirement home, country retreat, etc. Excellent location: 9 miles SE Decatur, 25 miles SW Huntsville. 40 acres at \$750./acre, mostly wooded. Other land mostly open. Price varies with acreage. Small down payment. Owner will finance at 8%. Phone 462-3202 after 5:30.

12-18P

### FARMS

270 ACRES, Fayetteville, \$52,000.  
120 ACRES, Fayetteville, \$29,000.  
10 ACRES, Arab, \$7,950.  
20 ACRES, Arab, \$15,950.  
11 ACRES, Morgan City, \$10,000.  
18 ACRES, Elkmont, \$16,500.  
220 ACRES, Elkmont, \$24.9 per acre.  
REDSTONE REALTY & FARMS  
539-5800

1TC

**OWNER MUST SELL**—VACANT NEAR ARSENAL AND McDENNEL'S SCHOOL—\$15,900

Beautiful 3 bedroom, all carpeted, new central air. Huge den, newly painted inside and out. Stove, refrigerator and dryer. Can be bought VA-FHA or equity. Owner will finance.  
RFDSTONE REALTY & FARMS  
539-5800

1TC

CHEAPER THAN RENT, NEAR ARSENAL. NO CLOSING COSTS.

\$120

monthly payments is all you pay for VA purchase on this newly decorated 3 bedroom home on a huge lot. 2 ton air unit. Stove, refrigerator, dryer.  
REDSTONE REALTY & FARMS  
539-5800

1TC

**RETIRE AND GET RICH!** 2 houses on large adjoining lots just off Jordan Lane near Gate 10. Zoned apartments. Total price \$21,950. Live in one, rent the other!  
REDSTONE REALTY & FARMS  
539-5800

1TC

## 7. PETS

**REGISTERED 1/2 ARABIAN & 1/2 QUARTER horse.** Dark brown gelding, spirited. \$350. Phone 837-6458.

1tc

**LET US BOARD YOUR PETS**—While you are away. Complete line of Dog Supplies & AKC Puppies. Reasonable Rates. Inside and Outside Kennels. ALLEN'S KENNELS 852-6417.

1-15c

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**AUTO - MOTOR - HOME**

**WHY?? pay High Risk RATES for YOUR INSURANCE??**

CALL NOW

**TOM HORTON AGENCY**  
- 881-0352 -

**AB Stephens**  
music inc.  
HEART OF HUNTSVILLE  
Phone 534-3379

**CHRISTMAS GUITAR SALE**

From **\$25**



**LOWEST PRICES IN HUNTSVILLE**

## TV Rentals

**RCA LATE MODELS—UHF-VHF**

\$1.00 a Day—\$5.00 a Week—\$13.50 a Month

**BANNER TV AND APPLIANCE CO., INC.**

501 NW Memorial Pkwy.  
3 Blocks South of The Mall  
SALES & SERVICE  
PHONE 539-3411

• RCA, WHIRLPOOL APPLIANCES  
• RCA VICTOR TV

## UNIROYAL TIRES

**STEEL RADIALS**

Ask about our 40,000 mile Conditional Guarantee



\* Spin Balancing  
\* Brake Service \* Shock Absorbers  
\* Wheel Alignment \* Racing Tires  
\* Certified Retreads made in our own plants  
\* Master Charge & BankAmericard

**Tom Sharp**  
**TIRE SERVICE**

**3 LOCATIONS**

\* 2001 Bob Wallace Ave -- 534-0629  
\* 2714 Clinton Ave W -- 539-3482  
\* 2901 University Ave -- 533-5360

## OPENINGS FOR 4 & 5 Year Old Kindergarten

HALF DAY OR FULL DAY CARE  
EXPERT TEACHING AND CARE.

**Triana Village Christian School**  
3217 VILLAGE DRIVE, S.W., HUNTSVILLE, ALA. 35805  
PHONE 881-0253

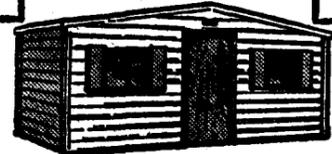
## A. A. PORTABLE BUILDING CO.

**BANK FINANCING FACTORY DIRECT PRICES**

**HOUSE TYPE FRAME**

**STORAGE WORKSHOPS GARAGES ETC.**

8 x 10 ft. Up  
12 x 24 ft.



Delivery Anywhere  
Up To 50 Miles  
Home Owned

**837-4595**

1 Block N. of Govs. Dr.

117 JORDAN LN., N.W.

## IS YOUR CAR OR TRUCK TIRED?



Let Us Revitalize it with our Winter....

## TUNE-UP SPECIAL

• New Points • New Plugs • New Condenser • GM Parts  
• Set Timing and Dwell • Check Firing System  
• Adjust Carburetor

<b>8 CYLINDER</b>	<b>6 CYLINDER</b>	<b>4 CYLINDER</b>
Reg. \$33.54	Reg. \$28.78	Reg. \$24.60
<b>NOW</b>	<b>NOW</b>	<b>NOW</b>

**\$27.35 \$23.35 \$21.55**

(All Filters Extra)

## BRAKE RELINE-NEW GM BRAKE SHOES DRUM DISC

Reg. \$54.92

Reg. \$63.52

**NOW \$39.80**

**NOW \$49.00**

Offer Good On All Passenger Cars and 1/2 Ton Trucks  
TURN DRUMS AND DISC EXTRA

## DELCO SHOCKS

Regular \$60.80 **NOW \$45.00**

(Includes Installation)

EFFECTIVE NOVEMBER 25 thru DECEMBER 15  
PLEASE BRING THIS AD

**Royall**

**CHEVROLET**

CORNER OF WASHINGTON & PRATT AVE. PHONE 539-6541

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(Serving the Entire Southeastern States)

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PLANT 2310 TRIANA BLVD.

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**USED CARS**

We Pay Top Prices for All Makes and Models . . .

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COME IN TO **AATSCO TRANSMISSION**  
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FOR A FREE TRANSMISSION CHECK OUT BY AN EXPERT

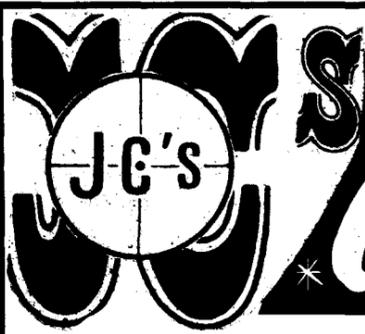
"We Don't Make A Little Job Into A Big One"

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ALSO

Engine Tune-ups Minor Or Major.

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# Christmas Gift Sale!

**GIVE YOUR HOLIDAY BUDGET A BOOST WITH THESE BUYS!**

REM. MOHAWK M-10  
**22 Cal. Rifle**  
 W/4X Scope, Semi-Auto. W/Clip  
 Reg. 69.95 **Sale \$49.99**

SHERIDAN BLUE STREAK  
**Pellet Rifle**  
 Reg. 54.95  
**Sale \$43.50**

**Daisy M-880**  
 177 Cal. or BB  
 Reg. 29.95  
**Sale \$26.99**

CAMOFLAUGE INSULATED  
**Coveralls**  
 W/Hood  
**Only \$29.95**

**10 ONLY Win. M-94 30-30**  
 LEVER ACTION  
 Reg. 115.00 **Sale \$89.95**

**Fishing LICENSES & INFORMATION**

- Gun Racks
- Truck Racks
- Rod Racks
- Shooting Glasses
- Reloaders
- Reels, Ambassador 5000, 5500C
- Custom Pro Flex Rod
- Depth Finders
- Hats, All Types
- Archery Equipment
- Scopes
- Flashlights, Boots, Vests, Rain Suits,
- Waders, Duck Calls, Duck Decoys,
- Coleman Stoves & Lanterns,
- Recoil Pads, Trolling Motors,
- Batteries,
- Knives, All brands just about.

**2 ONLY BRO GRADE 1**  
**308 Auto.**  
 Reg. 289.95  
**Sale \$249.95**

THIS WEEK ONLY  
**Snowmobile Suits**  
 Gold or Navy,  
 Complete W/Hood  
**Only \$44.95**

**1 ONLY Win. NRA 30-30 Rifle**  
**Only \$150.00**

**1 ONLY Win. M-70**  
 225 CAL. Heavy Barrel Reg. 225.00  
**Sale \$174.50**

**1 ONLY COMPLETE SET OF Case Knives**  
 Stag Handles, In Wood Box.  
**Only \$1100.00**  
 A GREAT INVESTMENT

**1 ONLY Beretta 10-Ga. DOUBLE BARREL**  
 Like New  
**Only \$250.00**

**1 ONLY Win M-24**  
 12-GA. Good Condition  
**Only \$165.00**

**GIFT CERTIFICATE**

**Sav. M-74**  
 22 CAL. FAVORITE  
 Octagonal Barrel.  
**Only \$59.95**

**1 ONLY Win. M-63**  
 22 AUTO. W/Scope.  
 Good to excellent condition.  
**Only \$169.95**

**Daisy BB Guns**  
**Also in Stock**



**J&S GUN & TACKLE SHOP**  
 Phone 539-9688  
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