

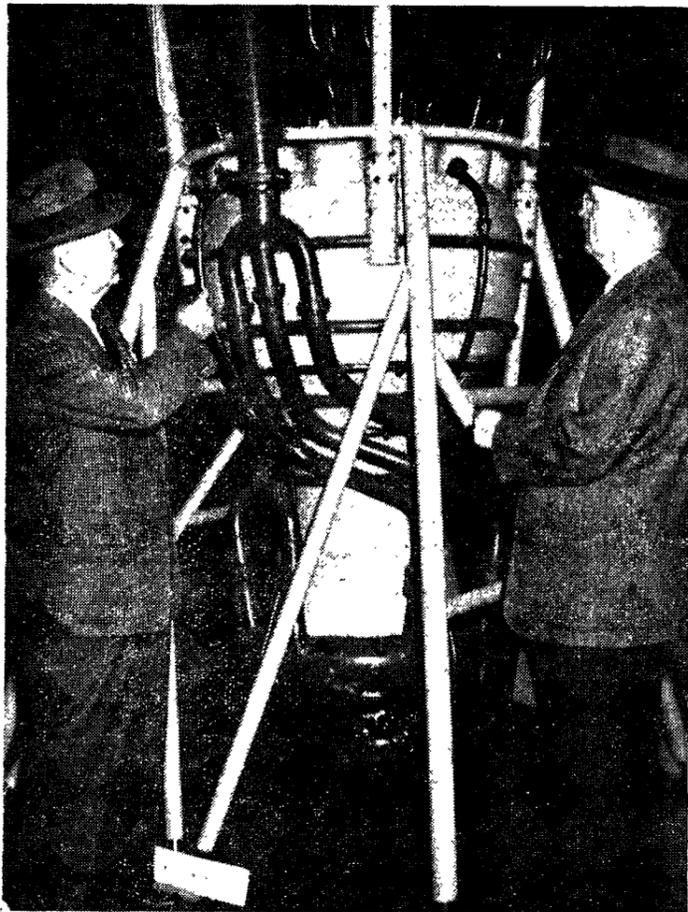
# The Redstone Rocket

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VOL. VI; NO. 50

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

APRIL 16, 1959



**NEWSMEN INSPECT V-2**—The V-2 engine at Redstone Arsenal's Demonstration Laboratory gets a "once-over" from two members of the Alabama Associated Press Association group which toured the post last Friday. At left is Reese Arnis, editor of the Huntsville Times, which was host paper for the Association's spring meeting in Huntsville. At right is Turner Jordon, of the Birmingham News, outgoing president of the Association. Some 150 newsmen and their wives from Alabama, Tennessee, and Georgia were present for the installation tour Friday. (Another photo inside.)

## Thiokol Gets Contract For Nike-Zeus Engine

Thiokol Chemical Corp. has received a contract from the Douglas Aircraft Co., Inc., for development of a rocket engine for the Army's Nike-Zeus missile.

Douglas Aircraft Co., Inc. is the prime contractor for the Nike-Zeus.

The Nike-Zeus is designed as an interceptor of Intercontinental Ballistic Missiles carrying nuclear warheads which, conceivably, could be rained on the United States from points behind the Iron Curtain.

No details of the contract were revealed and the overall price has not been determined.

Work under this contract is planned for Thiokol's Redstone Division.

## Two W. Va. Amateur 'Rocketeers' to Be Guests for Tour Here

Two talented West Virginia teen-agers whose amateur work in rocketry has caught the eye of top U. S. Army officials will be guests of the Army Ordnance Missile Command, Friday, (April 18).

The youngsters — Tommy Barringer and Tony Asbury, of Charleston — "have made remarkable advances in the study of rocketry," according to Lt. Gen. E. L. Cummings, until recently the Army's Chief of Ordnance.

Also, Lt. Gen. James M. Gavin, retired Army Chief of Research and Development, has commented that the boys' "activities are manifestations of the rapidly growing enthusiasm for rocketry among our American youth."

The boys were originally to visit last week, but bad weather conditions forced them to postpone their flight.

Tommy and Tony will arrive at the arsenal Thursday.

The youngsters will be accompanied on their Huntsville visit by their fathers, L. H. Barringer and E. G. Asbury; their high school science teacher E. J. Hall; two scientists from the Union Carbide Corp. who have worked with them, Dr. L. G. Hess and D. H. Way; and Maj. W. F. Ganeau, of



**TV STAR VISITS**—Maj. Gen. J. B. Medaris, Commanding General of the U. S. Army Ordnance Missile Command, chats with Bill Lundigan, Hollywood screen and television personality who is narrator of the weekly "Climax" TV production. Lundigan visited the Missile Command last week in connection with a forthcoming "Climax" show which tells the dramatic story of industry's cooperation with the Army in the production of guided missiles. Above, Lundigan holds a model of the Jupiter, the Army's Intermediate Range Ballistic Missile which was developed by the Army Ballistic Missile Agency. The CBS "Climax" missile story is scheduled April 24.

\* \* \*

## TV Show to Dramatize Launching of Satellite

"Shooting for the Moon," a live show on CBS-TV Thursday night, Apr. 24, at 7:30 p. m., will dramatize the launching of the Army's Jupiter-C missile and the Explorer I satellite.

This will be on the "Climax" program which comes in over Channel 13, Birmingham, and Channel 5, Nashville.



**COL. HARRY M. MURRAY**  
(Other Photos Inside)

## Col. Murray Heads ABMA Control Office

Col. Harry M. Murray is the new Chief of the Control Office of the Army Ballistic Missile Agency, Brig. Gen. John A. Barclay, ABMA Commander has announced.

Lt. Col. Daniel F. Shepherd will (See COL. MURRAY Page 2)

## It's Spring Clean-up Week for Post

It isn't just the housewives that clean up in the Spring. The Post Engineer campaigns for a litter-free Arsenal, too.

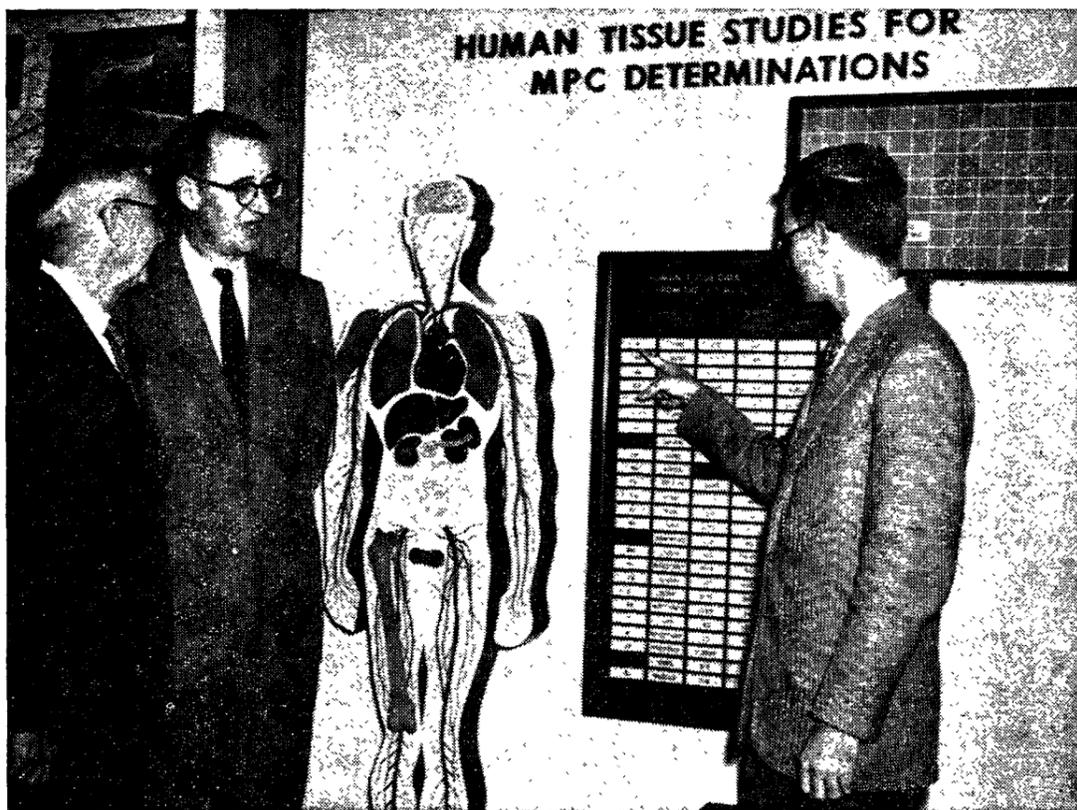
The week of April 14-19 has been set aside as Spring clean-up week. And the roads and grounds maintenance men are voicing their annual plea, "Please put your litter in the proper container."

## Contract Is Awarded For Building at ABMA

Col. Harold E. Bisbort, U. S. Army District Engineer at Mobile, has announced the award of a contract in the amount of \$202,972.89 to the Whaley Co., Inc., of Birmingham, for constructing a launcher emplacement area, an operations support building, and an addition to an existing precision machine shop at Redstone Arsenal.

Col. Bisbort explained that the contract was negotiated after se-

(See CONTRACT on Page 19)



**AT PHYSICISTS' MEETING**—Officials of the Southeastern Section of the American Physical Society inspect a display at their 24th annual meeting held at Redstone Arsenal last week. Left to right are Dr. Jesse Beams, of the University of Virginia, national president of the society; Dr. Robert T. Lagemann, Vanderbilt University, section president; and Dr. Roger Clapp, Jr., of the Army Rocket and Guided Missile Agency, local chairman of arrangements for the convention, which was attended by over 300 physicists from 11 Southeastern states. The exhibit in photo above was set up for the meeting by the Oak Ridge (Tenn.) National Laboratory, operated by Union Carbide Corp. for the U. S. Atomic Energy Commission. The display demonstrates the points in the human body where radioactive elements tend to gather. (Another photo inside.)



**COL. HARTSELL H. NORTINGTON**  
\* \* \*

## COL. NORTINGTON IS POST ENGINEER

Col. Hartsell H. Northington has been appointed Post Engineer by Col. K. I. O'Keefe, commander of Redstone Arsenal, of the Army Ordnance Missile Command.

Col. Northington has been serving as deputy chief, Engineer Office, Army Ballistic Missile Agency.

He began his Army career in 1939 and has commanded Engineer battalions in Korea and Alaska as well as in the United States. He served in Europe in World War II with Ninth Army and Headquarters, European Theater of Operations, and with the 25th Infantry Division in Korea.

He is a graduate of Oklahoma A & M College and the Army Command and General Staff College. His decorations include the Silver Star, Bronze Star with Oak Leaf Cluster, Korean Unit Presidential Citation, American Defense, American Theater, European Theater and World War II Victory Medal, Army of Occupation and UN Service Ribbon.

# The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hoffhaus, Huntsville, Alabama, with exclusive regard for the reader interests of personnel at Army Ballistic Missile Agency, Redstone Arsenal and Ordnance Guided Missile School in accordance with an agreement between the publisher and the Public Information Office, Redstone Arsenal, Huntsville, Alabama.

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 are not necessarily those of the Department of the Army, the Ordnance Corps, or Redstone Arsenal. Appearance of advertisements in the Rocket does not constitute an endorsement of the advertising matter by the Department of the Army, the Ordnance Corps, or Redstone Arsenal.

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## Col. Murray

(Continued From Page 1)

be the Deputy Chief of the Control Office.

Lt. Col. Lee B. James, former Deputy Chief of that office, has been named Chief of ABMA's Research and Development Liaison Branch. He will be responsible for maintaining liaison with other Army agencies engaged in missile work, other services, and industrial contractors.

Maj. Lincoln B. Hunt, formerly Assistant Executive Officer of ABMA, has been named the Missile Agency's Executive Officer.

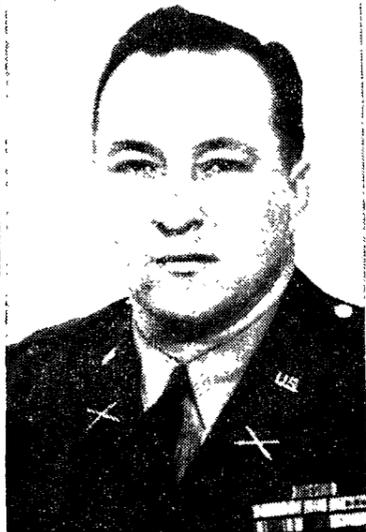
The assignment shifts of the four key officers result from the recent establishment of the U.S. Army Ordnance Missile Command.

Col. Murray the new Agency Chief of the Control Office, is a graduate of the Command and General Staff School at Fort Leavenworth, Kansas, and the Armed Forces Staff College, Norfolk, Va. He holds a Bachelor of Science degree in Mechanical Engineering from No. Carolina State College. During World War II, Murray was an Ordnance Company Commander and an Ordnance Battalion Commander. During his service career he has served as Assistant to the Director, Ballistic Research Laboratories, Aberdeen Proving Ground, Md., and Chief, Fire Control Instrument Group, Frankford Arsenal, Philadelphia, Pa. Col. Murray was awarded the Bronze Star and the Air Medal.

Lt. Col. Shepherd is a graduate of Massachusetts Institute of Technology in Cambridge, Mass. Prior to his assignment here, Col. Shepherd was chief of the Special Weapons Section of the Industrial Division in the Office, Chief of Ordnance, Washington, D.C. He has been awarded the Legion of Merit, Bronze Star, and Croix de



LT. COL. DANEIL F. SHEPHERD



LT. COL. LEE B. JAMES

## 2 AOMC Employees Elected to Offices by Library Association

Two Army Ordnance Missile Command employees were elected to state offices at the 54th annual convention of the Alabama Library Association last week in Birmingham.

Mrs. Jane F. Bentley, of the Army Ballistic Missile Agency, was named treasurer, and Mrs. Cleo S. Cason, of the Army Rocket and Guided Missile Agency, was named vice-chairman of the College, University, and Special Libraries Division.

Also attending the convention were: Mrs. Lucille Ridings and Miss Lois Robertson, of ABMA; Mrs. Edity R. Cribbs, Miss Catherine Green, and Mrs. Nancy S. Stilson, of ARGMA; Mrs. Ann W. Logel, of Rohm & Haas Chemical Co.; and Mrs. Ruth K. Logan, of Thiokol Chemical Corp.

Dr. C. D. Leatherman, educational advisor for the Ordnance Guided Missile School, was a featured speaker at the convention. His topic was "Guided Missiles and the Space Age."

Theme for the meeting was "Change and Challenge."



TALKING TRANSPORTATION — Brig. Gen. I. Sewell Morris (right), Executive Director, Military Traffic Management Agency, Department of the Army, receives a briefing on the Army Ordnance Missile Command transportation system from Maj. H. R. Del Mar, Transportation Officer, AOMC, during a visit last week at Redstone Arsenal.

## Amateur

(Continued From Page 1)

the West Virginia National Guard.

Friday, the young rocketeers will tour facilities of the Army Rocket and Guided Missile Agency, the Ordnance Guided Missile School, and the Army Ballistic Missile Agency; talk "business" with scientists and engineers; have lunch with a group of OGMS's foreign students; and also receive briefings on safety precautions in rocket work.

Commenting on the two visitors' rocketry efforts, Gen. Gavin recently stated that "such enthusiasm should be fostered because it reflects a real and healthy concern with the problem of the Space Age that our youngsters will soon inherit. However, it is essential . . . to guide these amateur activities into safe and constructive channels."

The boys will end their Redstone tour and depart for home at 4 p.m. Friday.

## Bomarc Missile Booster Contract Goes to Thiokol

Thiokol Chemical Corp. has received a contract from the Boeing Airplane Company, Seattle, Wash., for the development of a solid propellant rocket boost engine for an advanced IM-99B model of the Air Force Bomarc missile.

Boeing Airplane Company is the prime contractor for BOMARC.

The amount of the contract totals in excess of \$6,000,000, and work on the BOMARC Booster Engine will be handled at Thiokol Chemical Corporation's Redstone Division.

## O'NEAL BACK ON JOB

Reavis O'Neal, Jr., Public Information Officer for the Ordnance Guided Missile School, is back on the job after having been out about six weeks as a result of a fractured vertebra of the neck suffered in an automobile accident Feb. 21.



MAJ. LINCOLN B. HUNT

\* \* \*

Guerre which he earned in the European Theater of Operations.

Lt. Col. Lee B. James is a graduate of the United States Military Academy at West Point and also holds a Master of Science degree from the University of Southern California. He has been awarded the Bronze Star Medal.

Maj. Hunt, a graduate of the University of Arizona with a degree in education, served in Japan and in Korea in past overseas tours. Maj. and Mrs. Hunt and their two children reside at Redstone Arsenal.

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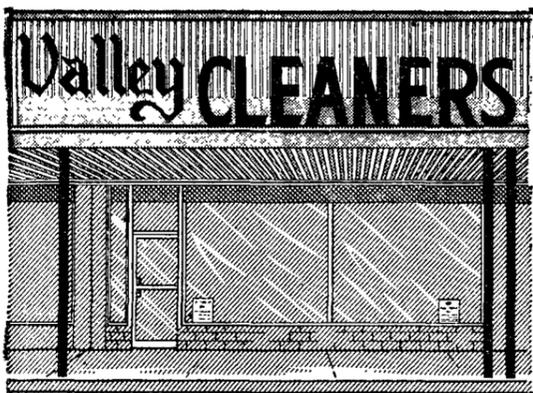
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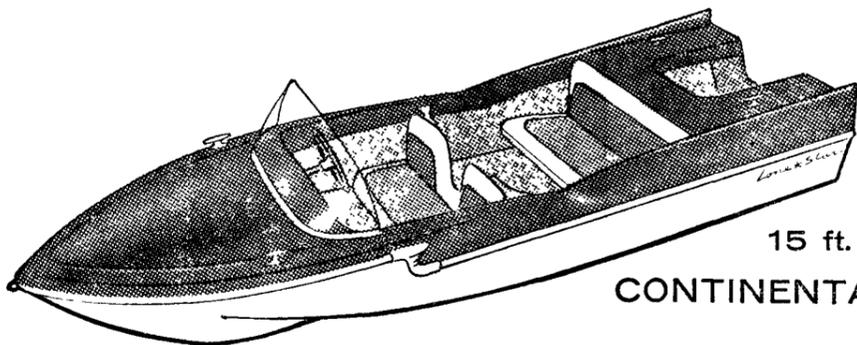
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'TURNING THE TABLES' ON NEWSMEN—In a reversal of the usual procedure, this group of Alabama, Tennessee, and Georgia newspapermen themselves pose for a news picture, in front of the massive Redstone Missile, when they were guests Friday of the Army Ordnance Missile Command for a tour of Redstone Arsenal. The newsmen and their wives were in Huntsville for the spring meeting of the Alabama Associated Press Association. The visitors were addressed by top Army missile officials here, and also witnessed the static firing of a Jupiter Missile engine.

**Gen. Medaris Gives Huntsville Rotarians Description of Command**

Maj. Gen. J. B. Medaris last week gave the Huntsville Rotary Club a graphic description of the new U. S. Army Ordnance Missile Command, activated March 31.

In his first public appearance since assuming his larger respon-

sibilities, Gen. Medaris praised the contribution of Huntsville to the success the Army has enjoyed in its rocket, missile, and satellite programs.

Formation of the Command is, he said, "dramatic evidence of the size, expanse, and importance of the scientific and missile weapons fields. No other event testifies as well to the rapid growth and complexity of this huge business."

Gen. Medaris described Redstone Arsenal, site of Command headquarters, as the "nerve center of a giant complex" reaching out to all parts of the country.

For every person added to the Army's payroll here, he said, many others are required by industrial contractors, research institutions, and other Government agencies supporting the missile programs.

Gen. Medaris explained that the Army has full responsibility "for the complete farm-to-market sequence of any product which it is assigned. It is a total responsibility from inception of an idea to the supply and maintenance support of the system when in use in the field."

When the Army Ballistic Missile Agency was activated under his command two years ago, Gen. Medaris added, "it was the best

solution at the time" for increased Army efforts in the ballistic missile field.

"Today faced with the Pershing missile development, the Nike-Zeus program, and continued production and supply of other systems, as well as important roles in scientific and satellite fields, the Army must find solutions to its organization and management problems," he declared.

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**Accountants Group Officers Hold Meet, Plan Tour of Plant**

The officers and directors of the North Alabama Chapter of National Association of Accountants held their monthly meeting Mon-

day night at the Pitts Motel in Decatur.

Jim LaPointe, special activities director, announced plans for a visit to the Worthington Corp. Plant on April 24.

day night at the Pitts Motel in Decatur.

Jim LaPointe, special activities director, announced plans for a visit to the Worthington Corp. Plant on April 24.

F. J. McLaughlin, Jr., Chemstrand Corp., program director, outlined plans for the April technical session to be held at the Russell Erskine Hotel in Huntsville. The speaker for the April session will be Dr. F. J. Soday, vice-president, Research and Development, Chemstrand Corp.

J. G. Thomas, vice-president, reported on the local chapter's standing in Stevenson Trophy Competition.

J. G. Shaw, president, presided.

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## CLEAR WRITING COURSES HERE AIM AT CUTTING OUT THE 'JABBERWOCKY'

While developing rockets and guided missiles, Redstone Arsenal is also teaching its supervisory personnel how to cut the fog of "Jabberwocky" and simplify government writing.

For the past two years, military and civilian supervisors at this installation have waged an effective campaign against the somewhat pungent, sometimes unclear, generally overloaded language that infects much government writing. Maury Maverick named it "Gooledygook." At Redstone Arsenal, they call it "Jabberwocky" after Lewis Carroll's famous poem.

In short, "Jabberwocky" is just a lot of pompous double-talk with

unnecessary technical terms and phrases thrown in for good measure.

Snowed under by the mass of correspondence required to carry out a rapidly expanding rocket and guided missile program, "Jabberwocky-washed" supervisors insisted there had to be a way to simplify government writing. No doubt they felt much the same as Alice in Lewis Carroll's "Through the Looking Glass" when she read the poem "Jabberwocky." It seemed rather pretty but hard to understand; it filled her head with ideas, only she didn't know what they were. One thing was clear, however, "somebody" killed "something."

Started in 1956, the Redstone Arsenal Clear Writing Program is based on the technique developed by Robert Gunning, who is recognized as one of the top authorities in his field. Since 1944 Gunning has been fighting what he quite accurately calls the "fog" in correspondence.

The main objective of the course is to simplify government writing by eliminating deadwood, empty or do-nothing words, over-complicated passages, and over-stuffed sentences. Another equally important phase of the program is a brush-up course in fundamentals—grammar, punctuation, sentence structure, and paragraph development.

Toward the end of the course, the instructor introduces his assistance to Robert Gunning's readability measuring device called the "Fog Index." Using this de-



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## Contractors' Bids Asked for OGMS Job

Interested contractors have been asked to submit bids for constructing a boiler and compressor house for the Ordnance Guided Missile School, according to an announcement made by Col. Harold E. Bisboort, U. S. Army District Engineer at Mobile.

The building will be of masonry construction with a floor area of approximately 1900 square feet. It will include plumbing, electrical work, a compressor and receiver, a boiler, and a power ventilating system.

Bids for the construction will be opened at 11 a.m. on April 29, 1958, at the Corps of Engineers district office, 2301 Grant Street, Mobile.

vice, a writer can, to a certain extent, measure his own effectiveness. The Fog Index is only a statistical tool and therefore is not infallible. However, it does serve as an effective device for reminding a writer not to be wordy or pompous.

Participants in the program attend 16 two-hour sessions. Classes meet only twice a week, since a considerable amount of outside work is assigned. Such assignments include practice exercises in punctuation and grammar, as well as revision of "Jab-

berwocky" examples. To date, 400 arsenal employees have completed the course and 50 more are now enrolled. Course instructors are John R. McCormick and James W. McNeil, University of Alabama faculty members.

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# At the Service Club

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Ten girls from Huntsville were out for the Tommy Martin Dance held here recently. These and more have indicated that they will be back for more of our activities here at the club.

We're beginning to see the light and it's good news for our night school students. It looks very much like we will have girls who can make Saturday night dances here at the club. During the early part of May we hope to have a group from Ensley here for a Saturday Night Supper Dance. These girls are extremely popular with the Redstone lads. Fifty-eight EM, mostly NATO students, drove down to B'ham to attend a dance at Ensley over the weekend.

Forty guys and gals jogged over to see Wheeler and Wilson Dams Sunday. With picnic lunch, cameras, sunglasses, comfortable shoes, and various and sundry equipment the laden group de-

parted about noon. At 7:00 they returned tired, hungry, and sun-burned, but enthusiastic about having made tours around the countryside.

On the 25th we are having a concert in the club by the Missilemen and Maids. We have looked forward for a long time to hearing this group. I can give you more of the details of the program next week, but do set aside this date for hearing this group.

It's Bingo on Monday, dancing on Tuesday, Dance Classes on Wednesday, Chess on Thursday, loafing on Friday, playing on Saturday, and Morning Coffee on Sunday.

Every night there's a call for coffee.

MURIEL

## RESERVE GROUP WILL INSTALL OFFICERS FRIDAY

The Huntsville Chapter, Reserve Officers Association, will meet at the Russel Erskine Hotel on Friday night, 18 April. This will be installation night for the new officers for 1958, and all Reserve officers and their ladies are invited. A social hour will be from 6:30 to 7:30, and dinner at 7.30.

Lt. Col. Martin Phillips, past Chapter president, will perform the installation ceremony.

Resolutions on problems affecting the Reserve programs will also be discussed for presentation to the Resolutions Committee at the State ROA Convention to be held in Huntsville on 3 and 4 May.

Reservations can be made by calling Carl Jones, Ext. 3625; Ed Jungerman, 4122; W. E. Swarthout, 4218; and Pete Redding, 2934.



LT. COL. NILS M. BENGSTON \* \* \*

## Lt. Col. Bengston Named to New Post

Maj. Gen. J. B. Medaris has named Lt. Col. Nils M. Bengston the Acting Assistant Chief of Staff, Research and Development, of the U.S. Army Ordnance Missile Command.

Lt. Col. Bengston formerly occupied the position of Deputy Chief, Research and Development Liaison Branch of the Army Ballistic Missile Agency's Control Office.

A graduate of the U.S. Military Academy, West Point, N.Y., Bengston also holds a Master of Science degree from Massachusetts Institute of Technology, Cambridge, Mass.

Before coming to ABMA he served as chief of the ABMA

### RELIGIOUS SERVICES — POST CHAPEL BLDG. 3714

#### PROTESTANT

Sunday — 0945 Hours — Sunday School, 1st Session — 4th Grade through Jr. High.  
1000 Hours — Adult Bible Class  
1100 Hours — Sunday School, 2nd Session — 3 yrs. of age through 3rd Grade.  
1100 Hours — Morning Worship — The Nursery for babies and small children is open during the morning worship.  
1800 Hours — Junior Choir Rehearsal.  
1830 Hours — Christian Youth Fellowship — ages 12 through Jr. High.  
1900 Hours — High school Youth Fellowship.  
Wednesday — 1845 Hours—Chancel Choir Rehearsal.

#### CHAPEL NO. 2 (40th Group Area) — PROTESTANT

Sunday — 0930 Hours — Morning Worship.  
1830 Hours—Fellowship worship.

#### JEWISH: Friday Night Services will be held in Huntsville at the Temple B'Nai Sholom (Corner of Clinton and Lincoln Sts.) at 2000 hours. O'Neg Shabbot (Sabbath Social) at the Temple Annex following services.)

#### CATHOLIC

Sunday — 1745 & 0845 Hours — Mass.  
1830 Hours — Youth Religious Group in Chaplain's Office.  
Monday — 1600 Hours — Altar Boys' Class  
1900 Hours — Convert Class.  
Tuesday — 1930 Hours — Novena in honor of Miraculous Medal— Choir Practice following Novena.  
Wednesday — 1900 Hours — Religious Discussion Forum.  
Saturday — 1000 Hours—Catechism Class.  
1800-1900 Hours — Confessions.  
Daily Mass — 1700 Hours.

#### CHAPEL NO. 2 (40th Group Area) CATHOLIC

Sunday — 1100 Hours — Mass.

Drive your car, don't let it drive you.

Then there's the fellow who crossed his parakeet with a tiger. He doesn't know what he's got, but when it talks he listens.

the U.S. Army and the American Ordnance Association.

He is the son of Mrs. Viola H. Bengston of Springfield, Mass. The Bengstons reside at 1204 Cleermont Circle in Huntsville.



**VOCALIST DUE HERE** — Larry Elliott and his Orchestra will appear in person for the Rocket Service Club on April 22. Along with his Orchestra Elliott will present an all-star cast. Headlining the featured artists is Elaine Powell, who not only does solo numbers with the band, but is also featured with the vocal group. Also featured will be the Dixielanders and several comedy numbers.



**DANCE BAND DUE HERE**— Larry Elliott and his Orchestra will play for a dance from 8 to 12 p.m. April 22 at the Rocket Service Club. In addition to the band, Elliott features ensemble singing, a trio, the "Dixielanders," and vocalist Elaine Powell.

Rhymes of the Times

WHEN IN ROME YOU CAN ALWAYS BE YOU AND STILL DO AS THE ROMANS DO... ASEU



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### Redstone Shooters Win 19 out of 23 Prizes

The second monthly National Rifle association approved pistol match of the season was held last Sunday at the Redstone Arsenal Pistol Range with 23 shooters from Huntsville, Muscle Shoals, Birmingham, Nashville, Florence, and other nearby cities participating.

Weather was ideal and the pistol range was able to use its electrically controlled turning targets and new sidewalks, both put in by the Post Engineers. Redstone military shooters captured 19 out of the 21 prizes awarded.

The grand aggregate winner was Capt. H. Adams, Redstone (AOMC), with 1015 out of a possible 1100 points. This means the Hutchens traveling Trophy for highest score has returned from Birmingham to Huntsville. Capt. Adams won Match 2 (22 cal. Timed fire) and was 1st Expert in Match 4 (45 cal. National Match Course).

Wes Grant, Birmingham, was winner of Match 3 (centerfire, NMC).

George Ellis, Muscle Shoals, was 1st Expert in Match 1 (22 cal. NMC) and Match 2.

SP3 Thomas E. Rickman, Redstone, was winner of Match 1 and Match 4 and high aggregate Expert.

CWO George Seely, Redstone, was 1st Expert of Match 3.

In the Sharpshooter Class, SP3 Fred Newton was high aggregate and 1st Sharpshooter in Matches 3 and 4; SP3 Donald Watkins, Redstone was 1st Sharpshooter in Match 3; and D. Dixon from Nashville was 1st Sharpshooter in Match 2.

In the Marksman Class, Lt. Robert Burrows, Redstone, was high aggregate and 1st Marksman in Matches 1 and 3; Capt. Milton Young, Redstone, was 1st Marksman in Match 2; and Sgt. Jose Gonzales, Redstone was 1st Marksman in Match 4.

Robert Ekis, secretary-treasurer,

### Post Tennis Team Opens Season With Win Over JSTC

The Redstone Tennis Team opened the 1958 season with a 5-to-3 victory on 11 April over Jacksonville State College, continuing last year's undefeated record.

Several of the matches were close and Dave Howgate had several match points on his opponent only to lose in three hard-fought sets.

Among the newcomers to the Redstone Team, Robert Dube and Donald Winter showed up well, Dube winning handily in singles and Winter winning in singles and teaming up with Lt. Col. Ernest W. Ewbank to win in doubles. Others playing their first match for Redstone were Robert Holloway and Dave Howgate.

#### SINGLES

E. W. Ewbank (RSA.) vs. Tom Gillespie (JSC.)—Ewbank winner, 6-1 — 6-0

Jack Gibson (RSA.) vs. Al Livingston (JSC.)—Livingston winner 5-7 — 6-2 — 6-3

Donald Winter (RSA.) vs. Wm. McCarthy (JSC.)—Winter winner 6-4 — 7-5

Robert Dube (RSA.) vs. Bubby Patty (JSC.)—Dube winner 6-3 — 6-0

Dave Howgate (RSA.) vs. Robert Motley (JSC.)—Motley winner 3-6 — 8-6 — 6-4

Robert Holloway (RSA.) vs. Robert Sims (JSC.)—Sims 8-6 — 6-1

#### DOUBLES

E. W. Ewbank (RSA.) vs. Gillespie (JSC.) — Ewbank winner 6-2 — 6-2

Winter (RSA.) vs. McCarthy (JSC.) — Winter winner

er, Redstone Arsenal Pistol Club, was tournament director and Mrs. Daniel Cogswell was statistical officer.

### Twickenham Auto Club Slates Annual Rally

The Twickenham Auto Club will hold its fourth annual rally, this one to be called the "Monte Sano" rally, on April 19 and 20.

A rally is essentially a test for car, driver, and navigator, according to Corbett Cornelson, rally master. This will be the club's biggest event of the year.

On Saturday afternoon, cars will meet at Morrison's Restaurant located on north Memorial Parkway. Morrison's Restaurant and the Charron Motel will be the rally headquarters for the week-end. There is always a large group of out of state enthusiasts who participate in the rally. Entrants from Tennessee, Kentucky, Georgia, and Mississippi, as well as the southern parts of Alabama, are expected this year.

After the first afternoon portion of the rally, there will be time out for dinner. At 7 p.m. Saturday the second major portion is scheduled to begin. After all the entrants have returned, there will be still another event on Saturday's agenda: a buffet and party at Morrisons.

Sunday morning the third major portion of the rally will begin.

The whole event will terminate with a Victory Banquet at 2 p.m. The dinner will be \$2 per plate. Awards will be given to the 12 most outstanding drivers and navigators. Equal trophies will be given for both local and out-of-town.

The rally entry fee is \$5.00, and this includes the week-end rally and party and buffet dinner on Saturday evening.

For entry forms please contact Mrs. Morin, Ext. 3297 or, JE 4-9631 Webster Mayfield, Ext. 5001 or JE. 4-7110.

Gibson (RSA.) vs. Motley (JSC.) — Gibson winner 6-0 — 6-2

Howgate (RSA.) vs. Livingston (JSC.) — Howgate winner

Redstone Netters will meet Florence Teachers College 19 April at Florence, Ala.

### SPORTS QUIZ

(AFPS Weekly Feature)

1. In baseball, when can a base-runner advance, without tagging up, on a pitched ball which has been fouled by the batter?
2. What baseball park stands on the oldest site in the major leagues?
3. Who is the youngest major leaguer on record?
4. Who is the only boxer to defeat Sugar Ray Robinson in Chicago?
5. Who were the leading scorers in the National Football League in 1957?

(Answers to Sports Quiz)

1. On a foul tip which is legally caught by the catcher.
2. Busch Stadium, St. Louis, formerly Sportsman's Park; first game played there May 5, 1876.
3. Joe Nuxhall pitched for the

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Hawks	55	61
Blue Straws	54	62
Honest Johns	46½	69½
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Reds, June 10, 1944, at the age of 15 years, 10 months and 11 days.

4. Ralph (Tiger) Jones decision-ed Robinson in 10, Jan. 19, 1955.
5. Sam Baker of the Redskins and Lou Groza of the Browns both had 77 points.

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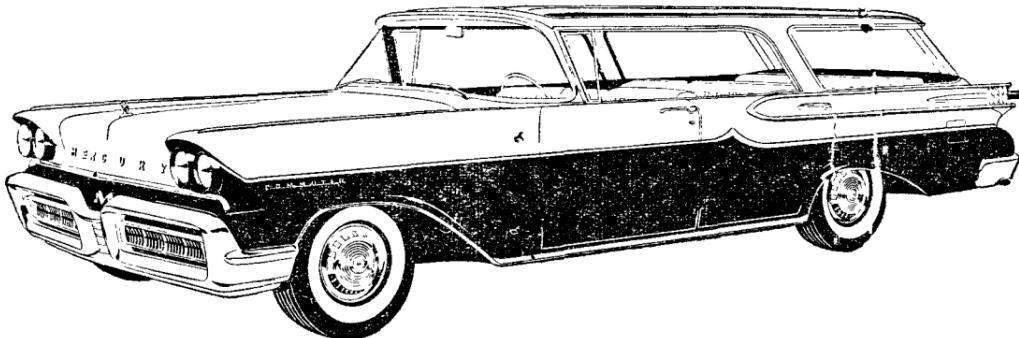


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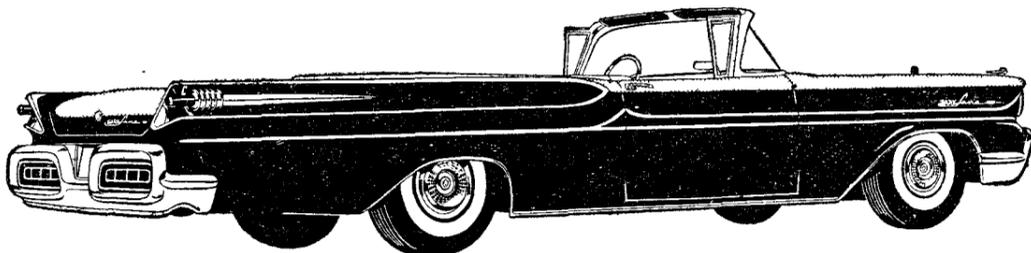
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MAJ. GEN. F. A. HANSEN (right), Chief of the Field Service Division of the Office, Chief of Ordnance, confers with Maj. Gen. J. B. Medaris, Commanding General of the U. S. Army Ordnance Missile Command, regarding Army missile programs during Gen. Hansen's recent visit to the Command.

### Movie Schedule

Wednesday 16 Apr., "Paratrooper" starring Alan Ladd, Leo Genn and Susan Stephen (F). Time 1315, 1830 and 2030.  
 Thursday and Friday 17 and 18 Apr., "Paris Holiday" starring Bob Hope Anita Ekberg and Fer-

mandel (F). Time 1315, 1830 and 2030.  
 Saturday 19 Apr., "Great Day in The Morning" starring Virginia Mayo Robert Stack and Ruth Roman (F). Time 1000.  
 Saturday 19 Apr., "Thundering Jets" starring Rex Reason, Audrey Dalton, and Dick Foran (F). Time 1830 and 2030.  
 Sunday 20 Apr., "Fraulein" starring Mel Ferrer, Dana Wynter, Delores Michaels (M). Time 1400, 1830 and 2030.

### Special Services Activities

**Post Gymnasium Operating Hours**  
 Monday thru Friday 1400-2200  
 Saturday 0900 - 1200 and 1300 - 1630.  
 Sunday 1300-1600  
**Golf Driving Range and Archery Range Operating Hours**  
 Monday thru Friday 1400-2100.

Monday 21 Apr., "The Case Against Brooklyn" starring Darren McGavin, and Maggie Hayes (F). Time 1315, 1830 and 2030.  
 Tuesday 22 Apr., "From Here to Eternity" starring Burt Lancaster, Frank Sinatra, Deborah Kerr, Time. 1830 and 2030.

**PARKWAY THEATRE**  
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**JACK PALANCE**  
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 — PLUS —  
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 THE SIXTH OF JUNE  
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 DANA WYNTER EDMOND O'BRIEN

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 LAST TIMES TONIGHT  
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 JEFFREY HUNTER  
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THURSDAY & FRIDAY  
**She's seen**  
**THE CURSE OF FRANKENSTEIN**  
 Have You?  
 PLEASE TRY NOT TO FAINT

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**GABLE TRACY COLBERT LAMARR**  
**BOOM TOWN**  
 — PLUS —  
**REVOLT AT FORT LARAMIE**  
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 You'll love every minute and every girl in it!  
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 (rhymes with "playgirls")  
 The picture to watch for!

TUESDAY & WEDNESDAY  
**'No Down Payment'**  
 ● JOANNE WOODWARD  
 ● JEFFREY HUNTER  
 Joanne Woodward best actress of the year award winner.

### 33 Accident-free Days Reported by Military

As of 14 April no military disabling injury has been reported since 12 March. This period represents 33 days accident-free, surpassing the established goal by three days.  
 Thirty-three accident-free days by military personnel at this installation means 143,055 man-days. By comparison, 143,055 military man-days are equal to 3,433,320 civilian man-hours. All employees of this installation should be proud of this accomplishment by the military.

A revised goal of 45 days has been established and all military personnel are asked to do their best to keep this "winning streak" alive.

Saturday 1300-1900.  
 Sunday and Holidays 1400-1900.  
**Craft Shop Operating Hours**  
 Monday and Tuesday—Closed.  
 Wednesday thru Friday 1400—1630 and 1730—2200.  
 Saturday and Holidays 0800-1630  
 Sunday 1230-1930  
**LIBRARY OPERATING HOURS**  
 Monday thru Friday 1100-2200.  
 Saturday and Holidays 1000-2200.  
 Sunday 1400-2200.  
**Post Service Club Operating Hours**  
 Monday thru Friday 1600-2200.  
 Saturday 1000-2200.  
 Sunday and Holidays 0900-2200.

### Safety Scoreboard

(As of 14 April)

Days since last civilian disabling injury—10.	
Our Goal .....	30
Days since last military disabling injury—33.	
Our Goal .....	45
Days since last contractor personnel disabling injury—17.	
Our Goal .....	100
Days since last government vehicle accident—4.	
Our Goal .....	30

Whether a man winds up with a nest egg or a goose egg depends a lot on the chick he marries.

Women do the strangest things. When it comes to clothes. They'll buy a slip for twenty bucks, Then worry if it shows.

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**TOPS IN VOLLEYBALL**—Special Services handed out four trophies after the final play-offs in the volleyball tournament at Redstone Arsenal recently. The headquarters team from the Ordnance Guided Missile School took first place in both the league and the tournament play. Runners-up in the league were the men from Det. B., U. S. Army Garrison. In the tournament the team from the Unit Training Center at OGMS won. Representatives for the tournament winners and runner-up were handed their trophies in a short ceremony at the Service Club by Capt. John V. Yelverton, executive officer of Troop Command, acting on behalf of the Special Services officer. Left to right are: Capt. Robert E. Barrie, SP2 Louis Gentile (Hq., OGMS), SP3 Philip Long, and Lt. Charles Hargest (Unit Training Center, OGMS), and Capt. Yelverton.

Electrical systems analysis was conducted by Albin Wittman and Eugene Buhmann. The former, a graduate of the Electro Technical Institute at Masvach, Germany, lives at 517 Woodmont Ave., in Huntsville. He supervised inspection of the Electro Technical (Continued on Page 12)

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**Men Behind the Missiles**

**ABMA'S SYSTEMS ANALYSIS AND RELIABILITY LAB RESPONSIBLE FOR QUALITY ASSURANCE OF JUPITER C**

(Editor's note: This is the third in a series of articles dealing with the laboratories of the Army Ballistic Missile Agency—and the people who

make them click). \* \* \*

Responsibility for quality assurance during fabrication and assembly of the Jupiter C satellite

launching rockets and final acceptance and performance testing are assigned to the Systems Analysis and Reliability Laboratory of the Army Ballistic Missile Agency.

Erich W. Neubert, of Route 4, Huntsville, directs the Laboratory's operations. His tasks included coordination of scheduling, design and procurement of testing instrumentation, supervision of special training of personnel, determining test requirements, assignment of priorities and evaluation and interpretation of data.

"Our work began with the receipt of parts and materials through manufacture and bench testing of individual components, Neubert explained, "and carried through the simulated flight test in which all systems, except the hot operation of the power plant, were energized on the ground as they are intended to perform in actual flight."

Assisting the director is Capt. Raoul J. Quantz, a West Point graduate who has also studied at Carnegie Tech and Purdue University.

Planning and design phases of the Lab's contributions to the Explorer projects were supervised by Wiley Karrh and Harold S. Epperly. Karrh, who lives at 1801 Ballard Dr., Huntsville, is a graduate of the University of Alabama.

He supervised the design and execution of special test fixtures required for checkout of the Jupiter Cs. He also assembled the voluminous documentation to permit inspection of the missiles by the most accurate methods.

Epperly, a Purdue graduate who also attended the Engineering School of Mines, Rolla, Mo., and lives at 2330 Brandon St., S.W., Huntsville, was technical program coordinator. It was his task to make sure that inspection analysis did not delay the tight schedule.

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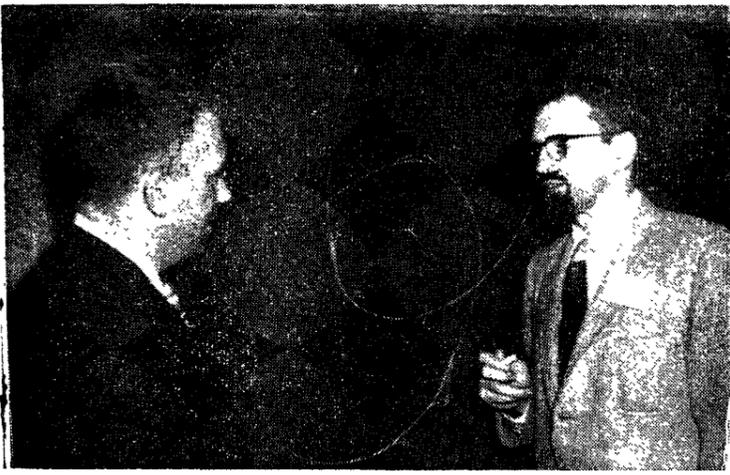
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**BOEHM TO TALK AT MEETING OF ROCKET SOCIETY**

The April meeting of the Alabama Section of the American Rocket Society will be a dinner meeting at the Russel Erskine Hotel, Thursday, April 24. The dinner is at 7:30 p.m. with a social hour at 6:30.

The tickets are \$2.50 each, sold at the door. Reservations must be made by April 17. For reservations contact one of the following:

- Milton Anderson—Thiokol, Ext. 261.
  - Jim Lee—Thiokol, Ext. 217.
  - Conrad Swanson—ABMA 4619.
  - Neils White—ABMA 2612.
- The speaker will be Joseph Boehm of the Guidance and Control Laboratory, ABMA. His subject will be "Army Satellites."

The test of good manners is to put up pleasantly with bad ones.

Think of two, the other guy and you.

convenience and not a necessity. At present, the first group started at Redstone last fall is just completing its first cycle of study. The experience has been very profitable for everyone concerned. This is the reason for starting the new group, or preferably groups, at this time. For further information call Chaplain Hughes at ext. 2409.

'SPACE TALK'—Dr. J. Allen Hynek (right), of the Smithsonian Institute's Astrophysical Laboratory in Washington, D. C., explains the odd actions of a star the astronomers considered "fixed" to Dr. Charles A. Lundquist, of the Army Ballistic Missile Agency, during a break in the American Physical Society's Southeastern Section convention at Redstone Arsenal Friday. Dr. Lundquist presided over a symposium on "Artificial Satellites" held at the Rocket Auditorium. Dr. Hynek was among the speakers, discussing "Tracking Artificial Satellites; A New Astrophysical Problem." Other participants were Dr. Wernher von Braun, of ABMA; Dr. A. R. Hibbs, of Jet Propulsion Laboratories, Pasadena, Calif.; and Dr. Walter Haeussermann, ABMA. Dr. John P. Hagen, director of the Navy's Vanguard Project, had been scheduled to speak, but had to cancel because of the press of other business. Over 300 physicists from 11 Southeastern states attended the three-day meeting at the arsenal.

**Organizational Meet Set for Great Books Discussion Clubs**

On Monday, 21 April, an organizational meeting will be held for several Great Books discussion groups.

These groups have as their purpose the education of adults through both study and discussion of classic works. It is, in short, a program aimed at keeping a person's mind alert while at the same time feeding it information from these works. The books studied are books that many of us plan to read someday but never seem to get around to. These groups serve also the function of helping us to get around to reading them now instead of never.

At the organizational meeting, Dr. Granville G. Davis, director of the Adult Education Center in Memphis, will be the speaker. The program he heads is a part of the

educational program of Southwestern at Memphis, a liberal arts college. All persons interested in this program are invited to attend this meeting and join one of the groups starting here at Redstone.

Belonging to one of these Great Books discussion groups will involve a two hour discussion session every two weeks. In addition, about four or five hours will be spent in reading the material for that session. There is no cost that is required for that session. A participant may, if he wishes, purchase the works to be studied in paper-back form, but this is a

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**Bids for Compressor House, Boiler for School, Are Called**

Interested contractors have been asked to submit bids for constructing a boiler and compressor house for the Ordnance Guided Missile School, according to an announcement made by Col. Harold E. Bisbort, U.S. Army District Engineer at Mobile.

The building will be a masonry construction with a floor area of approximately 1900 square feet. It will include plumbing, electrical work, a compressor and receiver, a boiler, and a power ventilating system.

Bids for the construction will be opened at 11 a.m. on April 29, 1958, at the Corps of Engineers district office, 2301 Grant Street, Mobile, Ala.

**Sheffield Firm Gets Air-Conditioning Job**

The J. K. Johnson Plumbing and Heating Co., of Sheffield, Ala., has been awarded a contract in the amount of \$63,986 for air-conditioning seven buildings belonging to the laboratory and test facilities of the Army Ballistic Missile Agency.

In announcing the award, Col. Harold E. Bisbort, U. S. Army District Engineer at Mobile, said that the work will consist of installing combination cooling and heating systems in the buildings and will include making necessary modifications to buildings and existing air-conditioning and heating systems.

Work under the contract is expected to get under way promptly.



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- RD12 FRIGIDAIRE (1 yr. old) -- \$119.00
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- KELVINATOR DELUXE ----- \$99.00
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- TAPPAN GAS RANGE 4 Mo. Old \$75.00
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# SO-CIETY

## New Easter Hats Featured at Officers Wives' Spring Tea

New Easter hats were featured at the Spring Tea held by the Redstone Arsenal Officers Wives Club April 8 at the Squirrel Hill Officers Club.

More than 120 wives attended the tea, which had as its theme "Wear Your Easter Hat." The food table was decorated with a large Easter hat created from hyacinths and jonquils, and the side tables were adorned with bouquets of tulips and snapdragons, featuring the colors white, pink, and yellow.

The bouquets were offered as door prizes and went to Mrs. J. A. Barclay, wife of the Commander of ABMA, and Mrs. A. E. Dean.

Hostess Committee chairman for the event was Mrs. R. P. Hazzard and co-chairman was Mrs. G. H. McBride. Committee members were: decorations, Mrs. R. A. Howes, Mrs. D. V. Anderson, and Mrs. A. L. Cox; tele-

## 3 ABMA Employees Elected to Offices in Huntsville BPW Club

Three employees of the Operating Services Office of the Army Ballistic Missile Agency have been elected to offices in the Huntsville Business and Professional Women's Club.

They are Mrs. Dolly Flowers,

phone, Mrs. P. C. Kostoff and Mrs. S. R. Reinartz; name tags, and door prizes Mrs. J. M. Montgomery and Mrs. R. W. Specker.

Those pouring during the tea were: Mrs. H. Dunn, Mrs. Charles Woody, Mrs. H. E. Jensen, Mrs. L. W. Sheeran, Mrs. Guy Drewry, Mrs. Richard Jones, Mrs. H. L. Carmichael, Mrs. Ballard, Mrs. R. D. Morrow.

Mrs. B. T. Beal, Mrs. R. J. Meager, Mrs. P. C. Lovseth, Mrs. L. L. Glenn, Mrs. Weyland, Mrs. R. P. Beatty, Mrs. R. G. Shircliff, Mrs. L. S. Frankenstein, Mrs. F. J. Willard, Mrs. H. R. Del Mar, and Mrs. Myron Dakin.

## CONTRACT

(Continued From Page 1)

lective bidding rather than awarded on the basis of final bids after public advertisement because of the importance of getting the construction started quickly in order to make the high-priority facilities available for use by the Army Ballistic Missile Agency at the earliest possible date. Proposals for the job were solicited from a total of six pre-qualified contracting firms and received from all six of them. The Whaley Co. was selected for negotiations because the firm submitted the lowest proposal.

The launcher emplacement area will consist of a rectangular hardstand, 600 feet by 300 feet, with an 8-inch compacted stabilized aggregate base and double bituminous surface treatment. A small technical writers' building will be erected to one side of the hardstand. The operations support building will consist of a clear center bay 18 feet high, two side bays with mezzanines, and a shed

Club president; Miss Lois Robertson, first vice-president; and Mrs. Dora Esslinger, recording secretary.

Mrs. Flowers, a management analyst in the Procedures Section, came to ABMA from Redstone Arsenal in February 1956 to work on administrative procedures and publications. She has been in her present position since June 1956.

Miss Robertson, assistant chief of the Technical Documents Library, transferred from Redstone Technical Library in September 1956 to assist in establishing the Technical Documents Library at ABMA.

Mrs. Esslinger, a clerk in the Billeting Section, entered ABMA from private industry in July 1957 and was assigned to the Adjutant's Office.

The election of officers for the Club took place during the April meeting held last week. Other officers included: Miss Louise Grayson, second vice-president; Mrs. Clara Wall, corresponding secretary; and Miss Patti Drummond, treasurer. Officers will be installed during May and will serve during the 1958-1959 Club year.

running the length of the building on the south side. The overall dimensions will be 80 feet by 58 feet. The addition to the precision machine shop will be made by inclosing an existing elevated ramp to form additional assembly, storage, and locker and toilet space.

Work under the contract is expected to get under way promptly and to be completed before the

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## International Wives Club to Hold Tea

The International Wives Club will meet at the Redstone Room of the Squirrel Hill Officers Club next Monday (April 21) for tea.

The tea will be from 2 p.m. to 4 p.m. To cover the cost of the refreshments, a charge of 50 cents will be charged each individual.

Special guests have been invited to this meeting. The organization is open to any wife of a civilian or military man born in a foreign land.

The major aim of the club is to help other girls who come into the area from another land become acquainted with the facilities here, such as shopping areas, churches, and clubs, as well as to exchange domestic and cultural knowledge.

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**FOR SALE** — 1957 Chevrolet 9-passenger station wagon, automatic trans., heater, white wall tires, V8 engine, 3,000 actual miles, will swap equity on car or boat or will sell for \$500.00. Call Dorman, extension 2705. 1tc

**FOR SALE:** Lake front residential property. Also: Lake front cabins and lots. See Word Real Estate and Insurance Agency, Guntersville, Ala. Office at the City Boat Dock. 5-23p

**First Quarter Statements Mailed to Credit Union Members**

Member's statements have been mailed during the past week, reflecting all transactions which occurred during the first calendar quarter of 1958.

Please advise the Credit Union if your statement is not received by Friday, April 18th.

**REDSTONE FEDERAL CREDIT UNION**

Bl. 3649 - Redstone Arsenal — Phone — Extensions 2856 and 4053

**MODERN HEALTH Club Services** — Central YMCA, 203 South Green St. is offering massages, Turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy, sun lamp, swimming pool. Graduate Masseuse in charge. Phone JE 471-31. tfc

**uction House, West Holmes St.** — auction every Thursday night. Furniture sold off the floor each day of the week. If you have anything to sell we will sell it for you on 20 per cent commission. Phone JE 6-2241. tfc

**LOTS ON GUNTERSVILLE LAKE**

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**7-ROOM HOUSE** in Hartselle for sale. Fine neighborhood, paved street, double carport, recently remodeled. Moving to new employment at Florence. Call, write or visit L. T. WAGNON, 603 Short St., Pho. SP 3-6441. 4-17c

**BATTLE SCENES OF CIVIL WAR.** These are rare old lithographs, all in good condition, coloring beautiful. 175-J Fayetteville, Tenn. 4-16p

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**FOR RENT** — New and modern house trailer parking lot. Four trailer capacity, adjoining public school grounds, four blocks from downtown. Hartselle, Ala., Phone SP 3-4851. 1tc

**FOR SALE** — 1950 Ford 4-dr., V8 Custom, rich ebony black, clean, solid, individual. \$295.00. Phone JE 2-3530 after 5:00 p.m. 1tc

**LOTS FOR SALE** — 100x150 ft., zoned for duplexes, located at intersection of Jordan Lane and Highway 72 by-pass, app. 2500 north of Steadman's Restaurant, look for sign, reasonable pre-development prices. Call JE 2-2652. 5-7c



THOMAS H. ENZOR

\* \* \*

**Enzor Elected Head of Management Group**

Thomas H. Enzor, Management Engineer, Comptroller's Office, Redstone Arsenal, was elected president of the North Alabama Chapter, Society for the Advancement of Management, at a meeting held recently at the Russel Erskine Hotel.

Enzor will succeed Norman Harberger, Rohm and Haas, who retires from the office in June of this year.

Enzor is a native of Alabama and a graduate of George Washington University, Washington, D.C. He was associated with the Office of the Quartermaster General, Washington, D.C., before joining the staff of the Comptroller's Office, Redstone Arsenal.

Other officers elected at the same meeting were: Judson Hawthorne, vice-president for membership, and John F. Tyson, vice-president for programs. Elected to the Board of Directors were Howard A. Slayden, Leonard Twinnem, Haskell J. Ross, Milton Popejoy, and Archie C. Bobo.

The Society for the Advancement of Management is a professional society devoted to the interchange of management information and experience among representatives from industry, government, and education. Its meetings are held on the second Wednesday of each month at the Russel Erskine Hotel. Dr. Buckingham, head of Industrial Management Department, Georgia Tech, will be the speaker at the next regular meeting. The recent meeting included, in addition to elections, a panel discussion on automatic data processing systems and equipment. On the panel were Jim Morgan, representative of International Business Machines Corp; Bob Outler, Service Section Supervisor, Wolverine Tube; and Bill Fortenberry, Chief, ADPS Office, Redstone Arsenal.

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**RECEIVES AWARDS**—Foster Haley (right) receives congratulations from Brig. Gen. John G. Shinkle, commander of the Army Rocket and Guided Missile Agency, during a recent ceremony at which Haley was awarded an Outstanding and a Sustained Superior Performance rating for work he performed during the period Feb. 1957 to Feb. 1958 as Public Information Officer for Redstone Arsenal.



**ARTILLERY CHIEFS VISIT**—Maj. Gen. John B. Murphy (second from right), Chief of Artillery, Hqs. U. S. Continental Army Command, is pictured above during a recent staff visit to the Army Ordnance Missile Command's 40th Field Artillery Missile Group (Heavy) Col. Robert C. Gildart (far right) commands the Redstone Missile unit which is the first unit of its type slated for deployment overseas. Brig. Gen. William A. Harris (center), XVIII Airborne Corps Artillery Commander, accompanied Gen. Murphy during the visit. Members of the 40th Group's Alpha Battery pictured are (from left to right) Sgt. Lewis Fiore, Sgt. Richard C. Robbins and Master Sgt. James W. Bailey.

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(Continued from Page 8)  
 tion and testing of electrical network components and systems, recommending necessary design changes which were indicated by continuity and functional tests.  
 Buhmann attended the University of Wisconsin and lives at 2516 Force Dr., Huntsville. He assisted in supervising electrical checkouts and served as project engineer for the electrical portions of the high-speed cluster assemblies.

Performance test analysis was conducted by Julius Tubbecke, Ernst K. Klauss, Charles O. Brooks, Paul R. Davis, Arlin G. Smith, Robert L. Smith, Jr., Shirley P. Hale and W. H. Ealy.

Technical assistant to Neubert, Tubbecke is a graduate of the Gauss Schule in Berlin and lives at 1102 Dale Dr., Huntsville. He directed performance testing of both Jupiter C rockets. He determined test requirements, overall scheduling and technical supervision of these activities.

This covered the operation of measuring, radio frequency, guidance and control systems. Under his surveillance, simulated flight tests were conducted which required the operation of the complete missiles for the first time. It is this final test which determines whether the missile can be released to the Firing Laboratory.

Klauss, who attended German technical schools and lives at 1924 Bide-A-Wee Dr., Huntsville, supervised preparation of testing specifications for components and assemblies purchased from industry. He also helped coordinate the activities of operating groups during tests.

Detailed testing of guidance and control components and systems was the responsibility of Brooks, a 32-year-old research engineer and a graduate of Auburn. He lives at 113 Waltham Dr., Huntsville. If the systems did not meet design requirements, Brooks recommended necessary modifications to the designers.

Davis, who attended Memphis State College and the University of Mississippi, was responsible to determine that measuring systems operated in accord with design. He had also to determine that measuring and telemetry systems were accurate and compatible. His home is 501 E. Holmes St., Huntsville.

It was Smith's task to determine that the radio frequency tracking and telemetry systems operated according to design requirements. He is 31 and a graduate of the American Television Institute. He lives at 2805 Day Rd., Huntsville.

Robert L. Smith, Jr., 33, who attended the University of Louisville, Ky., and the University of Florida, was chief operational test engineer. He was responsible for preparation of overall missile test procedures. His home is 1301 Woodmont Ave., Huntsville.

Hale, who is 29, and lives at 402 Fifth St., E., Huntsville, computed the measuring telemetering characteristics and the analysis of test records. He attended Morris Harvey College, and the University of Alabama.

Tedious and complex functional and performance testing of radar, Doppler and other tracking devices employed to determine the Jupiter C flight trajectory was conducted by Ealy, who is the 31-year-old chief of the Tracking Devices Unit. He attended the Huntsville Center, University of Alabama, and lives at 808 Giles Dr., Huntsville.

Ten men shared responsibility for mechanical systems analysis. Arthur Urbanski, technical assistant to the director, had to test and evaluate the functioning of the complete missiles for mechanical characteristics. A graduate of technical schools in Germany, he lives at 3103 Wildwood Dr., S.E., Huntsville.

Anton Baier, technical assist-

ant to the director, a graduate of Mittweida College, Germany, and a resident of Huntsville, reviewed mechanical design specifications to insure the necessary work would be accomplished accurately and within the tight schedule.

James G. Allen, chief, Mechanical Components Section, directed acceptance testing of complex valves and pneumatically operated components. A graduate of Mississippi State College, he resides at 2505 Woodview Dr., in Huntsville.

Roy E. Godfrey, chief, Mechanical Assembly Section, supervised

mechanical systems testing and final alignment of the complete missile sections. He lives at 4003 Panorama Dr., Huntsville, and is an alumnus of the University of Tennessee.

Acceptance and analysis of missile parts, components and airframe assemblies during fabrication was the responsibility of Joseph S. Hillenbrand, chief, Mechanical Manufacturing Section. He is a graduate of the University of Tennessee and lives at 2216 Matthews Dr., Huntsville.

Senior inspectors who supervised inspection procedures insure that from rough materials to final assemblies, all components were

of highest quality before going into fabrication.

This group included John C. Moore, Jr., of Fayetteville, Tenn., Donald C. McPherson of Huntsville, Claude Q. Buzbee, Gordon McCann, James D. Chamberlain and Fred L. Moffitt, all residents of Huntsville.

Reliability analysis was performed by Heinrich A. Schulze, Robert H. Ribers, Jewel W. Moody and James Broughton.

Schulze, technical assistant to the director, is a graduate of a Bremen technical university and lives at 1716 Sandlin Ave., Huntsville. He was responsible for surveillance for operational reliability

of missile parts, components and assemblies.

James E. Broughton, Jr., Auburn graduate who lives at 2520 Force Dr., Huntsville, was responsible for the quality assurance program. Moody, a graduate of Southeastern Louisiana College who lives at 3414 Wildwood Dr., S.E., Huntsville, supervised planning, execution and evaluation of reliability testing of electrical parts and components.

Ribers directed mechanical reliability tests on parts and components. He is a graduate of the Georgia Institute of Technology and Auburn and lives in Guntersville, Ala.

# Jantzen geography lesson

(famous bodies of water)

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3. The Sea Around Us is the chemise look from Paris. Here is our low-back "Chevron" striped cotton knit shirt 6.93.
4. Jamaica is in the Caribbean, and in fashion. It means strictly the right short length this year. These in jean cloth with side braiding and back pocket 2.59.

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### Savings Bond Drive Ends This Week Here

The Savings Bond campaign to adjust individual savings plans ends this week, according to Maj. Clarence Hutson, chief, Finance and Accounting Division, Redstone Arsenal.

The major pointed out that certain awards are available to units who have 65 per cent or more participation in the Savings Bond payroll deduction program as well as the personal benefits derived from the increased interest rate of 3 1/2 per cent.

Individuals who have not been contacted can get full details from the Savings Bond representative in their unit. Names of key representatives are posted on most bulletin boards.