

RIDGWAY TO VISIT RSA TOMORROW

ENFIELD WINS FINAL AWARD

Driver Assists Future Neighbor

When Hugh Enfield stopped his car on Rideout Road one night recently to help a stranded motorist, he didn't think much about it one way or the other. He had done the same thing several times before, received grateful thanks, and that had been the end of it.

But this time it was different. The man whom he assisted was R. K. Peck, who had run out of gas. And Peck's thanks, although profuse, did not end the matter.

It was a two-mile trip to the nearest gas station in West Huntsville. On the trip there and back, the two men learned that they were going to be neighbors soon. Both were building on Monte Sano, only a short distance from each other. By the time Peck had refueled his car and Enfield had given him a push to start the motor, the two men knew each other pretty well—and the prospect of soon becoming neighbors was not at all displeasing.

Several days later, Enfield met someone else for the first time—this too a result of helping Peck. The man he met this time was not a future neighbor . . . but he was the big boss, Gen. Thomas K. Vincent.

The occasion was a presentation of the Courteous Drivers Award to Enfield by Gen. Vincent. Peck had not forgotten Enfield's help.

Thus, Enfield received a certificate, a cigarette lighter, and "Courtesy Is Contagious" tag for his automobile.

Enfield is the last person to receive the award, since the program has been replaced by the Courteous Drivers' Guild."

And not only does Enfield have the distinction of being the last recognized Courteous Driver, but he also has the distinction of being the first winner who could look down on Gen. Vincent. Enfield stands 6'4" and the general is a mere 6'3".

An employee at the Test Laboratory, GMDD, at Bldg. 433, Enfield is an old hand at Redstone. He first came here from his home in Indiana during the war year 1942. He was a soldier then. He stayed for about a year before he was transferred elsewhere. At the place stuck in his mind, and in 1950 he returned, this time to stay.

Credit Union Group to Hold Annual Meet

Seven new officers will be elected for two-year terms at the second annual meeting of the Redstone Credit Union at 4:30 p.m. on Jan. 29 in the Rocket Auditorium. The organization has a roster of 100 officers. All members are urged to attend this meeting.

The yearly dividend will be declared at this meeting, and a financial statement given to the members.

The officers to be elected are: member for the supervisory committee, one for the credit directors, and five for the Board of Directors.

Immediately following the meeting, the newly elected officers will convene with those held over from the previous term to elect a president, vice-president, treasurer and clerk, and chairman for the supervisory and credit committees.

Since the organization of the Redstone Credit Union in 1952 more than \$400,000 has been loaned to members.

Motorists Thanked For Safe Driving

To Each Redstone Arsenal Driver:
With the initiation of the "Courteous Drivers' Guild," a new phase is begun in the campaign for courteous and safe driving by all Redstone personnel, whether on or off the arsenal. As chairman of the Courteous Driver Selection Committee, I wish to thank all concerned for their efforts to raise the level of arsenal driving. Particularly, we wish to thank those who appreciated acts of courtesy sufficiently to prepare recommendations for the courteous drivers.

The Committee has high hopes that the Guild will be even more effective than past efforts in reducing the terrible toll of automobile accidents. Any effectiveness, however, depends upon the individual efforts of each arsenal driver. Accordingly, the Committee urges that each of you support the Guild and display the emblem. Past experience has demonstrated that the "Courtesy Is Contagious" tags were noticeably effective upon both the using drivers and other who saw it along the highways. Hence, our request for your complete support together with our request for any comments or suggestions you wish to make to promote courteous and safe driving.

H. C. THAYER
Col., Ord. Corps

After 24 Years Sergeant Retires

Master Sergeant Carl Fortner retired from the army here last week after more than 24 years continuous service.

The sergeant was medical administrative NCO at the Infirmary here until his retirement.

M/Sgt. Fortner entered the service as a member of the 7th Infantry Regiment, 3rd Infantry Division at Vancouver Barracks, Washington, on Jan. 15, 1929. He was promoted through the ranks to master sergeant and in October 1942, he was appointed temporary warrant officer, junior grade.

He advanced to the grade of captain while on active duty, and later he was appointed major in the Officers Reserve Corps.

After being released from active duty on March 31, 1950, he reenlisted the following day as a master sergeant. During World War II he served as a medical administrative officer in the European Theater of Operations.

M/Sgt. Fortner is married and they have two children, Danny, 5, and Mrs. Brooks Church, a daughter, who is employed at Post Engineer Division.

Among the decorations M/Sgt. Fortner is authorized to wear are the following:

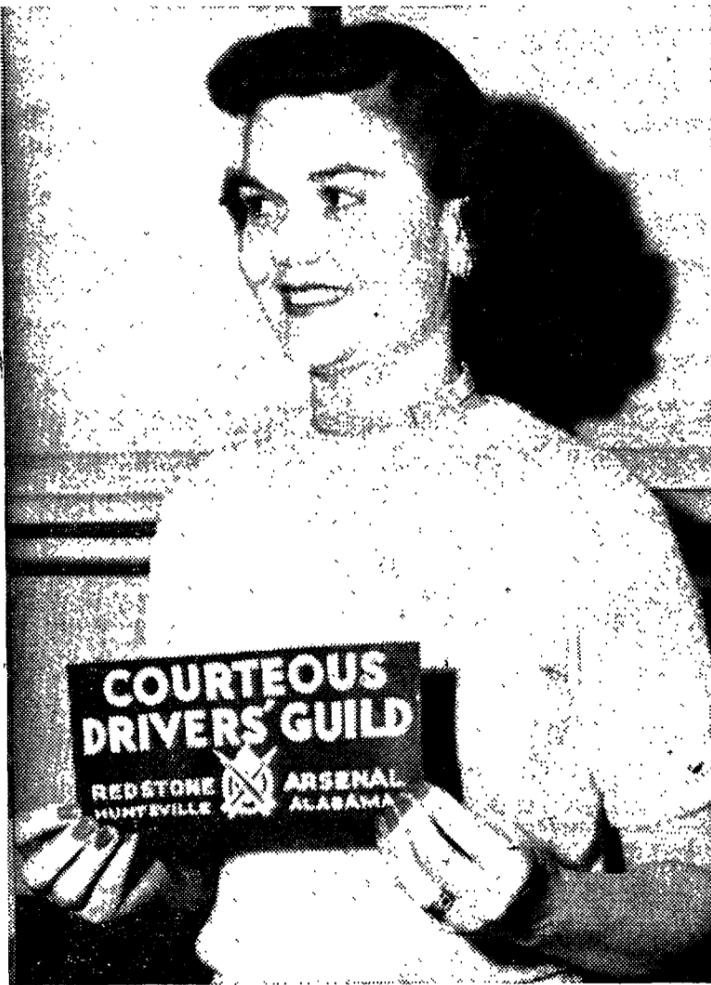
Good Conduct Medal, American Defense Service Medal, American Campaign Medal, European-African-Middle Eastern Campaign Medal with Bronze Service Star, World War II Victory Medal, Army of Occupation Medal, Armed Forces Reserve Medal, and National Defense Service Medal.

Changes in Army Are Never Permanent

Two offices changed their locations during the last week in December.

The Military Personnel Division moved in with the Troop Command in Bldg. T-168. They retained their old telephone numbers.

But the Records Administration Section of the Adjutant Division changed phone numbers when they moved to the records holding area. The new phone number is 5933. Miss Ann Troha and Mrs. Louise J. Kenney now can be found in Bldg. 1041.



COURTEOUS LADY—Mrs. Frances Preston, Adjutant's Division, shows off one of the bumper emblems being issued to members of the newly formed "Courteous Drivers' Guild," which started this week. Anyone with an arsenal tag is eligible to join the Guild, which replaces the old Courteous Drivers Awards Program at Redstone.

LET'S MAKE A CHECK-UP

Now is the time to make a security check-up.

Even though an efficient security system might be in force in your department, it is only as effective as you make it. The record shows that security violations are due mainly to the carelessness and forgetfulness of individuals, rather than to the failure of the security system itself. For that reason, it is a good idea to make a security inventory from time to time just to be sure that poor security practices have not become everyday habits.

Here are a few suggestions for making your check-up:

- () CHECK your equipment. Whether you are working on a machine or a drawing board; whether your equipment is a typewriter or a diesel engine; check your equipment regularly—and make sure it is in working order.
- () CHECK your locks and safety devices. An insecure lock or a broken safety mechanism is worse than none at all. Security and safety measures break down when locks and safety equipment are not functioning properly.
- () CHECK the area in which you work. Check the area where unauthorized entry would be easy; check for material or equipment or papers which would be of value to a prowler; check for fire hazards—a fire caused by carelessness can be just as destructive and as costly as one set by a saboteur.
- () CHECK the people around you. This doesn't mean that you should act like a counterspy or be suspicious of your known fellow workers. It does mean that you should not discuss your business with strangers or allow loiterers in your working area. Classified information should not be made available to persons until they have been properly identified and you are sure they have a right to the information.
- () CHECK yourself. Are you familiar with the security regulations or do you just "think" you are? Do you have good security and safety habits or are you careless and indifferent and feel that "they are for the other fellow?"

Yes, this is a fine time for a check-up. Today and every day. There is nothing like the old "check and double check" to be sure it's secure!

Robert T. Stevens
Secretary of the Army

Rudolph to Speak At Rocket Lecture

Robert L. Rudolph, a Rocket Development chemist, will discuss "Spectroscopy of Propellant Flames" at the next lecture sponsored by the Rocket Development Laboratory.

The meeting will be held at 8:30 a.m., Jan. 8 in the Rocket Auditorium. It will be unclassified.

Rudolph came to work as a chemist for Huntsville Arsenal after graduating from Catawba College, N. C., in 1942. He was in the army from 1944 to 1946.

After being discharged from the army, Rudolph attended the University of North Carolina for a year. He then worked for the U. S. Naval Research Laboratory, Washington, D. C., and the U. S. Naval Mine Depot, Yorktown, Va. He returned to Redstone in March 1953.

REP. FORD MAY BE GUEST ALSO

Six Generals Are Expected for Tour

General Matthew B. Ridgway, Army Chief of Staff, will arrive at Redstone tomorrow for a short visit. A congressman and six other general officers are also expected for a brief orientation tour here.

The former NATO commander is expected to arrive in a Constellation about 2:30 p.m. at the arsenal strip.

Rep. Gerald R. Ford, Jr. and Maj. Gen. E. L. Cummings, Chief of Ordnance, are expected to come in from Washington.

Lt. Gen. A. R. Bolling, Third Army commander, is expected to fly in from Atlanta to meet Gen. Ridgway.

Arriving with Ridgway from San Antonio will be Lt. Gen. W. B. Palmer, Maj. Gen. Leslie B. Simon, Brig. General A. J. Biddle, Brig. Gen. W. A. Carter, Col. T. F. Bogart, Col. W. J. Ray, Col. Gerald G. Epley, and Lt. Col. Peter S. Tanous.

The group will be here for about three hours before flying on to Atlanta. In that time they will make a hurried tour of Plants Area One.

Dr. Wernher von Braun, chief of the Guided Missile Development Division, OML, will conduct the visitors through Bldgs. 481 and 351 and give a short talk on the Division's work.

Six persons from Redstone will be on hand to greet the visitors at the air strip. The group includes Gen. Vincent, Gen. Toftoy, Col. Benjamin D. Beach, Col. Miles B. Chatfield, Col. Jefferson D. Childs, Col. James P. Snooks, Col. Henry C. Thayer, Maj. Paul O. Siebeneichen, and Lt. Shep Newell.

Gen. Ridgway's visit will be a routine orientation tour of rocket and guided missile activities here.

Only the official party will be allowed in the air strip area.

Disbursing Office Open for Business

Redstone's first Accountable Disbursing Office opened its doors for business yesterday and the first check to be made at this installation was handed over to Gen. Vincent by Lt. Kenneth Ahana, disbursing officer.

Before the office was opened yesterday, no checks could be written at Redstone, Lt. Ahana said. Only cash payments for travel vouchers and troop pay could be made here. All checks, such as civilian employe payroll and contractor vouchers had to come from the office in Memphis, he said.

Check number one was made out to Gen. Vincent to the amount of \$6.75. The amount was in payment of a travel voucher.

Lt. Ahana said that the office here would not handle the Jan. 3 payroll of class act employes, but that it would take care of the wage board payroll on Jan. 15.

About ten new employes are being added to the office to take care of the extra work. Also, a large amount of equipment, including electric check writing, signing, and cutting machines, have been ordered.

If the equipment does not arrive in time for the Jan. 15 payroll, Lt. Ahana will be forced to sign the thousands of checks by hand. However, the disbursing officer gave assurance that the checks would be out on time. The office is located at Bldg. 1053, where the Finance Office was formerly located.

UTILITY UTE'S UTTERINGS
Nobody wants to be a drip, but you will be a drip in the defense budget if you don't turn off that dripping faucet.

The Redstone Rocket

The Redstone Rocket is a civilian enterprise newspaper published every Tuesday in the interests of Redstone Arsenal personnel. It is published by special agreement between Jack W. Hoffhaus, Hartselle, Ala., printer, and the Civilian Welfare Council, Redstone Arsenal, Huntsville, Ala.

The Rocket is NOT an official or semi-official Army or Ordnance Corps publication. Policies and statements reflected in the news and editorial columns represent the views of the individual writers and under no circumstances are they to be construed as those of the Department of the Army.

All editorial material for publication must be submitted to the Public Information Section, Bldg. A-101, Tel. 3-2123.

All advertising and ad payments are handled by Mrs. Zillah Newsome, Twickenham Hotel, Huntsville, Ala., Tel. 670, as representative for Jack W. Hoffhaus. Appearance of advertisements of products or services in The Rocket does not constitute an endorsement by the Department of the Army.

The Redstone Rocket is Distributed free of cost to personnel at Redstone Arsenal. Mailing rates for The Rocket are \$3 a year, or \$1.75 for six months. Mailing arrangements must be made with Jack W. Hoffhaus.

MANKIND ON VERGE OF UNKNOWN EXPERTS OF ROCKET SOCIETY SAY

(Editor's note—The following article is reprinted from "Wind & Sand," weekly newspaper for the civilian and military personnel of White Sands Proving Ground.)

"Mankind is on the verge of the most exciting, adventuresome and rewarding journeys he has ever made into the unknown."

That is the belief of six experts in the fields of rocketry, jet propulsion, physical science and space biology who conducted a recent "Space Flight Symposium" at a meeting of the New Mexico-West Texas Section of the American Rocket Society.

Intimately familiar with the overall problems connected with rocketry as well as with their particular specialties, the six members of the panel discussed some of the problems, and theories which are now being worked out in an effort to solve them.

They agreed unanimously with another statement: "While space travel at present time would be very costly and uneconomical, the idea should not be abandoned."

Indeed, two members of the panel emphasized, instead of sitting back and waiting for solutions to the many problems, rocket engineers and scientists should publicize them and stress them in order to make more people aware of them.

Basic research should continue as well, they agreed, and should be expanded in order to discover more about the conditions of the upper air and the performance of rockets. However, such a project should follow some sort of organized program, with the eventual conquest of space as the long-term goal.

The panel's expert on space biology pointed out that, although rockets are flown today with machines instead of men aboard them, at some future date they

undoubtedly will be carrying men.

"Whereas a machine can act faster and more accurately than a man," he said, "in an emergency situation a man can come up with the answers which have not been built into him."

"And although the problems of space medicine seem great at this time, a machine or electronic brain which could perform as many varied functions as a man would require just as much protection from shock, vibration, acceleration and temperature extremes as a man. In many ways man is still a better pilot than a machine, because a man can think and solve new problems."

The panel members summarized their views on why space flight has been proposed and why it should be carried on to accomplishment.

Such a venture would bring about untold technological advances in many fields and would eventually benefit mankind by adding to his store of knowledge about the universe in which he lives, one member said. At this time we cannot accurately foresee what benefits and advances will result, since a totally unexplored and unknown realm always contains things no one could visualize beforehand.

In spite of the problems and apparent lack of practical value, said another of the experts, space travel is expected to be accomplished eventually due to man's innate curiosity and his driving will to rise to a challenge.

Space flight should serve to unify mankind, another said, not because of the threat of a military space station but because the people would have their sights turned outward toward a new frontier.

"Space flight would change the entire social and political outlook of the world," he added, "and with it perhaps bring unity of purpose to mankind."

Another conclusion was that "exploration, experience and experiments in outer space and on other planets could lead to many new medical practices and an entirely new and different concept of life and its origin."

The six discussion leaders were E. E. Francisco, Jr., Herbert L. Karsch, Maj. David G. Simons, Dr. Russell K. Sherburne, Gilbert L. Moore and G. Harry Stine.

Enlisted Personnel Receive Promotions

A large number of enlisted men have been promoted recently including one promotion to master sergeant, one to sergeant first class, and two to sergeant.

Promoted to master sergeant was Arthur Plautz, 9352 TSU. Al-



Side by Side With Your Physician

Only a doctor can properly diagnose your illness. The pharmacist is his right-hand man who compounds your health-giving medicines precisely according to his instructions.

CRYSTAL DRUG CO.

PHONE 42 — PHONE 42
Cor Clinton & Jefferson
"Where the Cars Meet"
HUNTSVILLE, ALABAMA



DONNA THAYER

THAYER'S DAUGHTER SCORES TOPS IN BRAIN DEPARTMENT AT H. H. S.

Miss Donna Thayer, a junior at Huntsville High, heads the Honor Roll for the last six weeks period. She is the top student among 652 pupils at the school.

Donna is the pretty brown-eyed 16-year-old daughter of Col. and Mrs. Henry Thayer.

When asked where she had attended school previously, she remarked, "Well, I was in three different schools while I was in the fourth grade."

She started to school in Clearwater, Fla., then came Putnam, Conn., Arlington, Va., Watertown, Mass., and Montgomery, Ala., before Huntsville. When high school is over she plans to attend Katherine Gibbs in Providence, R. I. for a well rounded course in college subjects with emphasis on secretarial training.

Donna was featured recently in the Honor Roll column of "The Red and Blue," Huntsville High School newspaper.

She was born in Fort Banks, Mass., when her father was doing graduate work at Massachusetts Institute of Technology.

As for extra-curricular activities, Donna likes ice-skating, reading and the movies. "My main present for Christmas before Daddy came to Redstone in February, was a pair of ice skates. Now they are just put away in storage," Donna deplored. She says people here have told her that there is ice enough for skating some winters, so she's living in hopes.

She enjoys football, baseball, and tennis as a spectator. At school, her favorite subject is typing which she started only this year.

ton Soland, 9330 TSU, was promoted to sergeant first class. The two new sergeants are Willis A. Moyer, 9330, and Edward H. Chapman.

Men of the 9330 who made corporal are Ben Cavaliere, Thomas Debbie, Bob French, Wallace La Ferriere, Ralph Mackey, Loyd Montgomery, John Vrabel, and Stanley Weissman.

Charles Hollingshead and Thomas Templeton, both of the MP Det., also made corporal.

The 9352 men to make corporal are Lorin Beaber, Dennis Blythe, Charles Durr, Nels Johnson, James Lake, Eugene Manus, Richard Quirk, Gene Reeves, Roy Rieber, Marvin Siegler, Shirley Smith, Daniel Wilson, Roy Yeazell and Albert Vogt.

New PFC's for the 9330 were John Bourg, Bob Colvin, Alexander Fucile, Pascal Gerard, Ernest Hanson, Earl Hardacre, John Murphy, Kenneth Neish, Richard Noble, Russell Powell, Lloyd Sand, and John Van Hoozer.

MPs who made PFC are Eugene Buckley, Edward Cronin, Alvin Ellis, and Gary Hancock.

Men of the 9352 who made PFC are Homer Chase, Robert Easton, Dean Ellis, John Gelzer, Sherman Grant, David Harris, Robert Heinzen, Oscar Hovik, Richard Luetzjohnn, Peter Monally, Paul Morsches, Myron Schriebersdorf, Donald Sick, Richard Skene, Jas. Smith, and Donald Wingar. Roy Johnson of 3523 ASU, was also promoted to PFC.

In the 67th Engr. Gas Gen. Det. four men were promoted to corporal. They are Raymond Cranfill, George Gorsuch, Jack Hamilton, and Marvin Shay.

INSTRUCTOR



PFC KENNETH ROY

The MECHANICAL BRANCH "Instructor of the Week" PFC Kenneth Roy, has received several honors since coming into the Army. His first was being selected as "Regimental Soldier of the Week" at Aberdeen Proving Grounds. Then at OGMS "Instructor Training School" he graduated as top man in his class with a grade of "Outstanding." In his teaching of Hydro-Pneumatics in the Shop Fundamentals Section he has set the same high records. For example, valve operation which is usually very complicated to the average student, becomes simple and clear Roy presents it.

"Ken" and his attractive wife, Carol, are residing at 107 Eighth Street, East Huntsville, looking forward to returning to Nor Adams, Mass., in October 1954 that he can start towards his engineering degree.

are, and I may say it is good belong to such an organization. Down here, the job comes first. A few of our lucky deserving people are taking some of that much talked about annual leave. Mr. A. Stewart, Deputy Chief, is visiting his native state, Mississippi. Mrs. Daphne Collins and family are visiting in Georgia and Mrs. Frances Harris is visiting her sister in West Virginia. A Happy New Year to them and to all you.

REDSTONE DEPOT

BY WILLA HOLDEN

You know how it is—we all like to consider ourselves important (and just between us folks we are, aren't we?) Well sir, and ladies, my pride took an awful beating the other day when I discovered that some folks on the arsenal just were not aware that I work for the Redstone Depot. I am sort of proud of the fact that I work here because—you know what—we few folks down here receive and ship over 25,000 tons of supplies per month, and if you will take the trouble to look in the Army Progress Report you will find that is a lot more tonnage than some of the big depots handle. Part of our mission is to store reserve stocks of Field Service ammunition and Field Service general supplies; also, this is a storage point for industrial machine tools. Incidentally, if you should need some coal for your fireplace, this black stuff that looks so much like coal just "ain't" coal at all. It is magnesium so don't bother to take any of it home as some trusting souls have thought to do. There is nothing at all that you can do with it in a fireplace. Due to the rush of orders just before Christmas, the Storage Branch worked on through last Thursday afternoon. That's the kind of people they

★ STAR NEWS STAND

For Model

- Airplanes
- Motors
- Ships—Cars
- Accessories

AFTER CHRISTMAS

SHOE

Sale

30% TO 50% OFF

SAVE ON YOUR SHOE NEEDS AT

Busann's SHOES

TWICKENHAM HOTEL CORNER

PHONE 5100

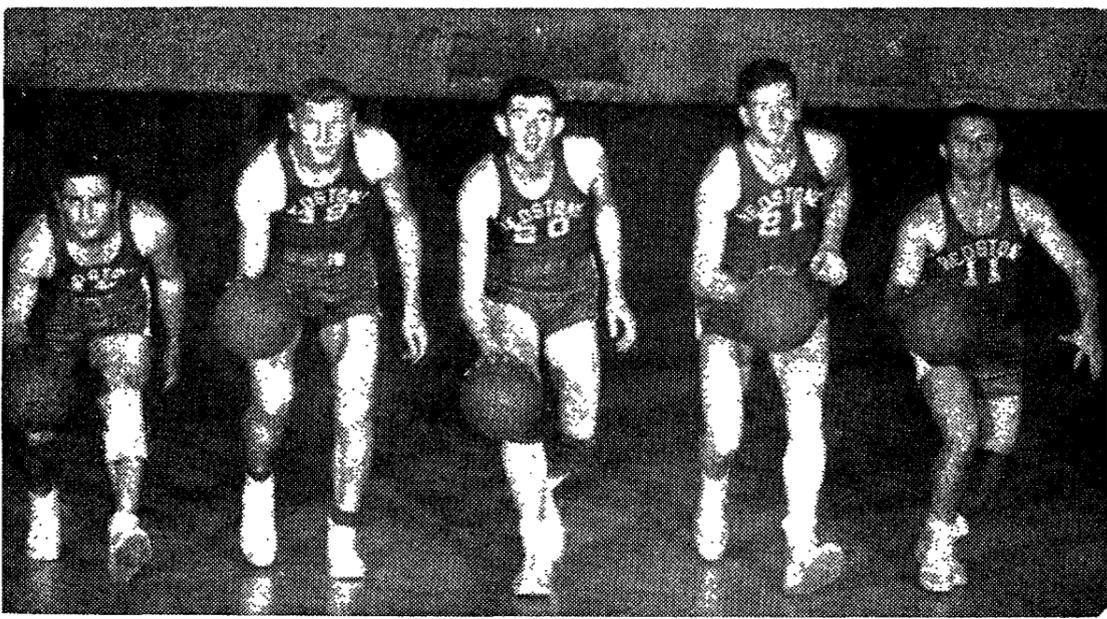
good taste, too . . .
has its champion



Budweiser
LAGER BEER

Anheuser-Busch, Inc.,
St. Louis, Mo. • Newark, N. J.

TURNER BEVERAGE CO.
HUNTSVILLE, ALABAMA



REDSTONE BASKETBALLERS—Here are five good reasons why Redstone is going to be a threat to any service team this year. The arsenal's starting players are (from left to right): Dick Barone, 3523 ASU; Bob Collins, Hq & Hq; Frank Calsbeek, 2nd ETD; Lou Schuessler, 3523 ASU; and Ben Cavaliere, 9330 TSU.

BASKETBALL TEAM STARTS SLOW, BUT SHOWS STEADY IMPROVEMENT

After a slow start, which saw them drop their first six games, Redstone's basketballers have started to show what they can do. In their last five games, the Rockets came out on top twice and lost a third by only two points.

Redstone's offensive punch, which has netted an average of 22.1 points per game thus far this season, is sparked by two rangy forwards and a center, each standing 6' 4". Bob Collins and Lou Schuessler are the forwards and Frank Calsbeek is center.

At the guards, Redstone has a wealth of material in Ben Cavaliere, Dick Barone, Dick Haynor, and Bob McCue, player-coach. All of them are ballplayers who can carry the load equally well.

Highlight of the season so far was Redstone's smashing defeat of Stewart AFB, 70-57, after losing to the airmen the night before 62-69 in an overtime contest.

In its next game, Redstone gave Dobbins AFB an even worse defeat, winning the one-sided match 70-44.

Against McClellan, Redstone scored only 28 points in the first half, and then came back in the second period to rack up 45 points and force McClellan to stall out the last minutes of the game to preserve its two-point lead.

Redstone lost that one 73-75, but in doing so it gave notice of being one of the best teams in the Third Army area.

The best individual scoring effort to date was turned in by Calsbeek against Jacksonville State Teachers. The tall center racked up 24 points in that one. Calsbeek is also leading the team in total points (113) and in game averages, with 14.1 points per game.

SEASON RECORD

Redstone	Opponent	Score
49—Peerless Woolens	65
66—Peerless Woolens	80
65—Jacksonville State	75
47—Jacksonville State	59
57—Martin College	61
62—Seward AFB	69
70—Seward AFB	57
70—Dobbins AFB	44
73—Ft. McClellan	75

INDIVIDUAL RECORDS

Player	F.G.	F.T.	Pts.	Av.	Game No.
Calsbeek	48	17	113	14.1	8
Schuessler	41	23	105	11.7	9
McCue	25	33	83	10.4	8
Cavaliere	33	10	76	8.4	9

Tourney to Start For G. I. Netmen

The Redstone "company level" basketball tournament will be held Jan. 15 through March 15, it was announced by the Adjutant's office recently.

The military units which will enter at least one team are: 3523 ASU, 9330 and 9352 TSU, 1st and 2nd ETD, and the MP Det.

Other units which are invited to enter the tournament are the Post Officers, Student Officers, 6515 Signal Det., and 67 Engineer Det.

Teams will consist of ten players plus additional coaches and attendants. Team rosters must be submitted to the Special Services Sports Section by Jan. 11.

A meeting of team managers will also be held on Jan. 11 at 7 p.m. in the Special Services offices.

Games and practice sessions will be held at Huntsville Armory. Members of the post basketball team are not eligible for the tournament.

Haynor	26	7	59	6.5	9
Barone	20	9	49	6.1	8
Collins	14	10	38	9.5	4

REMAINING GAMES (Incomplete)

Date	Team	Place
Jan. 9	—Ft. Campbell	..... Away
Jan. 10	—Ft. Campbell	..... Away
Jan. 21	—Decatur Wolf's	..... Home
Jan. 23	—Stewart AFB	..... Away
Jan. 24	—Stewart AFB	..... Away
Jan. 28	—Athens College	..... Home
Feb. 5	—Bethel College	..... Home
Feb. 6	—Ft. McClellan	..... Home
Feb. 7	—Ft. McClellan	..... Home
Feb. 19	—Camp Rucker	..... Home
Feb. 20	—Camp Rucker	..... Home
Feb. 21	—Atlanta Gen. Dep.	..... Away
Feb. 27	—Ft. Campbell	..... Home
Feb. 28	—Ft. Campbell	..... Home
Mar. 13	—Camp Rucker	..... Away
Mar. 14	—Camp Rucker	..... Away
Mar. 18	—Atlanta Gen. Dep.	..... Home

Talented Miss



Eve Miller is one of Hollywood's busiest actresses. She has been seen in Warner Bros.' "April in Paris" and "The Story of Will Rogers." Both were Technicolor productions.

THINGS TO TALK ABOUT

BY FRANKLIN J. MEINE
Editor, American Peoples Encyclopedia



DUE TO RISING COSTS, IT IS BECOMING DIFFICULT FOR MANY ZOOS TO IMPORT ANIMALS. MORE ATTENTION IS BEING PAID TO BREEDING CAPTIVE ANIMALS AND TO TRADING ANIMALS BETWEEN ZOOS.



Morning Star Chapel in Waterloo, Iowa, built by Charles Walensky, is the smallest Methodist church in America. It seats only four persons.



AMERICANS SMOKED 392 BILLION CIGARETTES IN 1952. IF LAID END-TO-END, THIS NUMBER WOULD STRETCH 18 1/2 MILLION MILES, OR 740 TIMES AROUND THE WORLD AT THE EQUATOR. IF THIS NUMBER HAD BEEN DIVIDED AMONG THOSE BETWEEN 20 AND 65 YEARS OF AGE, IT WOULD HAVE MEANT 215 PACKAGES OF CIGARETTES FOR EACH PERSON.

Vic Vet says

DO YOU PLAN TO BUY A HOME WITH A GI LOAN? REMEMBER VA CAN'T GUARANTEE YOU ARE MAKING A GOOD INVESTMENT. THAT'S A DECISION ONLY YOU CAN MAKE



For full information contact your nearest VETERANS ADMINISTRATION office

PLAY SAFE

DRIVE YOUR CAR IN NOW FOR OUR WINTER CONDITIONING

SPECIAL!

- TUNE-UP
- WATER LEAKS
- LUBRICATION
- ROAD TEST

Open 24 Hours a Day!

BUFORD

MOTOR CO.
216 N. Washington
PHONE 25 OR 2905

AUTOMOTIVE Electric Service

BRIGGS and STRATTON and CLINTON ENGINE SERVICE

- TRAINED MECHANICS
- GENUINE PARTS

AUTO Electric Service

110 MERIDIAN ST.
Phones 240 and 2755
HUNTSVILLE, ALABAMA



CHARGE ACCOUNTS INVITED!



PHONE 2168

2 WEST SIDE SQUARE

MARY SHOPPE'S

Clearance Sale
CONTINUES ALL THIS WEEK!

ENTIRE STOCK OF WINTER

COATS & SUITS

AND 3 PC. BOXY SUITS

\$38. - \$50. - \$55.

Better Suits and Coats Reduced Proportionately

ENTIRE STOCK OF FALL AND WINTER

HATS

Regular \$17.98 Value REDUCED TO

\$2.00 AND \$5.00

• **DRESSES** •

VALUES TO \$24.98	-----	\$11.00
VALUES TO \$29.98	-----	\$14.00
VALUES TO \$34.98	-----	\$18.00
VALUES TO \$39.98	-----	\$20.00

BETTER DRESSES REDUCED PROPORTIONATELY

FORMALS Reduced for Clearance
1/3 TO 1/2 OFF

SPORTSWEAR

Wool and Orlon Skirts, Crepe and Cotton Blouses, Sweaters (Some Cashmeres) Cocktail Skirts—Velvet Tops

FAMOUS MARY SHOPPE GRAB TABLE

Includes Items at Give Away Prices

\$1.00 - \$1.99 - \$2.99

—ALL SALES CASH AND FINAL—
SORRY, NO ALTERATIONS ON SALE MERCHANDISE

MARY SHOPPE

111 N. WASHINGTON



YOUNG ARTISTS—Post Engineer employes who attended the Christmas dinner held in the Cafeteria, Bldg. A-101, early in December were well pleased by the playing of two young musicians, Leland (left) and Monty Lindsey. Their father, David D. Lindsey, also sang on the program. Leland is 12 years old and Monty 14. (Photo by O. B. Schlotterbeck.)

'FLYING SAUCER' TALES CAUSED BY JETS, BALLOONS, METEORS

By Cpl. Richard E. Snow, USA AFPS Washington Correspondent

Instead of spots, do you see "flying saucers" in front of your eyes?

Don't fret—what you really are seeing, the Air Force says, may be one of six things: jet aircraft, weather balloons, upper air research balloons, meteors or planets, temperature inversions, or ionized clouds.

Jet aircraft says the official AF flying saucer fact sheet, flying at great speeds and high altitudes are often mistaken for unknown

objects by untrained observers. Frequently, sunlight reflections from a plane can be plainly seen even when the aircraft itself is too distant to be visible.

Weather balloons, which are launched from almost every airfield in the country, also account for a large number of sightings, according to the AF report. These balloons go up as high as 40,000 feet and swell as they gain altitude. During the day they are highly reflective of sunlight and at night they carry small lights. In both cases they can be seen for great distances.

There also are huge 90-foot balloons in addition to the regular weather balloons. These drift from coast to coast as part of a check system for upper air research. They too are highly visible.

Unusually bright meteors and planets combined with hazy atmospheric conditions have caused many saucer stories the AF reports. And some of these have been started by relatively experienced observers.

Temperature inversion reflections can fool even a radar scope. Often the "blip" registered by a scope is as sharp as that for an aircraft. The speeds of these reflections are fantastic and the

CONSOLIDATED SUPPLY

BY JACKIE JENSEN

The rush and hurrying is over and now we are waiting for the Christmas bills and income tax to brighten up the new year. We did have some fellow workers who visited out of town—Aldredge Stephens and family have been visiting in Kansas and do hope your mother gets better, Aldredge. Mr. Zolnier is basking in the sunshine at Miami. Ruby Sydes also took her family to Florida. Sally Weeks journeyed to Birmingham and Annie Mae Adcock has been off resting from the holidays.

We are glad to see Pauline Michiels back with us after her tonsillectomy. The only complaint she had was losing her ability to

"objects" often appear to be moving in all directions, baffling interception efforts.

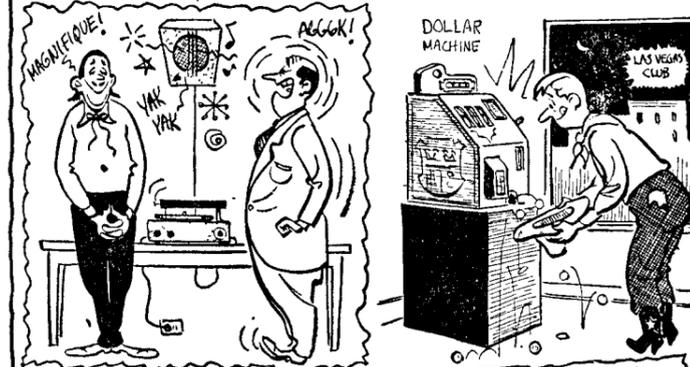
The fact sheet credits some of the reports to ionized clouds. They have caused some unidentified radar returns, particularly after dark when it is difficult to make checks.

In an effort to obtain more complete findings in the case of all sightings, the AF is attempting to bring together all reports. In addition, it has set up photographic equipment to try to catch the saucers. As yet the AF has not received any photographs of saucers from this source.

THINGS TO TALK ABOUT

BY FRANKLIN J. MEINE
Editor, American Peoples Encyclopedia

AT THE HEIGHT OF THE YUKON GOLD RUSH IN 1901, THE POPULATION REACHED 27,000. AND GOLD OUTPUT WAS 22 MILLION DOLLARS IN ONE YEAR. NOW THE TERRITORY HAS 9,000 PEOPLE - AND 2 MILLION DOLLARS IN GOLD IS MINED ANNUALLY.



A Frenchman has invented a new mode of music. He claims that recordings of random fragments of music, speech and electronic noises, in their very incoherence form a modernistic pattern of sounds.

THERE ARE ABOUT 197 MILLION SILVER DOLLARS IN CIRCULATION IN THE UNITED STATES.

talk for a while. We are happy to see that she has recovered.

Let's say hello to Eula Lewis who transferred from Camp Rucker this week. It is beginning to look like old home week now with so many of the people here from Rucker. Dora Brazelton from Line 2 is with us for a few days.

Santa Claus was very good to our people here. Estell Phillips is sporting new rings and Rilla Steelman had the best present of all. Her husband called her from Germany. Maybe next year he will be home. Charlotte Moore has been floating on Cloud No. 9 ever since her steady came home for Christmas leave. Be patient, remember you were young once. Marilyn Milner received a brand spanking new 1953 Ford; how did Santa get that in your stocking? J. T. Walls has a new Oldsmobile and is single, if anyone wishes a good prospect for the next Leap Year.

We would like to take this op-

portunity to thank all the one who helped us with the family, we adopted for Christmas. The dolls, food and money that was given helped to give six children a good Christmas. Let's not forget these people during the coming year though.

This is my last chance to write for the Rocket. The urge to go home has finally gotten me but before I leave let me say than you for the cooperation that you people have shown me in getting up the news and a million thank to Jerry Underwood for typin the column for me. Goodbye and if you are ever in Atlanta come to see us.

Water spots can often be removed from clothing by rubbing the garment with a piece of the same fabric. * * *

Bring out the design in embroidery or lace by placing the material on thick padding and ironing it on the wrong side.

DAMP WASH

6¢ LB.

WASH, DRY

AND FOLD

8¢ LB.

ALSO DRY CLEANING FIVE-POINTS LAUNDRY SHOP

715 Pratt Ave. Phone 332

A payment a month will buy it...



Life Insurance guarantees your family will keep it!

If you die during the period of a mortgage on your home, your family will be obliged either to continue the payments or to move out. That's why you should call your Provident representative today about the Home Protection Plan—a flexible plan which pays for the home if you die, which allows you to benefit from the insurance if you live.

JESSE C. ANDERSON
GENERAL AGENT

508 State National Bank Bldg. — Phone 5487
HUNTSVILLE, ALABAMA

PROVIDENT LIFE AND ACCIDENT INSURANCE COMPANY



BIG

REDUCTION ON ALL WINTER MERCHANDISE

Tonic for your Budget

ALL WINTER COATS

VALUES UP TO \$32.95

NOW

\$9.95 TO \$19.95



Union Dry Goods Co.

112-114 JEFFERSON

PHONE 9124

ORDNANCE HISTORY

By Lt. Col. George I. Calvert
Continued From Last Issue

To carry out the ordnance program a large number of chemical, inspectors, engineers, machinists, skilled mechanics, and technologists of every type were required. Extensive training facilities were created to produce them.

Formal training of ordnance officers had been inaugurated in 1902 when the Ordnance School of Application was established at Sandy Hook Proving Ground, N.J. This school was superseded by the Ordnance School of Technology activated at Watertown Arsenal in 1906. The course included the following subjects: metallurgy, testing of materials, shop work, arsenal administration, and general administration of the Ordnance Department. In 1917 twelve supply schools were established in universities, which were supplemented by 4 arsenal schools. These courses were discontinued in 1918 and consolidated in accordance with policy into an Ordnance school at Camp Hancock, Ga. Supply courses were also held in field depots and at Camp Meade, Maryland.

In June 1917 an ordnance course was inaugurated at the plant of the Bethlehem Steel Co., for newly commissioned officers. The subjects included gun carriages, metallurgy of steel, manufacture of bronzes, and other essentials. At the same time supply schools for officers commissioned from civil life were established at Frankford and Watervliet arsenals.

Thirteen additional schools were instituted at arsenals, plants, universities and proving grounds to train inspectors for the inspection of material in the process of manufacture as well as in the field.

A specialists school was established at Camp Jackson, South Carolina. This school included driver training for trucks, tractors, and motorcycles, as well as maintenance and repair of field guns, howitzers, limbers and camouflage work. These school graduated a total of 50,631 personnel, both commissioned and enlisted.

During the war the Ordnance Department activities were primarily directed towards the production of materials. 30,000 prime contracts were let, involving some 115,000 sub-contractors.

As a whole, the commercial industries were unprepared to manufacture ordnance material, and the requirements of the combat forces were not met on a timely basis. The Ordnance Department, due to fund limitations, had not been able to accumulate in peace time sufficient stocks of munitions to meet the needs of a rapidly growing army pending initiation of new production.

The total production for the years 1917 and 1918 included the following ordnance items: Four million pounds of high explosives, 51,000 trucks, 80 tanks, 3 1/4 billion rounds of ammunition, and 5 1/2 million items of horse equipment.

It is interesting to note here that five out of every six ordnance trucks were used for hauling ammunition in World War I. A few carried machine guns and trench mortars, and practically all the rest were designed for field repair shops.

After World War I ordnance

forces were rapidly demobilized. On June 30, 1920, the Department consisted of one major general, 16 colonels, 17 lieutenant colonels, 103 majors, 230 captains and 139 lieutenants, for a total of 506 officers, of which 35 were detailed to other branches. The enlisted strength was 3600. These were allocated as follows: 300 to 11 light mobile ordnance repair units, 200 to the mobile ordnance repair shop in Germany, 75 to the U. S. Forces in Siberia, 235 to heavy mobile ordnance repair shops, 383 to 9 provisional ordnance detachments, 330 to ordnance depot companies, 1600 to line organizations, and the balance to other ordnance facilities and organizations.

On June 30, 1923, the personnel strength consisted of 235 officers, 2200 enlisted men, and 6800 civilians.

After the armistice, enlisted training schools were consolidated to form the Ordnance Maintenance Repair School (later Ord. Field Service School) at Raritan Arsenal. Officer training schools were established at Watertown Arsenal and Aberdeen Proving Ground.

In February 1919 the Chief of Ordnance reorganized the department. He retained for his office the general supervision and inspection duties, and delegated the other responsibilities among five men, each of whom headed an office concerned with a group of related functions. These were: Administration, manufacture, technical staff, districts, and field service. The basic functions of design, manufacture, and distribution were the basis for division of duties among the various groups. This pattern proved so successful that, in general, it remained in force throughout the peace years and during World War II.

The basic organizational structure under which ordnance operated when war preparations began in 1939 and 40 were established by ordnance department order NR10 dated Jan. 20, 1931. Four principal groups—designated general office, manufacturing service, technical staff, and field service—were created to assume responsibilities clearly stated in the order.

In the fall of 1917 when the facilities of Sandy Hook, N.J., proved inadequate, Aberdeen Proving Ground was established at its present location on the west shore of Chesapeake Bay in Maryland.

The initial mission of Aberdeen Proving Ground was acceptance testing of field artillery weapons, trench mortars, anti-aircraft guns, ammunition, and railway artillery. Small arms testing was started at the conclusion of World War I. Development testing was started after the armistice.

In 1932 funds were made available for permanent construction, and important test facilities were added to Aberdeen, including the ballistic research laboratory.

In 1936 action was initiated to centralize ordnance training—officer and enlisted—at Aberdeen Proving Ground. As a result, the Ordnance Field Service School was moved from Raritan to Aberdeen in 1940 and combined with the officers' school to form the ordnance school. Officer training at Watertown Arsenal was discontinued.

In 1939, the major ordnance establishments consisted of 6 old line arsenals and 19 field service depots, 13 districts, 3 schools, and one proving ground. Ordnance exercised control over 335 regular officers, 100 national guard officers, and 3,000 reserve officers. The civilian employees numbered 16,000.

In 1942 the army was reorganized and the Ordnance Dept. and other technical and administrative services were placed under the commanding general, services of supply. In 1943 services of supply were changed to army service forces.

In June 1942 General Wesson retired as Chief of Ordnance and

was succeeded by General Campbell. General Campbell reorganized the Ordnance Department. The main breakdown consisted of general office, military training division, technical division, industrial division, and field service division.

A program of decentralization was initiated for the administration of artillery ammunition production, small arms production, automotive production and safety and security.

In 1942, the Ordnance Department Board was established. They held their first meeting at the Desert Training Center, Indio, California, in July 1942, and the board was permanently established at Aberdeen Proving Ground in August of that year.

In August of 1942 the Ordnance Department was directed to assume general responsibility for all motor vehicles—both general purpose and combat—formerly divided between Quartermaster and Ordnance.

This transfer also involved all Third and Fourth Echelon Quartermaster Maintenance Units, bases, districts, depots, repair shops, schools, etc. This tremendously increased the mission activity of the Ordnance Department.

Within a few weeks it was decided that the tank and automotive production activities would be handled in Detroit. The installation was activated and designated the Tank-Automotive Center, later changed to Office, Chief of Ordnance, Detroit, then to Detroit Arsenal, and finally back to OTAC.

The growth of the department during World War II was phenomenal. By 13 Dec. 1942 the personnel strength was 24,000 officers, 234,000 enlisted men, and 258,000 civilians. The largest civilian payroll in February of '43 was 268,000. In addition, more than 380,000 civilians were employed in government-owned ammunition plants. By V-J Day there were approximately 28,000 ordnance officers stationed in all parts of the world.

Ordnance establishments also sky-rocketed in number and size.

The training activities conducted by ordnance during World War II consisted of six general types as follows: Basic training of inductees, training of specialists, training of illiterates, officer training, officer candidate school, and unit training.

The money expended by ordnance from early 1940 until the ending of hostilities amounted to 45 billion dollars. Of this amount,

38 billion went for tanks, small arms, trucks, ammunition, and accessories. The ordnance effort represented about fifty per cent of the supply task of the Army and about twenty per cent of the total United States war munitions effort, including air, Navy, and Merchant Marine production.

Of the ten billion dollars spent for ammunition, eighteen million tons were produced. This ammunition was equal in explosive effect to 895 atomic bombs. 88,000 tanks were produced, 50,000 self-propelled weapons, 2 1/2 million trucks and 600,000 artillery pieces, plus many billions of rounds of small arms ammunition.

The actual expenditure for items of equipment in World War II was almost ten times as great as for similar expenditures in World War I. In weight, the approximately 38 million tons of ordnance material produced between 1940 and 1945 was 25 times greater than that produced in World War I.

Some measure of the size of this business may be obtained by comparing it with the automobile industry, which at its peak rate of peacetime production with factories fully tooled and ready, would have needed almost fifteen years to produce the same amount of manufactures.

After V-J Day the Ordnance Department put into operation the plans that were prepared months in advance for the prompt termination of contracts. Because of the excellence of this planning, we were able to initiate the settlement of 11,000 contracts the same month that the war ended. Seventy per cent of the termination job from a numerical standpoint had been completed by Dec. 31, 1945. However, from a dollar value standpoint only twenty-three percent of the job had been completed by this date.

The disposal of two billion dollars worth of surplus was also accomplished promptly by Ordnance subsequent to V-J Day. Personnel demobilization after V-J Day generally was carried on, especially in the enlisted field, more rapidly

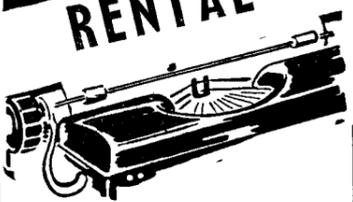
than those responsible for the efficient operation of the Ordnance establishments felt that it should be. Civilian employees were decreased by fifty-one per cent by December 1945.

The normal peacetime activities—research, development, storage, maintenance, and training—are now continuing at levels higher than those which existed before World War II.

To Be Continued Next Issue

7,200 Rockets — 15,000 Readers!

TYPEWRITER RENTAL



RENT A TYPEWRITER OR ADDING MACHINE AT BUSINESS EQUIPMENT CO.

210 RANDOLPH ST.
PHONE 71

CITY RECORD SALES

214 Randolph Phone 478
OPEN 'TIL 6:00 P. M.

FINE WATCH REPAIRING
LANNIS SANDERS
JEWEL SHOP
LYRIC THEATRE BLDG.
HUNTSVILLE, ALABAMA

MARION'S FLOWERS

Times Bldg.
Day Phone 4472 — Night 2406-R

SPECIALIZING IN FIRE AND AUTO INSURANCE

WE REPRESENT OLD LINE LEGAL RESERVE STOCK COMPANIES

JESSE R. (Pat) PATTERSON

PATTERSON INSURANCE AGENCY

3RD FLOOR TIMES BUILDING
OFFICE PHONE 4074
AMERICA FORE INSURANCE GROUP HOME PHONE 2701-J

UNIVERSITY CENTER UNIVERSITY OF ALABAMA

WINTER QUARTER

JANUARY 4, 1954 — MARCH 18, 1954
Office: Butler High School, West Huntsville
Telephone 1590

SCHEDULE OF CLASSES

Classes Meeting on Monday and Wednesday

	Prerequisite	Credit in Sem. Hrs.
I. FIRST PERIOD (6:00-7:55)		
Accounting 2—Principles of Accounting	Accounting 1	3
Chemistry 2—General Chemistry	Chemistry 1	4
Economics 11—Principles of Economics		3
Drawing 32—Engineering Drawing 2	Drawing 1	2
History 49—Current World History		3
Mathematics 15—Trigonometry	Mathematics 11	3
Political Science 3—Functions of American Government	Political Science 1	3
Speech 2—Basic Speech	Speech 1	3
Sociology 1—Introduction to Science of Human Relations		3
M. E. 51—Thermodynamics	Math. 51 and Physics 6	3
II. SECOND PERIOD (8:05-10:00)		
Accounting 53—Advanced Accounting	Accounting 3	3
English 2—English Composition	English 1	3
History 2—History of Civilization, Part 2		3
Mathematics 11—College Algebra		3
Mathematics 01—Elementary Algebra		NC
Political Science 16—American Diplomacy	Soph. Standing	3
Che. 12a—Chemical Process Calculations, Part 1	Chemistry 2	3
MH 81—Engineering Mechanics (Statics)	Physics 5 and Math. 51	3

Classes Meeting on Tuesday and Thursday

I. FIRST PERIOD (6:00-7:55)		
Accounting 1—Principles of Accounting		3
Art 7:8—Design (Tuesday only—6:00-10:00 P.M.)		1 1/2
Art 37:38—Elementary Ceramics (Thur. only—6:00-10 p.m.)		1 1/2
English 6—English Literature	English 1, 2, and 5	3
History 21—American History to 1865	Soph. Standing	3
Physics 6c—Technical Physics (Lab. Wednesday 6:00-9:00)	Physics 5c	3
Political Science 12—Local Government	Pol. Science 1	3
Mathematics 49a—Differential and Integral Calculus	Math. 25	3
Political Science 1—American Government		3
II. SECOND PERIOD (8:05-10:00)		
Business Law 51x—Introduction to Business Law	Approval of Instructor	NC
English 51—Fiction Writing	Permission of Instructor	4
History 26—Alabama History, Part 2		3
Political Science 3—Functions of American Government	Pol. Science 1	3
Physics 5c—Technical Physics (Lab. Wednesday 6:00-9:00)	Math. 15	3
Mathematics 11—Algebra		3

Registration dates are January 4-5. Classes begin on January 6. Late registration will be accepted for one week after classes begin. Students are urged to register during the regular registration period in order that their advisors will be available for consultation. Any class above not enrolling sufficient number of students will be cancelled.

Clubs..Societies



OML's JEAN HAMMONS

HERE IS EMPLOYE WHOSE HOBBY EARNS MONEY AND FAME FOR HER

BY ANN RICHARDS

OML has an employe who has turned a hobby into a paying job. She is Miss Jean Hammons, a member of the Administrative and Technical Services Office.

Jean was seen by many OML fans when she appeared during October and November on a twice-a-week television show over Birmingham's WABT, Channel 13. Completing a family trio, she sings the alto part when they harmonize on the latest popular songs like "Vaya con Dios", "Yours," and "Caribbean". Occasionally, Jean is asked to fill in for other parts on the show for something which is known in the TV world as "special gimmicks."

The two other members of the trio are Jean's sister, Margaret Lindsay, and a niece, Betty Taylor, who is also a Redstone Arsenal employe. Betty works in the National Procurement Division.

The break came for Jean and the others when her brother-in-law suggested that they get an audition at the TV studio. Jean's sister wrote for an audition; they got it, and soon they were appearing regularly on the weekly show.

The trio began its second series of weekly appearances over WABT on Tuesday, December 22, at eight o'clock in the morning. The program, which is called "Breakfast in Birmingham," also includes a comedy team, several vocal solos, and instrumental numbers. Usually, the trio sings as many as three songs during the 45 minute program.

Since it is a "live" show, it is necessary for the three girls to

"Medical Madness" To Be W. C. Program

"Medical Madness" is the name of the skit which will be presented at the Officers Wives Club meeting Jan. 12 at the Officers Open Mess. Mrs. Raymond Zukaitis is the program chairman. The

leave Athens around five o'clock in the morning for Birmingham in order to make the thirty minute rehearsal at seven-thirty for the eight o'clock show.

The distance between Huntsville and Birmingham is the main handicap for Jean. Living as far away from the studios as she does makes it impossible for her to appear on other television shows.

Jean is an attractive young girl (all of 20 years) who helps keep the personnel records for Ordnance Missile Laboratories. She transferred to her present job from the Guided Missile Development Division in December 1952. This makes Jean's second year at Redstone Arsenal. Although, originally from Athens, she now lives at 704 East Holmes St., in Huntsville.

Other hobbies which, unlike her singing, haven't made Jean any money are fashion designing and swimming. However, Jean confesses that she really can't swim. Her male TV fans aren't too alarmed at that; any girl who looks as good on a TV screen as Jean would be a pleasant decoration for anybody's swimming pool.

Food Sense—Not Nonsense



Winds Blew Free—But Sailors Had No 'C'

Of those who sailed the high seas of old, it rarely could be said, "they never had it so good." Food supplies on voyages were limited and outbreaks of scurvy were common. Scurvy is now known to be caused by lack of vitamin C.

It was by chance that sailors discovered that citrus fruits could prevent scurvy. Science revealed that the anti-scurvy—antiscorbutic—properties were due to the acid—vitamin C—now known as ascorbic acid.

Although scurvy is rare in this country today, a lack of adequate amounts of ascorbic acid in the diet can be recognized. A shortage will result in weakened walls of the capillaries—those tiny blood vessels which form an amazing network in the body. Those who have mild shortages may bruise easily. Lack of energy, muddy complexions and slow healing of wounds are other indications of a deficiency. Scurvy in children is frequently diagnosed as infantile rheumatism. If a deficiency of vitamin C is not too advanced, it may be corrected by adequate amounts of the vitamin in the diet.

Because the body is limited in its ability to store vitamin C, this nutrient must be obtained daily. The easiest way to meet the daily C requirement is through a generous serving of citrus fruit at breakfast. In fact, a well planned breakfast will not only furnish vitamin C but will furnish significant portions of the other nutrients we require. Enriched or whole grain cereal or toast, an egg or serving of breakfast meat and a glass of milk supply the breakfast's share of proteins, B vitamins and minerals.

Daily use of canned or fresh tomatoes, or tomato juice is also a simple way to get one's vitamin C. Often overlooked as sources of this nutrient are potatoes, cabbage and green vegetables, especially if uncooked.

Although vitamin C is more readily destroyed by heat or exposure to air than other vitamins, it is not always lost in cooking; most of the original "C" is retained in a baked potato. Acid fruits, prepared and refrigerated overnight lose little of this vitamin by breakfast time.

HOUSEHOLD HINTS

Per capita beef consumption increased from about 61 pounds in 1952 to around 75 pounds in 1953; pork consumption dropped from about 72 pounds to about 61 lbs. per capita.

By adding a small amount of

starch to the last rinse when washing worn table linens, cloths will recover original crispness and firmness of weave.

The juice of half a lemon and three drops of peppermint ex-

meeting will start with a luncheon at 12:30, and reservations should be made by noon of Jan. 9 by calling Mrs. Archibald Dean at Huntsville 1662-M or Mrs. Robert Bailey at 1735-M.

The nursery will be open during the meeting.

BERMAN
Insurance Agency
Room 11-12 Hutchens Bldg.
PHONE 5470

tract added to a glass of grape juice makes a refreshing beverage treat.

Use borax and cold water to remove chocolate and cocoa stains.

Embroidery hoops are convenient to use for holding material in place when removing stains.

Pre-heat the teapot by placing it on top of the uncovered teakettle while the water is coming to a boil.

FOR—

THE BEST CARE FOR YOUR CAR

—VISIT—

HAYES SERVICE STATION

• Cities Service Products
CORNER GREEN & CLINTON STS.
PHONE 2322
HUNTSVILLE

LET
GRAND CLEANERS
DO IT

WE USE A NEW PROCESS THAT GETS YOUR CLOTHES

6

TIMES CLEANER

WE CALL FOR AND DELIVER

GRAND CLEANERS
DOWNTOWN BRANCH
113 E. CLINTON
PHONE 643

PLANT
801 FRANKLIN — PHO. 1964

COLOSSAL JANUARY CLEARANCE

• NOW IN PROGRESS •
THROUGH SATURDAY

1/3 OFF TO 1/2 OFF

FREE ALTERATIONS ON TROUSERS ONLY!

ON GROUPS OF
SUITS -- TOP COATS
PANTS -- SPORT COATS
DRESS SHIRTS -- SPORT SHIRTS
JACKETS -- HATS
SOCKS -- TIES

ALL SALES CASH — ALL SALES FINAL

CLIFT AND HOLMBERG
Yarbrough Hotel Bldg. Phone 2279

SEMI-ANNUAL **Clearance**

SUITS AND COATS

ALL GREATLY REDUCED

HATS **1/2 OFF**

Sale Starts at 9:00 a.m. Tuesday, Jan. 5

BE HERE EARLY FOR BEST BUYS

ALLEN SHOP

122 N. Washington

A LOT OF AIR—

Arsenal's Wind Tunnel Speeds Up Development

A supersonic wind tunnel that once helped to develop the German V-2 rocket is now speeding up the creation of American-made rockets and guided missiles here at Redstone.

The tunnel can, if need be, attain wind velocities of several times the speed of sound.

Details of the tests being conducted at Redstone cannot be revised for security reasons, but there's a good chance that some of the missiles it is helping to develop will some day fly through the air—and space—faster than anything previously known to man.

The Redstone tunnel, a fairly modest one as far as wind tunnels go, is known as a "blow-down" tunnel.

The supersonic airflow is produced when the air, stored in a tank at atmospheric pressure, flows through a nozzle and is discharged into a series of tanks that contain a near vacuum.

"To test our rocket and missile models, only dry air is used," Dr. Ernest Geissler, chief of the Aeroballistics Laboratory, said.

"Wet air distorts the flow," he says. "A uniform flow is the main requirement in wind tunnel tests, which means that all conditions in the tunnel must be carefully controlled."

In some wind tunnels the same air is used over and over again. But due to the nature of the design, the Redstone tunnel requires fresh outside air—filtered, cooled and dried—after each operation.

The air is dried by activated alumina in special dryers that rapidly absorb the moisture.

The dry air is stored in a tank at one end of the tunnel. At the other end sit huge tanks from which the air has been exhausted. When a test is run, the air from

the storage tank rushes through the tunnel into the vacuum tanks. About 90 seconds is the limit of a test in the Redstone tunnel.

A complex arrangements of prisms, mirrors and a still camera are used to record the shock waves produced during each test. Complicated electronics equipment gathers other information too—all by remote control.

"After all results are in from perhaps hundreds of tests on a single model, the good features are retained and the less promising designs discarded," Dr. Geissler says.

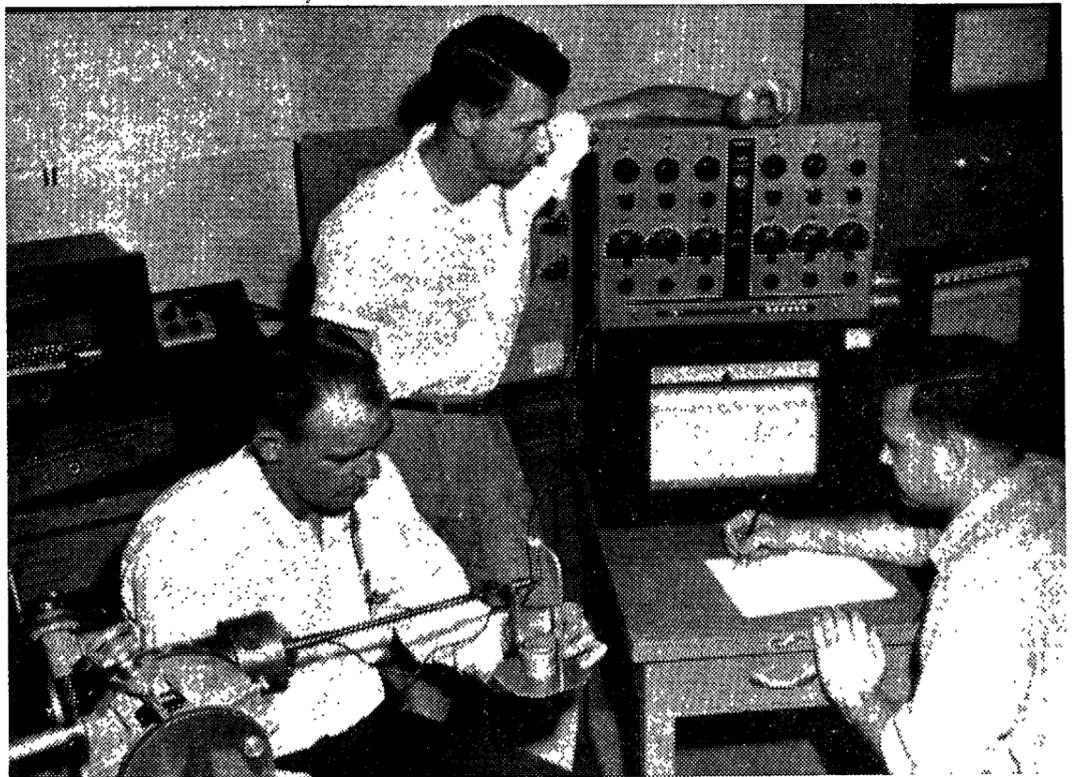
"The reason we have wind tunnels is to save money and equipment. The blow-down tunnel is particularly economical when compared with other types that have huge fans and other elaborate equipment."

"Some people, however, have used everything in building their wind tunnels. Old barrage balloons, railroad tank cars, and even leather bags have been used as storage tanks for air."

Dr. Geissler, who is a graduate physicist, is chief of the Aeroballistics Laboratory of the Guided Missile Development Division at Redstone Arsenal. He is a former German V-2 scientist.

The Redstone wind tunnel was brought to this country from Peenemuende, Germany, where it was used in developing the V-2 rocket. A considerable number of the tests required by Redstone guided missile scientists is performed in this one tunnel.

Thomas Reed is chief of the Experimental Aerodynamics Section. Chief of the Wind Tunnel Unit itself is Ellery May, a native of Greensboro, who now lives in Huntsville. Chief of the Wind Tunnel Instrumentation Unit is



DATA COLLECTORS—Wind tunnel employes collect data while a test is in process and prepare for future tests in the Redstone wind tunnel. At left is James C. Pritchard, 371 Redstone Park, Huntsville, checks a strain gauge balance. Pritchard is a native of Gunterville. Center is Earle Harris, 517 Woodmont Ave., Huntsville, an electronics engineer. Harris is a graduate of Tennessee Polytechnic Institute and is a native of Nashville. Seated at right is Carl Walker, 284 Redstone Park, an electronics installer. Walker is taking data from an electronic instrument that records strains produced on wind tunnel models. (Photo by John Pinkerton.)

James Clark of Decatur. To further the speedup of American-made rockets and guided missiles, vital tests are also conducted in wind tunnels in other parts of the country. This phase of the development program is headed by Robert Nuber, deputy chief of the Experimental Aerodynamics Section, who was employed as an aeronautical research scientist in the laboratories of the National Advisory Committee for Aeronautics before coming to the guided missile center.

PURCHASING & CONTRACTING DIV.

TOM COLTHARP

P & C, 76 strong, had a bang-up time at the Christmas dinner party the 11th. Cambron's was gaily decorated by a hard-working committee, headed by Mrs. Ruth Sharpe (hear they borrowed a high executive to walk along table tops and do the high spots). The mistletoe at the door was a very popular spot. Saw Earl Crawford wavering on the outside of the doorway for many long minutes, gathering courage to face the line of gals inside. A delicious turkey dinner started the evening, and the dancers held forth afterwards till the wee sma' hours. Jo Ann Ratliff had trouble locating one of her shoes, and Gene Suns was "a-shining" with the best of them. Door prizes were won by "Dusty" Anderson (Sara's husband) and Judy Estelle (Gwen Moore's guest). It certainly was a wonderful way to begin the Christmas season.

Mrs. Betty Cole and husband have left for two week's vacation in Endicott, N. Y.

Mrs. Jerry Peabody and husband are also Christmas-ing in Endicott—IF she gets her passport.

"Grandma" Anderson is really happy these days. Her son (Lt. Dusty Anderson, U.S.N.) and his wife and newly-born (?) are visiting the Andersons over the holidays.

Mrs. Effie Thames is the new employe in the Contract Audit & Typing Section (commonly known as CATS). She hails from Montgomery, Ala.

Hey! No employes have left P & C in the last two weeks. Something must be wrong. May-

FOR RENT!

FLOOR POLISHERS
\$1.00 Per Day

Wax and Cleaners of
Finest Quality

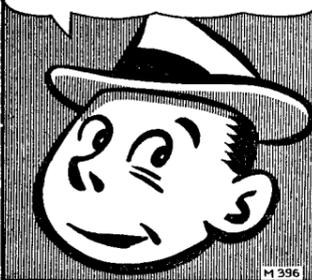
FREE ADVICE ON FLOOR
MAINTENANCE

SAINT'S FLOOR
SERVICE

Phone 745
1518 Whitesburg Drive

Vic Vet says

ONE IMPORTANT FACT POST-KOREA VETS SHOULD NOT FORGET...THE NONDISABLED HAVE ONLY 120 DAYS AFTER DISCHARGE TO APPLY FOR GI LIFE INSURANCE. AFTER THAT, THE PRIVILEGE IS GONE.



For full information contact your nearest VETERANS ADMINISTRATION office

Always wash egg stains in cold water.

be I should put a bug in someone's ear so I'll have something to write about.

Hats off to the Guidance Design Section for the unusual Christmas card displayed over their entrance doorway. Very good work.

This is it for now, but in closing would like to take this opportunity to wish each and everyone of you a very Merry Christmas and HAPPY NEW YEAR!

Cereals are needed in the diet because they furnish energy for work, play, and daily activities; they are the cheapest source of food energy we have.



Winter Pick-Up for Your Wardrobe

Now's the time to refresh your winter wardrobe till spring clothes take over. Many cold days await you; meet them looking good.

MARCUS PENDER CLEANERS

● SHIRT SERVICE ●

22 Years at This Address

217 Washington St. - Phone 945

THRIFT WEEK

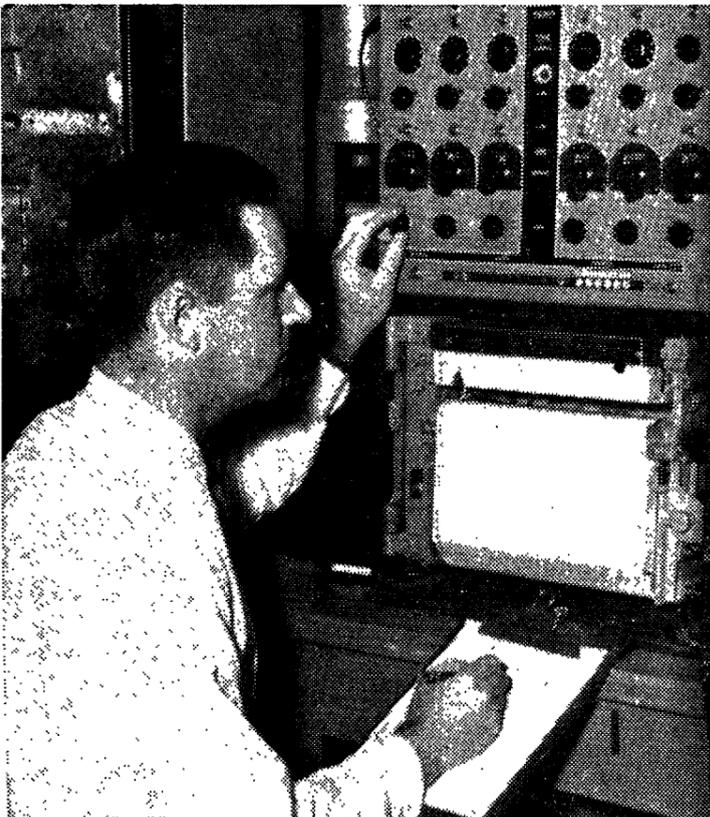


SAVE 10% OR MORE IN '54
(start, Thrift Week: Jan. 3-10)

Here's advice that Benjamin Franklin would have heartily approved: Every pay day, deposit at least 10% of your earnings in your savings account. It's the one sure way to stop wishing and start having!

THE FIRST NATIONAL BANK OF HUNTSVILLE

Member of FDIC—Federal Reserve System



WALKER COUNTY ENGINEER—Joe Fikes of Nauvoo and Carbon Hill, Ala., takes a reading from one of the complex electronic indicators used to gather information about guided missile models in the Redstone windtunnel. He is an aerodynamic development engineer. (Photo by Harvey McCrary.)

THE REDSTONE ROCKET

JANUARY 5, 1954

MEADOW GOLD PRODUCTS

IN 1954

USE MORE

MEADOW GOLD PRODUCTS

It will help an ailing budget—And give the family's appetite a lift!

MEADOW GOLD DAIRIES

PHONE 47 — 601 W. CLINTON — HUNTSVILLE

REMEDIES FOR
AN AILING BUDGET



MEADOW GOLD DAIRIES

PHONE 47 — 601 W. CLINTON — HUNTSVILLE

NATIONAL PROCUREMENT
By Gil Bernstein

By the time you read this, Christmas will have come and gone, but the holiday spirit will linger on for some time. For the past two weeks we've been busy bringing the holiday warmth and friendliness to Bldg. 781, as evidenced by our huge (well, average anyway) Christmas tree and our beautifully adorned Christmas card display. Thanks to Mel Buben and Ann Hertz for the wonderful decorating job, and to all our friends and fellow workers for the colorful cards. And speaking of friends, don't forget those that are away from home this Christmas. Why not drop a few lines to: Capt. Berke' KMAG, APO 59, Postmaster, San Francisco, Calif., and Lt. Goodman, 7822 SCU Ord. Div., Dachau Det., APO 108, Postmaster, New York, N.Y. I know they will be happy to hear from all of us and would be thrilled to hear some NPD gossip.

Our Miss Phillips is high up on somebody's HIT PARADE. Every morning "Mr. X" leaves an offering of cigarettes, candy, newspapers, etc. on her desk. Who is he Earnestine, and does he have a brother?

Major Keyserling says he's glad he's not a lady and doesn't have to wear a girdle. Some broken ribs sustained in an auto accident have required encasing his "upper torso" in sheet aluminum (adhesive tape to you) and it's slightly uncomfortable. Major K, please note: Girdles aren't for the upper part of the anatomy!

Mr. Studdard has been passing

out cigars and accepting congratulations on the arrival of six little "bundles" all blondes. Three have already been sold for Christmas delivery. Anyone desiring a blonde cocker pup can contact Mr. S.

"Birds of a Feather Flock Together"—Nellie Murphy and Web Mayfield enjoy the same game. Something played with miniature dominoes.

Louise DeVasher heads for Tuscaloosa, her home town, every weekend, come rain or shine. What's the matter Louise, can't he find his way thru this maze they call H'ville? Can't say as I blame him.

A demure little lass blushing-ly asked an Admin. employe "Is the new Lt. Col. named LOVINGS?" Much to her dismay, she was informed that contrary to what she heard at the NPD party, the name is L-E-V-I-N-G-S...

Congratulations to Joe Thompson and Jim Williams who successfully completed Proc. School at Ft. Lee, Va., finishing in the upper part of the class. We're right proud of y'all.

Bet Ray Read is glad he's living in the 20th century instead of the 17th. The lady's husband would surely have challenged Ray to a duel. Telephones can be dangerous weapons, eh what!

Betty Smith has graciously volunteered to give J. Tom Smith roller-skating lessons, and also to be his cushion in case he falls on his "you know what"—Bet, Tom makes like an amateur all right.

Holland Sauls certainly had an exciting birthday party thanks to the "femme fatales" in Proc. Br. The girls had a luncheon and H. B. was the only male. Doris Woody baked a cake, and the girls presented him with a can of tobacco. For smoking, I hope. The girls of Admin. Br. sang 'Happy Birthday' to Holland in the Teletype room. Such popularity. Some of us got it, and some of us ain't.

Congratulations to: Doris Woody—Betrothal to James McDonald of New Hope.

Irene McKinney — Brand new Pontiac;

Nancy Moyers and Austin Couch—Marriage on Dec. 18;

Marie and Reggie McLaney—Arrival of Deborah McLaney;

James Studdard—New home on Monte Sano.

Glad to see Col. Thayer and Lt. Col. Calvert back from leave. Col. Thayer took a short vacation in conjunction with TDY and Col. Calvert spent a more luxurious vacation just fishin' and huntin'!

Margie McQuiston will soon be commuting all the way from Walnut Grove, wherever that is. Her husband has accepted a call to the W. G. Baptist Church which Margie says, is somewhere between New Market, Hazel Green and Heaven. Good Luck to you. 'Bye now.

LIBRARY NEWS

BY ANNA L. FARRAR
Librarian

We have received some new books which we would like to call to the attention of our library patrons. There are some potential best sellers in the group.

Fiction

Margaret Barnes, The Tudor Rose
Betsy Beaton, Another Man's Shoes

James Bellah, Valiant Virginians
Saul Bellow, Adventures of Auggie March

Phyllis Bentley, House of Moreys
Frances Crane, Murder in Bright Red

Clay Fisher, Yellow Hair
John Gould, Fastest Hound Dog in the State of Maine

Robert Heinlein, Starman Jones
Dion Henderson, Algonquin

Harnett Kane, Lady of Arlington
Ruth Moore, A Fair Wind Home

Dorothy Roberts, Enchanted Cup
Katherine Simons, Red Doe

Eve Stephens, Rebel Princess
Richard Sullivan, 311 Congress Court

Dale Van Every, The Trembling Earth
Jerome Weidman, Third Angel

Paul Wellman, The Female
Jan Wescott, The Walsingham Woman

Non-Fiction

James Corbett, Jungle Lore
Gerald Durrell, Overloaded Ark

Richard Hyman, Nonsense, USA
Elmer Leterman, The Sale Begins

When the Customer Says "NO"
Ronald McKie, The Survivors

Fulton Oursler, Greatest Faith Ever Known
Edward Raden, Crimes of Passion

Kenneth Tydings, Modern Twin-Lense Reflex Camera Guide
Wall Street Journal, "Hey, Can't You Forget Business?"

Harold Webster, Best of H. T. Webster
Oscar Williams, Little Treasury of British Poetry

Earl Wilson, Look Who's Aboard Now

SALUTE TO OUR SECRETARIES



BY HELEN REED

Mrs. Buddie Hopkins (Kay) is a happy, friendly, and very busy young lady. At the arsenal, she is the secretary to S. A. Veatch, Contracting Officers' Representative for the two Government-Owned Contractor - Operated plants.

At home, she has two daughters, Mary Elizabeth, 8, and Clara Jean, 5, and a husband who is associated with the Orkin Exterminating Co. They live in Decatur, where they built their own home, and moved in last March.

Kay loves music, plays the piano, and now her daughters are studying piano. So their mother is having piano lessons all over again in her efforts to get them to practice.

Christmas was even busier for her than for the average working girl with a family. She planned and prepared the food for her husband's office party—no small matter with an entire holiday dinner for 36 on the schedule, complete with decorations and favors all done by Kay.

Her contacts with contractor personnel bring her a lot of pleasure, as their problems—personal, technical and financial—all come through Mr. Veatch's office where all contracting work is negotiated.

A native Alabamian, Kay lived in the southern part of the state where her father was a minister. When he retired, they moved to Montgomery, and Kay was graduated from Sidney Lanier High School with a commercial diploma.

Kay met Buddie during World War II when he was in her brother's outfit. They actually had only three dates before they were married. She met him before he went overseas and married him when he returned.

She started married life with

quite an adventure in the Army. Buddie was being transferred from Miami, Fla., to Ft. Sill, Okla., and decided to take Kay along on the train with him and 37 other soldiers. There was Kay, the only girl in a car full of men.

Her husband had the meal tickets, so she walked with him at the head of the line with 37 soldiers trailing behind each time they went to the diner. "It was downright confusing and embarrassing at the time, but I look back on the experience now as a lot of fun," Kay said.

Our Kay's first job was at the Officers Club at Maxwell Air Force Base. After her husband was discharged from the Army, he went to work for Orkin, which, incidentally, is the only job he has ever had. Then Kay worked for Orkin, too.

Time out for their second daughter, and Kay's next job was as secretary to the commercial transportation officer at Maxwell until her husband was transferred to the North Alabama office of the Orkin company in Decatur. That brought her to this area, and she first worked at Redstone for Claude Stockton in Budget and Fiscal.

When Mr. Veatch's office was created in April, 1952, Kay went to work in her present job. Their place of business is in Redstone House, but was originally in Bldg. A-101 until last August, 1953.

Kay says she was amazed at the huge number of civilians as compared to military personnel

7,200 ROCKETS
●
15,000 READERS
●
A POTENT MEDIUM FOR ADVERTISING

Vic Vet says

POST-KOREA VETS DISCHARGED BEFORE AUGUST 20, 1952 WHO PLAN TO TAKE ADVANTAGE OF THE KOREA GI BILL TRAINING BENEFITS MUST START BEFORE AUGUST 20, 1954 IN ORDER TO CONTINUE THEREAFTER



For full information contact your nearest VETERANS ADMINISTRATION office

when she first came to Redstone from Maxwell AFB.

Wherever Kay is, there is fun and gaiety. She has a warm, fun-loving personality underlaid with a pure quality of sincerity. Having her join a group is like introducing a light on a scene. Our hat's off to Kay for all she is and for all she does.

BROWSE AT THE

BOOK SHOP

OPEN FROM 9 'TIL 9
MONDAY, Thru SATURDAY
Russel Erskine Hotel Bldg.



Universal Photo Shop

115 E. Clinton Phone 485



THANKS

FOR YOUR FINE PATRONAGE DURING 1953

We most sincerely appreciate your kind patronage during the 12 months just completed... We trust you enjoyed trading with us to the n-th degree... That our salespeople showed you every courtesy and consideration.

WE RESOLVE IN '54 TO GO '53 ONE BETTER—IF POSSIBLE

SHOP HERE FOR GROCERIES—MEATS—VEGETABLES—FRUITS

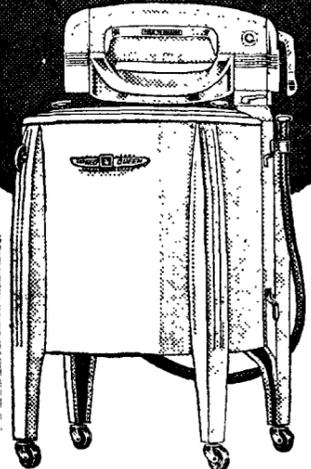
Big Brothers Super Market

WE CASH ALL PAYROLL CHECKS!

Phone 5090

1406 Whitesburg Drive

7 Good Reasons for buying a Speed Queen



- 1 You can buy a Speed Queen for less than half what many washers cost.
- 2 You save hot water and soap every time you wash.
- 3 ONE tubful of hot water will do an average washing.
- 4 Washes work clothes thoroughly clean.
- 5 No repair bill worries. No complicated gadgets to give trouble.
- 6 No long, half-hour "cycles" to wait for. You can do a 7-load washing in an hour.
- 7 Five models to choose from with prices starting at \$99.95

RELIABLE STORES

220 N. WASHINGTON