

## LT. GEN. HICKEY GUEST OF HONOR

# Arsenal Is Set For Big Sesqi 'Day' Tomorrow



FROM ARROWHEADS TO GUIDED MISSILES—Back 150 or so years ago, Indians were chipping out arrowheads on the site now covered by Redstone Arsenal. Pointing out the considerable change is Miss Martha Tidwell, recently of the Arsenal PIO, making like an Indian maiden posing alongside a V-2 missile model.

Tomorrow is the "big day"! It's Redstone Arsenal Day of Huntsville's colorful 150th birthday party—the Sesquicentennial celebration.

As its special guest of honor for the big day, the Arsenal welcomes Lt. Gen. Thomas F. Hickey, Third Army commander.

A full day of activity is in store and a carnival spirit will pervade the atmosphere—although the occasion has its serious aspects also.

Here's a schedule of events for Redstone Arsenal Day:

9 a.m. to 2 p.m.—Arsenal dis-

plays (Corporal, Honest John, Ammunition Division equipment) on courthouse square.

12 noon—Joint civic clubs luncheon in honor of General Hickey, at Russel Erskine Hotel.

2 p.m. — RSA Day parade through downtown Huntsville, featuring Third Army and 11th Airborne (Ft. Campbell, Ky.) marching bands, Arsenal and School troops, MP jeeps, floats, and numerous other units.

6:30 p.m. — Concert by Third Army band at Big Spring Park.

8 p.m.—Historical pageant, "Into This Valley," at Big Spring Park.



LT. GEN. THOMAS F. HICKEY  
RSA Day Honor Guest

### TOP APPRENTICES TO ATTEND MEET

The three outstanding apprentices at Redstone Arsenal have been selected to attend the Southern States Apprenticeship Conference at Tulsa, Okla., on Sept. 29, 30 and Oct. 1, 1955.

An outstanding apprentice was selected from each of the three major trade groups in the Apprenticeship Program. The final selection was made by the apprentices in each major trade group from those that ranked in the upper 10 per cent of the class in both related training and shop performance grades.

Foster S. Tucker of GMDD was selected as the outstanding machinist apprentice, James A. Malone of GMDD as the outstanding sheet metal apprentice, and Wendell B. Miller of PE as the outstanding electrician apprentice.

They will be accompanied to the Apprenticeship Convention by E. Guy Johnson and William W. Clark, apprenticeship training officers, and James M. Allen, a member of the Apprenticeship Committee.

### Corporal Missile To Be Subject of Talk By R. A. Bray

R. A. Bray, of the Guided Missile Division, Firestone Tire and Rubber Company in Los Angeles, will describe the Corporal missile at the next Seminar sponsored by the Rocket Development Laboratory.

The meeting will be held in the Rocket Auditorium this Friday morning, Sept. 16, at 9 a.m. The meeting is classified and will require properly endorsed Lecture Clearance Card for entrance.

Subjects to be included are: historical background, typical operation, selection of target, preparation of launching site, check-out, firing, flight, equipment and system operation. The presentation will be illustrated with slides and movies.

Mr. Bray is a native of Troy, N. Y. and now lives near Los Angeles. He is a graduate engineer from Rensselaer Polytechnic Institute, Troy, and has done graduate work at New Mexico A & M and Texas Western.

His experience includes ordnance electronics and radar work at Ft. Bliss, Corporal missile internal guidance orientation at White Sands and JPL, Firestone representative member of the

(Cont'd back page of section)

### It's Back to School For RSA Trainees

It's back to school for 38 young men studying engineering or mathematics at three Southern colleges, the University of Tennessee, Georgia Tech and Auburn.

Meantime, they've been getting on-the-job training at Redstone Arsenal under a program that gives them one quarter on the job for earning and the next quarter in school for intensive book-learning.

The student training program has been directed by George Wilde who has transferred to the Mission Planning and Coordination Office.

He has been replaced by William Merchant who transferred from Rossford Arsenal.

Each student trainee will be replaced on his job by a "partner" who has been studying in school while he was doing his on-the-job learning and earning at the same time.

### CIVILIANS' PER DIEM INCREASED

Per diem for civilian employes has increased to \$12.00 according to Major Clarence Hutson, Finance Officer.

The new rate for maximum per diem, which was formerly \$9.00, went into effect on July 29.

There is no change in the seven cents a mile collected for travel in private automobiles on government business.

### Redstone Featured In Thursday's Times

Historical and other information about Redstone Arsenal will be featured in Thursday's Sesquicentennial Edition of The Huntsville Times.

### Leave Policy Eased For 'Arsenal Day'

Wednesday, Sept. 14, has been designated "Redstone Arsenal Day" during the Huntsville Sesquicentennial.

All arsenal supervisors are urged to carry out a liberal policy of granting annual leave to personnel who wish to observe, or take part in, the Redstone Arsenal Day activities, provided there is no interference with arsenal missions.

### MAJ. JAMES, COMMITTEE COLLECT \$1,720 FOR VICTIMS OF FLOOD

During the one-day emergency drive for the American Red Cross at Redstone, Major Emmette A. James and his committee collected \$1720.04 by appealing to every-

one here for one quarter of a dollar.

They collected \$220.04 more than the Madison County quota for this drive.

(Continued on Page 2)

# Five Officers Have Commanded Arsenal

BY MARY CAGLE  
Arsenal Historian

During the lifetime of Redstone Arsenal, it has had five major commanding officers, ranking from lieutenant colonel to brigadier general.

Redstone Arsenal will celebrate its fourteenth birthday in October of this year.

The officers who have served as commanders of Redstone Ar-

senal are:

Colonel Carroll D. Hudson, October 6, 1941 to March 15, 1946 and November 30, 1948 to May 7, 1952.

Colonel Duncan G. McGregor, April 23, 1946 to July 28, 1947.

Lieutenant Colonel James O. Branch, August 4, 1947 to September 11, 1948.

Brigadier General Thomas K. Vincent, June 16, 1952 to August

31, 1954.

The present commander is Brigadier General H. N. Toftoy, who assumed command on September 1, 1954.

The highlights in the lives of each of the arsenal commanders follow.

COLONEL CARROLL D. HUDSON, Redstone's first commanding officer, was sent here as a major by the Chief of Ordnance

in October 1941, to handle the building responsibilities of the new shell-loading and assembly plant. At this time, he dug the first shovel of earth which signaled the start of construction for an ammunition plant later to become one of the most productive in the United States.

Colonel Hudson remained in command until March 15, 1946, at which time the arsenal had been

demobilized and readjusted to peacetime operations. Under Colonel Hudson's leadership during the war years, Redstone personnel received the Army-Navy "E" award five times for outstanding achievements in the manufacture of ammunition. Because of his record at Redstone during World War II, Colonel Hudson was awarded the Legion of Merit by

(Continued on Page 2)



COL. CARROLL D. HUDSON



COL. DUNCAN G. MCGREGOR



LT. COL. JAMES O. BRANCH



BRIG. GEN. T. K. VINCENT



BRIG. GEN. H. N. TOFTOY

# The Redstone Rocket

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

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## Five Officers Have

(Continued From Page 1)

the Department of the Army. From March 1946 to April 1947, Colonel Hudson served as commanding officer of Joliet Arsenal. He left there for service in the Philippines and then moved to Okinawa as Ordnance Officer for the Ryukyus Command.

Colonel Hudson was recalled to Redstone Arsenal on November 30, 1948, to handle the scores of details and planning necessary for the establishment of an entirely new facility for Ordnance—first rockets and later guided missiles. He concluded his second tour as Redstone's commanding officer on May 7, 1952, and departed for his new assignment as Ordnance Of-

ficer for the Sixth Army, Presidio of San Francisco.

Colonel Hudson was born on September 15, 1889, in Los Angeles, Calif., and spent his boyhood days there. He attended Polytechnic High School and was graduated in 1922 from Stanford University with a degree in Mechanical engineering. While at the university, he was a member of Alpha Tau Omega, social fraternity.

During World War I, Colonel Hudson served for almost three years in the Navy. In the intervening years between wars, he became engaged in the construction business in the Los Angeles area and served as president of the Hudson Construction Company until 1946, when he received a Regular Army appointment.

He was commissioned as a first lieutenant in the Ordnance Department on January 23, 1926. Long active as a reserve officer, he was called to active duty as a major in 1940, and was graduated from the Industrial College of the Armed Forces. During the same year, he was assigned to the Office, Chief of Ordnance, where he was serving when sent to Redstone. Colonel Hudson was promoted to rank of lieutenant colonel in February 1942, and received his promotion to full colonel two years later.

Colonel Hudson was retired from the Army in September 1954 and now resides at Newport Beach, Los Angeles, California.

**COLONEL DUNCAN G. MCGREGOR**, a Regular Army officer who served in both world wars, assumed command of Redstone Arsenal on April 23, 1946. He succeeded Major Edwin J. Grayson, who had been in temporary command following Colonel Hudson's departure on March 15, 1946.

Colonel McGregor remained in command of Redstone Arsenal until July 28, 1947, when he departed for assignment to the Philippine-Ryukyus Command in Manila.

At the time of his assignment to Redstone, Colonel McGregor had been on active Army duty since his graduation from the U.S. Military Academy in 1917. Prior to coming here, he was assigned to Jefferson Proving Ground, Ind., where he served as commanding officer.

Colonel McGregor spent fifteen months in the Pacific Theater, first going overseas in July of 1944, and participating in the initial landing of American troops on Leyte. He served as Tenth Corps Area Ordnance Officer from 1942 to 1944 and while in the Philippines as area commander of the Luzon Base Section and Civil Affairs Officer of the Philippine Base Section.

Prior to the outbreak of World War II, Colonel McGregor was in charge of the construction of the Denver Ordnance Plant, serving as its commanding officer from February to November 1941. He served as commanding officer of the Utah Ordnance Plant from its initial stages in August 1941 to July 1942.

Colonel McGregor was commissioned a second lieutenant in the Cavalry in August 1917. In World War I, he served in France from November 1918 to November 1919, receiving his promotion to captain in June 1918. He was graduated from the Ordnance School in 1922 and was transferred to the Ordnance Department in the same year. His service in the Ordnance Department included five years in industrial war planning in the Bridgeport Ordnance District four years in charge of shops at Watervliet Arsenal and two years in the Philippines. He became a lieutenant colonel in 1940 and received his promotion to full colonel in February 1942.

**LT. COLONEL JAMES O. BRANCH**, a veteran of World War II, assumed command of Redstone Arsenal on August 4, 1947. He succeeded Captain Louis Miller, Jr., who had been in temporary command following the departure of Colonel McGregor on July 28, 1947.

Colonel Branch remained in command of Redstone Arsenal until September 11, 1948. He was succeeded by Captain Vernon W. Morgan, who served as interim commander pending the arrival of Colonel Hudson on November 30, 1948.

Colonel Branch was called to active duty with the Ordnance Department in 1940, and was assigned to the Nansmond Ordnance Depot, Portsmouth, Virginia. Prior to that time, he had held a commission in the Officers' Reserve Corps since 1929.

He spent 30 months in North Africa, Sicily, and Italy, serving as commanding officer of the 62nd Ordnance Battalion, 87th Ordnance Battalion and 56th Ordnance Group, and as executive of.

(Cont'd back page of section)

## \$1720 for Flood Aid

(Continued From Page 1)  
Here's the way they came out:

### EMERGENCY RED CROSS DRIVE

	Number of Personnel	Total Contribution	Average
1. Industrial Division	473	\$ 91.51	\$.19
2. Field Service Division	398	68.12	.17
3. Redstone Depot	166	19.01	.11
4. Ammunition Division	432	92.35	.21
5. Ord. Missile Lab	1908	283.16	.15
6. Research & Dev. Division	130	26.00	.20
7. OGMS	1097	258.03	.24
8. Mission Planning & Coordination	18	7.70	.43
9. Comptroller	187	41.87	.22
10. Civilian Personnel	79	19.26	.24
11. Consolidated Supply Div.	247	52.72	.21
12. Medical Division	33	7.75	.23
13. Property Disposal	20	5.00	.25
14. Post Engineer	869	237.35	.27
15. Provost Marshal Div. (Civ. Per.)	148	38.25	.26
16. Signal Division	43	11.25	.26
17. Transportation Div.	221	64.77	.29
18. Ammunition Surveillance Office	15	3.75	.25
19. Army Inspector of Ordnance	77	19.50	.25
20. Purchasing & Contracting	80	17.25	.22
21. Adjutant Division	123	35.10	.29
22. Legal Office	8	2.25	.28
23. Safety Office	18	3.75	.21
24. Troop Command	648	145.00	.22
25. Finance & Commissary Offices	44	12.75	.29
26. Contract Administrator	6	4.50	.75
27. Rohm & Haas	250	35.23	.14
28. Thiokol Corporation	888	40.00	.05
29. U. S. Ind. Chemical Co.	121	36.45	.30
30. Olin-Mathieson Chemical Corp.	70	28.41	.41
31. U. S. Resident Engineer	46	9.50	.21
32. General Aniline & Film Co.	18	2.50	.14
<b>TOTALS</b>	<b>3,881</b>	<b>\$1,720.04</b>	<b>.19</b>

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**Five Officers Have**  
(Continued from Page 2)

ficier to the Fifth Army Ordnance Officer. His decorations include the French Croix de Guerre with Silver Gilt Star, the Italian Military Valor Cross, and the Legion of Merit.

Following his return to the States, Colonel Branch was assigned to Camp Hood, Texas, where he commanded the 335th Ordnance Battalion. He received his appointment in the Regular Army in July 1947, and was assigned to Redstone Arsenal from Aberdeen Proving Ground, Maryland.

Colonel Branch's home is in Portsmouth, Virginia. He is a graduate engineer, having received an engineering degree from the Virginia Polytechnic Institute.

BRIGADIER GENERAL THOMAS K. VINCENT, the first general officer to command this vast North Alabama defense installation, assumed duties as commanding general on June 16, 1952. He succeeded Colonel Benjamin D. Beach and Colonel (now brigadier general) H. N. Toftoy, senior officers who had been in temporary command at different times following the departure of Colonel Hudson on May 7, 1952.

General Vincent remained in command of Redstone Arsenal until August 31, 1954, when he was retired from the Army after 37 years service. In recognition of his faithful and efficient performance of military duty and outstanding service as commanding general of Redstone Arsenal, he was awarded a "certificate of achievement" by Lt. Gen. A. R. Bolling, Commanding General, Third Army, and Major Gen. E. L. Cummings, the Chief of Ordnance. Following his retirement, General Vincent moved to Alexandria, Virginia, where he is working with the American Ordnance Association.

General Vincent came to Redstone Arsenal after serving as commanding general of The Ordnance Training Command at Aberdeen Proving Ground, Md. He was responsible for the entire Ordnance training program and also served as deputy commander of the Proving Ground.

Prior to that time, General Vincent was commanding officer of the Griesheim Ordnance Depot, Frankfurt, Germany, from June 1947 to August 1948. He has also been production manager of the Springfield Armory, Springfield, Massachusetts.

In August 1942, the general—then Colonel Vincent—was assigned duties in the Office, Chief of Ordnance, Washington, first as deputy chief of the Production Service Division, then as chief of the Redistribution and Salvage Branch.

During World War II, General Vincent was commanding officer of the Erie Proving Ground at Lacerne, Ohio.

General Vincent was originally commissioned in the Field Artillery as a second lieutenant on October 25, 1917 and received a promotion to first lieutenant the same day. He transferred to the Ordnance Department in 1920.

During World War I, and immediately following, General Vincent served with the Field Artillery in Kansas, Oklahoma, the Philippines, Hawaii, and at various arsenals.

While serving with Ordnance, General Vincent was awarded a patent for a radial expansion process in making cannon barrels.

The general was born Thomas Kenneth Vincent, in Dayton, O., on October 3, 1895. He moved to Baltimore, Md., where he was graduated from the Baltimore City College in 1912. He received a bachelor of science degree in 1916 from Kansas State College.

In 1932, he received a bachelor of science degree in mechanical engineering from the Massachusetts Institute of Technology.

GRIGADIER GENERAL H. N. TOFTOY, currently in command of Redstone Arsenal, assumed duties as commanding general on September 1, 1954, following the retirement of General Vincent.

The arsenal's present commander was born October 31, 1902, in Marseilles, Illinois. He attended the University of Wisconsin for two years, then entered the United States Military Academy

where he was graduated in 1926 as a second lieutenant in the Army Air Force.

The following year, he transferred to the Coast Artillery Corps. He served in Hawaii until 1930 before returning to the U. S. Military Academy for five years as an instructor.

While serving with the Coast Artillery Corps, General Toftoy became a distinguished pistol shot and artilleryman and an expert in submarine mining. For two years he was in charge of the mine defenses for the Panama Canal.

Following this, he was made responsible for the development and production of a new type of submarine mine control system ex-

clusively used by the United States during World War II, and later taken over by the Navy.

In 1942, he was assigned to duty with the Ordnance Department and transferred to that branch of service in 1946.

After attending the Command and General Staff School, the Ordnance School, and the Army-Navy Staff College, General Toftoy was selected to head up technical intelligence in Europe.

Among the decorations he has been awarded are the Legion of Merit, the Bronze Star, and the Croix de Guerre with Palm.

General Toftoy is married to the former Miss Hazel Schweikert of Port Chest, N. Y. They have two

**Talk by Bray**

(Continued From Page 1)

Corporal Technical Consultants Office, Ft. Bliss, and member of the technical staff at the Watervliet Arsenal, Watervliet, N. Y.

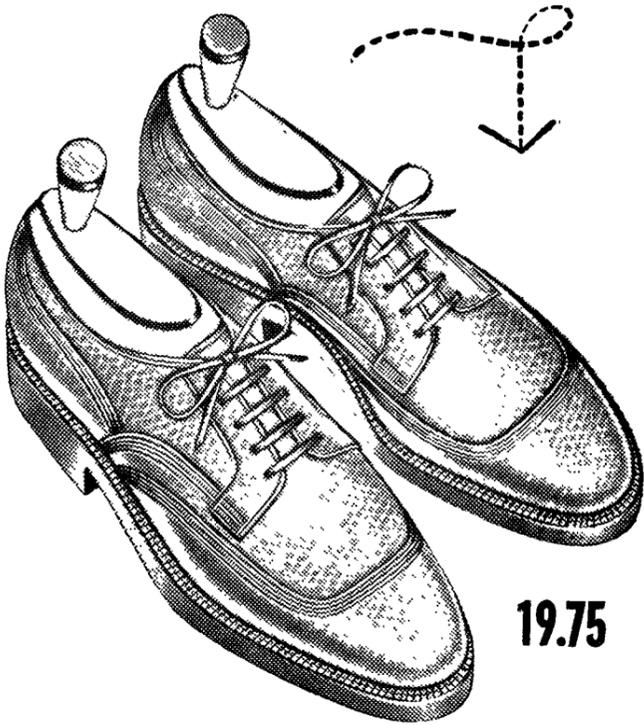
Mr. Bray is a member of the American Rocket Society, the American Society of Mechanical Engineers, the Society for the Advancement of Management and the honorary engineering and journalism societies Tau Beta Pi and Pi Delta Epsilon.

children, Mrs. George K. Williams of Tuscaloosa, Alabama, and Cadet Charles Nelson Toftoy of the United States Military Academy.

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Fall rates in effect after September 6, 1955 for Redstone personnel. \$45 a week per (2). Tinker By the Sea, Cocoa Beach, Fla. 9-13c

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**ENTRY FORM**

**REDSTONE ROCKET FOOTBALL CONTEST**

(See rules in separate article)

W		at		W	TIE
.....	Rhode Island		Northeastern	.....	.....
.....	California		Pittsburgh	.....	.....
.....	Virginia Tech		Wake Forest	.....	.....
.....	North Carolina State		Florida State	.....	.....
.....	Virginia Military		Tulane	.....	.....
.....	Mississippi		Georgia	.....	.....
.....	Kentucky		Louisiana State	.....	.....
.....	Miami (Fla.)		Georgia Tech	.....	.....
.....	Montana		Houston	.....	.....
.....	Kansas		Texas Christian	.....	.....
.....	Denver		Iowa State	.....	.....
.....	Maryland		Missouri	.....	.....
.....	Oregon		Utah	.....	.....
.....	Texas Tech		Texas	.....	.....
.....	Washington State		Southern California	.....	.....

Total points in game between Miami (Fla.) and Georgia Tech:

Your Name .....

Your Address .....

Daytime Phone .....

**FOLLOWIN' THRU**

**A ROUND-UP OF RSA SPORTS NEWS**

By J. D. Nilsson

We come up this week with a timely new feature, The Rocket's football contest. You can win yourself a couple of season tickets to the local football tults if you come out on top, but we'd like you to try just to see how good your guesser is. Follow the directions carefully. You'd better try it this week, because next week, throughout the college scene, there will be about 15 tough intersecational battles on slate.

\* \* \*

The combination volleyball and basketball courts weren't ready to begin volleyball activity last week, but Special Services stated they should be all set to start this week. Thirteen teams have entered the round-robin. The league action may have to be halted in the middle to permit a double-elimination tourney in time for the Third Army tourney in October, but it was thought that this would be wiser than playing the tourney before beginning the round-robin.

\* \* \*

Action in the Third Army baseball tournament last week at Fort Benning was all fouled up. In five of the first eleven games, some team committed more than five errors. Fort Bragg upset co-favorite Fort Jackson, 7-6, and made five miscues in doing so. Impotent Camp Stewart shook everyone up by holding Jackson to a 5-1 score and then blasting Fort McClellan 11-0.

McPherson moved into the semi-finals, however, and hasn't used a good hurler yet, with Mizell on the bench until needed. It looks as though the Merry Macs won't need him until the All-Army tournament, though.

\* \* \*

Gals' softball is having its big week at the WAC center at Fort McClellan. Fort McClellan's defending champions were heavily favored to repeat and at press time were winning without difficulty.

\* \* \*

Season ticket sales for the Rockets' coming football season are

**Revised Rocket Grid Schedule Is Published**

Following is a new and revised schedule of this season's Rockets football games:

Sept. 24, Ft. Benning, home, 1400.

Oct. 1, Charleston AFB, home, 2000.

Oct. 8, Memphis Naval Air Station, away.

Oct. 15, Eglin AFB, away.

Oct. 22, Huntsville Quarterbacks, at Huntsville, 2000.

Oct. 29, Robins AFB, home, 2000.

Nov. 5, Ft. Benning, home, 1400.

Nov. 12, Tyndall AFB, away.

Nov. 19, Ft. Benning, away.

(All home games will be played at Linton Field. Admiss. on t. single games is 50 cents. Season tickets for all four home games may be bought for one dollar.)

Compare your guesses with the experts! Here's your chance—The Rocket's new football contest. In addition to having fun, you might win this week's prize of two season tickets to all Redstone home football games. Just follow the rules below.

For each game, place an "X" next to the team you think will win. If you think two teams will tie, place an "X" next to the two teams in the column headed "Tie." Then pick the total points you think will be scored in the feature game of the week and put this total in the space provided. Print your name, address, and daytime phone on the form.

Cut out this form, paste it on the back of a postcard, and mail the card to The Redstone Rocket, Public Information Office, Redstone Arsenal, Huntsville, Ala. Entries for this week must be postmarked no later than 1 p.m., Friday, Sept. 16. Any entry with more than one "X" on any game, any entry not marked with "X"s, and any entry not submitted on the form provided and on postcard will be disqualified. The best entry submitted will be adjudged the winner. Duplicate prizes will be given in event of a tie.

care of. There is a change in the Arsenal schedule, as Greenville Air Force Base cancelled its home and home series. One of the sharp regimental teams from Fort Benning will open the season here on September 24, and Redstone will return the game at Benning on November 19.

\* \* \*

A bowling association meeting is slated for tonight, and we should be able to report what the winter leagues will be in an issue or so. Nothing new has happened in boxing on the local scene, the



football team is still pretty much still two months away. Consequently, that's it for now.

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(All home games will be played at Linton Field. Admiss. on t. single games is 50 cents. Season tickets for all four home games may be bought for one dollar.)



THE REDSTONE ARSENAL ROCKETS, post baseball team recently played at Ft. Benning, Ga., in the Third Army baseball tournament. The Rockets won 7 of their last 13 games, finished the year with a 13-31 mark. Left to right, front row, are: Pvt. Harold Menadier, Pvt. James Harbison, Pfc. John Sanders, Pfc. Hugh Mason, Jr., Pfc. Joseph Tuzzalo, Pfc. Vince DiStefano, Pvt. John Schillo, and SP2 George E. Smith, Jr. Standing, left to right, are M/Sgt. James E. Stacks (assistant manager), Pfc. George E. Adams, SP2 Merlin Kuhn, Pfc. Henry Zurwell, Pvt. William B. Massey, Pvt. Phillip Sticksel, Pfc. Joseph Perrotta, and CWO Wofford Lee Taylor, manager. (Photo by Jack Moss)

### 9352 Officers Are Softball Champions

The 9352 Officers softball team survived a hard test by 1 ETD to wrap up the Redstone double-elimination softball tournament last week. The 1 ETD squad, handed a 15-11 loss by the officers, beat out all other opposition in the losers' bracket to get another crack at the officers.

Needing a double win, 1 ETD almost did the impossible, beating the officers, 9-5, but were whipped in the second contest, 8-6.

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## NORTH ALABAMA COLLEGE OF COMMERCE

Struve Building, Huntsville, Alabama

Phone Jefferson 6-2611

### JACKSON UPSET IN TOURNAMENT

Host team Fort Benning, favored Fort McPherson, and surprise winner Fort Bragg remained the only undefeated teams in the Third Army baseball tournament last-week at press time. Bragg suddenly emerged as a power by a victory over Camp Rucker, 8-4, and an upset win over second-seeded Fort Jackson, 7-6.

Rucker, Fort McClellan, Fort Campbell, and Redstone Arsenal's Rockets were eliminated in early round play. Redstone was downed by Camp Gordon, 10-3, and then knocked out of action by Benning, 12-4.

The first three days' activity was marred by errors and sloppy play by nearly all teams. Redstone's Joe Perrotta pitched a fine five-hitter against Gordon, only to have his teammates commit eight errors and lose the game. Bragg was handed a game, scoring eight runs on two hits against Rucker as the Flyers made ten errors.

### Post Craft Shop Sets Classes, Workshop

Beginning Oct. 1, the Post Craft Shop (T-171) will offer free classes and workshop sessions in ceramics, painting and drawing, and enameling in metal.

The classes, with competent instruction, are offered for beginners in particular, and for any others who would like to work. Most materials needed will be available through the shop and some materials are supplied free.

Those who are interested and eligible for the classes—military personnel and their adult dependents—are urged to sign up at the Craft Shop before Oct. 1, since instruction will be offered only if enough people are interested.

Examples of the types of work to be done will be on display in the shop.

For further information call Mrs. W. C. Aycock at JE 4-1852 before noon and on Tuesdays and Wednesdays. Other times call the Craft Shop, extension 2676.

### GOOD CONDUCT MEDAL

The Good Conduct Medal has been awarded to SP3 Joseph C. Oppenlander, Det. A, 9330 TU.



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24 HOURS A DAY

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PHONE JE 6-2447

Campbell set down McClellan as the Wolverines failed to make a hit, but McClellan snapped back to eliminate Rucker even though McClellan committed seven miscues. McPherson and Bragg were slated to tangle in the fourth day's pairings. Benning was idle. The week-long double-elimination tournament is being run at Fort Benning.

## CASH LOANS CASH

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Reg. \$1.19 Value — 2 PAIRS for **\$1.00**

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DAVY CROCKETT and Other Styles — All Sizes.  
BRING THE KIDDIES IN!!

## MEN'S WEAR

SPORT SHIRTS, \$3.95 value — **\$2.95**

Plain and Plaid — Wrinkle Resistant

HANKIES, full size — **25¢**

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by **JADE**

You'll love the way they caress your leg! Beautiful Fall shades! Regular and Extra sizes.

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Fancy and Plain

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The usual charge accounts are invited.

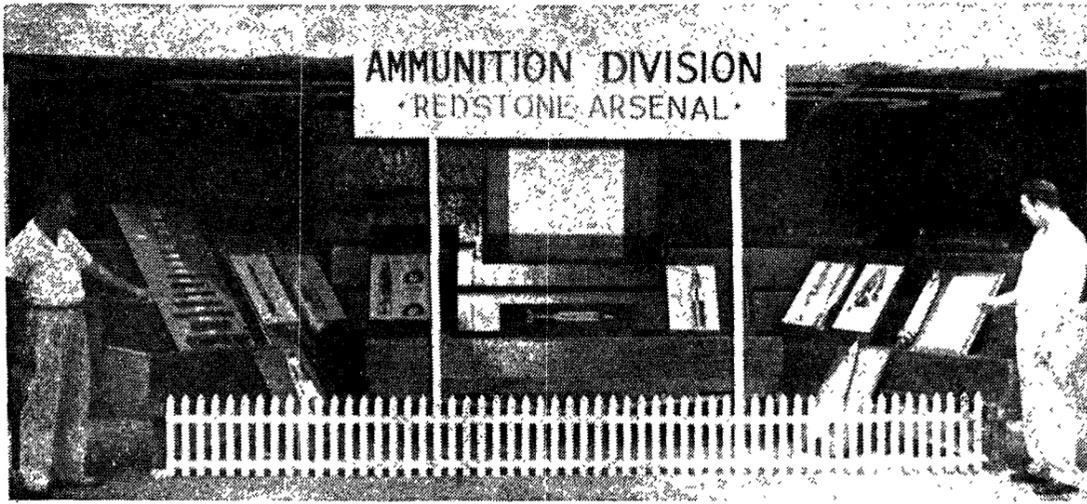
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HUNTSVILLE, ALABAMA



**AMMUNITION DIVISION**  
REDSTONE ARSENAL

AMMUNITION DIVISION DISPLAY—Shown above is the Ammunition Division exhibit which will be on display at the Huntsville courthouse square Wednesday, Redstone Arsenal Day of the Sesquicentennial. Pointing out various components of the exhibit are W. O. Cisco (left) and Dewey Meeks of the Ammo Division.

The party for Mr. Lindenmayr turned out very nicely, with everyone having a good time. We're all wishing him the best of luck

**PARKWAY DRIVE-IN THEATRE**  
AND CAFETERIA—SOUTH'S FINEST

**LAST TIMES TONITE**  
RITA JOSE  
HAYWORTH FERRER  
Miss Sadie Thompson with ALDO RAY  
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"IT SHOULD HAPPEN TO YOU" with JUDY HOLLIDAY

**WEDNESDAY & THURSDAY**  
LOVE AND AMAZING MYSTERY!  
M-G-M's "BETRAYED" starring CLARK GABLE, LANA TURNER, VICTOR MATURE  
— plus —  
M-G-M's roar-mantic comedy hit!  
RED SKELTON "THE GREAT DIAMOND ROBBERY"

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SECRET OF THE INCAS  
Color by TECHNICOLOR  
A Paramount Picture

— plus —  
WILD BILL HICKOK ADVENTURE  
"The YELLOW HAIR KID" starring GUY MADISON and ANDY DEVINE  
"Wild Bill Hickok" — "Jingles"  
Starts Sunday for 5 days

VISTAVISION  
MOTION PICTURE HIGH FIDELITY

JAMES STEWART JUNE ALLYSON  
Strategic Air Command

**FABRICATION LABORATORY**  
BY CAROLYN E. NOLTE

and much happiness in his new business and home.

Well, Fab Lab has a marriage on its hands. Miss Fab Lab Fuzzies is now Mrs. Fab Lab Fuzzies! Miss Sarah House, from Scheduling and Layout, and Jack Smith from Bldg. 405 tied the knot in Iuka, Miss., at 8 a.m., Sept. 3. The highlight of the wedding was the fact that Sarah wore her Sesquicentennial dress. They are at present on a ten-day honeymoon in Miami. Congratulations, kids.

Speaking of honeymoons, Walt Mattern is now back at work. We finally found that they went to the Smokies. Walt is looking like he really enjoyed the trip.

John Ray and his nephew went to Panama City over the Labor Day weekend. So we hear, there aren't any fish left in that bay.

Doug Brown is now on vacation. Although he was sorry to miss the "Sesqui" celebration, Doug was a good sport and grew a mustache anyway. Guess it has hit the dust by now. Doug has so far been to New Orleans, Houston, and San Antonio, heading toward California. While in the Orange State, Doug will visit our old pal Dave James, who left us earlier this year to join the staff of Hughes Aircraft.

Cecil Gentle is back from Florida. He reports that the mosquitoes are pretty bad down there.

George Hamby enjoyed his Labor Day holiday by spending it in Tuscaloosa.

Glad to see Gene Davis back after spending a few days at home last week.

Fann Couch is really bragging now that her household owns five new chuck of quail.

Carmody really felt that he had a barrel of news, in that Carolyn Nolte was up and ready to go to work one morning last week.

This humorous bit of non-sensical news came from Tom Wade, who is an Arab-ite. Since he could not grow a mustache for our Sesqui (which made him bitter), he has the following to say about Arab—and I quote: "According to a recent census, Arab is no longer a town. It's a CITY! (On this point I will debate with him, but after all, this is a direct quote). For Arab's centennial, everyone is going to let his eyebrows grow out. This is supposed to go Huntsville "one better." A beard covers only part of the face, but a good heavy set of eyebrows can be parted horizontally in the middle

and not only cover the face, but foreheads and tops of bald heads as well. It also gives the effect of celebrating 10,000,000 years of progress. To top it off, the costumes will also be along this ancient style line." (Ed. Note: Will the men carry clubs and drag women by the hair too, Tom?)

Everyone in the lab is very sorry to hear that Sam McLendon lost his mother over Labor Day. Our sincere sympathy to Sam and family.

We're very unhappy to hear that Freida Rice is in the hospital again. Freida came down with food poisoning Thursday night a week ago and went to one of the Huntsville hospitals. Later they tried to take her home, and she became sick on the way, and at this writing is in the Russellville

**LYRIC THEATRE**  
"HUNTSVILLE'S FINEST"

TUESDAY & WEDNESDAY

YEAR'S MOST DARING FILM!

**NOT AS A STRANGER**  
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BRODERICK CRAWFORD • CHARLES BICKFORD

THURSDAY & FRIDAY

EXCITEMENT!

**THE GOOD DIE YOUNG**  
RELEASED THRU UNITED ARTISTS

RICHARD BASEHART • GLORIA GRAHAME • JOHN IRELAND

STARTS SUNDAY

ROMANTIC ADVENTURE TALE!

**Pearl of the South Pacific**

VIRGINIA MAYO • DENNIS MORGAN  
DAVID FARRAR  
SUPERSCOPE TECHNICOLOR

Hospital. Sure hope that she is feeling okay by the time this goes to press, as we really miss her pretty little face around here.

If anyone sees a blue car sitting in front of the Fab Lab Bldg. 412, chances are you are viewing Ann Fite's new automobile that she got over Labor Day.

We're glad to see Mr. Kuers back at work after being off a few days last week.

Everyone's eyes really popped out when Mac McKenzie drove up in a brand-new two-tone gray and white station wagon. It really is a beauty.

We have some new Fab Lab Fuzzies running around now. Those who have joined since the last listing are: Dewitt Fairbanks, W. H. Faulkner, James M. Cothren, John Lake, Dale E. Howard, Hugh A. Smith, Allen Turner, William J. Kral, Dwain T. Walters, Frederick R. Owens, George B. Slate and Howard L. Hunter. Quite a chapter, eh?

**GRAND THEATRE**  
"NEWLY DECORATED"

TUESDAY & WEDNESDAY

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Paramount presents  
**MARTIN LEWIS**

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VISTAVISION  
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RAYMOND BURR

Produced by PAUL JONES • NORMAN TAUROG  
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Screenplay by SIDNEY SHELDON  
Suggested by a Play by Edward Childs Carpenter  
from a Story by Fannie Kilbourne • Songs —  
Music by ARTHUR SCHWARTZ • SAMMY CAHN  
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with SESSUE HAYAKAWA SANDRO GIGLIO

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ELEANOR PARKER

WEDNESDAY ONLY

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Color by TECHNICOLOR  
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THURSDAY & FRIDAY

HE HID HIS PAST LIKE THE SCARS ON HIS BACK!

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**MAN WITHOUT A STAR**  
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## Officers Wives Will Hold Bridge-Lunch'n

The Officers Wives Bridge Club will have their regular meeting on Thursday, Sept. 15, at the Officers Open Mess. Reservations for the bridge-luncheon, which will begin at 10 a.m., should be made by Wednesday evening.

Officers wives planning to attend are requested to call Mrs. Shirley Prewett, JE 4-0993.

## Couples Bridge Has Six Table Turn-out

Six tables of bridge were played last Monday night at the Officers Open Mess when the Couples Bridge Club met at 7:30.

High score prizes went to Captain James Heard and Mrs. O. M. Hirsch.

Major Arthur Pinkham and Mrs. James Heard took second high score prizes while Mr. Gregory Moshkoff and Mrs. Gerald Millsaps walked off with the low score prizes.

Host and hostess for the next meeting will be Mr. and Mrs. W. O. Trotter, phone JE 2-8726.

The meeting will be held at 7:30 at the Officers Open Mess. Those desiring to play are requested to call the host and hostess.

## THE POST LIBRARY BY ANNA L. FARRAR Librarian

These new books may be found in the Post Library, Bldg. T-151:

Samuel Adams, "Grandfather Stories"; Winifred Ashton, "The Flower Girls"; Paul Bonner, "Excelsior!"; Max Brand, "Outlaw Breed"; Randolph Churchill, "Churchill: His Life in Photographs"; Mary Dolan, "Hannibal of Carthage"; Alfred Duggan, "Julius Caesar"; a Great Life in Brief; Allan Elston, "Forbidden Valley"; Noel Gerson, "The Scimitar"; Grover Gulick, "White Men, Red Men, and Mountain Men"; John Gwyther, "Captain Cook and the South Pacific; the Voyage of the 'Endeavor' 1768-1771";

Bela Kornitzer, "Great American Heritage; Story of the Five Eisenhower Brothers"; Francis Maziere, "Expedition Tumuc-Huac"; Ethel Merman, "Who Could Ask for Anything More"; Andre Migot, "Tibetan Marches"; Margaret Millar, "Beast in View"; Alice Norton, "... Sargasso of Space"; Virginia Pasley, "21 Stayed"; Bentz Plagmann, "This Is Goggle; or, The Education of a Father";

Gladys Schmitt, "Persistent Image"; Nat Shapiro, "... Hear Me Talkin' to Ya"; Jerry Sohl, "Point Ultimate"; Don Tracy, "Carolina Corsair"; Jack Webb, "The Broken Doll"; and Robert Wilder, "Wine of Youth."

## Accountants Hold Meeting in Decatur

The North Alabama Chapter of the National Association of Cost Accountants held a directors' meeting at the Pitts Motel in Decatur last night.

All team captains and associate directors were invited as guests at this meeting, which served as the kick-off for the chapter's participation in the N.A.C.A. inter-chapter competition for 1955-56.

Team captains were introduced by Stanley A. Veatch of Huntsville, director of attendance. Other directors introduced the directors who will assist them during

## Mid-Season CLEARANCE SALE

1950 STEWART 27 FT.  
1952 PONTIAC CHIEF 34 FT.  
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1953 ROCKET 37 FT.

and many new trailers on display.

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## Service Club Schedule

In keeping with the Sesquicentennial Celebration in Huntsville, the Wednesday night dance at the Service Club will follow the 150-

the year.

Plans for the first regular chapter meeting of the new season, to be held at the Huntsville Country Club on Monday, September 19 at 6:45 o'clock, were announced by program director John R. Severin, Jr., of Florence and meetings director Raymond C. Stribling of Sheffield.

year-old theme of pioneers settling in Madison County. Mrs. Levin Soule said that she is encouraging all of the Junior Hostesses with Sesqui costumes to wear them for the dance.

Tonight is a bridge tournament at 6:30. The TV room is open and a variety of games are also available.

Thursday night the Enlisted Men's Council meets at 6 p.m.

Dance instruction will be at 8 p.m. and bridge tables will be set up.

A Record Review will begin at 7 on Friday. TV and games will both be available.

A variety of games will also be available to everyone on Saturday.

Sunday morning, Coffee Call is at 9 a.m. and the Music Hour at 10 a.m. An evening of games begins at 8 p.m.

Registry for next Monday's ping pong tournament should be accomplished by Saturday, Mrs. Soule said. The tournament be-

## Industrial Division Lists Job Openings

Industrial Division has several job openings located outside Redstone Arsenal.

One such job is Clerk-Typist, GS-3, in Winston Salem, N.C., and another Clerk-Typist to be stationed in Baltimore, Md.

In the professional field, the Division has need of two Ordnance Engineers (Guided Missile Systems) GS-11 or 12, one of whom would be located in Los Angeles, Calif., and the other in

gins at 7 p.m.

THE REDSTONE ROCKET

SEPTEMBER 13, 1955

## Article By Riehl

Wilbur A. Riehl, chemist in the Guided Missile Development Division, has had an article accepted for publication in a future issue of Analytical Chemistry Magazine. The article is entitled "Rapid Detection of Aniline Vapors in the Air."

## DIAL

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### LADIES' COTTON SLIPS

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### WOOL & NYLON BLANKETS

- 20% nylon, 80% wool.
- Twin bed size only.

Regular \$10.98 values.

**\$4.44**

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### BOYS' SPORT SHIRTS

- Cottons and nylons.
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Values to \$1.50

**44¢**

142 PAIRS ONLY

### LADIES' RAYON PANTIES

- Brief and band leg styles.
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Medium and large.

**15¢**  
Pair

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NEW

**DOBSON'S**

CORNER GREEN AND RANDOLPH STREETS

**REDSTONE DEPOT**  
By OLIVUS

M/Sgt. James Johnson is planning to leave us in the near future. Rumor hath it that he is planning a "moose hunt" in the wilds of Canada. We understand this is at the request of Uncle. To replace Sgt. Johnson we welcome to the fold M/Sgt. Livingston. Good luck to your new assignment, Johnson. We hope that you will return to the Depot after your mission is accomplished.

Our Deputy Chief, A. A. Stewart and wife, Elizabeth, spent several days in their favorite state of Mississippi recently.

Dave Stephenson who is attending the Supply Management Course at Fort Lee, Va., made a surprise visit home for a few days. We were happy to see him and hear of his progress. Glad he will be back in the fold after three more weeks at Fort Lee.

Area Foreman, John R. Russell has returned to Savanna Ordnance Depot to attend school for three weeks.

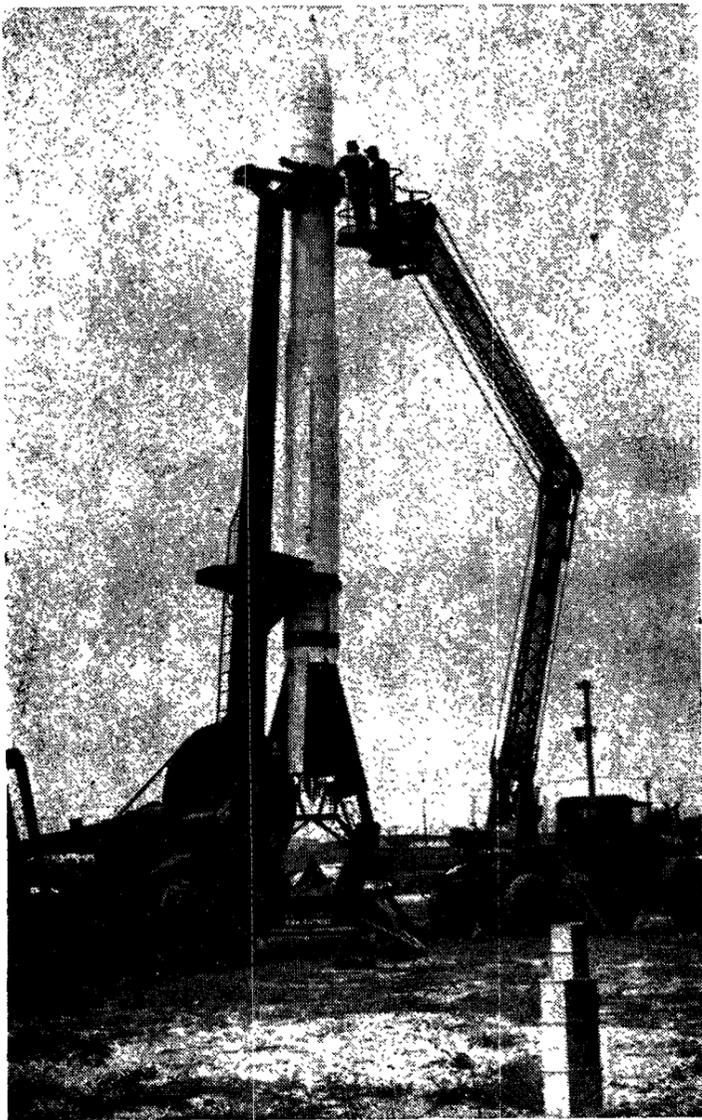
Howard "Jack" Calder has gotten to be "quite the boy" at least

as far as VFW activities are concerned. Besides being commander of a local post, he is at present a delegate to the national Veterans' of Foreign Wars Convention in Boston, Mass.

John T. Johnson has recently become the proud papa of a dainty baby girl.

Gertrude Conrad has returned

from her vacation in Denver, Colorado. Her son, and her husband who is employed by Rocket Development Division shared in the westward tour. Among the interesting points they visited was Independence Pass near Denver. They also spent some time in the snow-capped Rockies where they visited Twin Lakes.



REDSTONE ARSENAL DAY DISPLAY—Shown above is the Corporal missile which will be on display at the Huntsville courthouse square from 9 a.m. to 4 p.m. Wednesday—Redstone Arsenal Day of the Sesquicentennial.

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AS HUNTSVILLE CELEBRATES ITS  
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WE CELEBRATE  
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CAPT. HUBERT M. THOMAS JR.  
OGMS Secretary

**Capt. Thomas New  
OGMS Secretary**

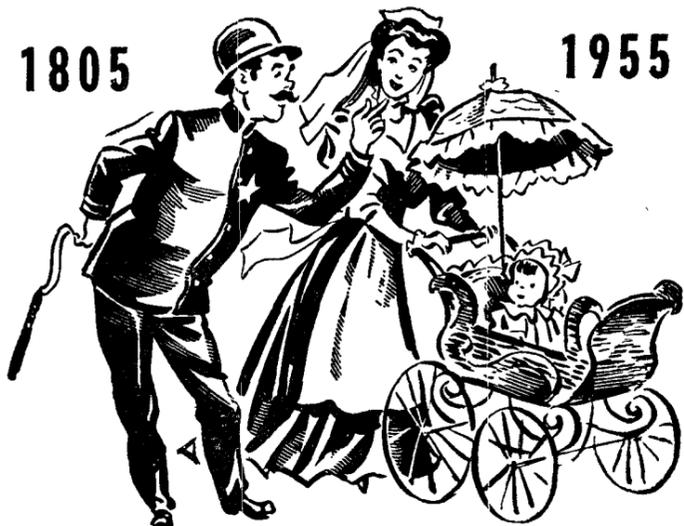
Captain Hubert M. Thomas, Jr., was recently assigned to the staff of the Ordnance Guided Missile School as secretary. Prior to this assignment, he was serving as assistant operation officer, Ordnance Section, Headquarters, 8th Army, Korea.

Captain Thomas, a native of Virginia, attended high school and college in Lynchburg, Va. He was in the grocery and meat market business prior to entering service in June 1948.

Captain Thomas is married to the former Miss Shirley Gay Deacon of Lynchburg. They have one daughter, Susan Kay, age two. The Thomases are residing at 21 Van Buren Drive, Huntsville.

1805

1955



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### 70,000 YOUNG DAVY CROCKETTS SHOOT IN ARMY-BACKED CLUBS

WASHINGTON—Seventy thousand and one hundred American teenagers are attempting to recapture—with the aid of the U. S. Army—the marksmanship prestige their ancestors brought to the United States in frontier days.

Organized in 1,381 clubs, these 12 to 19-year-old rifle enthusiasts have the backing of the Army's Office of the Director of Civilian Marksmanship, which carries out the program of another Army agency—the National Board for the Promotion of Rifle Practice. Both agencies exist through Congressional action.

Voluntarily organized, the teenage rifle clubs break down into three general groupings: junior divisions of senior clubs for youths 12 to 17 years of age, junior clubs with an age-span of 12 to 19, and schools other than those in the reserve training program.

Young persons interested in getting Army support for their rifle club go about it in this way:

They must have a minimum of 10 club members and their leader, advisor and instructor must be a responsible adult with skill and experience in rifle marksmanship. In many cases, these are former Army non-commissioned or commissioned officers. Veterans org-

anizations often act as sponsors for the groups.

Club leaders then get in touch with the Office of the Director of Civilian Marksmanship, Department of the Army, Washington 25, D. C., detailing the kind of help they would like from the Army.

To be eligible for Army assistance, the club must be affiliated with the National Rifle Association of America, a non-profit, non-governmental federation to promote rifle marksmanship. Moreover, 35 percent of the eligible members must fire annually for qualification one of the courses prescribed for record firing by members of the active Army or special courses for very young members.

The help given will depend upon the club needs.

Some of the clubs might have their own rifles and equipment and need only the use of an Armed Forces rifle range in the area; private rifle-ranges are an expensive item confined to the wealthier groups.

Where clubs cannot afford weapons and equipment, these are furnished on a loan basis upon posting of bonds, which are \$500

### Vic Vet says

HERE'S HOW TO APPLY FOR KOREA GI BILL TRAINING:  
 1. PICK BEST COURSE FOR YOU  
 2. FILL OUT VA APPLICATION  
 3. ATTACH PHOTOSTAT OR CERTIFIED COPY OF SEPARATION PAPER.  
 4. MAIL TO YOUR VA REGIONAL OFFICE.



For full information contact your nearest VETERANS ADMINISTRATION office

for junior members. The cost of these bonds varies from area to area, of course, but the average is between \$8 and \$14 for a two-year period.

Army weapons and equipment furnished include .22 and .30 calibre rifles, targets and accessories, cleaning and preserving materials. Ammunition is provided also if current Army budgeting permits.

Clubs desiring to purchase weapons, equipment and ammunition, may do so at current governmental cost.

Commanders at nearby military posts make their ranges available to authorized clubs and provide what assistance is desired in the way of weapons, instructors, range guards and pit personnel. At least one on-duty soldier stands by to ensure compliance with range safety rules.

The Army's interest in civilian marksmanship can be traced back to 1903 when Congress approved appropriations for the creation of the National Board for the Promotion of Rifle Practice. Today the Board has 25 members, civilian and military and all the services are represented. The Office of the Director of Civilian Marksmanship was established in 1916.

Young America's interest in rifle marksmanship has been growing steadily in recent years. In 1951, 1,190 clubs and schools were the source of 55,324 members. In 1953, the totals were 1,250 clubs and 63,090 members. As of June 30th this year, 1,381 clubs and schools were registered with the Office of the Director providing 70,108 teenage members.

All these teen-agers may not turn out to be Davy Crocketts, but they'll end up the kind of marksmen that great-grandpappy would be proud to claim—and the Army proud to have sponsored.

### Worth a Second Look



Pretty Sandy Wirth, Miss Florida of 1955, poses in Miami as she gets ready for the Miss America contest to be held in Atlantic City, N. J., Sept. 1. We're "shore" Sandy isn't selling seashells by the seashore.

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## HISTORY OF ORDNANCE IN WORLD WAR II SLATED FOR PUBLICATION

The 26th volume of the Army's History of World War II—"The Ordnance Department: Planning Munitions for War"—will be published September 9.

It was written by Constance McL. Green, Harry C. Thomson, and Peter C. Roots, and will be published by the Government Printing Office. Containing 542 pages, with illustrations, the book retails for \$4.25.

An official copy of this volume will be distributed to each Ordnance installation by The Adjutant General.

"Planning Munitions for War" tells the story of the vital behind-the-scenes work of designing and developing the U. S. Army's fighting equipment for World War II. It is the 26th volume to be published in the Army's monumental history of World War II, and the first of three projected volumes on the Ordnance Department—now Ordnance Corps. The second volume in the Ordnance series will cover procurement and distribution and the third will record Ordnance activities overseas.

This first Ordnance volume opens with an introduction that places the Ordnance Department in its proper setting within the military framework and describes in broad terms the manifold Ordnance responsibilities for research, development, procurement, storage, distribution, and maintenance of the Army's fighting equipment. Following this introduction, two fast-moving chapters summarize the Ordnance Department's history from the period of the American Revolution down to 1940. With carefully selected detail, the authors show the effect on the nation's mili-

tary power of the Army's periodic swings from rags to riches. In this modern age of multi-billion-dollar budgets for tanks, guided missiles, and atomic cannon, it is startling to read that just 20 years ago the Ordnance Department subsisted on an annual budget of only about \$10 million.

The authors pull no punches in asserting that the poverty of the prewar years hampered weapons research and development and allowed Hitler's army to gain valuable ground. But they do not place all the blame on lack of money. With commendable candor they criticize the Ordnance Department and its leaders for not pressing more insistently for bigger appropriations to stop the steady obsolescence of the nation's fighting equipment. Because guns, ammunition, tanks, and other such items are necessarily complicated in design and hard to manufacture, this account of the prewar years is of the utmost importance to an understanding of Ordnance history in World War II. Fighting equipment cannot be improvised overnight but must be designed long in advance of the need.

For the first time, this book tells the full story of the nomination of Maj. Gen. James H. Burns as Chief of Ordnance in 1942, and the later withdrawal of the nomination at General Burns' request. Based on interviews and correspondence with all the principals, this account sheds new light on a most unusual incident. It appears in a lengthy chapter on wartime organization of the Ordnance Department.

The bulk of the volume—13 chapters—is devoted exclusively

to research and development, and covers a multitude of topics. All major aspects of Ordnance research and development, receive some measure of attention—rifles, machine guns, mortars, howitzers, long-rang field guns, aircraft and anti-aircraft weapons, ammunition of all sorts, bombs, land mines, underwater mines, body armor, and so on. But the volume is no mere catalog of military equipment. Each chapter takes up a major line of development as the following titles indicate—"The Search for Greater Mobility in Ground Warfare," "Increased Fire Power: Launchers and Fire Control", and "Aircraft Armament: Weapons for Air-to-Air Combat."

These topics are examined from the viewpoint of the historian with a broad orientation in American social and economic history, not that of the research specialist or the gun collector. The broad perspective of the book is suggested by its analysis of the German Army's research and development work in contrast to that of the U. S. Army. The important role of technical intelligence, and its neglect during the interwar years, is fully explored. The authors have made extensive use of captured German records, and published German material, as well as the vast accumulation of historical documents in the U. S. Army files. Personal interviews and correspondence have been used freely to supplement existing records.

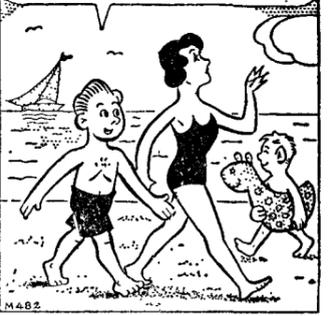
Readers interested in the design of tanks in World War II will find an illuminating discussion of the matter in Chapter X, and, for the earlier development, in Chapter VII. The authors mince no words in reporting the sharp criticisms leveled at American tanks in World War II. Nor do they attempt to brush criticisms aside and claim superiority for every Ordnance product. They make a serious effort to summarize all major elements in the picture and keep them in proper focus. The hampering restrictions of the early years are reviewed and the evolution of tank doctrine is explored. The many factors involved in tank design are described and the sad experiences of Ger-

man tank forces in the Soviet Union in 1941 are portrayed, followed by an account of German efforts to regain tank superiority. The contrast between the U. S. Army's insistence on mechanical reliability and the Russian and German acceptance of less dependable but nonetheless battle-worthy tanks is given prominence.

In the final chapter titled "Unresolved Problems of Research and Development" the authors raise some significant questions. Was the U. S. Army's insistence on thorough testing of all equipment, instead of rushing new models into combat, a mistake? Should the drift toward more and more complicated weapons be checked before the demand for skilled soldier-users gets out of hand? Are we spending too much money to achieve weapons perfection? All these questions and more are pointed up for the thoughtful reader concerned with matters of present day military policy and future trends affecting national defense.

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SHOES

TWICKENHAM HOTEL CORNER

The cartoon below was drawn for The Rocket by Clarence O. Williamson, a lock and brace man in Ammunition Division, with idea and caption provided by Ray Ritch, Organization and Methods examiner.



Injury rate in training airborne troops continued to decline last year to .12 percent. Of 7,150 students enrolled for airborne training, 5,586 completed the course successfully. The students made 34,882 practice jumps.

### ACTION TAKEN ON ENLISTMENT PLANS PROVIDED IN RESERVE FORCES ACT

HEADQUARTERS 3RD ARMY, Fort McPherson, Ga., — Immediate action on three enlistment programs provided for in the Reserve Forces Act of 1955 as a step toward a trained and ready Reserve was announced by the Department of the Army.

Army Commanders have been instructed to accept immediate enlistments for six years in the Army Reserve of persons who have not yet been ordered to report for induction. They will be required to serve two years on active duty, participate with a Ready Reserve unit for three years, and serve one year in the Standby Reserve, where no Reserve training is required.

Effective in the immediate future, enlistments will be accepted in the Army Reserve with draft-deferred status for men under 18 and a half years of age. The Department of the Army has been authorized a quota of 90,000 for enlistments of this type the remainder of Fiscal Year 1956.

Volunteers under this program must agree to participate in six months active duty for training. Enlistees will be paid \$50.00 per

month during the active duty training period. They will also be required to participate satisfactorily the Army Reserve training program for the balance of their eight year enlistment.

High school students who volunteer for this enlistment may be deferred from the initial active duty training period until completion of their high school courses, or attainment of age 20, whichever is earlier.

Another program being placed into effect is to offer a shortened Reserve enlistment to men with a Reserve obligation who complete their term of active service after the date of the act, and before July 1, 1957. Individuals in this category can fulfill their Ready Reserve obligation by serving satisfactorily for one year with an Army Reserve unit. Any remaining military obligation will be completed in the Standby Reserve, in which participation in Reserve training is not required.

The Army emphasized that men accepting a military obligation under a draft deferment program must train satisfactorily or be subject to either 45 days active

duty for training or placed on a priority basis for induction into active service.

Unit training consists of 48 drill periods of two hours each and 15 days summer camp training.

In announcing the enlistment programs, Army Chief of Staff Gen. Maxwell D. Taylor stressed that all elements of the Army's Reserve program are being directed to utilize the new Reserve law to effect the speediest possible build-up of Army Reserve strength toward its mobilization goal.

"The Army will make every effort to achieve a truly trained and trained Reserve under the provisions of the new Reserve Forces Act," Gen. Taylor stated. "At the same time, we shall continue to exhaust every effort to recruit and retain in our Army Reserve and National Guard units volunteers with prior service to form the backbone and leadership necessary for a truly Ready Reserve."

In the last fiscal year, more than 1,300 library units throughout the world circulated almost 40,000,000 pieces of literature among Army personnel.

7,400 Rockets — 15,000 Readers

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SCHEDULE FOR FALL TERM

September 12 - December 6, 1955

CLASSES MEETING ON MONDAY AND WEDNESDAY

CLASS	PREREQUISITE	HRS.
<b>FIRST PERIOD—6:00 - 7:55</b>		
Accounting 107—Income Tax Procedure	Perm. of Inst.	Cert. Cr.
Astronomy 1—Introduction to Astronomy (6:30-8:00)	None	2
Chemistry 2—General Chemistry (Lab. Fri. night 6:00 to 10:00 p.m.)	Chemistry 1	4
Chemistry 141—Physical Chemistry (Lab. to be announced)	Ph. 6, Ch. 24 & Math. 51,	4
Drawing 31—Engineering Drawing I (6:00-10:00)	None	2
Drawing 32—Engineering Drawing II (6:00-10:00)	Drawing 31	2
Drawing 33—Descriptive Geometry (6:00-10:00)	Drawing 31	2
Economics 1—American Economic History	None	3
English 1—English Composition	None	3
G. E. S. 23—Engineering Materials	G. E. S. 11 or Ch. 1	2
Mathematics 95—Differential Equations	Math. 51	3
Sociology 7—Rural Behavior	One course in the field	3

<b>SECOND PERIOD—8:00 - 10:00</b>		
Accounting 3—Intermediate Accounting	Accounting 2	3
English 9—American Literature	English 1-2	3
History 1—History of Western Civilization	None	3
Mathematics 01—Elementary Algebra	None	0
Mathematics 11—Algebra	None	3
Mathematics 25—Analytic Geometry	Math. 15	3
MTE 95—Light Metals and Their Alloys	Ch. 2, Ph. 6	3
Political Science 9—State Government	Political Science 1	3

CLASSES MEETING ON TUESDAY AND THURSDAY

<b>FIRST PERIOD—6:00 - 7:55</b>		
Accounting 1—Principles of Accounting	None	3
Art 11a, b - 12a, b—Drawing I, II (Tuesday only)	None	1½
Art 37a, b - 38a, b—Elementary Ceramics (Thursday only)	None	1½
English 2—English Composition	English 1	3
E. E. 5a—D. C. Circuits	Ph. 6, Math. 49	3
German 1—Elementary German	None	3
History 26—History of Alabama Since 1860	Perm. of Inst.	3
Physics 5c—Technical Physics (Lab. Wednesday, 5:30-8:00)	Math. 15	3
<b>SECOND PERIOD—8:00-10:00</b>		
Accounting 2—Principles of Accounting	Accounting 1	3
Economics 11—Principles of Economics	None	3
History 22—The U. S. Since 1865	None	3
Mathematics 15—Trigonometry	Math. 11	3
Mathematics 49a—Differential and Integral Calculus	Math. 25	3
M. H. 109—Fluid Mechanics	M. H. 82	3
Speech 1—Basic Speech	None	3

Any class not enrolling sufficient number of students will be cancelled.

(Editor's note: The following fiction story was written and submitted by E. B. Watts, precision mechanic. OML.)

Once upon a time in the good land of East Wig there lived a man named Izzig and his son Cicero. For many years Izzig had argued that space was curved. Of course everyone ridiculed the idea. Most folks figured that he was the biggest fool on all Mars. Some few knew he was smart all right, but thought he got his obsession because he was cross-eyed and naturally didn't see things like other folks.

Actually, Izzig based his argument on Hoodathotit's formula: up plus down equals zero. Or simply, what goes up eventually comes down. Also on Gerke's theory that it's equally as far from there to here as it is from here to there. But the latter being only a theory he couldn't put much heart into it.

Poor Izzig was always arguing his point. He'd collar you in the street or tavern and never turn you loose until you made believe you agreed with him. He especially liked to corner a Rocketeer and pour out his heart to him. Rocketeers made light of Izzig and made a great joke of his idea. Space was as flat as Izzig's head, they said. Izzig also tried to get financial backing but no one with money was that big a fool.

One night at a banquet given in honor of Harko Poko who had just returned from a voyage to Moon IV, Izzig, being pretty well loaded, tried to prove his argument by making a wore egg stand on end. Everybody laughed when he failed time after time. Finally, Izzig became exasperated, threw the egg at Poko and staggered out of the hall muttering something about Congress . . . appropriation . . . expedition.

No one knows just how Izzig made with Congress but it is believed that he failed to get any money as he was next seen sneaking across the border into West Wog on a bicycle.

The next thing anyone knew West Wog News Service astounded all Mars with the news that an expedition was being launched to prove that space was curved. Also that one Izzig would head the venture. Now this set tongues to wagging in Wig. However, in the world did Izzig sell his idea to the Woggians. It finally leaked out that Izzig bullied his son Cicero to get himself engaged to the president's daughter who was as ugly as all get out and already an old maid. The president in hopes

of getting his daughter married off used his influence to get an appropriation for the venture.

Getting a crew was not easy either. WWSF (West Wog Space Force) wouldn't spare a man. Army wasn't interested either. Navy said the thing was strictly out of their line. CSP couldn't if WWSF wouldn't.

But Izzig would not be discouraged. After several weeks of scouring around the country he took off into space with three old dilapidated lend-lease rockets and crews made up of income tax delinquents, draft-dodgers, and unhappy husbands, plus 13 West Woggian Marines who were at that time considered expendable.

Everything went well, as far as anyone knows, until one morning several months out one of the Marines stationed in the crows nest spotted a planet dead ahead. Well, almost dead ahead, just three little bitty points of the starboard bow. And just 10,000 miles ahead. Being an old space-going Marine and remembering some existing shore leaves in the past he promptly reported the fact to skipper Iz.

Izzig, however, was not interested in planets any more than Marines are interested in curved space, so naturally he ordered full steam ahead.

The Marines, not to be outdone, made different plans. That night when everybody was asleep the boys stole the ship's flying saucer and a barrel of moonberry wine and shoved off for the strange planet. They fully intended to take a day or two liberty and then rejoin the fleet. That is if things proved too dull.

As it turned out it happened to be winter-time on the top half of the planet and it looked sort of risky to land on the bottom half the Marines could not make up their minds whether to land in Florida or California. So for several weeks they sailed around in and out of the atmosphere trying to make up their minds, meanwhile, scaring the wits out of folks and making confirmed liars out of Air Force pilots. Eventually, however, the moonberry wine gave out in mid-air making a forced landing necessary. Having the altitude to spare the Martians chose Los Angeles and went sailing in. Being dark they overshot the mark and made the horrible mistake of landing on the outskirts of

San Diego.

Now every sailor and Marine knows that San Diego is the sorriest liberty town in the world—but our boys didn't know. They hadn't much more than started to take the town apart than they ran smack into a detail of S.P.'s. But outnumbering them 13 to 12 and the S. P.'s being armed with nothing but clubs and .45's, the Marines soon had the situation well in hand and made it back to their flying saucer.

Giving San Diego up as a bad deal, they decided to head for Old Mexico. On the take off they were sighted by two drunks who were confirmed alcoholics. They promptly quit drinking and are now operating a temperance mission up in Beverly Hills.

Your meringues will stand up better if you'll beat a little cornstarch into the egg whites along with the powdered sugar.

**Brash Young Man Gave 'Big Red One' Its Division Patch**

FORT RILEY, Kan. — A brash young lieutenant of World War I artillery is responsible for the present shoulder patch of the First Infantry Division, rotated here from Germany under Operation Gyroscope—the "BIG RED ONE" on the olive-drab background.

The World War I version of this patch had the same color combination but the numeral, worn on the left sleeve, extended from the shoulder almost to the elbow.

Lieutenant Herbert Stoops of Battery C, Sixth Field Artillery, saw the oversized numeral on his commanding officer's shoulder and remarked that it looked like the colonel's red underwear show-

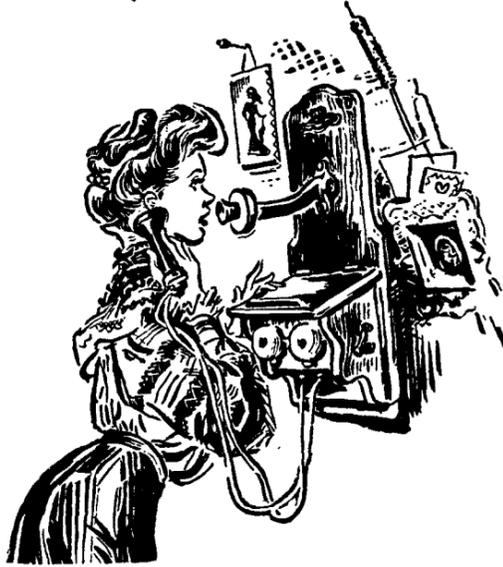
ing through a wire-rip.

The colonel had a sense of humor and gave his junior officer no rebuke other than to tell him to come up with a better design—or shut up. The lieutenant did.

Clipping a piece of red piping from a German infantry officer's cap, he fashioned a "one" and placed it against the gray mass of the cap. The design was approved with the substitution of olive drab for the German gray. The only source of the gray cloth would be German uniforms and no one imagined that Germans were going to surrender just to provide First Division patches.

The division's distinctive emblem was officially recognized on October 28, 1918. However, the first "members" of the outfit to wear the "BIG RED ONE" were the trucks, not the men.

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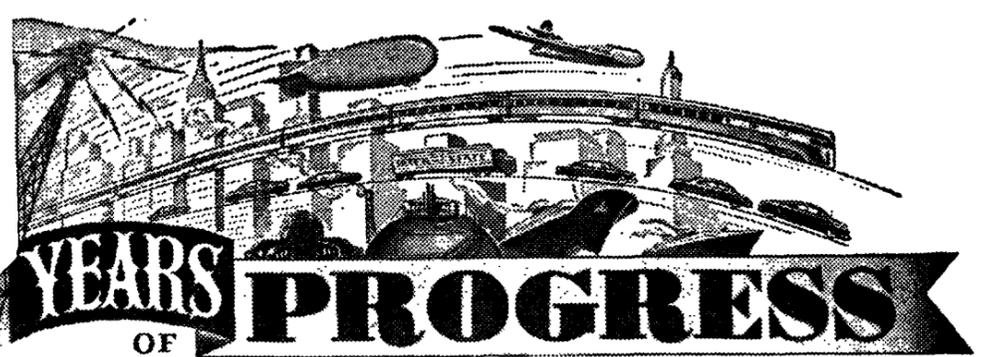
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NINE FOR THREE—Gage Lab, of Industrial Division, recently "hit the jackpot" in the matter of incentive awards—two employes receiving four cash awards each, and their supervisor also getting one. The nine awards totaled \$130. Shown above at award presentation ceremonies were (left to right): Aldo S. Zazzi, assistant branch chief, Acceptance Inspection Branch, Industrial Division; Oscar L. Herndon, gage checker foreman, and recipient of the single award; Edward N. Michael, who received awards for four efficiency suggestions; Cecil O. Rodgers, the other four-time winner; and Col. M. L. DeGuire, chief, Industrial Division. Estimated total savings effected from the suggestions was \$1,749.12.

**IDEAS MOST POWERFUL WORK FORCE, SAYS INCENTIVE AWARDS DIRECTOR**

Here is the story on ideas that y'all might like. Incidentally this boy's folks need not worry about

his idea-forming propensities. A story being told these days is about a school teacher who suggested that her sixth-graders stage a United Nations session. One of the first pupils to volunteer to represent a nation was insistent about representing Russia. When the session got under way, the "Russian" delegate promptly got up and walked out of the room.

What is the most powerful force one can use? What is the one ingredient for getting ahead fast without which no amount of thinking, determination, or "stick-to-itiveness" will work? The answer is ideas. Yes, good ideas are the stuff that success is made from. They make the difference between getting along and getting ahead. Where do we get ideas? Good, profitable ideas come from keeping up-to-date on new developments and trends, new inventions, improving quality, and cutting costs. They come from knowing the new "wrinkles" being successfully used which may be applied to your job. It's simple; get the idea of getting ideas, put them into effect and win an award.

Twenty-five Redstoners have been convinced of this, have won awards totaling \$602.50, and saved the government \$10,459.

William E. (Eddie) Prince of Post Engineer Division led the

group with an award of \$115 by suggesting the painting of parking lanes and spaces and discontinuing the construction of bumper rails. Running a close second is Dewey H. Smith, also of Post Engineer Division, who submitted a suggestion concerning the automatic operation of boiler feed-water regulators and won \$95. A suggestion concerning DD Form 446 to replace RSA Form 173 re-

sulted with improved supply operations and won Aubrey W. Anderson, Guided Missile Development Division, \$60.

Fifty dollars was awarded to John R. Nunnelley, Chemistry Lab, for a suggested change in method of manufacturing aluminum cups used in technical studies of liquids. Paul Teager, GMDD went home with \$35 for recommending a swivel interchanger for the lathe chuck. Rocket Development Division's Palma C. Holton received \$20 for an improvement in the CEC Processing Machine. A third winner for this period from Post Engineer Division, Robert L. Paysinger, submitted a suggestion concerning the mounting of test springs in continuity testers which resulted with a \$20 award.

A lady winner, Mrs. Marcella Styles, submitted a suggestion which was not adopted as written but was directly responsible for revision and clarification of RSA Administrative Instructions 350-4. Mrs. Styles was presented with an award of \$15.

William B. Howard, Rocket Development Division, suggested a dust cover for Bowen Knapp cameras and won an award of \$15. Robert A. Parvin, GMDD, received a \$15 award for a positioning tool and fixture for use with an acetylene torch when welding or cutting flanges to pipe, etc. Willard J. Russell, Post Engineer Division, improved the handling procedure for lifting hot tar to building roofs during re-roofing operations. His suggestion increased safety and reduced the chance of damage to the building. His award was \$15.

James D. Gaines of Consolidated Supply Division indicated his interest in improving operations

here on the Arsenal by suggesting a decontamination procedure for equipment being refurbished for which he received \$15. His suggestion resulted in an RSA Instruction being established and issued.

Harding T. Brittain of Fabrication Lab suggested a fixture for assembling the metal skin to the missile. This fixture resulted in better quality and efficient assembly.

Twelve checks in the amount of ten dollars each were presented to the following: Henry L. Strong, Payroll Section; Fred L. Moffitt, GMDD; John R. McCormick, Management Office, OML; Andre G. Fagan, Launching and Handling; R. D. Driver, Gyro and Stabilizer Design; Edward G. House, Missile Firing Lab, Cocoa, Fla.; Cecil E. Teague, Test Lab, GMDD; Melvin D. Bowman, Cocoa, Fla., (2 checks); Edward B. Berisford, GMDD; Mr. J. D. Pope, Mechanical Lab; and Edgar O. Kinney, Assembly Shop, GMDD.

Of the 539 mules in the Army, two are draft and 537 are pack. The draft mules are at Camp Cooke, Calif. However, the two most famous Army mules—or at least the most televised and publicized—are Army mascots at the U. S. Military Academy, West Point, N. Y.

Raisins for cakes and breads will be plump and juicy if they are soaked in warm water before being added to the batter or dough.

Paper that has become stuck to wood can be removed easily if it is first soaked with a few drops of oil and then rubbed gently with a clean cloth.

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# In 136 Years, Redstone's Sesquicentennial

BY MARY T. CAGLE  
Arsenal Historian

In 1941, after the President of the United States issued the Emergency Proclamation, it became clear to the Ordnance Department that, in the interest of national security, expansion of Ordnance facilities would be necessary in order to assure adequate production of ammunition to meet the time-objective requirements of the General Staff. Included in the initial plans was construction of a chemical shell assembly plant and related facilities.

Meanwhile, it had become apparent to the Chemical Warfare Service that the existing chemical manufacturing plants were not adequate to provide for any potential emergency. Thus, in its expansion program, the Chemical Warfare Service selected a site just outside of Huntsville, Alabama, on which was built a chemical manufacturing plant known as the Huntsville Arsenal.

Realizing the economy factors involved with a shell-loading plant located near such an arsenal, the Chief of Ordnance dispatched a member of his staff, Major Myron Leedy, to conduct a survey of available sites in the same vicinity. Based on Major Leedy's recommendations, the Chief of Ordnance decided to erect a shell-loading plant on the property adjacent to that of the Huntsville Arsenal.

Early in September 1941, a general plan for the shell-loading plant was prepared and a few weeks later construction funds were approved.

October 6, 1941 saw the arrival of Major Carroll D. Hudson, who had been selected to head the new Ordnance plant. After consulting with the Area Engineer, representatives of the architects, Whitman, Requaardt and Smith, and the prime contractor, Kershaw-Butler, Engineers, Ltd., Major Hudson commenced the final plans for construction of what was to be known as the Redstone Ordnance Plant—named because of the preponderance of red soil.

Upon examining the plant site, Major Hudson found a tract of land consisting of approximately 4,000 acres, located ten miles south of Huntsville, Alabama and adjacent to an extremity of the Huntsville Arsenal. It was a rolling terrain, which had been used for production of cotton, corn, peanuts, and other farm products, as well as grazing land for livestock. There were no roads except for the scraggy trails which served the farmers. The nearest highway was more than two miles from the eastern boundary of the reservation. The closest power facilities and water supply were located at the Huntsville Arsenal. The closest rail transportation at that time was at Farley, Alabama, one and one-half miles from the reservation.

The primary mission of the plant, as established by the Chief of Ordnance, included the loading and assembly of 75 mm. chemical shells, 81 mm. chemical mortar shells, 30-pound chemical bombs, and 105 mm. chemical shells, together with the loading and assembly of burster charges for this ammunition. Accordingly, the layout of original plans called for the construction of two burster-loading and assembly lines; two shell-loading and assembly lines; 24 inert storage warehouses; 30 igloos; 35 finished ammunition magazines; administration and utility buildings; and all necessary utilities.

The first staff officer, Lieutenant William H. Stevens, arrived on October 30, 1941 and was assigned primary duty as Adjutant. The balance of a complement of 14 officers reported over a period of several months, and it was not until the summer of 1942 that the entire quota was filled.

The first building was completed and ready for occupancy on November 11, 1941. This building, a two-story, barracks-type structure, served as temporary Redstone headquarters and was later designated as bachelor officer quarters.

Early in 1942, Major Hudson began to formulate a long-range plan for the employment of women on the ammunition production lines, in the event that manpower should become scarce. The Civil Service Commission in Atlanta, Georgia was contacted and

within a short time examinations were announced for jobs known as "female trainees." At that time, the use of women in such jobs was definitely frowned upon; however, in light of subsequent events and the invaluable contribution that these female trainees made to the all-out war effort, there was no need for Major Hudson to justify his belief or defend his actions. By December 1942, about 40 percent of the personnel working on the ammunition production lines were women.

Meanwhile, the construction program was encountering severe setbacks. The original estimates and appropriations for plant construction had been made prior to selection of the building site, and therefore, all figures were based on the supposition that the terrain would be level. The overall cost of construction increased almost two million dollars over the original estimate because of the rolling nature of the terrain, much of which was entirely unsuitable for road construction. In addition construction work was slowed down and often completely stopped during the winter months because of extremely cold and rainy weather. Temperatures ranging from 2 to 27 degrees above zero made it impossible to pour concrete and generally retarded other construction activity. Until access roads were graveled, heavy rains would stop all traffic and therefore all construction work. These were only a few of the hardships experienced by construction crews throughout the winter of 1941-42.

Then came Pearl Harbor. At this time, the ammunition production lines had not been completed, arsenal administrators were still in the process of establishing a workable organization, and the total arsenal strength was less than nine civilians and three officers.

Construction work was immediately placed on a 24-hour basis instead of the former one-shift operation, and the personnel recruitment program was greatly accelerated as well as all other phases of organizational development. It was a race against time; a race between the grim determination of a group of loyal men and women, and the greatest demand for production of war equipment the country had ever known.

The Redstone Ordnance Plant was officially activated by War Department orders on February 5, 1942. During the same month, the commanding officer of the

plant, Major Carroll D. Hudson, was promoted to the rank of lieutenant colonel.

By March 28, 1942, when the first production line was ready for operation, the civilian strength had climbed to a total of 269. With a production quota of 50,000 ammunition units facing the plant for the month of March 1942, Line No. 1 began operation on March 28, and during the three remaining days produced 55,202 units.

The project as originally planned was substantially complete in the summer of 1942. By the end of December 1942, most of the ammunition production lines were in operation, the organization was functioning smoothly, and the number of civilian employees had grown from 269 to 1,666.

On February 26, 1943, the Redstone Ordnance Plant was redesignated as Redstone Arsenal. In February of the following year, Lieutenant Colonel Carroll D. Hudson received his promotion to the rank of colonel.

During the years of World War II, ending in September 1945, Colonel Hudson directed the arsenal's development into one of the best-equipped Ordnance manufacturing centers in the nation. At the height of production operations, arsenal personnel including construction workers approximated 7500. In spite of the dangerous and complicated nature of its mission, Redstone Arsenal maintained one of the highest records in industry and never failed to meet a production quota.

For their outstanding services and high achievements in the manufacture of war equipment, Redstone employees received the coveted Army-Navy "E" Production Award five times. These awards were not easily won, nor were they lightly bestowed, and to this day they are regarded with deep pride by the gallant men and women who earned them.

Work at Redstone Arsenal during the war years included the manufacture and loading of high explosive bursters for chemically filled artillery shells and bombs; manufacture of demolition blocks for combat engineers and paratroopers; loading and assembly of medium and major caliber artillery ammunition and rifle grenades. Colored smoke rifle grenades and artillery projectiles, up to and including 155mm, were regular items of production. The technique of mass production of tetrytol was perfected at Redstone Arsenal. Tetrytol, a high ex-

plosive binary mix, was used in the loading of certain bursters, boosters and demolition blocks.

At the end of the war, Redstone Arsenal was one of the few remaining industrial arsenals being operated with Government personnel.

Following the cessation of hostilities early in August 1945, activities at both the Huntsville Arsenal and Redstone Arsenal were greatly curtailed. At Redstone, all ammunition schedules were cancelled and production ceased on August 17, 1945.

The demobilization and readjustment activities were set in motion immediately following V-J Day, September 2, 1945. The operating buildings and equipment on all production lines were placed in standby condition; contracts amounting to more than four and a half million dollars were cancelled; public property not required for normal standby operations was declared surplus; and large quantities of ammunition were placed in long-term storage.

By early 1946, the reduction in force and primary readjustment of arsenal activities to a peacetime basis had been accomplished. The standby organization consisted of from three to six officers and from 200 to 250 civilian employees.

The arsenal's main task during the standby period was the reconditioning of Ordnance chemical ammunition returned from overseas. About half of the peacetime crew was engaged in the administration, protection and maintenance of the arsenal as a standby facility, so that it could be put into full capacity production in the shortest possible time, if necessary.

Colonel Carroll D. Hudson remained in command of Redstone Arsenal until March 15, 1946. Major Edwin J. Grayson served as interim commander from March 15, 1946 to April 23, 1946.

Colonel Duncan G. McGregor assumed command of the arsenal on April 23, 1946 and served in this capacity until July 28, 1947. Captain Louie Miller, Jr., was in temporary command until August 4, 1947.

Lieutenant Colonel James O. Branch assumed command of the arsenal on August 4, 1947 and was relieved of this assignment on September 11, 1948. Captain Vernon W. Morgan served as interim commander until the return of Colonel Carroll D. Hudson in November 1948.

During the post-war years prior to 1949, when the Army Ordnance guided missile program was still being conducted from the Pentagon, the Rocket program had progressed to a point where a permanent field establishment was needed. During the summer of 1948, an extensive survey was made of all available Ordnance installations, including Redstone Arsenal which was then in standby status. From this survey, it was determined that Redstone Arsenal had suitable land and facilities to permit activation for rocket research and development at an earlier date and at less cost than any other available facility.

Colonel Carroll D. Hudson was relieved of his overseas assignment with the Ryukyus Command and returned to Redstone Arsenal on November 30, 1948 to begin his second tour as arsenal commander.

Early in December 1948, the Chief of Ordnance, Major General E. S. Hughes, officially designated Redstone Arsenal as a center for Ordnance Department research and development activities pertaining to rockets and related items.

Redstone Arsenal officially came back to life on June 1, 1949, when it was once again declared an active arsenal. The new mission was established in Ordnance Department orders dated July 18, 1949. Briefly, the mission included operation of facilities for the research and development of rockets and related items; maintenance of the chemical ammunition loading plant in a standby condition; and operation of facilities for the storage, maintenance and handling of ammunition items.

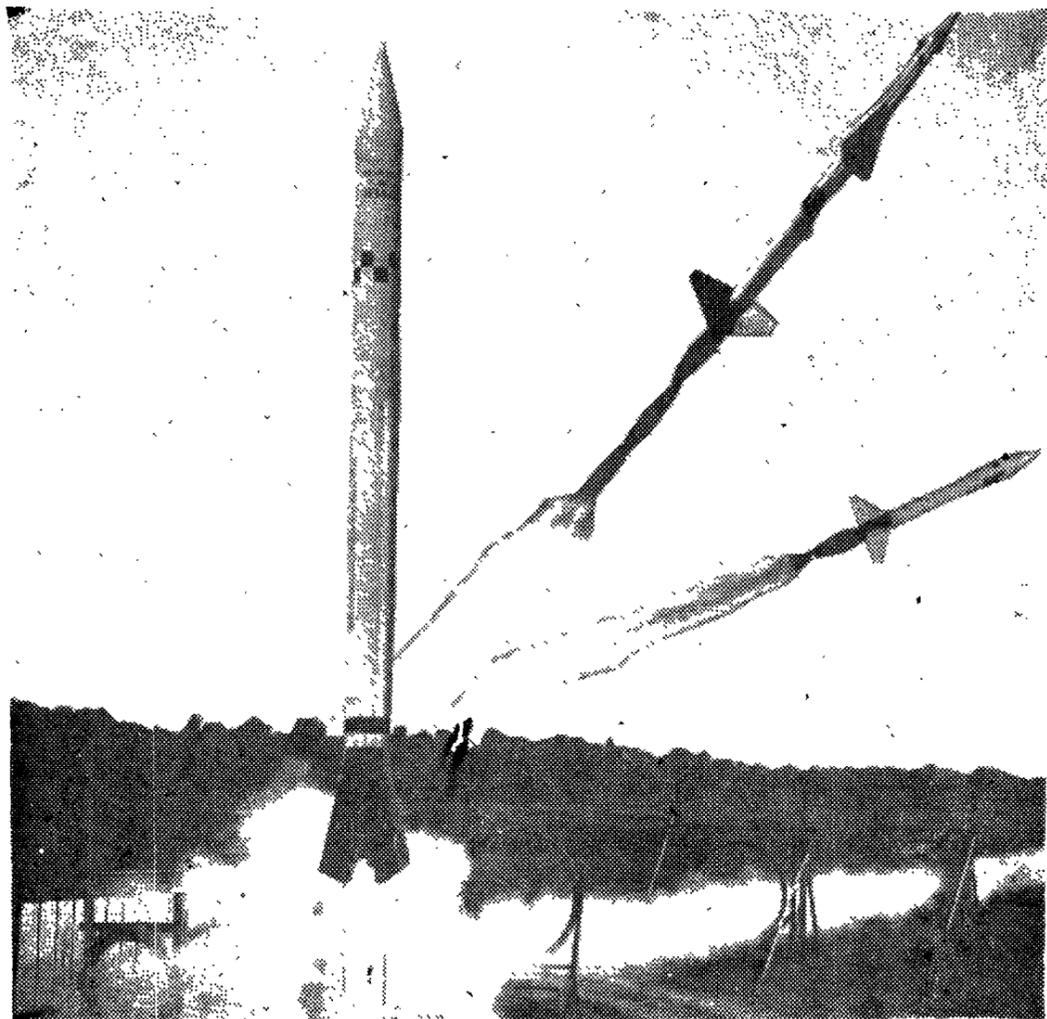
For about one year, or until November 1, 1949, the command responsibility for the arsenal rested with the Commanding General, Third Army. It was during this period that the initial technical staff of the Ordnance Rocket Center was formed. (This activity is now known as the Rocket Development Division of the Ordnance Missile Laboratories.)

The Thiokol Corporation, under contract with the Ordnance Department to perform research and development work on rocket propellants, was moved from Elkton, Maryland to Redstone Arsenal. The facilities of Line 1, formerly used for assembly of chemical ammunition, were remodeled and turned over to this activity, which is now known as the Redstone Division of the Thiokol Chemical Corporation. The Thiokol administration building, a brick-veneer structure costing approximately \$170,000, was completed and ready for occupancy in October 1951.

Meanwhile, a contract was negotiated with the Rohm & Haas Company of Philadelphia, Pennsylvania, for the performance of research and development work in the field of solid propellants. Lines 3 and 4 were remodeled for use by this activity, which is now known as the Redstone Arsenal Research Division of the Rohm & Haas Company. The Josiah Gorgas Laboratory, constructed by the Government for use by the Rohm & Haas Company, was completed in February 1952. This million dollar research laboratory, one of the most modern in the entire south, was named in honor of Josiah Gorgas, the Confederate brigadier general who achieved Civil War production miracles as chief of ordnance.

Late in 1948, the Chemical Corps decided to abandon its facilities at the Huntsville Arsenal and the property was advertised for lease. Late in 1949, however, decision was made to consolidate the Huntsville Arsenal area with that of Redstone Arsenal, to be used as an Ordnance Guided Missile Center, which was then being considered as an additional Redstone mission. The consolidation of the two arsenals was made official on April 1, 1950, at which time the Redstone reservation was expanded to include a ten by 12-mile area, comprising about 40,000 acres.

In September 1949, it was decided that, in the interest of economy and efficiency, the Ordnance Research and Development Division Suboffice (Rocket) should be moved from Fort Bliss, Texas to Redstone Arsenal. The Secretary of the Army gave official approval on October 28, 1949 and the movement directive was issued by the General Staff on March 21, (Please turn the page)



SYMBOLIC OF REDSTONE ARSENAL—Embodying the arsenal's permanent role as the center for both rockets and guided missiles are (left to right): the Corporal and Nike missiles, and the Honest John rocket. A rocket blazes a trail across one of the arsenal's test ranges at the bottom of the picture.

**ARSENAL HISTORY**

(Continued From Page One)

1950. Shortly after this, Major James P. Hamill, officer-in-charge of the activity at Fort Bliss arrived with an advance detachment and on April 15, 1950, the Ordnance Guided Missile Center was officially established. (This activity is now known as the Guided Missile Development Division of the Ordnance Missile Laboratories.)

The movement of this activity from Fort Bliss, Texas involved the transfer of general supplies and extensive scientific laboratory equipment, as well as an operating staff of 500 military personnel, 130 German-born scientists, 180 General Electric Company contractor employees, and about 120 Civil Service employees. The primary mission of the Ordnance Guided Missile Center was to serve as the Ordnance center for research and development of guided missiles, including component and systems development in the fields of aerodynamics, guidance and control, propulsion assembly techniques, transport, test and launching.

During the summer of 1950, work was started on a four million dollar construction program, which was to provide the initial research and development requirements for the expanded arsenal mission.

Early in 1951, the Ordnance Corps began a training program for personnel in the guided missile field, and decision was made to establish a service school for this purpose at Redstone Arsenal. The Provisional Redstone Ordnance School was officially established on March 3, 1952. In December of the same year, this activity was redesignated as the Ordnance Guided Missile School, a Class II Activity located at Redstone Arsenal and operated under the jurisdiction of the Chief of Ordnance. On August 11, 1953, the school was placed under jurisdiction of The Ordnance Training Command.

In August 1951, the Field Service Division and National Procurement Division (now Industrial Division) were activated at Redstone Arsenal. These national mission agencies were assigned responsibility for field service and procurement activities in connec-

tion with guided missiles and rockets on a nation-wide basis.

Colonel Carroll D. Hudson concluded his second tour as arsenal commander on May 7, 1952. From May 8 to June 15, 1952, the arsenal was under temporary command of the ranking officer present for duty.

Brigadier General Thomas K. Vincent, the first general officer ever to be in command of Redstone Arsenal, assumed duties as commanding general on June 16, 1952.

\* \* \*

The mushrooming expansion from a standby ammunition plant to a permanent arsenal engaged in a radically new field, created many new and complex problems for the arsenal. Some of these problems concerned adequate housing for incoming military and civilian personnel; wage stabilization; adequate research and professional personnel; and the establishment of adequate support facilities to provide for troop morale and welfare.

When Colonel Hudson began his second tour as commanding officer on November 30, 1948, he found the arsenal much the same as he had left it in March 1946. The installation was still in standby status, with only 245 civilian and less than 10 military personnel on the rolls. In order to carry out the complex assignments of the new mission, it was necessary to establish a new organization with a staff of clerical and administrative personnel, in addition to a special staff of physicists, chemists, metallurgists, mathematicians and other technical and professional personnel in about fifteen different engineering fields. By the end of 1949, the arsenal had been completely reorganized and the operating strength had climbed to a total of 698 civilian and 342 military personnel. During the next several years the arsenal strength continued to expand as the assigned mission broadened in scope. During calendar year 1954 the average arsenal strength reached an all-time high of 7,087 military and civilian personnel, excluding contractor employees.

The Redstone Arsenal payroll for calendar year 1954 totaled more than 33 million dollars, an increase of more than four mil-

lion dollars over that of the previous year. The total gross pay to all personnel in 1954 was about \$33,878,637. This included pay to Civil Service and contractor employees and military personnel.

The close of the calendar year found Redstone Arsenal in the middle of its biggest construction boom since the early days of World War II. Construction work amounting to approximately \$23,250,000 was either started, in progress, or completed during 1954. Construction projects in progress during the current year include new buildings for the Ordnance Guided Missile School; a research and development engineering building, which will cost approximately \$3,637,000 and have a floor area of about 200,000 square feet; a guidance and control building for the Guided Missile Development Division which will cost approximately \$2,000,000; and many other facilities smaller in size, but nevertheless important to the arsenal mission.

The year 1954 brought the sixth and most recent change in arsenal commanders. Brigadier General H. N. Toftoy assumed command of Redstone Arsenal on Sept. 1, 1954. He succeeded Brigadier General Thomas K. Vincent, who retired from the Army on August 31, 1954.

General Toftoy has been a key figure in the Army's rocket and guided missile program since its inception. He became interested in rocketry during World War II, and after being ordered to the Pentagon to take charge of the development of rockets and guided missiles, he personally carried the load of "selling" the Army on the idea of a progressive guided missile program and sparking the development of these revolutionary new weapons. This has earned him the title of "Mr. Missile" throughout the Army.

Under Gen. Toftoy's direction the super bazooka, Nike, Corporal, Honest John, and other rocket weapons were developed. He was also responsible for a number of experimental rockets including the two-stage Bumper launched at White Sands Proving Ground, N. M., which in 1949 flew outside the earth's atmosphere and set altitude and velocity records which still stand. In addition, he obtained authority to select and bring to the United States a group of outstanding German scientists to contribute their experience to the missile program. The majority of these former German V-2 scientists are still engaged in important work at Redstone Arsenal.

General Toftoy came to Redstone as a colonel in May 1952, and was appointed director of the

Ordnance Missile Laboratories, remaining in this assignment until shortly before assuming command of the arsenal.

He was promoted to the rank of brigadier general on November 1, 1952, and had the distinction of being the first officer to be appointed to such rank while serving at Redstone. His appointment marked still another first for Redstone, as it was the first time in arsenal history that two general officers had been stationed here.

As the Commodity Arsenal for rockets and guided missiles, Redstone's primary objective is to control and supervise the research, development, and production of rockets and guided missiles for the entire Army. In addition, Redstone is responsible for the storage, issue, and maintenance of these new weapons, and the training of Ordnance specialists which accompany and support the using troops in the field. The magnitude and intricate nature of the operations of the Army's guided missile and rocket control and coordination center necessitates expenditure of millions of dollars annually throughout the nation.

Redstone Arsenal now has five national agencies, including the recently established Research and Development Division. The primary objective of this new mission agency is to control and supervise rocket and guided missile projects under contract for development by major industrial firms throughout the country. The other national mission agencies are the Field Service Division, Industrial Division, Ordnance Missile Laboratories, and Ordnance Guided Missile School.

Although Redstone Arsenal is now mainly in the rocket and

guided missile business, the Ammunition Division production lines are still contributing heavily to the country's defense program. The ammunition lines have been in operation since the beginning of World War II; however, between 1945 and 1950, most of the work consisted of reconditioning Ordnance ammunition returned from overseas. Production of new explosive items got underway again when the Korean conflict broke out in June 1950. Among the major items now being produced are mortar shells, 3.5 inch rockets, 105 and 155 mm shells, and 81mm illuminating shells.

Another important mission agency located here is the Redstone Depot. This activity receives, stores, and ships a large volume of ammunition, Ordnance general supply items, industrial reserve machine tools, and strategic and critical raw materials.

\* \* \*

Today, Redstone Arsenal is the nerve center not only for the research and development of rockets and guided missiles, but also for the procurement, storage and repair of the entire family of Army Ordnance missiles. Redstone Arsenal is one of eight permanent Ordnance Corps arsenals, and is the only one devoted exclusively to the guided missile program. From the scientists and technicians at Redstone, decisions affecting the missile program are sent daily to all parts of the country, and policies are determined which will effect the development and production of rockets and missiles for years to come.

Regular Army lieutenants are now required to take either ranger or airborne training.



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**FEDERAL EMPLOYEES' GROUP LIFE INSURANCE ACT OF 1945 CLARIFIED**

BY C. L. BARRINEAU

**BENEFITS PAYABLE UNDER THE FEDERAL EMPLOYEES GROUP LIFE INSURANCE ACT OF 1954**

Because of the many recent inquiries at the Civilian Personnel Office regarding the benefits payable under the Federal Employees Group Life Insurance Policies, the following is published for the information of all arsenal employees subject to the insurance:

The death benefit is payable regardless of the cause of death and is always the amount for which the employee is insured on the date that his death occurs.

The accidental death benefit payable is always the amount for which the employee is insured on the date that the accident resulting in his death occurs. This benefit is payable in addition to the regular death benefit. Note, however, that these are separate benefits and that the accidental death benefit depends upon the amount of insurance carried by the employee on the date of the accident while the regular death benefit depends upon the amount of insurance in force on the date of death. Thus, where the amount of insurance carried by an employee changed between the date he had an accident and the date of his death resulting from that accident, each benefit would be in a different amount.

The accidental dismemberment benefit is payable only upon the losses stated in the schedule following. The amount of this benefit depends on the amount for which the employee is insured on the date the accident occurs, and the extent of the loss according to the following schedule:

**Schedule of Losses**

Extent of loss	Percentage of Insurance Payable
Sight of both eyes	100
Sight of 1 eye	50
Both hands	100
1 hand	50
Both feet	100
1 foot	50
1 hand and 1 foot	100
1 hand or 1 foot and sight of 1 eye	100
Loss of sight means total and permanent loss of sight.	
Loss of hand means loss by severance at or above the wrist joint.	
Loss of foot means loss by severance at or above the ankle joint.	

If, as a result of a single accident, an employee sustains more than one of the losses no more than the amount for which he is insured is payable. For example, if in one accident an employee loses one hand and the sight of both eyes, the maximum benefit will be 100 percent of the amount for which he is insured. However, the benefit payable for any accident is based on the loss occurring from that accident, so that if an employee who had already lost the sight of one eye had an accident which resulted in the loss of sight of the other eye, the benefit for the latest accident would be for the loss of sight of one eye.

There is no limitation on the number of times a benefit for accidental losses resulting from different accidents is payable. Thus an employee can be paid for the accidental loss of sight of one eye and if later, as a result of another accident, he loses both hands, he can be paid the full benefit for the second loss.

"Accidental," as used in the terms "accidental death" and "accidental dismemberment," means a loss resulting from bodily injuries incurred solely through violent, external, and accidental means within 90 days after the date the accident occurred. This term does not include a loss if—

1. Caused wholly or partly, directly or indirectly, by disease or bodily or mental infirmity, or by

medical or surgical treatment or diagnosis thereof.

2. Caused wholly or partly, directly or indirectly, by ptomaine or bacterial infection, except only septic infection of and through a visible wound sustained solely through violent, external and accidental means.

3. Caused wholly or partly, directly or indirectly, by hernia, no matter how or when sustained.

4. Caused directly or indirectly by insurrection, war, or any act of war, including, but not limited to, any war declared or undeclared, and armed aggression resisted by the armed forces of any country, international organization, or combination of countries.

5. Caused by or resulting from intentional self-destruction or intentionally self-inflicted injury, while sane or insane.

Note that the loss, whether it is dismemberment or death, must occur within 90 days after the accident so that if an employee is injured on March 1, 1956, and if as a result of that injury it becomes necessary to amputate his foot but the amputation does not occur until May 31, 1956, no benefit will be payable—the loss having occurred one day too late.

Patches of dirt that are hard to remove from floors will come up easily if rubbed with fine steel wool that has been moistened with turpentine.

\* \* \*

Fresh eggs are usually rough and dull in appearance. Smooth and shiny eggs are old.



**EDDIE AND FREDDIE**—This team will soon be no more as demonstrators for dance instruction at the Post Service Club. Sgt. Eddie DiPolvere is soon to revert to civilian status which will only leave Miss Freddie Hancock, the popular junior hostess, and she can't dance alone. Dance instructor DiPolvere has been at it a long time. Now the recreation directors are looking for a replacement. (Photo by Wesley Swift).



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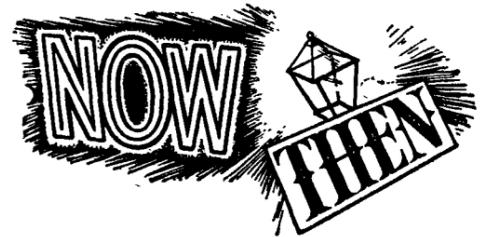


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