

Army Nurse

Corps Week,

Jan. 31-Feb. 6

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XIII; NO. 38

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 3, 1965

Explorer-I Team Marks Seventh Anniversary

Credit Union Assets Up 3.7 Million

The Redstone Federal Credit Union held the annual meeting last week at the Morris Auditorium to elect new members to the Board of Directors and the Credit Committee.

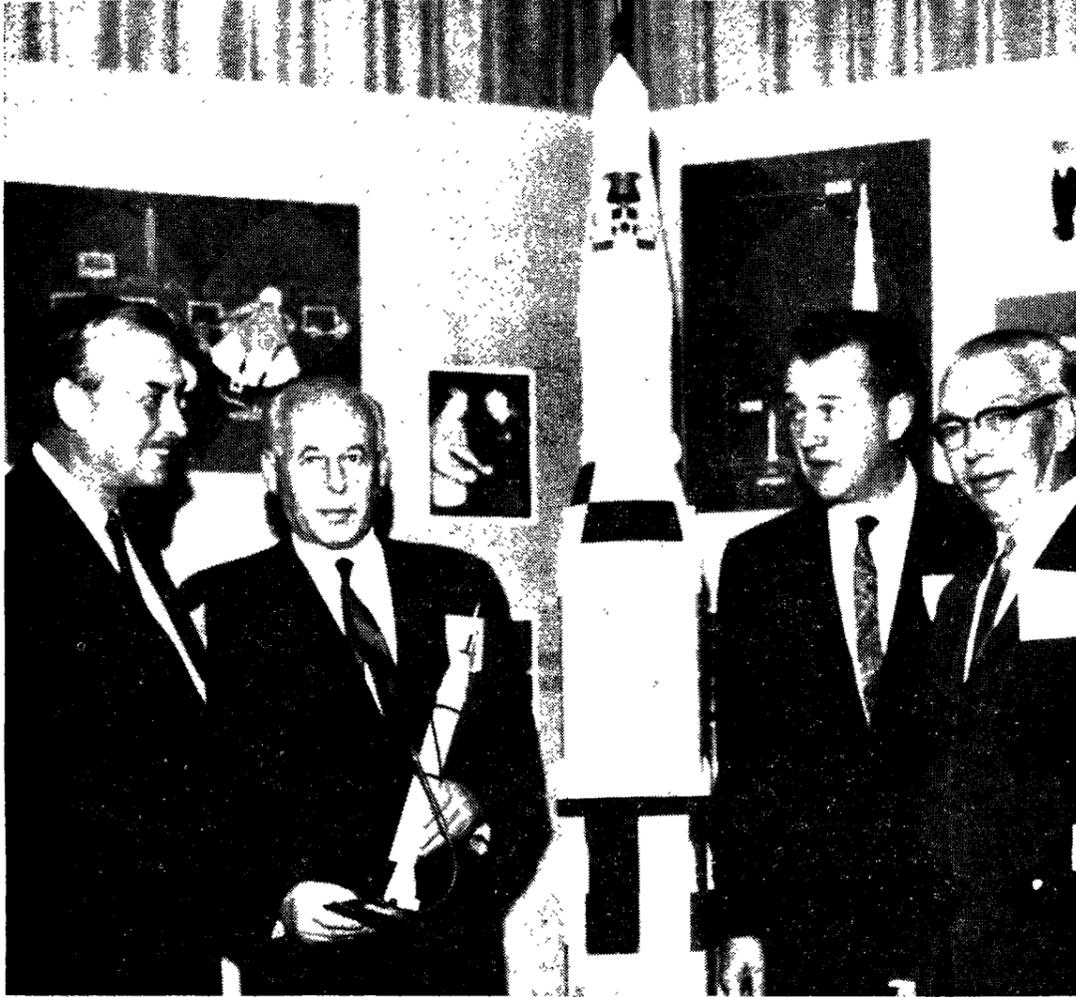
The president, Harold C. Carpenter, delivered his report to the members. He was reelected to serve as president in 1965.

Carpenter pointed out that assets registered a record rise of \$3.7 million in 1964 compared with \$1.7 million gain in 1963.

Among other changes Carpenter noted in his report was a loan policy amendment to authorize real estate loans raising the maximum equivalent to 75 per cent of the appraised property value, up from 60 per cent. He announced the contract for microfilming and conversion to a data processing accounting system.

Plans for a building, for which funds have already been reserved, was included in the report with a prediction that the plan may become a reality in the first part of 1965. Carpenter is the treasurer of the Credit Union National Association which is now CUNA International, as well as a national director.

Other officers of the local organization are Luther F. Adams, first vice president; L. D. Craig, (See CREDIT UNION on Page 3)



HONOR MEDARIS—Members and guests of the Fort Bliss Oldtimers Association gathered at Redstone Arsenal last Friday night to honor retired Maj. Gen. John B. Medaris and observe the seventh anniversary of the launching of the Explorer I satellite. Left to right are Medaris; Eberhard Rees, deputy director of Marshall Space Flight Center; Maj. Gen. John G. Zierdt, commanding general, Army Missile Command; and Msj. Gen. John A. Barclay (Ret.). Rees holds a model of the Jupiter-C missile which launched the Explorer Jan. 31, 1958. Standing beside him is a model of the Saturn 5 moon rocket—built to the same scale as the Jupiter-C model. (Photo by William McCormick courtesy of the Huntsville Times).

The team and the community which shared the triumph of Explorer I honored Maj. Gen. John Bruce Medaris (Ret.) Friday night and drew words of praise from him in return.

Medaris, former Commanding General of the Army Ballistic Missile Agency, was named an honorary citizen of Huntsville and Madison County at the special meeting of the Ft. Bliss Oldtimers called to honor him and commemorate the seventh anniversary of the launch of the Free World's first scientific earth satellite.

The 200 persons attending including representatives from the Army agencies at Redstone, Marshall Space Flight Center and the community spent an evening swapping stories, watching films and listening to personal recollections of key members of Medaris' old team who put the United States into space to stay.

Maj. Gen. John G. Zierdt, Missile Command CG who as a colonel, had been Chief of the ABMA Control Office, said that Explorer I "always has had and always will have a special significance to the U.S. Army." Gen Zierdt said the Army elements here were proud to join their neighbors in honoring Gen. Medaris whom he called "a great soldier."

Dr. Wernher von Braun, Director of MSFC, told Medaris that the memory of his leadership in the past "will guide us in the difficult days ahead."

Glenn Hearn, Huntsville's Mayor, and James Record, chairman (See EXPLORER I on Page 3)



SIGNS TELL THE STORY—Over the portals through which cars pass at Redstone Arsenal's Main Gate are signs warning motorists that safe driving is the way to stay alive. In foul weather the sign is even more provocative for the thoughtful motorist. It cautions the driver to reduce speed and obey the 35 mile limit all over the post on days like Monday which dawned with icy highways to greet the early morning drivers. The Provost Marshal Division recently hung the signs. The MPs are PFC Dan Steurys of Marion, New York, in the foul weather gear, and PFC Kenneth W. Ryan of Birmingham under the fair weather sign.

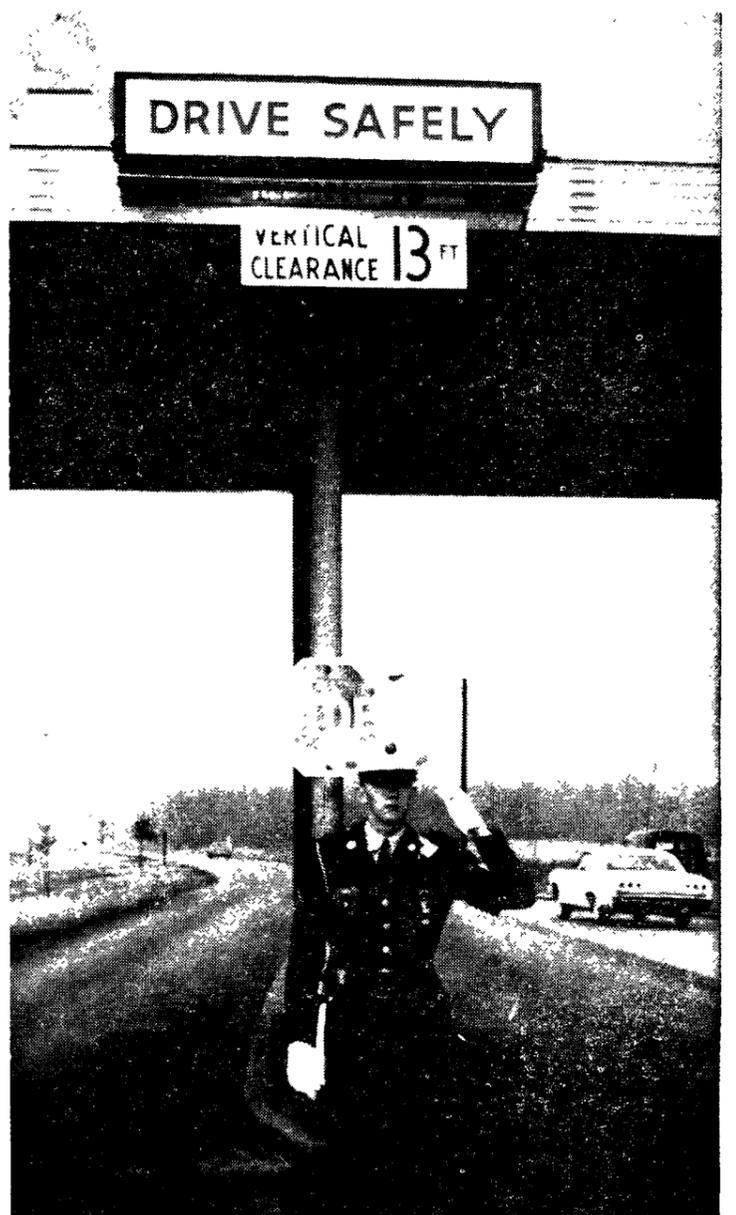
PRESIDENT NAMES COL. T. T. PAUL TO RECEIVE STAR

Col. Thurston T. Paul, former Commander of the Army Ballistic Missile Agency, and a respected member of the Redstone "Alumni", was among those officers named Monday by the President for promotion to Brigadier General.

Another was Brig. Gen. Clarence Haug, who formerly held the Corps of Engineers staff position in the Army Ordnance Missile Command Headquarters. He was selected for promotion to two-star rank.

Col. Paul is currently serving in Japan. Gen. Haug is on the Army Materiel Command Headquarters staff in Washington.

Other AMC general officers included in the new list for two star (See PRESIDENT on Page 3)



The Redstone Rocket

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Rocket Ruminations

More than an end of war, we want a beginning to the end of all wars.

—Franklin Delano Roosevelt

Military Nurses Foremost Among 'Angels Of Mercy'

Since the days of Florence Nightingale, nurses in the armed forces have saved the lives of countless servicemen, progressed in the field of nursing and have brought modern and technical knowledge of medical care to servicemen on the battlefields. The Army Nurse Corps, the "angels of mercy" in one branch of the armed forces, observed its 64th Anniversary Feb. 2, 1965.

Normally when one thinks about a nurse's job, one pictures her in a clean white uniform, going from one sparkling ward to another in a completely-equipped hospital. But nurses in the armed forces don't always have it quite so good. Often they are required to administer their aid in a hastily-erected, dimly-lit hospital tent, or while running through the mud alongside an injured serviceman on a stretcher headed for a rear area.

In World War II flight nurses were trained for air evacuation, at that time a new concept in field nursing. Nurses were flown into places like Omaha Beach after the Normandy invasion. Flying over a fogged-in channel much of the time, flying under clouds and over ship masts or flying above the clouds with the possibility of their planes being mistaken for enemy aircraft was one of many ways they proved their dedication. One of the pioneers in flight nursing in World War II was Colonel Ethel R. Kovach. In 1963 she was appointed chief of the Air Force Nurse Corps.

While caring for their patients on the battlefields of World War II and Korea, nurses were in danger of being captured and placed in prisoner of war camps. The Army's most decorated nurse, Colonel Ruby G. Bradley earned the name of "Angel in Fatigues" during 37 months as a prisoner of war of the Japanese.

In the Republic of Viet-Nam today, nurses are still at the "front," caring for wounded and ill servicemen. On December 24, 1964 four Navy nurses were injured by an explosion of a Viet Cong terrorist bomb in the hotel where they were staying. They would not let doctors treat their wounds until after they had helped care for 58 Americans and one Australian who had been injured. These four nurses became the first women in the armed forces to receive the Purple Heart for injuries caused by hostile action in Viet-Nam.

On the occasion of the 64th anniversary of the Army Nurse Corps, a tribute is due to nurses of all branches of the armed forces for their tireless devotion to duty. They play a vital role in caring for the lives of servicemen protecting our nation. (AFPS)



TOP LABOR-MANAGEMENT NEGOTIATORS—Discussion on amendments to the labor agreement covering employees of the Army Missile Support Command at Redstone Arsenal is now underway. The chief negotiators are Col. David A. Marcelle, left, for the Army, and Dennis Garrison, representing Lodge 1858 of the American Federation of Government Employees. In the center is Col. Thomas A. Cooke, AMSC Commander.

Hawk Conference Gives Technical Know-How To Men

Missile Maintenance Technicians stationed with the Hawk Air Defense Missile around the world have been at Redstone Arsenal the past three weeks taking an in-house New Equipment Training (NET) course.

This course on the Hawk simulator is the first of a NET concept which insures that technical know-how is available in the field before equipment is deployed. The Technical Assistance Division of the Army Missile Command's Supply and Maintenance Directorate presented the course.

Other than maintenance technicians assigned to Hawk sites in this country and overseas, among the 16 students were representatives of Fort Sheridan, Ill., and the Hawk Project Office and Publication Division of the Supply and Maintenance Directorate at the Missile Command.

The Hawk is the Army's mobile

missile system to kill low altitude aircraft. The slender, 17-foot-long missiles "home" in on their targets via radar.

Hawk batteries are located both in the United States and overseas. Charles J. Cremeen and Vester

H. James instructed the course. They are in the Hawk Section of the Air Defense Branch, Technical Assistance Division, Supply and Maintenance Directorate. Howard W. Heitmann is Chief of the Hawk Section.

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CALENDAR OF EVENTS

Feb. 8—AFGE Lodge 1858, Doris Recob.

Feb. 8—Society of Non-Destructive Test Engineers. O. D. Hartley.

Feb. 11—Society of Technical Writers and Illustrators. Jack Marsden.

Feb. 11—Fleet Reserve Assn.

Feb. 18—Federal Bar Assn. Harold Speake.

Feb. 18—Federal Government Accountants Assn.

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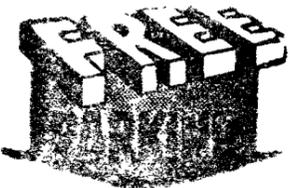
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EYES ON THE FUTURE—Four officials from Washington, D. C., and their hosts at the Army Missile Command look over an experimental weapon on a recent visit. They are, from left to right: Dick Moran, Office, Comptroller and Director of Programs, Army Materiel Command; Robert C. Lowery, Director of Programs, Comptroller and Director of Programs; Harvey Levin, Office, Director

of Procurement and Production, Materiel Command; Leo Carten, Office, Director of Materiel Readiness, Materiel Command; John Cove, Office, Secretary of Defense; William Lloyd, Research and Development Directorate. Explaining operation of the hardware is William Newman, GSE Laboratory, Research and Development Directorate.

PRESIDENT

(Continued From Page 1)

rank were Brig. Gen. Roland Anderson, CG of the Weapons Command; and Brig. Gen. Lawrence E. Schlanser, Deputy CG of the Test and Evaluation Command.

of the credit committee. Mrs. Jones was elected to a three year term on the Credit Committee.

GRAPPLING HOOK

Lose something overboard? Make your own grappling hook to find it. Just open all the hooks on your chain stringer. Tie a heavy cord on stringer and drag it along bottom. Sooner or later hooks will grab lost object.

Defense Documentation Briefings Set In Area

A series of briefings on the technical documents available to local government agencies and their contractors will be given at Redstone Arsenal beginning Feb. 8 by representatives of the Defense Documentation Center in Washington, D. C., and the Redstone Scientific Information Center.

The briefings, which will last approximately one and one-half hours, will be given by Lt. Col. Ray Dinsmore, Army Liaison Officer for DDC; John M. Berry, chief of the DDC Field Services and James P. Clark, chief of Reader Services at RSIC.

The first briefing will be held in the Rocket Auditorium on Red-

stone Arsenal at 10 a.m. on Feb. 8. At 2 p.m. the same day, the briefing will be given at the Huntsville City Utilities Building.

On Feb. 9, the briefings will be given at the Brown Engineering Company at 9:30 a.m., and at the Chrysler Corporation at 2 p.m. On Feb. 10 the briefing team will be at the Boeing Company at 10 a.m., and will move to the Lockheed Company for a briefing at 4:30 p.m. On Feb. 11 the IBM Corporation will be briefed at 10 a.m., and Wyle Laboratories at 3:30 p.m.

The briefings will be of special interest to information librarians and all scientific and technical personnel, especially those invol-

ed in testing, design, development, specification writing, contract preparation, and technical procurement.

The Defense Documentation center is the central depository of the Department of Defense for research and development reports. The RSIC is jointly funded by the Army Missile Command and the Marshall Space Flight Center, and is administered by the Command's Directorate of Research and Development.

The collection of the DDC contains more than 700,000 scientific and technical reports. A field office collection of this material is maintained by RSIC, which acts as the local agent for DDC in servicing demands in Huntsville and the surrounding area.

EXPLORER I

(Continued From Page 1)

of the County Commission, read resolutions adopted by the community governing bodies granting honorary citizenship to Medaris. Will Halsey, presented the general with a copy of a plaque which is to be mounted in the new city hall honoring the general.

Medaris, confessing that "I almost can't find my way around here anymore," had high praise for the enlightened civic leadership which has guided the orderly growth of Huntsville and Madison County.

"We had, and I believe there still is here, the greatest team that has ever been put together in the fields of space and missiles for defense," he said.

Robert Mello, former Chief of Civilian Personnel for ABMA and AOMC and now a high official of the Civil Service Commission, was toastmaster for the program which also included remarks by Dr. Eberhard Rees and William A. Mrazek of MSFC and Maj. Gen. John A. Barclay (Ret.).

CREDIT UNION

(Continued From Page 1)

second vice president; J. W. Her-ring, secretary; Ralph Dalton, treasurer; C. G. Babcock, treasurer.

The Supervisory committee is headed by James Blackburn and includes Eldon J. Hoar and John J. Dallas.

Paul Bungard is chairman of the Credit Advisory Committee. Another member besides Mrs. Katy M. Lyle will be appointed by the Board Feb. 18.

Luther Adams is chairman of the personnel committee; Ralph Dalton of planning, and L. D. Craig of building.

The Board of directors includes Adams, John D. Stephenson, Brig. Gen. H. P. Persons, Jr., James G. Thomas and Ralph A. Dalton. Mrs. Ruth K. Jones is administrative assistant to Roy Hollihan, general manager, and last year's chairman

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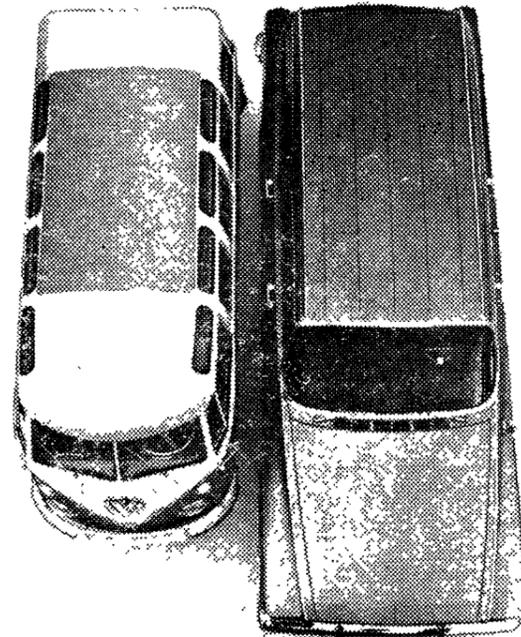
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AWARDS REPRESENT OVER 7,000 PINTS OF BLOOD—Unit blood coordinators from organizations around the Arsenal gathered in the office of Col. Thomas Cooke, last week for a presentation of awards recognizing leading elements in the Red Cross Bloodmobile program last year. Redstone personnel donated a total of 7,305 pints of whole blood during the year. This is over 25 per cent above the quota of 500 pints per month. Pictured above are the representatives of the award winning organizations. They are, (left to right): Col. William Luk, Arsenal Blood Coordinator; Earl Bosser-

man, Rohm & Haas; Sgt. D. T. Lewis, 13th Ordnance Det.; Capt. E. J. Kidd, 291st Military Police Company; Nancy Askew, Calibration Center; William Stone, Rohm & Haas; Elise Fusch, Finance & Accounting; Steven Countess, Rohm & Haas; Maj. F. D. Thompson, Troop Command; James Blackburn, Employment Services Div.; F. B. Dykes, Assistant for Personnel and Administration; and A. G. Scarborough, representative of the American Red Cross Field Office.

Bloodmobile Donors Given Awards For Participation

The outstanding performance of Redstone personnel in the Red Cross Bloodmobile program during 1964 was recognized during an awards ceremony in the office of the Arsenal Commander, Col. Thomas W. Cooke.

Unit participation trophies were awarded to the 291st Military Police Company and the 13th Explosive Ordnance Detachment with civilian participation awards going to the Assistant for Personnel and Administration and the Rohm and Haas Company.

In addition to the organizational awards that are presented locally, the Red Cross Certificate of Appreciation was presented to the Troop Command in recognition of their outstanding cooperation with the Madison County Chapter Blood program.

During the year Redstone personnel contributed a total of 7,305 pints of blood during the monthly visits of the Bloodmobile. In each of the twelve months the quota of 500 pints was surpassed.

Among the military units on post the Military Police organization was the winner of the trophy for participation among the units with 100 or more personnel while the EOD unit won the distinction among the units with less than 100 assigned personnel.

The MPs donated a total of 493 pints of blood during the year and took the monthly award eight of the twelve months.

The small unit award was not established until the middle of the year and the 13th, an OGMS assigned unit, had the highest percentage of participation on three occasions.

The major civilian element participation award went to the Assistant for Personnel and Administration. This award is made to

units with 500 or more civilian employees.

Included with the Assistant are the Calibration Center, the Patent Center, Finance & Accounting and Civilian Personnel. The combined forces of these organizations had a total of 109 donors during the year.

The Rohm & Haas Company received the Red Cross plaque as the leading small civilian element in participation. This category includes organizational units of 500 or less personnel.

The contractor organization provided a total of 43 donors during the year.

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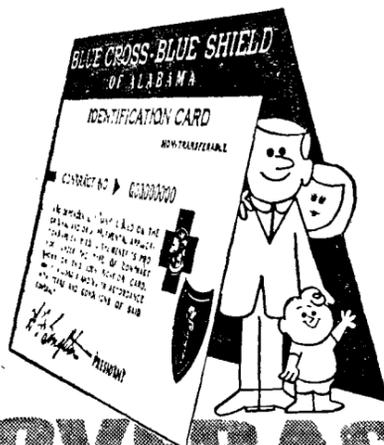
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ROCKETS VISIT McCLELLAN—The Redstone Rocket cagers are finishing their practice sessions this week in preparation of an invasion of Ft. McClellan for a pair of weekend encounters. The games are the first of several to be played by the Rockets in preparation for the Third Army tournament slated for the latter part of March. Pictured above are a quintet of players who will be seeing action in the games this weekend. They are (left to right) Ed Morehart, Mel Anderson, Mike Stuart, Frank McMillian and Ron Percifield. McMillian averaged almost 30 points per game in leading the Unit Level league in scoring this year while Stuart was second and Percifield third in the individual scoring derby.

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200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Cash You Get	MONTHLY PAYMENT PLANS		
	12 paymts	24 paymts	30 paymts
\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

Above payments include principal and interest. Life Insurance is available at group rate on loans above \$100.

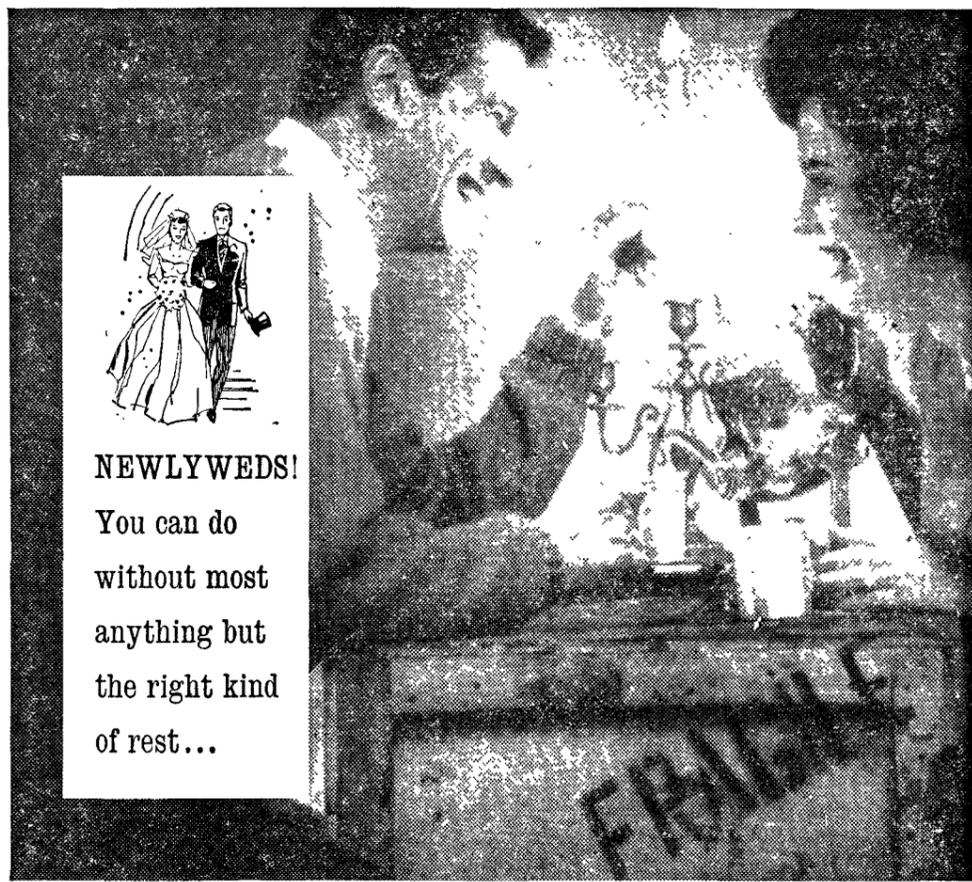
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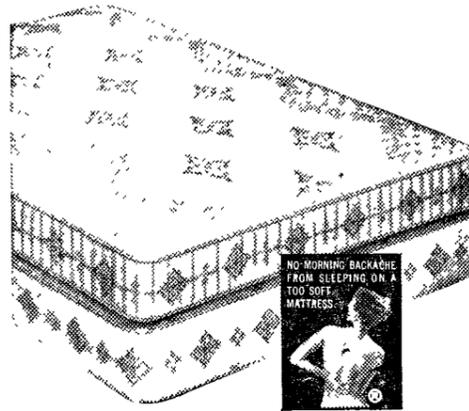
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The quietness of the gym is pierced by the sound of several deep breaths and muscles begin to bulge on the prone figure on the wooden bench as the 75-pound barbell rises . . . seven . . . eight . . . nine times. A short rest, and the weightlifter grabs a pair of smaller, lighter dumbbells and starts reaching for the ceiling.

There's nothing unusual about this scene, which is repeated every Wednesday morning at the Army Special Services Workout Facility at Redstone Arsenal, except that the weightlifter is a woman.

If you think of a lady weightlifter, which most people don't, the vision probably is of an Amazon wrapped in mountains of muscles. But, Donna Friesz, wife of an Army officer stationed at the Army Missile Command, looks more like a ballet dancer. She's five-foot, six-inches tall and weighs 127 pounds, all well proportioned.

Donna started lifting weights six months ago to supplement her free exercise plan. "I ache from using them (the weights)," she says, "but I feel better. It strengthens my shoulder and back muscles, and I'm able to handle our two children and bags of groceries better."

Weightlifting is a family affair in the Friesz household. Capt. Leonard Friesz has a "closetful of trophies" from competition all over the country the past ten years. He has won the Dixie Open Championship in Chattanooga, Southeastern States Championship in Birmingham and Missouri State Championship.

"I guess my biggest win was the Junior National Championship in 1962," he says. "I placed third in my class. I'm going back to the Junior National in Cleveland next May and hope to do better. At least, I'm training for it."

Friesz says he started lifting weights while his father was stationed with the Army in Tokyo. "I was a 97-pound weakling then," he adds. Now, he weighs 200 pounds, and has pressed 275-pound



THE LADY IS A WEIGHTLIFTER—Mrs. Donna Friesz, wife of a Redstone Arsenal Army officer, has been lifting weights for the past six months to supplement her exercise plan. The 127-pound housewife says that working out with dumbbells and barbells keeps her in shape and ready to handle heavy bags of groceries on her weekly shopping trip.

barbells, snatched 250, and clean and jerked 330.

Redstone's lady weightlifter is the former Donna VanderBeek of Pella, Iowa. She caught the 'habit' of lifting weights from her husband when they were living in Columbia, Mo. "I had not been exercising before I got married," she says. "Then I got to watching Debbie Drake's exercise program on TV, and began working out with Leonard in the basement." Since then she has handled as much as 90 pounds in her lifts.

Weightlifting hasn't caught on as much as girdles for trimming the figure, according to Donna, but there are indications it may become more popular with the weak-

er-getting-stronger sex. Most of the weightlifting magazines on the newsstand now have sections devoted to women. Sporting goods stores even stock dumbbells and barbells designed with the lady in mind, covered with plastic and in her favorite pastel color.

Donna doesn't recommend that a woman depend solely on weightlifting to keep healthy and in shape. "Just using weights," she says, "your tendons get tight. Women prefer to keep limber. So, it's good to use weights to supplement some free exercise plan."

It is possible to get hurt lifting weights and Donna advises any woman thinking of using them to work under supervision at first. She could drop a barbell or pull a muscle. Blacking out from lack of oxygen is uncommon in weightlifting, but can be caused by not breathing properly or overexertion during workouts.

The Redstone Workout Facility and its weights, vibrator, bicycle and sit-up boards, are reserved for women every Wednesday morning. Recently, the gym echoed from what sounded like an international gossip session. Inside were the six women who regularly come down for workouts—two Germans, three Italians and Donna Friesz, all wives of servicemen stationed on the post. "They outnumber me and I guess I'm going to have to learn a new language," says Donna.

Looks like women have infiltrated another corner of society usually thought to be reserved for men. Whether it catches on or not, husbands probably prefer that their wives not lift weights, because if the madam handles a dumbbell during the day, then she's in better shape to wield a rolling pin at night.

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Officers	5	5	0
C Company, STC	5	5	1
German No. 3	5	5	1
291st MP Co.	3	3	2
AMSC	2	2	3
German No. 1	2	2	3
German No. 2	1	1	3
1st ETC	0	0	5
3rd ETC	0	0	5

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3901 VOGEL DRIVE

Near Davis Hills School. 3 bedrooms, 2 baths, living room and dining room, large lot with trees. \$2000 equity and assume VA loan.

3307 BARTON AVENUE, NW

Large three bedroom home in Oakmont. 2 baths, living room and dining room, kitchen and family room combination, sliding glass doors. Patio. On nice lot. No down payment on GI loan with \$200 closing. Minimum down FHA.

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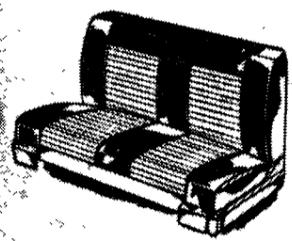
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MPs Favored In Basketball Final Tournament

The unbeaten MPs are heavily favored to make it a clean sweep of Unit Level basketball honors by adding the playoff tournament crown to the regular season title already hanging from their belts. Play in the double elimination affair opened on Monday with the final game slated for next Tuesday. The top eight teams in the regular season play earned the right to compete in the tournament.

The Military Police made it twelve straight in their final game of the season when they took the measure of 1st ETC, 74-62, in a game that brought together three of the top four individual scorers in the league.

Big Viking Stuart ended the evening with 25 and Ron Percifield added 18 more for the MPs while Frank McMillan added to his league leading total with 23 points in the losing cause.

Sportsmen To Install '65 Officers At Dinner Meet

The Redstone Sportsmen's Club will install officers at dinner in the NCO Club Monday night at 7 p.m.

Also on the program is Thomas Atkeson, manager of the Wheeler National Wildlife Refuge in Decatur, who will talk about how the Refuge helps wildlife and how sportsmen can help to preserve wildlife.

A film from the Georgia Game and Fish Commission will also be shown. It shows poachers and packs of wild dogs which contribute to the decimation of deer herds.

The new officers to be installed are: SFC Pete Petinger, president; Lt. Frederick R. Pinkerton, first vice president; Capt. Estel Hobbs, second vice president; Gunnery Sgt. James E. Latham, third vice president; SFC Irving C. Stimson, secretary; and SFC Joseph Cormier, treasurer.

Membership in the Sportsmen's Club is open to all active and retired military personnel. Eligible sportsmen are invited to attend the dinner.

S/Sgt. D. L. Carrol, Bldg. 3325, is collecting dues at present. The dues can also be paid at the dinner meeting.

Quality Not Quantity Marks Handball Tourney

Quality rather than quantity seems to be the word in connection with the early entries to the post-wide handball tournament to be staged this month.

While the number of entries received to date points to a smaller field than in previous years, the appearance of several of those who have entered provides assurance that the matches will be hard-fought and closely contested.

Among the early entrants are Captains Tony Johnson and Dan Bowlus, and Lt. Wilson Miles, all from OGMS. In practice sessions each of the three appears to be right at home on the court and capable of walking off with all of the honors.

All three will participate in singles with Johnson and Bowlus combining their talents for a shot at the doubles crown.

Sgt. Irv Lyles of Special Services said that entries for the meet are still being accepted at the Workout Facility in Building 3474.

The second place Officers and the third place STC five also tuned up for the tournament with wins in the final regular season contest.

The Officers followed the lead of Dave Collier to hang up a surprisingly easy 58-24 win over MICOM. Collier scored 14 points despite setting out almost half of the game while Ed Brown led MI-

COM with 11.

STC had a rougher time of it before coming out on top of B Company, 54-42. The upset-minded B Company cagers were not denied until the closing minute when STC scored four quick goals.

Jerry Warden dropped in three of the last minute goals and ended the evening with 19 points. Ed Smith tallied 11 in the losing

cause.

The only two-time winner in the closing week of the season was the 4th ETC five which claimed wins over MICOM and the Marines. The pair of wins enabled the 4th to qualify for the playoffs.

The Support Command had just the opposite kind of luck dropping

a pair of contests to A Company and the 3rd ETC. The former was an overtime affair with A Company coming out on top by a 67-65 count.

Mel Anderson, the loop's No. 3 scorer, contributed 25 points to the AMSC cause while Ed Taylor set the winning pace with 19.

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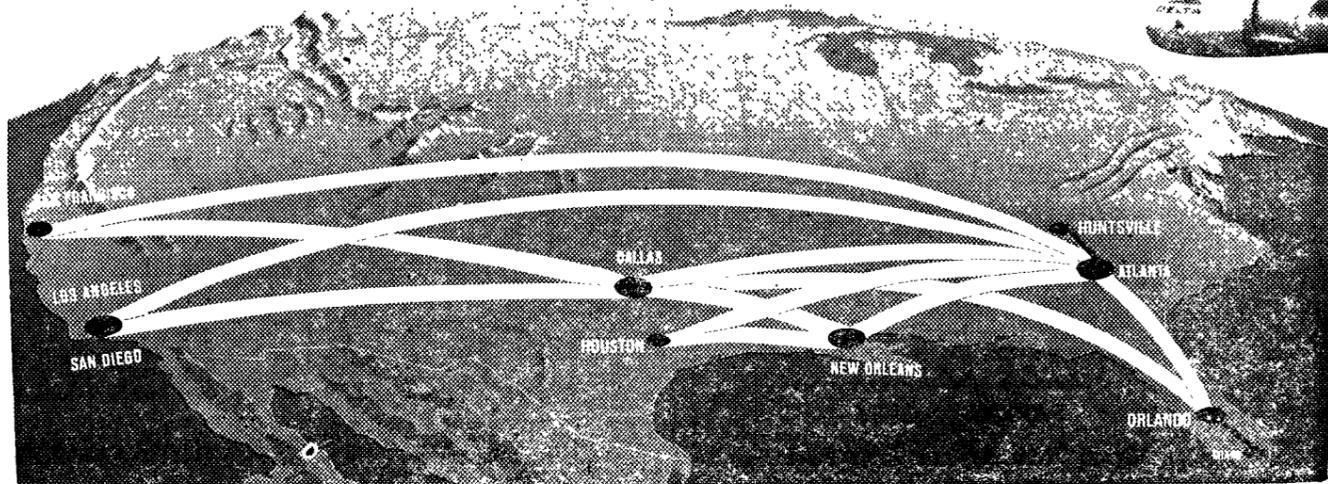
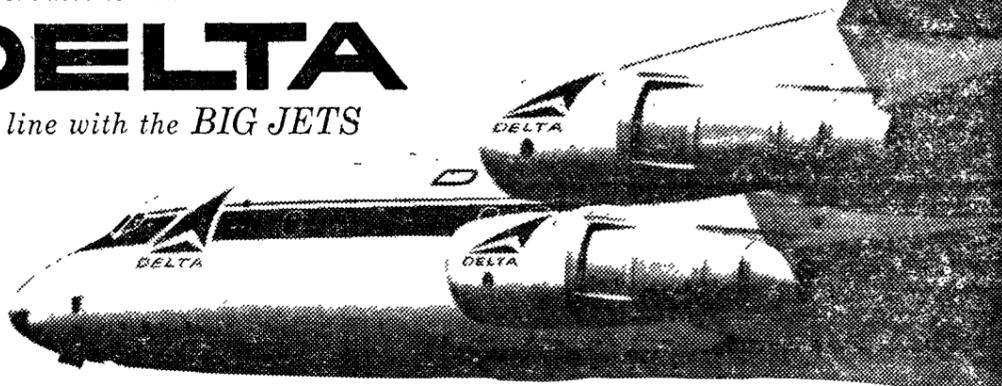
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Wives Show Exotic And Practical Treasures

Wives of officers at the Ordnance Guided Missile School switched from the usual Coffee Klutch bi-monthly at the Redstone Arsenal Officers Open Mess and filled the club ballroom with "travellers' treasures," a display of the many exotic and useful items the women collected on overseas assignments with their husbands.

They also dispensed with business and held a social among the items representing the Pacific Islands, Asia, and Europe.

German silver services in traditional and modern patterns were on display along with needlework, porcelain, and ceramics.

One of the most striking vases on the tables was a crystal vase, from Switzerland, filled with a filament bouquet. The vase was exquisitely cut, and the bouquet of filaments made it a conversation

piece without flowers.

Hammered copper and brass was included in several collections. The Hawaii collection was basically of wood—bowls, trays and plaques. From the Philippines among the usual oriental needlework, and metal lacquer items was a wood-carved head of Christ crowned with thorns.

The Japanese table was covered with dainty handiwork of the Japanese artists and craftsmen. Greece was represented by many items, including tapestry, the center of interest a group of dolls in a circle ready to break into a rollicking dance as the music starts.

The whole was so impressive that no one individual could possibly see everything. One would notice the perfume from France, another the windmill miniature from Holland, the fans and laces from Spain or the gloves from

Italy.

In charge of this arrangement as overall chairman was Mrs. W. A. Leonard. Her committee included Mrs. Gerald Birch, decorations chairman, helped by Mrs. Gerald Wetzel, Mrs. Robert Brothers, and Mrs. David Binau, Mrs. Wilbert Johnson, coffee serving table with Mrs. John Ver Beek; Mrs. Jack Lowers, name tags and Mrs. Carter Brown; and Mrs. Hardy Owen, reservations.

Background music was played by Mrs. Charles Richards on the

Page 8

The Redstone Rocket — February 3, 1965

piano. Members of the organizations numbered 160 at the event. Many of them were donors to the various exhibits.

Pourers included Mrs. R. H. Lee, Mrs. Jack Lower, Mrs. Robert Brothers, Mrs. W. T. Johnson, Mrs. David Binau, Mrs. John Ver Beek, Mrs. Hardy Owen, Mrs. Carter Brown, Mrs. Gerald Wetzel and Mrs. T. E. Powell.

Mrs. Hartman Mr. Gatwood Win At Bridge

Mrs. Carl W. Hartman and M. Gatwood won at Monday night bridge last week at the Redstone Arsenal Officers Open Mess.

Runners-up were Mrs. Robert H. Nervell and Lt. David W. Chennault. Each week the group plays for winners in women's and men's divisions. Twelve tables were in play.

Reservations are handled by Mrs. R. U. Scott, 772-8253.

OFFICERS WIVES SCHEDULE BRUNCH

The Redstone Arsenal Officers Wives Club February meeting Tuesday is a brunch, bridge, canasta and socializing.

The Club is scheduled to meet at 10 a.m. at the Redstone Arsenal Officers Open Mess.

Reservations will be accepted until noon Friday by Mrs. W. Mehlinger, 877-5250; Mrs. J. Powell, 877-5647; Mrs. C. Richards, 877-5575; and Mrs. S. Josephson, 877-4960.

Mrs. Arlen McNeil will take cancellations until noon Monday. Her number is 877-4364.

SCOUT COOKIE SALE

Girl Scout troops at Redstone Arsenal will begin their annual cookie sale, house to house in the quarters areas, Friday.

No advance orders are being taken by the girls.



NOSTALGIC LOOK—Some of the more modern items in the German display are unfamiliar to two natives of Germany Mrs. George D. Bremer and Mrs. William A. Crockett. For instance, the modern design of the coffee service is something they had not seen until it showed up among the travellers treasures at the OGMS Officer's Wives coffee.



FROM LAND OF FJORDS—Needlework, flags, crystal and silver from the Scandinavian lands were displayed among the travellers treasures at the Ordnance Guided Missile School Officers Wives coffee at the Redstone Officers Open Mess last week. Admiring the items are Mrs. George J. Knox and Mrs. John A. Skurchak.



HOSTESSES—Hostesses for the Wives Coffee at which the OGMS Wives displayed their travellers treasures sit in front of a ratan screen from Okinawa. Their cushion is a monkey rug. Left to right are: Mrs. Jack Lower, Mrs. Gerald Wetzel, Mrs. Gerald Birch, Mrs. W. T. Johnson, Mrs. Robert Brothers, and Mrs. W. A. Leonard, the chairman for the event.

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Fantasy Sponsors 'Gobbledygook'

For the young at heart of all ages, Fantasy Playhouse of Huntsville, which produces plays for children, is for the first time, sponsoring a professional touring play. This new musical comedy for children, "Gobbledygook" was written and directed by New York author-actor David Novak and is being performed on tour by the Kaleidoscope Players.

The performances in Huntsville will be on Saturday, Feb. 6 and Sunday, Feb. 7 at Lee High School Auditorium. Curtain is 2:30 p.m. each day. Tickets are available at The Arts Council, Inc., 311 Clinton Avenue.

The action in Gobbledygook revolves around a mysterious package that a zany and bewildered delivery boy attempts to deliver to an elusive address and all the odd characters he encounters in the process. The result: a tour de force for the Kaleidoscope Players as they romp, sing and dance their way through this newest Novak musical farce.

The cast includes Lee Speich, Ian Thompson, Eliza Kent, Sam Buck, Bill Fegan and Eric Conklin all of whom have many seasons of all types of theatre from summer stock to off-Broadway to their credit.

SODALITY TO DEBATE

Breakfast will be served the Catholic Women's Sodality following 9 a.m. Mass at the Post Chapel Friday.

Breakfast and a debate on the merits of tithing as a practice for military parishes will be in the Chapel Social room.

All Catholic women and their guests are invited to attend.

Yesterday the Sodality held its semi-annual hat sale at the Chapel. Proceeds go into the scholarship fund. The amount was not available at press time.

Movie Schedule

WEDNESDAY, February 3
"The Stripper" (M)

THURSDAY-FRIDAY, Feb. 4-5
"The Rounders" (F)

SATURDAY, February 6
"Dr. Terror's House of Horrors" (M-YP)

SUNDAY-MONDAY, Feb. 7-8
"Code 7, Victim 5" (M-YP)

TUESDAY, February 9
"Hysteria" (M)

Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

Art Exhibit Scheduled

Five artists from the 50 member Alabama Artists Gallery will exhibit at the Temporary Civic Arts Center Feb. 13 under the auspices of the Huntsville Art League and Museum Association.

One of them, Arthur Stewart, is

a former illustrator for the Army Ordnance Missile Command who has done portraits of two wartime chiefs of Ordnance.

The others are Dorothy Griffis Jones of Birmingham, Jean (Mrs. Thomas O.) Peters of Sylacauga, Jordan (Mrs. Robert) Warnock, Birmingham, and Barbara (Mrs. Broderrick) Moon, a native of New York City.

The Huntsville Temporary Civic Arts Center Galleries are open daily from 1-5 p.m. There is no admission charge.

Management Club Installs Officers

At the January meeting of the Thiokol Management Club, Inc., last week, new officers for 1965 were installed.

These are: R. C. McCauley, president; A. P. Hayes, first vice president; C. G. Babcock, second vice president; Beverly Smith, secretary; W. W. Holz, treasurer; directors: W. C. Smith, D. A. Flanagan, J. W. Hampton, C. R. Tilghman, T. R. Gooch, J. W. Baxter, K. K. Grace, M. W. Olliff, J. D. Brown and O. M. Hawkins.

The club is composed of over three hundred technical and administrative personnel at Thiokol's Huntsville Division.

Objectives of the club include the development of management leadership skills through practice, exchange of ideas and information on management technique, development of a professional spirit and understanding of management as a profession and participation in community and civic activities.

Plans announced for 1965 included high quality speakers on management development and related subjects, continuation of after-hours forums on special management oriented subjects, a special seminar open to all interested persons in the Huntsville area and a variety of community assistance projects.

Mayor Glenn Hearn was the featured speaker.

MRS. McBREARTY WINS AT BRIDGE

Thirteen tables of players competed at bridge Thursday at the Redstone Officer's Open Mess in the Group sponsored by the Redstone Arsenal Wives Club each week.

Winners were Mrs. Charles McBrearty, first; Mrs. William Allen, second; Mrs. Lella Mullins, third; and Mrs. Paul McDermott, low.

Reservations to play with the group are handled by Mrs. Arthur J. Matthews.



DULL KNIFE OR TOUGH CAKE—Ruth Muirhead tries cutting the sponge the cooks' frosted with the same ingredients they put on the real cake baked for her farewell party at the U. S. Army Hospital at Redstone Arsenal. Mrs. Muirhead's husband, Walter B. is transferring to Santa Monica, Calif., so she resigned from the hospital where she has been employed on Ward One since coming here from Memphis in 1958. She also has worked for the U. S. Public Health Service. Altogether she counts 24 years of nursing service to her credit since graduation at the Baptist Memorial Hospital in Memphis. During the farewell party Capt. Marcus Pfenninger, Acting Commander of the Hospital, presented her with a letter of commendation.

PHYSICISTS DISCUSS RESEARCH

Two research physicists from the Army Missile Command's Directorate of Research and Development discussed their work during a meeting last week of the American Physical Society at Columbia University, New York.

Romas A. Shatas and Dr. John D. Stettler, who specialize in solid state physics work with the Physical Sciences Laboratory, made presentations at the four-day meet-

ing. Shatas talked on "Phonon-Induced Infrared Absorption Spectrum in Irradiated Magnesium Oxide," and Dr. Stettler presented a paper entitled "A Second-Quantized Hamiltonian for Electron-Phonon Systems." Both papers deal with the results of their research in the quantum mechanics of solids.

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Births At Post Hospital

Margaret Barbara Rizzi-Marzullo, 6 lbs., 6¼ ozs., Jan. 1, daughter of 1/Lt. and Mrs. Vittorio Rizzi-Marzullo.

Monica Maria Pezza, 6 lbs., 6¼ ozs., Jan. 2, daughter of SP4 and Mrs. Leonard Pezza.

Billy Donald Boatright, 6 lbs., 9¾ ozs., Jan. 4, son of SP4 and Mrs. Harold D. Boatright.

Troy Nolan Massey, 8 lbs., 8½ ozs., Jan. 5, son of 1/Lt. and Mrs. Robert H. Massey.

William Henry Rodiman, 5 lbs., 12 ozs., Jan. 6, son of 1/Lt. and Mrs. Stanley J. Rodimon.

Christina Jacqueline Houle, 7 lbs., 12 ozs., Jan. 7, daughter of Cpl. and Mrs. Robert K. Houle.

George Jerome Kerr, 6 lbs., 14 ozs., Jan. 9, son of SFC and Mrs. George A. Kerr.

Bruce Raymond Simpson, 6 lbs., 14 ozs., Jan. 12, son of Capt. and Mrs. Billy S. Simpson.

David Michael Ohlsen, 6 lbs., 10 ozs., Jan. 13, son of WO-1 and Mrs. David L. Ohlsen.

Robert Thomas Cosentino Jr., 6 lbs., 7½ ozs., Jan. 13, son of Capt. and Mrs. Robert T. Cosentino.

Kevin Paul Ubert, 6 lbs., 6¾ ozs., Jan. 14, son of 1/Lt. and Mrs. Howard J. Ubert.

Teresa Renia Rollins, 6 lbs., 4½ ozs., Jan. 18, daughter of SP5 and Mrs. Stanley T. Rollins.

Stanley Anthony Fimowicz Jr., 7 lbs., 4 ozs., Jan. 18, son of SP4 and Mrs. Stanley A. Fimowicz.

Peter John Alexander Baccaglione, 6 lbs., 7¼ ozs., Jan. 19, son of SP4 and Mrs. Peter Baccaglione.

Frederick Ray Pinkerton, Jr., 9 lbs., 2 ozs., Jan. 23, son of 1/Lt. and Mrs. Frederick R. Pinkerton.

Geoffrey Neal Barrow II, 4 lbs., 8½ ozs., Jan. 24, son of S/Sgt. and Mrs. Geoffrey N. Barrow.

Tersa Charlene Newbold, 6 lbs., 9¼ ozs., Jan. 24, daughter of CP4 and Mrs. James Newbold.

John Martin Palmer Jr., 8 lbs., 1½ ozs., Jan. 23, son of S/Sgt. and Mrs. John M. Palmer.

Helen Lynn Waterman, 7 lbs., 6½ ozs., Jan. 24, daughter of Lt.

Hammond Smith To Talk To Personnel Association

Hammond B. Smith, Regional Director, Atlanta Region, U. S. Civil Service Commission, will be the featured speaker at the monthly dinner meeting of the Huntsville Chapter, Society for Personnel Administration, Feb. 16, at the Redstone Officers' Open Mess.

"Forecasts of programs for Federal employees" will be the speaker's topic. He will be introduced by Delbert Spears, program chairman, for the Huntsville Chapter, SPA, Roy Hollihan, Chapter president, announced Monday.

As Regional Director, Smith has jurisdiction over field civil-service activities in the Atlanta Region comprised of Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, Tennessee, Puerto Rico, and the Virgin Islands. This geographic area contains approximately 240,000 Federal employees.



HAMOND B. SMITH

Smith was born in Memphis, Tenn., and graduated from Georgia Tech in 1931. He worked in radio broadcasting and retail merchandising prior to service as an officer with the Army in World War II. Upon separation from the service in 1946, Smith became the Director of Civilian Personnel for Headquarters, Third Army, at Fort McPherson. In November 1954 he was appointed Regional Director, Atlanta Region, U. S. Civil Service Commission. Mr. and Mrs. Smith reside in Decatur, Ga.

The meeting is open to all interested persons. Reservations can be made by calling: Miss Louise Parker—842-2290, Mr. Charles Motley—842-3275, or Mrs. Louise Turner — 877-4216. Reservations must be made by Friday, Feb. 12.

At The Service Club
By BETTY HAYES

Good times are in store for you this week. For instance, a record dance and an ice skating party are only two of our big events.

Today, at 2 p.m., the Enlisted Men's Council will meet. The January meeting proved to be a success. Come today with more programming ideas from the men in your companies. If you would like to represent your company each month as an EM Council representative, contact me or stop by the office during your next visit to the Service Club.

Join us this evening for small games at 8 p.m.

On Thursday night the main lounge will be reserved for all hearts players at 7:30 p.m.

The contest for Friday night is shuffleboard, which will take place at 8 p.m. Remember the more that participate the bigger the prize.

Saturday afternoon at 3:30 p.m. is coffee time.

Saturday evening join Molly in the kitchen for a popcorn popping at 8 p.m.

Coffee and donuts will be served to you on Sunday morning at 9 a.m.

Dance to your favorite records on Sunday evening at the Heart-string Hop at 8 p.m.

Monday evening at 8 p.m. has been designated as an evening of games.

If you haven't signed up for the ice skating party on Tuesday February 9, at 7 p.m. stop by the office and sign up for the event. Don't think that you have to be an expert to participate because most of us are amateurs. Besides, if we don't have spills, there will be no thrills.

Congratulations to Glenn Case, 1st ETC, the winner of the January pool contest.

Check this column each week for details on the Sweetheart Ball, the Jam Session, and other February programs.

Lyric Theatre
"Huntsville's Finest"

Starts Thursday
"Kiss Me Stupid"
STARRING
KIM NOVAK and
DEAN MARTIN

ALUMNI TO MEET
The second meeting of the University of Georgia Alumni Association will be Friday in the Dogwood Room of the Russel Erskine Hotel, beginning at 6:30 p.m.

William (Wild Bill) Tate, the University's Dean of Men, will be the principal speaker. Alumni may bring wives, husbands, or friends. David Lifsey, 534-2189 or 876-8657, will accept reservations.

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Maj. Hasler Joins Staff At U.S. Army Hospital

Maj. Georgia I. Hasler is a pioneer in her field. She was in the first class of Army nurses to study psychiatric nursing procedures.

Today she is Chief Nurse at the Redstone Arsenal Army Hospital, a post she assumed in January just before the 64th anniversary of the U. S. Army Nurse Corps.

Her training in psychiatric nursing procedures was completed at Ft. Sam Houston, Texas, with both doctors and nurses making up the class which was studying at that time a relatively little-recognized field of medicine.

To Maj. Hasler it was a challenge she was eager to accept during the eight-months of intensive study and her later assignments in Asia and Europe.

Her first overseas assignment was Korea, which she now recognizes as a rather rough tour but one which she accepted as a matter-of-course at the time because she had nothing to compare it with. The older nurses who fussed because the facilities were crude compared to other Army assignments were a source of wonder to the younger, newer nurses on Army duty overseas. Now, the major recognizes the conditions for what they were but she still maintains a rosy outlook because she thoroughly enjoyed the assignment.

Her standard of comparison for overseas assignments began when she finished her tour in Korea and was reassigned to the U. S. Army Medical Command in Japan.

Maj. Hasler has never been on a battle line but she has carried on the Florence Nightingale tradition behind the lines. She returned to the U. S. in 1952, assigned at Valley Forge Army Hospital.

A native of Indiana, Maj. Hasler was one of eight children. The family lived on a farm near Ellettsville, Ind., and the Major entered the Army at Ft. Benjamin Harrison after completing her training at the Indianapolis City Hospital.

Her heaviest investment while in Japan and Germany was in travel. When she retires from the

Army, she will take with her a wealth of understanding and mental pictures of many faraway places. She realizes that one doesn't attain the same perspective when just visiting as one has when living in a community.

At Redstone the bachelor officer quarters prohibit pets. So the Major lives off post. Her companion at the moment is a French poodle, an agile creature who can get into more kinds of mischief than the dachshunds she has had in the past.

While in Japan, she took up golf. If she can get away from the hospital on a sunny day, she'll probably be practicing her swing.

A dainty figure, her philosophy is, "Being an Army nurse is a wonderful career for a woman. That is, if she doesn't get married and start raising a family."



MAJOR GEORGIA I. HASLER

Thiokol Receives Motor Contract

The Air Force Space Systems Division named Thiokol Chemical Corporation's Wasatch Division to conduct a new large solid propellant motor effort, Thiokol announced Wednesday.

Thiokol's Brigham City, Utah plant will develop a 156-inch diameter motor which will be flight weight and will produce more than 300,000 pounds of thrust. This motor will incorporate a fiberglass plastic motor case and a deeply submerged nozzle permitting the total motor length to be under 21-feet.

Past Air Force sponsored 156-inch development programs proved the feasibility of man rated, high thrust, long-burning time motors. Added to this proven feasibility, the technology from this new program will place the Air Force in a position for accelerated development of a future family of large solid motors to set aside for a variety of booster applications.

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LT. COL. THOMAS G. ELLIS

LT. COL. ELLIS JOINS NIKE-X PROJECT OFFICE

Lt. Col. Thomas G. Ellis, formerly air reconnaissance and combat surveillance officer for the Seventh Army in Germany, has been assigned as Chief of the System Requirements Division of the Nike-X Project Office at Redstone Arsenal, Ala.

Lt. Col. Ellis succeeds Lt. Col. Alfred Holston now assigned to the office of Army Deputy Chief of Staff for Military Operations.

A native of Birmingham, Ala., Lt. Col. Ellis entered service in 1943. He attended Vanderbilt University and took a BS degree in Military Science from the University of Maryland.

As an artillery officer, the new Nike-X division chief saw service at Fort Riley, Fort Bliss, Fort Sill, Fort Hood, in Korea and at the Pentagon.

The System Requirements Division which he heads is one of five major divisions in the Nike-X Project Office. A major function of the division is threat analysis and system effectiveness studies.

Expert Puts Warmth And Sparkle Into Everyday

Ruth Milner's interests and talents spread in all directions like roads on a map.

The "main highway" in her life is the position she occupies in the Army Missile Support Command's Calibration Center at Redstone Arsenal. She is chief of the Programs and Scheduling Branch.

Some side roads where the pressures are lighter and the travel a pleasure represent her talents and avocations—acting and directing in the Huntsville Little Theatre—doing TV commercials—indoor gardening—music and sewing, for instance.

The Army Missile Command recently recognized her outstanding capabilities in the Calibration Center by recommending her for the Federal Woman's award, a competition which includes top women in all government positions.

Ruth bubbles with enthusiasm when she talks of the Little Theatre, where, she says, she has done a little bit of everything.

Her life in the theatre started at a tender age when her parents built a stage in their back yard and she produced and acted in neighborhood theatricals.

Twice the membership of the Huntsville Little Theatre has voted her the best actress of the season, and last year the play she directed, "Pajama Game," won the top vote.

Here is a lady who can give all to a role such as she had in "Desk Set" playing the part of a young woman executive who was fighting against an "efficiency expert's" recommendation that a computer be installed that would replace people.

The next day with the grease paint scrubbed off she could come to work in the Calibration Center to direct the very kind of work she seemed to abhor the night before.

Or there were her award-winning roles in "Angel Face" and "Double Doors." In the first, this young, level-headed lovely looking Calibration Center executive played the role of a neurotic, emotional woman driven to the brink of insanity, and in the other she was a cruelly calculating old woman willing to commit murder to keep control of her family.

She approaches her duties in the Calibration Center with the same verve and elan she does the theater. Her sparkling blue eyes reflect graciousness and astute intelligence as she describes her work.

"First of all, to define calibration in its simplest terms," she says, "let's suppose a housewife had a 60-inch tape measure, or at least that is what her tape measure is marked. In order to determine whether or not it is exactly 60 inches, she might take it to a Calibration lab for comparison with a standard to find out if it really is exactly 60 inches."

However, Ruth's particular Branch in the Calibration Center is concerned with "men, manpower and materials."

It is the Program Scheduling Branch's task to determine the manpower, money and material required to operate the five laboratories in the Center in providing calibration support to all elements of the Missile Command, the Ordnance Guided Missile School, Marshall Space Flight Center, contractors, and other government agencies not located on Redstone.

Time standards, for the work measurement system, have been developed, and from their use, potential trouble areas are located and a quick overall view of production of the entire operation is readily available.

Another aspect of Branch activities is scheduling work into the Calibration Center labs.

"We have established an Automatic Recall System," Ruth said. "Greatly simplified, this is how it works. When we have calibrated an item, we put a sticker on it showing when it was calibrated and when it should be re-calibrated, and enter a record of the calibration in the recall system.

"This way, we build up a list of all calibratable items, record the history of the calibration, and project the next calibration date. With our system we are able to

set more sensible calibration frequencies and to analyze calibration data as well as to notify the customer when his equipment will be due."

This Calibration Center-originated system has excited interest in other government agencies and some industries, bringing queries about the operation and effectiveness of the program.

Five years ago, Ruth came to Redstone from Gadsden, Ala., her hometown, after employment in an Air Force Depot there. She came here as a management analyst with the Consolidated Supply Division, then was a supply specialist. She transferred to the Calibration Center three years ago as a program specialist.

Among her duties at the Gadsden Depot were those usually assigned to men. She was doing time and motion studies and actually went to offices and shops with a stop watch.

"People doing this work usually stand in some place where they will be out of the way and they try to make themselves as unobtrusive as possible. I stood with my watch and clip board, and although the men went ahead with their work, they seemed uneasy. I found out it was because they didn't feel it was right for a woman to stand while some of them were seated. So I became the one person doing this kind of work who had to sit down to accomplish anything," Ruth recounts.

A slender lady with a personality that literally scintillates, Ruth is a graduate of Huntingdon College with majors in music and speech—"A far cry from what I'm doing here in the Center," she remarked.

Nevertheless, she feels that a good liberal arts education makes an ideal background for specializing wherever one may choose.

The summer after she graduated from Huntingdon, she traveled as the college's field representative in North Georgia. Although it is interesting and has its compensations, Ruth didn't want to continue this career because one lives out of a suitcase and it is a lonely existence.

She did some work in her family's business before going to work for the government, and taught music one year in the junior and senior high schools in Fairfield, Ala.

Practicing or working on a play five nights a week two months doesn't leave much time for anything else in one's off-duty hours, and sounds pretty demanding. Yet Ruth says it isn't as tiring as one



RUTH MILNER

might think because there is stimulation in doing something one really enjoys.

"There's a thrill in feeling the response from the audience when you're on the stage," Ruth said.

She has a "green thumb" for African violet culture. Her office windows and her home are filled with plants which all started from single leaves given her several years ago. "People say African violets are hard to raise and get into blossom, but I have never done anything special about mine. They just prosper," Ruth says.

When she's in the mood, she likes to sew, and although she has never had any sewing lessons as such, she has learned to turn out expertly tailored clothes for herself.

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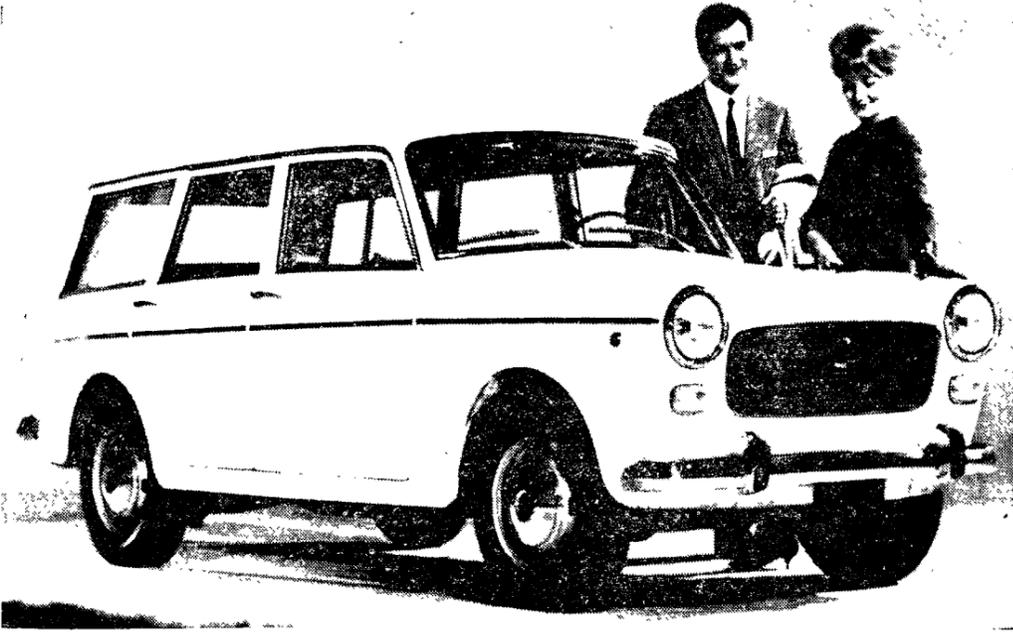
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Page 14 The Redstone Rocket — February 3, 1965

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AN OAK LEAF CLUSTER—Maj. Gen John G. Zierdt, Army Missile Command Commanding General, and Mrs. Daniel F. Shepherd admire the First Oak Leaf Cluster to the Legion of Merit which the general has just presented to Col. Shepherd (retired). The colonel was recommended for the award before his retirement on March 31, 1964, but it didn't receive final approval until later. The commendation with the award recognizes Col. Shep-

herd's outstanding service while Commodity Manager for Multi-system Test Equipment and Target Missiles and while serving as Director of the Research and Development Directorate at the Army Missile Command, Redstone Arsenal. The original Legion of Merit was awarded to Col. Shepherd during World War II when he was an Ammunition Officer in Europe.



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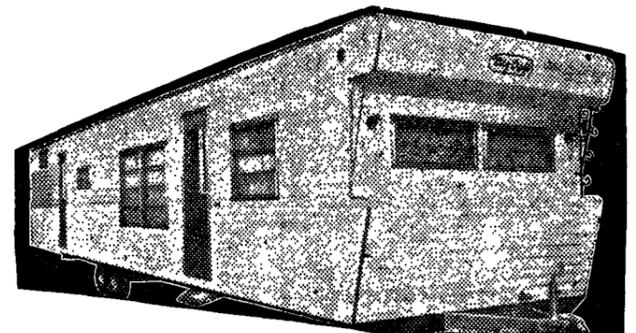
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ARMY MATERIEL COMMAND VISITOR—John P. O'Hehir (left), newly-named Deputy Comptroller and Director of Programs for the U.S. Army Materiel Command, is shown with James J. Fagan (center), of the Research and Development Directorate at the Army Missile Command, and George A. O'Reilly (right) chief, Program-Budget Division, Comptroller and Director of Programs of the Missile Command. O'Hehir visited Redstone recently to be briefed on the Command mission and organization.

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Young Inventors Develop Reliability Firing Tester

Two scientists of the Army Missile Command's Directorate of Research and Development have invented a test system which reaches into the very heart of a missile to make sure it flies when the button is pushed.

Jams B. Wright and J. Darryl Holder, both electrical engineers with the Army Inertial Guidance and Control Laboratory, call their invention a pulse energy discriminator.

The most unique feature is this ability to accurately test the status of the missile's firing system. This system consists of firing units and pulse cables which connect the units to the ordnance items. These items consist of rocket motor igniters, explosive bolts for stage separation, and sectors for motor shutoff.

Methods previously available for testing circuits were crude, and it was impossible to ascertain that the circuit was in perfect firing order even after the test was completed. Dead circuits could be spotted without difficulty, but other malfunctions could remain undetected and cause an abortive firing.

For purposes of safety and reliability, a special type of electrical impulse is required to fire a missile. In the firing sequence, voltage is fed into the firing circuit, which ionizes a spark gap in the ordnance item to make it a good conductor of current. At the instant the spark gap becomes a conductor, the voltage and current combine in a surge of power which explodes the item's bridgewire.

Older test methods might indicate a "go" condition when the voltage peak was too low for firing, or when the voltage-current peak was of too short a duration.

The Wright-Holder test system uses a spark gap which simulates the one used in the ordnance item, so that electrical patterns required to operate the test system behave in the same way. As an indication of output of the firing circuit the system uses a fuse similar to the ones in automobiles. If the test fuse is blown, missile engineers know they have sufficient power in the proper pattern to result in proper firing.

Holder said the new system may use dials or lights to indicate a go or no-go condition.

With only a few modifications,

the test device will be used to check the various electronic commands which are fed into the firing circuit, such as safing, arming, and firing commands.

Holder said the test unit could be used for any missile system using the exploding bridgewire principle, or any system using a high-voltage surge of power for operation.

Wright is a veteran of 11 years with the Army Missile Command, all spent in the research and development of various electrical systems for the Army's missiles. He received his BS degree in Mathematics and Physics from the University of Southern Mississippi in 1950.

Holder joined the Missile Command in 1962, after receiving the BS degree in Electrical Engineering from Auburn University in 1961.



INVENTION FOR RELIABILITY—James B. Wright and J. Darryl Holder of the Army Missile Command look over the device they invented to check the firing circuits of an Army missile system. Both are electrical engineers with the Army Inertial Guidance and Control Laboratory of the Directorate of Research and Development.



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