



BOTTLED UP IN WORK—Henry Nappier seems to be all bottled up in his hobby. Actually he's behind and looking through that big glass bulb which is used as a gas reservoir.

Young Man Carves Unique Niche By Blowing Bubbles

The Army Missile Command is the sort of place where a young man can carve a niche for himself by spending half of his time in pursuit of advanced science and the other half practicing one of the world's oldest arts.

The young man is Henry (Hank) Nappier whose unusual hobby has led him to become an assistant to a number of PhDs.

Nappier is a scientific glass blower. He prefers to call himself a glass technician. That is, he is a glass technician about half the time. The other half he is a physical sciences technician with a specialty in vacuum techniques and spectroscopy. This last field is the study of a material by analysis of the light it gives off when super heated. For example, the blue light of heated mercury finds prac-

tical use in street lights.

It's his glass blowing ability that makes Nappier sought after. There is only one other professional glass blower in Huntsville, a town loaded with unique talents.

As a scientific glass blower, the slender craftsman turns molten glass into intricate pieces of laboratory equipment. Often these pieces are so complicated they look like a cross between a glass French horn and a coffee percolator. They are studded with valves, tubes, collars, bulbs and the like.

In his 36 years Nappier has never moved away from Brindlee Mountain, a rocky highland overlooking the broad Tennessee Valley and the winding Tennessee River which forms the south boundary of Redstone Arsenal.

As a boy growing up on the farm, Nappier was always interested in glass and especially the way a glass prism breaks light into its multi-colored spectrum.

This interest led him to toy with glass working in his spare time. It was an unusual hobby for a youth in the cotton country of North Alabama.

Nappier's break came in 1956 when he started working for the Army as a laboratory assistant to Dr. Henry McGhee, a researcher who was doing work in low temperature chemistry. In those days the science of cryogenics was new and much of the laboratory equipment used in studying super-cold gases such as liquid oxygen and hydrogen had to be handmade or custom made at high cost.

(See BUBBLES on Page 3)

**Arsenal-Wide
Spot News
Dial 877-2164**

The Redstone Rocket

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VOL. XII; NO. 28

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

NOVEMBER 20, 1963

Redstone UGF Hits \$205,000 In 1963 Drive

Community Preparing Welcome For Gen. Funk

City, Army and Marshall Center officials have planned a full schedule for the officer who heads our military space program when he visits here next week.

Maj. Gen. Ben I. Funk, Commander of the Space Systems Division, Air Force Systems Command, will be here Monday and Tuesday. He makes a major address to the annual meeting of the Tennessee Valley Post of the American Ordnance Assn. Tuesday evening.

Gen. Funk, Brig. Gen. Joseph S. Bleymaier, his system program director; Col. Donald H. Heaton, assistant for NASA programs; Col. Robert W. Hoffman, deputy for engineering, and Lt. Col. Kenton D. McFarland, director of information, are scheduled to arrive at Redstone Arsenal air strip at 5:30 p.m. Monday. David Newby, president of the AOA chapter, and Lt. Col. Ralph A. Newman, Air

Force Liaison Officer here, will meet them.

Monday evening the Huntsville Industrial Expansion Committee will host an event for Gen. Funk and his party at the Holiday Inn. Time has also been allotted on the General's schedule for an auto tour of the Research Park Tuesday afternoon.

Tuesday morning Gen. Funk will meet Brig. Gen. John G. Zierdt, Commanding General of the Missile Command, and visit the Army Missile Command for briefings on research and development activities and a tour of facilities of the Directorate of Procurement and Production. He will also get a classified presentation on the Nike X anti-missile system.

Later in the morning, he will travel to the Marshall Space Flight Center for detailed presentations on the Saturn launch vehicle program, the nuclear pro-

AFGE REELECTS DENNIS GARRISON

Incumbent Dennis Garrison was sworn in Thursday evening as president of local Lodge 1858, American Federation of Government Employees, after union members re-elected him Monday.

Other officers elected to serve with Garrison include:

Ernest Jackson, assistant president; J. Winton Moore, executive vice president; Rogert Hodgdon,

(Picture on Page 3)

vice president for the Army Missile Command; Raymond Swaim, vice president, Army Missile Support Command; James C. Light, vice president, Ordnance Guided Missile School; and Burlin Hicks, vice president, Marshall Space Flight Center.

Lester Mitchell was elected secretary. Other officers elected are Thomas Childers, treasurer, and J. L. McCutcheon, sergeant at arms. Garrison defeated Charles Hendrix and Glenn Test, both former presidents, for the highest local

Although the 1963 Redstone Arsenal United Givers Fund campaign was officially closed on the first of the month the contributions have continued to flow in boosting the total collections over \$200,000.

Bank deposits Friday were \$205,632. This is the total amount collected for all of the county organizations participating in the drive on base.

James J. Fagan, chairman of the 1963 drive, stated that all of the collections have been deposited in

the post branch of the First National Bank of Huntsville, in accounts set up individually for the various county agencies.

Within the next few days all of the accounts will be closed and a cashiers' check forwarded to the participating counties for the total amount contributed to the respective county fund collecting agency.

The turn-ins last week increased the employee participation in the campaign to 97 per cent with eleven of the 21 reporting agencies boasting 100 per cent.

The latest report lists 97 per cent of the 12,395 personnel in the Army organizations and contractor facilities as contributors to the drive. The average contribution is \$17.30. Almost 70 per cent of the participants contributed a fair share.

Organizations that reached 100 per cent in participation since the last report are: Supply and Maintenance, Procurement and Production, Research and Development and the Ordnance Guided Missile School.

These four agencies are by far

Six Complete Hawk Course

Six men from the Army Missile Command have completed a course on the Hawk Missile System's training simulator at the contractor's plant in College Point, N. Y.

Receiving diplomas after successfully completing the six week course at Belock Instrument Corp. were S/Sgt. Robert Edge, S/Sgt. Harry Edmiston, Clinton A. Baner, C. J. Bartkoviak, William A. Horne and James Pierce.

The device is designed to give Hawk crews training in operating the system by electronically simulating an actual engagement.

Civic Leaders Tour, Hear Missile Talk, See Films

"You know, I think I will rush straight home and build one of these."

This was the reaction of a North Alabama official last week who was viewing a piece of complicated equipment while on a tour of Army facilities at Redstone Arsenal.

Speaking in jest, naturally, the official was one of a group of 22 leading civic officials from North Alabama and Tennessee who were guests for a day at the Army Missile Command.

The "one of these" the official laughingly referred to was a complete Hawk missile unit which the group saw at the Army Ordnance Guided Missile School.

While visiting here, the group of mayors and county commissioners received a general orientation on functions of the Missile Command and OGMS and toured

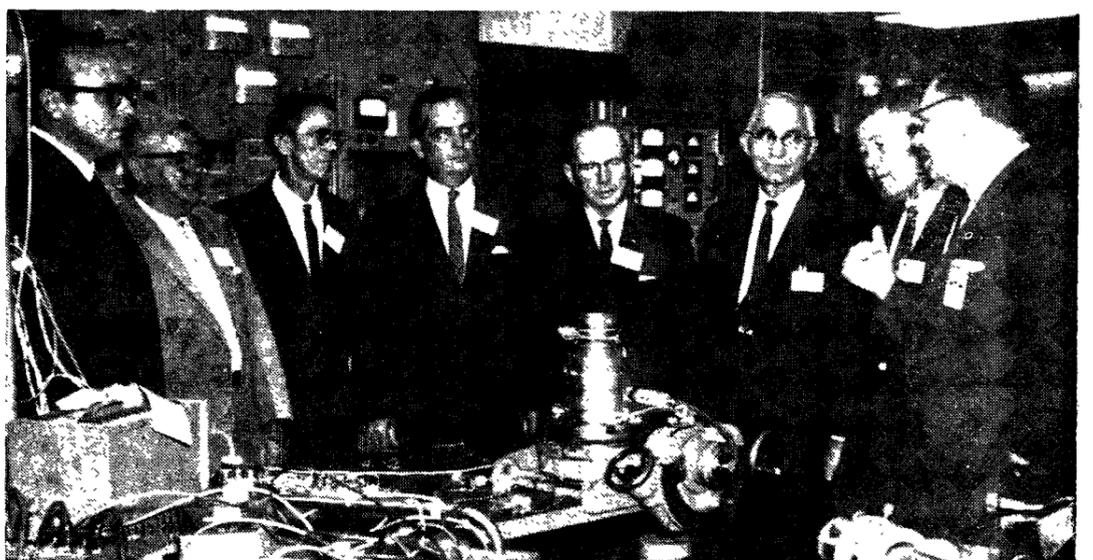
the Army Inertial Guidance and Control Laboratory of the Directorate of Research and Development.

Brig. Gen. John G. Zierdt, Commanding General of the Army Missile Command, welcomed the group and reminded that the Army and civic officials were both working for the good of the community as well as the nation.

"What affects us also affects the community and vice versa," Gen. Zierdt emphasized.

Other briefings included a film on Redstone Arsenal and talks by Col. Thomas W. Cooke, Commander, Army Missile Support Command; Col. David A. Marcelle, finance and accounting officer; and Col. Robert M. Allgeier, Assistant for Intelligence Operations and Security.

Making the tour were Mayor



TOUR REDSTONE—Mayors and other civic officials from North Alabama and Tennessee are shown being briefed on a gyro component by Jim Neumann (far right) as part of their tour of Redstone Arsenal last week. The group, guests for the day of the Army Missile Command, also toured OGMS as well as the Inertial Guidance and Control Laboratory. Left to right: Mayor Ralph Hammond of Arab; Homer McLemore, chairman board of revenue of Limestone County; Max Head, Elkmont city council; Mayor J. B. Hamlin of Fayetteville; Mayor Calvin Forbes of Ardmore, Tenn.; Mayor Arthur Stewart of Athens, Mayor W. G. Peebles of Mooresville and Jim Neumann.

The Redstone Rocket

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Rocket Ruminations

"Till men have been some time free, they know not how to use their freedom."

—Macaulay

Salute!

Third Army celebrated its 45th anniversary on Nov. 15.

Lt. Gen. Albert Watson, II, Commanding General of Third Army issued a proclamation to the members of the Third United States Army, extending congratulations and best wishes.

He said, "Since its founding in France at the close of World War I, the Third Army has established an impressive record in both war and peace. Its magnificent record in Europe during War II—the breakthrough in Normandy, the piercing of the Siegfried Line, the crossing of the Rhine, and the drive into Czechoslovakia—will long be recounted in military history."

Third Army was organized to take over the American zone of occupation of a conquered Germany at the close of World War I. It was made up of battle-seasoned veterans from the Aisne-Marne Campaign, the Somme Offensive and the St. Mihiel Campaign.

In World War II, Gen. George S. Patton, Jr., led Third Army in its historic dash across France in the battles of Metz, the Bulge and in the Moselle-Saar triangle.

The Third Army history in peace is equally impressive and dedicated.

The United Nations Holds World Hope

The United Nations is now 18 years old, and, very much like a "teen-ager," it shows signs of approaching maturity. Not quite yet the man, but no longer the infant.

While much publicity has been given to some of the less successful actions of the United Nations, its many positive achievements and its vast potential for good frequently get lost in the "hot" debate on the Assembly floor. However, it has been said by many world statesmen that "The United Nations is the hope of the world."

The UN's Atomic Agency aims to promote the peaceful uses of atomic energy.

Its International Labor Organization aims to promote social justice, improve labor conditions and living standards, and promote economic stability.

Its Farm and Agriculture Organization aims to raise nutrition levels and living standards and improve production and distribution of food and agriculture products.

Its Education, Health and Aviation Organizations have equally high aims for improving world conditions.

Most of these organizations are accomplishing their purposes without fanfare.

And perhaps, primarily for providing these humanitarian organizations, as well as providing the chance for friends and potential enemies to meet face-to-face, the United Nations must be judged a success.

So it is up to the world, to encourage the hope of peace and the "hope of the World"—the United Nations. (AFPS)

Adm. Jackson Tells ROA 'Washington Is Changing'

"... Great changes are taking place in Washington today."

This was the opinion set forth by Adm. Alexander Jackson, USN (Ret.), who was guest speaker last week at the monthly meeting of the Huntsville chapter of the Reserve Officers Association. He spoke about the problems facing the military services. The Admiral is a native of Tuscumbia.

Maj. Cecil E. Hammett USAR (Ret.) was master of ceremonies for the occasion which was held in the Redstone Arsenal Officers Club. Hammett is president of the Huntsville chapter.

Lt. John E. Harris USN (Ret.) presented Jackson with a model of the Lance missile.

Lt. Col. Lorren Perdue, president of the Alabama Department of the ROA, presented a citation to Brig. Gen. Lewis C. Pattillo (Ret.), for over 40 years of outstanding service as a citizen soldier.

Among the guests were Mayor and Mrs. R. B. Searcy of Huntsville; Col. Perdue, USAFR, of Montgomery and Mrs. Perdue; Col. Harry C. McClain, post surgeon of Redstone Arsenal, and Mrs. McClain; Gen. Lewis C. Pattillo, USAR, and Mrs. Pattillo of Hartselle.

TO HOLD OPEN HOUSE

The Rocket City Astronomical Association will hold open house at their observatory on Monte Sano on Friday, Nov. 22, starting at 5:15 p.m. Mark W. Bentley will be in charge. Observers will see the first quarter of the moon. The public is invited.

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Committee Proposes Pay Change For Employees

Pay raises running between three and 22 per cent for 1.8 million Federal employees were approved last week by the House Post Office and Civil Service Commission.

The bill represents a compromise between a bill co-sponsored by Rep. Udall and Rep. Joel T. Broyhill, R-Va., and one backed by Rep. James H. Morrison, D-La. Rep. Morrison would have provided higher increases at the lower levels and the Udall-Broyhill

bill would have given the upper levels more.

Among the classified workers, no one would get less than three percent with the average increase rising with the grade level to about 22 per cent—or \$4,500 a year—at the GS-18 level.

Rep. Udall said the bill has a 50-50 chance of passage by "this economy-minded Congress."

If any pay raise is voted, it will be in addition to that voted last year.

PROPOSED CLASSIFIED PAY SCALES

Grade	Per Annum Rates and Steps									
	1	2	3	4	5	6	7	8	9	10
GS-1	\$3,385	\$3,500	\$3,615	\$3,730	\$3,845	\$3,960	\$4,075	\$4,190	\$4,305	\$4,420
GS-2	3,680	3,805	3,930	4,055	4,180	4,305	4,430	4,555	4,680	4,805
GS-3	4,005	4,140	4,275	4,410	4,545	4,680	4,815	4,950	5,085	5,220
GS-4	4,480	4,630	4,780	4,930	5,080	5,230	5,380	5,530	5,680	5,830
GS-5	5,000	5,165	5,330	5,495	5,660	5,825	5,990	6,155	6,320	6,485
GS-6	5,505	5,690	5,875	6,060	6,245	6,430	6,615	6,800	6,985	7,170
GS-7	6,050	6,250	6,450	6,650	6,850	7,050	7,250	7,450	7,650	7,850
GS-8	6,630	6,850	7,070	7,290	7,510	7,730	7,950	8,170	8,390	8,610
GS-9	7,210	7,455	7,700	7,945	8,190	8,435	8,680	8,925	9,170	9,415
GS-10	7,840	8,110	8,380	8,650	8,920	9,190	9,460	9,730	10,000	10,270
GS-11	8,550	8,845	9,140	9,435	9,730	10,025	10,320	10,615	10,910	11,205
GS-12	10,200	10,555	10,910	11,265	11,620	11,975	12,330	12,685	13,040	13,395
GS-13	12,075	12,495	12,915	13,335	13,755	14,175	14,595	15,015	15,435	15,855
GS-14	14,170	14,660	15,150	15,640	16,130	16,620	17,110	17,600	18,090	18,580
GS-15	16,460	17,030	17,600	18,170	18,740	19,310	19,880	20,450	21,020	21,590
GS-16	18,935	19,590	20,245	20,900	21,555	22,210	22,865	23,520	24,175	
GS-17	21,445	22,195	22,945	23,695	24,445					
GS-18	24,500									

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AFGE OFFICERS SWORN—(Left to right): Don Lakey, chairman of the Election Committee for the American Federation of Government Employees, administers the oath to the newly elected officers for the largest lodge in the United States, Local 1858 in Huntsville. The Officers are Dennis Garrison, president; J. Winton Moore, executive vice president; Roger Hodgdon, vice president for Army Missile Command; Lester Mitchell, secretary; Burlin Hicks, vice president, Marshall Space Flight Center; Tom Childers, secretary; Raymond Swaim, vice president, Army Missile Support Command, and J. L. McCutcheon, sergeant at Arms. Earnest Jackson, assistant president and James C. Light, vice president, Ordnance Guided Missile School are not pictured.

	% Pledged	% Collected	% Participated	% Fair Share
Office of CG	103	100	100	100
Chief of Staff (incl. C&DP and staff offices)	76	97	93	60
DCG, Air Defense	91	100	100	82
DCG, Land Combat	101	100	100	100
S & M	100	100	100	93
P & P	95	98	100	84
R & D	89	99	100	78
Missile Intel.	49	90	100	20
Hawk	77	92	87	58
Hercules	95	100	100	87
Lance	100	100	100	88
Mauler	99	100	100	93
Pershing	80	97	97	66
Sergeant	76	97	98	60
Zeus	92	94	99	90
Shillelagh	86	86	94	78
AMSC	75	99	96	62
OGMS	81	106	100	71
Area Engineers	51	100	97	26
Thiokol	84	100	86	54
Rohm & Haas	104	100	82	52
Tot. Amount Pledged			\$206,354	
Tot. Amount Collected			\$205,632	

GARRISON
(Continued From Page 1)

lodge post. All those elected had opposition except Jackson and Light. James Holland, a national AFGE representative assigned to Huntsville, swore the new officers in Thursday evening in ceremonies at the Plantation Restaurant. Due to more than 51 per cent of their eligible employees belonging to the union, several agencies at Redstone have granted recognition to the union. Just prior to the election, Garrison announced plans to increase dues for lodge members in order to provide a full time office staff downtown; retain an attorney and give better representation in Washington, D. C. He also announced plans for a massive recruiting drive to be launched in January. President Kennedy has directed that federal agencies deduct union dues from the payroll of those union members who ask for it, effective in January.

BUBBLES
(Continued From Page 1)

Reasoned Dr. McGhee and Nappier, since the latter was interested in glass blowing as a hobby maybe this hobby could be put to use in the laboratory to save money, it could also save on the time it took to get a piece of custom made equipment. Since that time Nappier has been sort of an ex-officio glass blower in residence. At one time and another he has produced intricate glass items for most of the Missile Command's laboratories. But, most of his work goes into his own Physical Sciences Laboratory which is part of the Missile Command's Directorate of Research and Development. Glass is used extensively in laboratory work because of its non-corrosive and non-contaminative properties. Researchers with need for a specific piece of equipment come to Nappier and lay out their ideas in words and sketches. From there it is Nappier's job

to translate these into glass. Many pieces turn out interesting enough and pretty enough that if they weren't for use in the lab they could grace the centerpiece of a dining table. Nappier, in his off time, also makes the more fanciful pieces of glass, including etched glass vases and decorator items. A practical joker, he is now planning an elaborate drinking glass with a garland of flowers just under the lip. Unfortunately the petals of the flower will cover minute holes in the glass that dribble on the drinker when he hoists the glass to his lips. And, every 4th of July, Nappier happily turns up at Brindlee Mountain's Union Hill High School with his glass blowing equipment to make glass novelties for sale. For example, he spins a graceful, three-inch long bright colored swan in about two minutes. The money he gets from these items goes to a fund to buy equipment for the school.

WELCOME
(Continued From Page 1)

pulsion project and MSFC future projects. Gen. Funk and his party are also scheduled to see Saturn vehicles in fabrication in MSFC's Manufacturing Engineering Laboratory and tour the Automatic Checkout area in MSFC's Quality and Reliability Assurance Laboratory, as well as Marshall's Test areas. The AOA function at which Gen. Funk is to speak begins at the Squirrel Hill Officers Club at 6 p.m. Approximately 500 members and their guests are expected to attend the event which also features election of officers for the coming year.

LEADERS

(Continued From Page 1)

William R. Griffin and County Commissioner J. D. Moody of Cullman; Tate Pace, Commissioner, and Councilman Paul Campbell of Scottsboro; Homer McLemore chairman County Board of Revenue of Limestone County; Mayor Arthur Stewart of Athens; Mayor W. G. Peebles of Mooresville; Mayor Calvin Forbes of Ardmore, Tenn.; Councilman Max Head of Elkmont; Mayor J. B. Hamlin of Fayetteville; J. T. Adams, Madison County Commissioner; Harvey Eslick, City Councilman, and Walt Linde, representing the Chamber of Commerce of Huntsville; Mayor Ralph Hammond of Arab; Mayor E. G. Winkles and Councilman, L. K. Richardson of Grant;

UGF DRIVE

(Continued From Page 1)

the largest to reach 100 per cent in the drive and collectively represent over 40 per cent of the entire Redstone work force. Reporting agencies that had previously been listed as 100 per centers are: Office of the Commanding General, Office of the DCG, Air Defense, Office of the DCG, Land Combat, Missile Intelligence, and the Hercules, Lance and Mauler Project Offices. J. M. Cochran, Albertville City Clerk; Mayor Frank Amberson of Boaz; Commissioner Glenn Vaughn of Guntersville; Irby L. Lyle of the Fyffe City Council; Guy Roberts, Chairman of the Morgan County Board of Commissioners; and Fred Hunt, Decatur Commissioner.

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STATE SAFETY ENGINEERS AT REDSTONE—Col. W. F. Register, Deputy Commander of Army Missile Support Command, talks shop with two safety engineers during a tour of Redstone Arsenal. On the left is George T. Davis of Birmingham, past chairman of the Alabama Chapter, American Society of Safety Engineers; Jack Haynes, Redstone Arsenal Safety Director; and Eric Collier (right) Chapter chairman, also of Birmingham. The safety engineers held their state-wide meeting in Huntsville recently.



DEFENSE VISITORS AT THIOKOL—John H. Goodloe (right), Thiokol Chemical Corporation's Huntsville Plant Manager, discusses the Army's Pershing ballistic missile and the Thiokol propulsion system which powers it with Dr. J. T. Thurston (center), and Mr. William Sheehan (left) during the visitors briefing at the Corporation's Huntsville Plant. Dr. Thurston, Assistant Director for Chemical Technology, Office of the Director of Defense for Research and Engineering, Department of Defense, and Mr. Sheehan, of the same office, attended a briefing at the Thiokol plant while on a two day visit to Redstone Arsenal as guests of the Army Missile Command.

Brockman Sitting On Panel At Labor Relations Meeting

A labor relations personnel official from the Army Missile Support Command is taking part in an Army-wide seminar on labor management relations in Washington, D. C.

Leonard M. Brockman, special assistant for labor relations will explain "my experience negotiating an agreement," at the meeting.

He will explain his role in negotiating a recent basic agreement between the Army Missile

Support Command at Redstone Arsenal and Lodge No. 1858, American Federation of Government Employees.

The agreement, covering 28 points from welfare activities to employee personnel policies, was signed by Command and union officials.

The agreement stems from Executive Order 10988, which established a program of labor relations cooperation in Federal service and provided that employee

organizations be recognized on informal, formal or exclusive bargaining basis.

Under the agreement which Brockman will explain, Lodge 1858, the largest of its kind within the Federation, will have the right to be consulted in the formation and implementation of personnel policies within AMSC. The Lodge also has the opportunity to be represented at formal grievance discussions between management and employees.

Also attending the seminar to explain the Department of Defense views on labor-management cooperation is Stephen N. Shulman, Deputy Assistant Secretary of Defense.

Other officials present include C. F. Mullaly, Director of Civilian Personnel, who delivered the keynote address, and R. O. Dale Anderson, of the office of the Deputy Chief of Staff for Personnel, at the Department of the Army.

Tulloch and Cobb Tagged Chairmen For Task Groups

Two corrosion-prevention experts from the Army Missile Command's Directorate of Research and Development have been selected as chairmen of two separate task groups by the National Association of Corrosion Engineers.

Stewart B. Tulloch, a chemist in the Directorate's Engineering Requirements Coordination Office, was selected chairman of the task group on ablative materials.

Major task of the group will be to study ablative materials which will resist the eroding effects of rocket exhaust on missile blast deflectors.

Bernie J. Cobb, team leader of the Corrosion Group in the Directorate's Structures and Mechanics Laboratory, was selected chairman of a task group to study requirements for missile painting.

Both task groups will report to committee meetings during the week-long national meeting of the National Association of Corrosion Engineers, which will be held next March in Chicago.

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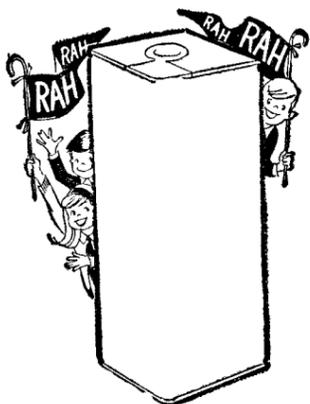
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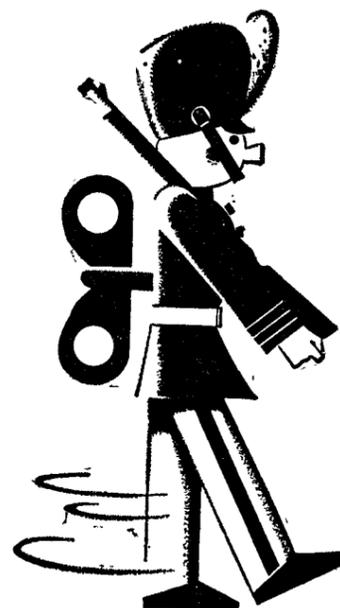
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			181.96

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Team Studies European Missile Sites, Schools

Col. George H. McBride, assistant commandant of the Army Ordnance Guided Missile School and five members of the institution's staff and faculty are in Europe, for a three weeks' inspection tour of U. S. and Allied missile bases and schools.

Col. William J. Macpherson, commandant, said the inspection tour was arranged by the Continental Army Command to determine whether the training given to 30,000 U. S. and European missile technicians here during the past ten years meets the current and future needs of combat missile forces now stationed along the Iron Curtain.

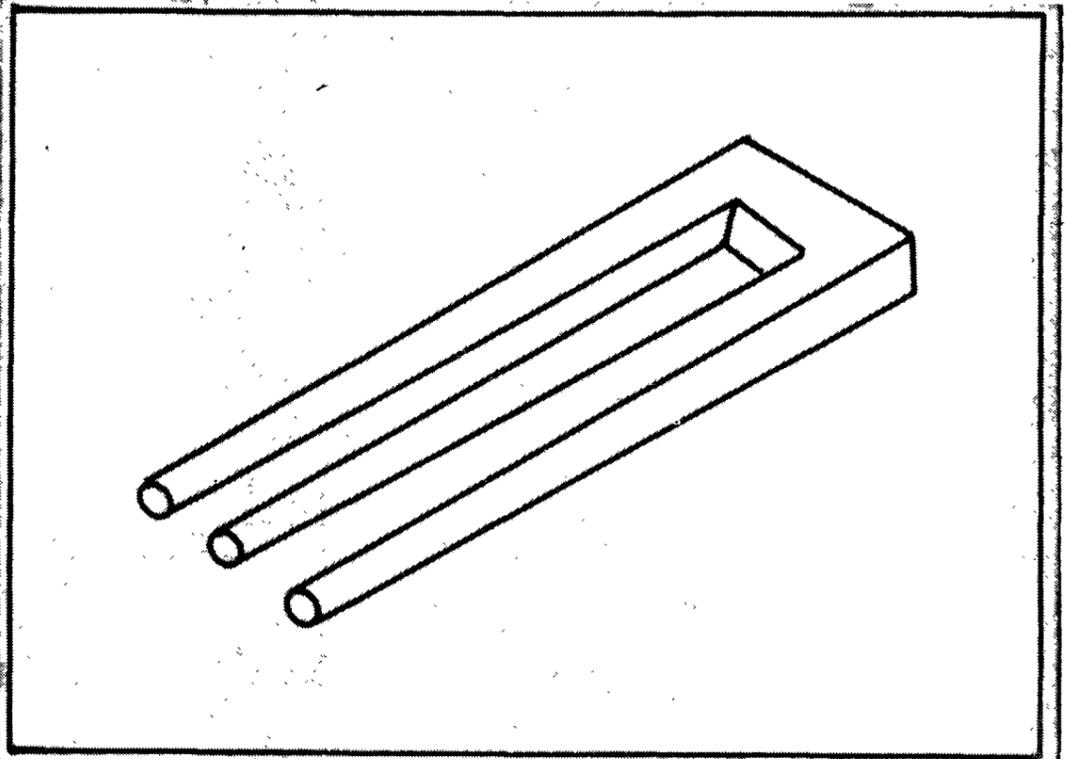
Col. McBride is accompanied by Capt. George B. Kuykendall, Chief WO's Luther C. Hydrick Jr., and Ira D. Barnes, SFC Leon C. Knowles and Emmett Creekmore. All are experienced missile training and maintenance experts, especially on the Nike-Hercules and Hawk air defense missile systems now widely deployed throughout

Europe and the new Sergeant ballistic missile now being sent overseas with U.S. and German forces.

Macpherson said the team is re-examining in detail the on-the-job performance of the various categories of officers and enlisted men responsible for missile maintenance. Their report could result in many changes in missile training techniques used here, he noted.

Their itinerary is taking them to headquarters of the U. S. Army in Europe at Heidelberg and the U. S. Seventh Army at Stuttgart in Germany. They are also to visit German and Italian missile maintenance schools at Aachen and Rome, as well as all Nike, Hawk and Sergeant missile support units in Europe.

Supervision of training and on-the-job performance of missile maintenance individuals and units stationed throughout the free world is one of the primary missions of the Army Ordnance Guided Missile School which is an element of the Continental Army Command.



THINGS AREN'T AS SIMPLE AS THEY SEEM—This optical illusion, which came from we don't know where, turned up the other day. It looked so impressive the Rocket editors thought they'd pass it along. Although a few people have wandered aimlessly away after seeing it, some of them mumbling incoherently, the mystery is simplified if you cover either end of the drawing. So far as we know, nobody has named it yet.

William P. Lloyd Named Panelist At Joint Meeting

William P. Lloyd, director of the Test and Evaluation Laboratory in the Army Missile Command's Directorate of Research and Development, was one of four panel members selected to discuss staffing at a recent joint meeting of the institute of Environmental Sciences and the Army Materiel Command.

Major topic of the two-day meeting was "Management Aspects of Operating an Environmental Simulation Facility." The Test and Evaluation Laboratory includes an Environmental Test Facility capable of subjecting a test missile to environments similar to those found anywhere in the world.

The group saw a missile firing at White Sands Missile Range before returning to El Paso, Texas, where the three major panel discussions were held. In addition to staffing, the participants discussed programming and funding.

Experts in the environmental field from all over the nation attended the meeting with representatives from leading industrial concerns as well as the Army Materiel Command.

Huntsville Water Shortage Ended

Water from Redstone Arsenal to Huntsville has been turned off ending the drama of a water shortage in the city during the month of October.

Through an arrangement set up by city and Arsenal officials, the Army installation supplied Huntsville with one million gallons of water each day during the recent drought which plagued North Alabama.

Arsenal water lines were tapped by the city and it gushed into the city's lines—staving off a threatened crisis.

Two special booster stations set up by the city of Huntsville pumped the water into the city lines under the desired pressure. The water was furnished at cost by the Army working under Col. R. P. Davidson, Post Engineer.

As rainfall and cooler weather came to the drought stricken area, the demand for water began to diminish, says Niles Prestage, chief of the Post Engineer's Utilities Division.

Water was furnished to the city from Oct. 8 until early November, Prestage says, with more than 22 million gallons of water being supplied.

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Scoreboard

BANTAM LEAGUE
(8-12 Yrs.)

Team	Won	Lost
No. 5	17	4
No. 3	14½	6½
No. 4	14	7
No. 2	13½	7½
No. 7	9	12
No. 8	7	14
No. 1	7	14
No. 6	2	19

(BOYS)
High Ind. Average:
Thompson—111 (Scratch)
High Ind. Game:
Harris—164 (Scratch)

(GIRLS)
High Ind. Average:
Quantiz—102 (Scratch)
High Ind. Game:
Boyer—135 (Scratch)

RSA OFFICER MIXED LEAGUE

Team	Won	Lost
D-Yanks	62	19
Bombers	57	24
Redstones	43	38
Bowl Weevils	41	40
Pin Droopers	38	43
D-Doms	30	51
Baby Splits	27	54
Hi Counts	25	56

High Team 3 Games:
D-Yanks—3908 (Scratch)
High Team Game:
D-Yanks—729 (Scratch)

RSA OFFICERS LEAGUE

Team	Won	Lost
Mets	23	13
Spoilers	21	15
Robbers	21	15
Medico No. 1	18	18
Bandits	18	18
Procure Mits	15	21
Alley Cats	15	21
OGMS	15	21

High Team 3 Games:
Mets—2476 (Scratch)
High Ind. 3 Games:
Drissel—634 (Scratch)
High Team Game:
Mets—909 (Scratch)
High Ind. Game:
Thureson—234 (Scratch)

OGMS OFFICERS LEAGUE

Team	Won	Lost
Zeros	21	11
Rounders	20	12
Bowl Weevils	17	15
Bohunks	15	17
Admin	15	17
Missile Comp. Div.	8	24

High Team 3 Games:
Rounders—2545 (Scratch)
High Ind. 3 Games:
Hitt—623 (Scratch)
High Team Game:
Rounders—878 (Scratch)
High Ind. Game:
Hitt—236 (Scratch)

SCHOOL TROOP COMMAND LEAGUE

Team	Won	Lost
The Bisons	29	7
Raiders	28	8
Co. "C" No. 1	21	15
Pin Pickers	18	18
Pop Tops	16½	19½
5 Aces	13½	22½
Co. "C" No. 2	12	24
Hq. STC	6	30

High Team 3 Games:
Bisons—2649 (Scratch)
High Ind. 3 Games:
Kasper—628 (Scratch)
High Team Game:
Raiders—925 (Scratch)
High Ind. Game:
Kasper—245 (Scratch)

THURSDAY MORNING LADIES LEAGUE

Team	Won	Lost
Splits	21½	6½
Tripttes	16½	11½
Roaring Trio	13½	14½
Old Timers	13	15
The U. N.	13	15
Gutter Dusters	12½	5½
Terrific Trio	12	16
Youngsters	10	18

High Team 3 Games:
Roaring Trio—1265 (Scratch)
High Ind. 3 Games:
J. Arnold—533 (Scratch)
High Ind. Game:
J. Arnold—222 (Scratch)
High Team Game:
Roaring Trio—460 (Scratch)

ENLISTED MEN MIXED LEAGUE

Team	Won	Lost
No. 4	33	7
No. 8	25	15
No. 1	22	18
No. 5	19½	20½
No. 2	17	23
No. 6	16	24
No. 7	14½	25½
No. 3	13	27

High Team 3 Games:
Team No. 8—1960 (Scratch)
High Ind. 3 Games:
G. Ryan—670 Men (Scratch)
M. Louis—551 Women (Scratch)
High Team Game:
Team No. 8—728 (Scratch)
High Ind. Game:
W. Homer—244 Men (Scratch)
B. McClure—207 Women (Scratch)

RSA OFFICERS WIVES LEAGUE

Team	Won	Lost
Merry Mrs.	24	12
Who Cares	22	14
Gamblers	20	18
Missers	19	17
Poor Excuses	18	18
Crazy Eights	16	20
Comets	14	22
Misfits	11	25

High Team 3 Games:
Comets—1808 (Scratch)
High Ind. 3 Games:
Lau—495 (Scratch)
High Team Game:
Crazy Eights—691 (Scratch)
High Ind. Game:
Lau—213 (Scratch)



CHAMPION AND MEDALIST—Mrs. Charles Payne (right) receives the trophies of champion and medalist in the tournament sponsored recently by the Golf Group of the Redstone Arsenal Officers Wives Club. Mrs. John G. Zierdt presented the trophies at lunch in the Squirrel Hill Officers Club last Wednesday.

Golf Group Elects Officers

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club elected new officers last Wednesday during the annual luncheon meeting at the Squirrel Hill Officers Club and handed out trophies to winners of the Golf Group Tournament.

Mrs. W. D. Lewis was elected chairman for the coming year with Mrs. Howard Ammerman, vice-chairman, and Mrs. Gene W. Budd, secretary-treasurer.

The championship trophy and the medalist trophy went to Mrs. Charles Payne at the close of tournament play.

Mrs. V. J. Laver was runnerup. Mrs. W. D. Lewis was first flight winner.

Approximately 25 golfers turned out for the luncheon held in the Hawk room.

Donleys Win Scotch 4-Some

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club and husbands of the members played a Scotch 4-Some tournament at the Redstone Arsenal course Sunday with Col. and Mrs. Edwin I. Donley coming in winners.

Runnersup were Mrs. W. D. Lewis and Col. Glenn L. Bass, third were Brig. Gen. and Mrs. John G. Zierdt.

The Group went from the golf course to the Squirrel Hill Officers Club for a buffet supper as a climax to the annual event.

The Defense Medical Supply Center, Brooklyn, N. Y., purchased 263,312,000 aspirin tablets last year. Piled one atop another, they would reach 886 miles into space.

All Part Of The Job

If you think your job description pretty well defines your daily tasks, read this excerpt from a job description put out for Civil Service clerks in 1870.

It was taken from the Civil Service Commission's Employee Bulletin for September, 1963.

"Duties of Employees: Sweep floors, dust furniture, the shelves and show cases, remembering 'Cleanliness is next to Godliness.' Trim wicks, fill lamps, clean chimneys. Make your pens carefully (but you may whittle the quills to suit your individual taste). Open windows for fresh air. Each clerk shall bring in a bucket of water and a scuttle of coal for the day's business.

"Any employee who smokes Spanish cigars, uses liquor in any form, gets shaved at the barber shop, or frequents pool halls or public dance halls, will give his employer every reason to suspect his integrity, worthy intentions, and all-around honesty.

"Men employees will be given one evening off each week (work hours were from 7 a.m. to 8 p.m.) for courting purposes or two evenings each week if they go regularly to church and attend church duties. After any employee has spent his thirteen hours of labor in the store, he should then spend his leisure time in reading good books and contemplating the Glories and Building up the Kingdom of God."

THREE SERGEANTS MAKE WARRANT

Three sergeants from the OGMS were appointed to the rank of Warrant Officer last week at ceremonies in Commandant William J. Macpherson's office.

The new warrant officers are William H. Hellingsworth, William O. Hutson, both of Headquarters Company, UTC, and Carrel S. Canup of the 32nd Ordnance Detachment.

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4-door, black with red interior, 15,000 one owner miles. 327 engine with auto. trans. Will take less than \$1995.00.

1962 FORD GALAXIE
2-door sedan, 6 cyl., stick shift, radio, heater, one owner, low mileage. new condition, new tires. Will take less than \$1595.

1959 CADILLAC SEDAN DeVILLE
4 dr. hardtop, factory air condition, yellow finish, extra clean. Wonderful bargain. Will take less than \$2599.00.

1962 CADILLAC
4 door hardtop, black, full power, factory air, low mileage. Like new. Will take less than \$4199.00.

1963 IMPALA
4 dr. sedan, 3,000 actual miles, power steering and brakes. 6 cyl. Will take less than \$2590.

1961 CORVAIR MONZA
Cpe. 4-speed trans., red with red leather interior. Low mileage, like new, fully equipped Will take less than \$1599.00.

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4-dr., stick shift, radio & heater. Will take less than \$1199.00.

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1962 FORD
3/4 ton pickup. Long wheel base, extra clean. Will take less than \$1499.00.

1960 OLDS
2 door "98" Hardtop cpe. Power, full inc. seats and windows. Black, like new. Will take less than \$1799.00.

1959 PLYMOUTH
4 door sedan, 6 cyl., auto., power steering. White with red interior. Sharp. Will take less than \$899.00.

1961 RAMBLER
4 door sedan Classic 6 cyl., S.S. Will take less than \$1149.00.

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COL. J. D. McBRAYER, JR.

GRADUATES HEAR MARINE OFFICER

"It is the loyalty of men to men that makes for just causes, not the causes themselves," a high-ranking U. S. Marine Corps Officer told graduates of the Army Ordnance Guided Missile School last Friday.

Col. James D. McBrayer, Jr., director of the Marine Corps Sixth District in Atlanta, addressed 76 graduates at the ceremony in the Post Theater. The group included 16 Marines and officers and soldiers from Belgium, Denmark, Greece, The Netherlands and the U. S. A. They had completed courses on the Hawk and Nike-Hercules air defense missiles.

Honor graduates were: Lt. Roger M. Geens of Belgium in the Hawk maintenance supervision

course; S/Sgt. Josef E. Hermans of Belgium in Hawk internal guidance and launcher electronics; U. S. Marine Sgt. James E. Johnson in Hawk mechanical repair; S/Sgt. Leon G. Van Hecke of Belgium in Hawk radar and battery control; U. S. Pvt. John A. Wilson in Nike launcher control; and U. S. Sp/5 Robert F. Winer in Nike mechanical repair.

Col. William J. Macpherson presided at the ceremony. Chaplain Richard L. Andrist officiated. National anthems were rendered by the 55th U. S. Army Band.

QUAIL SEASON OPENS NOV. 20

State Conservation Director Claude D. Kelley announced recently that nine days had been added to the 1963-64 quail hunting season which opens Nov. 20.

Kelley said the longer hunting period will allow hunters "more days to harvest bobwhite quail." Daily and possession bag limits for quail both remain unchanged at 10 birds for the 1963-64 season which closes Feb. 29. The extended season was set by the Conservation Advisory Board at their recent Montgomery meeting.

The board, acting upon a directive from the U. S. Department of Interior, also voted to limit the dove bag possession to 10, but made no changes in the length of the dove season. The statewide split season on dove was planned for Oct. 1-Nov. 9 and Dec. 12-Jan. 10. These migratory birds may be hunted in season from 12 o'clock noon until sunset.

Conservationist Kelley revealed that the Advisory Board also reduced the squirrel bag limit from 10 to 8 with the same number allowed in possession. This group added 10 days to the duck season and added one duck to the bag limit. Daily bag limits on other small game remains unchanged, according to the conservation official.

Charles Kelley, Game and Fish Division chief, said seasons for hunting rail and gallinule opened on Oct. 1.



R&D ARTIST WINS AWARD—Illustrator Don Davis runs a critical eye over an artist's concept of a future missile system he prepared for the Army Missile Command's Directorate of Research and Development. As a hobby, Davis takes a busman's holiday and paints pictures, one of which recently won first prize in the professional division of a national contest sponsored by Art Instruction Schools in Minneapolis, Minn. The semi-abstract painting, called "Rain," has been requested for reproduction in a textbook to be used by the school. Davis has won several prizes in abstract competition. He is assigned to the Visual Information Branch in the Directorate's Technical Program Control Office. Davis and his wife Barbara Ann live at 417 Edgemont Drive with their two daughters, Cindy, 8, and Donna, 9.

Births At Post Hospital

Randall Nolan Keith, 2 lbs., 13 ozs., Nov. 5, son of Sp/5 and Mrs. Edwin D. Keith.

Faith Machree Holder, 8 lbs., 3 ozs., Nov. 6, daughter of Capt. and Mrs. Richard T. Holder.

Melvin Earl Wherley Jr., 6 lbs., 15 ozs., Nov. 7, son of Pfc. and Mrs. Melvin E. Wherley.

Linda Ruth Williams, 7 lbs., 9 1/4 ozs., Nov. 7, daughter of SSgt. and Mrs. James G. Williams.

Michael Robert Dietrich, 7 lbs., 14 1/2 ozs., Nov. 7, son of Capt. and Mrs. Regis P. Dietrich.

Caryl Andrea Williams, 5 lbs., 10 1/2 ozs., Nov. 8, daughter of Pvt. and Mrs. James D. Williams.

Gareth David Owen, 8 lbs., 1/2 oz., Nov. 8, son of Sfc. and Mrs. John C. Owen.

Andreas Edward Parker, 8 lbs., 1 3/4 ozs., Nov. 9, son of Sp/4 and Mrs. Edward Parker.

Sharon Lee Moody, 8 lbs., 1 1/2 ozs., Nov. 12, daughter of SSgt. and Mrs. William S. Moody.

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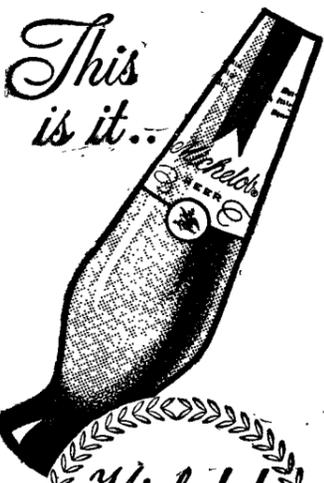
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SOCIAL and CLUB EVENTS

Engineers Hear Tischer

Dr. F. J. Tischer, assistant director of the University of Alabama Research Center, addressed the Northeast Alabama Chapter of the Society of Professional Engineers during the November meeting.

The speech was aimed at the engineers' guests, children and youthful friends of the members. He outlined opportunities that have broadened the engineering field from building roads, dams and buildings into technological fields that are still growing.

Dr. Tischer stated the university's responsibility is to recognize engineering as a dynamic creative profession which needs periodic adjustment to keep abreast of advances in technology. The Society is preparing to of-

fer a \$1200 annual scholarship to a deserving and needy engineering freshman. The Auxiliary is co-sponsor for the scholarship.

SAME Meets Tomorrow

The Society of American Military Engineers will meet at the Squirrel Hill Officers Club at 6:30 p.m. tomorrow night.

Edward Rosenfeld, chief of the Construction and Installation Branch Test and Field Operations Division of the Zeus Project Office will talk about the construction of facilities on Kwajalein and Roi Nemur Islands.



IT'S DONE THIS WAY—Mrs. Frank (Kathryn) Reed tells Non-Commissioned Officers Club managers, Sgt. Henry Brannen (center) and Sgt. Leonard Belcher, how she selected and arranged the greenery in new planters of the club dining room. Mrs. Reed is always ready to lend her talent and assistance for club decorating projects.

When It's Time To Arrange Things The Girls Always Call For Kathryn

When it's time to have some special decorating done, especially where flower arrangements are concerned, the Non-Commissioned Officers Club managers know they can call on Mrs. Frank (Kathryn) Reed.

Kathryn, a charter member of the NCO Wives Auxiliary, is talented in flower arranging. She has given many demonstrations to groups on the arsenal and in Huntsville, and has sold flower arrangements. Once she and her sister prepared 285 arrangements for a local Home Demonstration Club!

She recalls the first NCO Club decorating she undertook when the building they used was one with high ceilings. "We strung black fishnet overhead to lower the ceiling, and we painted the walls pink. We thought it was gorgeous then, but now I know it was pretty awful," she said.

The Reeds have lived in Huntsville since 1952 when Frank retired from the Army after more than 26 years of service. "He was going for 30," Kathryn says, "but a slight physical disability interfered."

Both Kathryn and Frank were originally from Gurley. "I first knew Frank when he was one of my father's pupils in a school near Gurley," Kathryn says. Frank now works in the Sergeant Project Manager's Office.

Kathryn was teaching at Killingsworth Cove in the Gurley community when they were married. During their Army moves, they lived in California, Wisconsin, and at Ft. Jackson, S. C. where they spent seven years.

She teaches bridge in Meridianville and has taught several groups in Huntsville.

A lady with a truly warm personality who radiates kindness and Southern hospitality, Kathryn looks for things she can do for

others. "People have stood by me and have done so many fine things for me and my family that I can never repay them," she says.

Among things that are on the record are the three years she has donated to the Post Thrift Shop, and her membership on the Thrift Shop Board.

Last week, several friends invited Kathryn to the NCO Club for lunch and told her it was a business meeting. In reality, it was just an excuse to get her there so they could give her some recognition for selecting and arranging the greenery in the new planters of the Club's dining room.

Bridge Draws Seven Tables Of Players

Seven tables of players competed at Monday night party bridge last week at the Squirrel Hill Officers Club.

Mrs. Robert Scott was high for the women with Maj. Jack Donnelly high for the men.

Mrs. Jesse Fishback was runner-up for the women, Maj. Kuo Hsin-Min for the men.

Mrs. Peter Iber, 877-5235, handles reservations to play with the group which meets every Monday night at the Officers Club. She will accept reservations or cancellations until Sunday.

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Lovely china tea set... complete service for six... in delightful "Moss Rose" pattern with gold border... perfect for entertaining! Set includes:

- 6 cups
- 6 saucers
- creamer
- sugar with cover
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Mrs. Cosby Tells About Afghanistan

Mrs. Donald Cosby talked about her experiences as a State Department employee stationed in Afghanistan with the U. S. Embassy at the November meeting of the Redstone Arsenal Officers Wives Club last week.

The lunch meeting, held at the Squirrel Hill Officers Club, drew approximately 200 members and guests.

The ballroom, in which the group met, was decorated with dried flower and plant arrangements and artificial turkeys. Mrs. R. P. Davidson was chairman for the luncheon with Mrs. Robert Kriz, Mrs. Alfred Holston, Mrs. Martin Pearson and Mrs. Daniel Holt on her committee. They made the dried arrangements, used as centerpieces on each of the tables. These were awarded as door prizes at the end of the meeting.

Mrs. Cosby illustrated her talk with colored slides and exhibited typical costumes, copperware, and shoes from the region.

As a part of the business meeting, Mrs. N. T. Dennis, president, called for a vote on a change in by-laws circulated among the

membership at the October meeting which the membership approved.

She also announced three changes in the club's officer roster due to change of assignment for the husbands of the three elected officers.

The changes are Mrs. James M. MacDonnell replacing Mrs. R. J. Schofield as vice president and program chairman; Mrs. James Wharton succeeding Mrs. T. R. Edwards, recording secretary; and Mrs. M. V. Meekison for Mrs. C. J. Robinson, treasurer.

COFFEE SCHEDULED

The Army Missile Command Wives will hold a Coffee at 10 a.m. at the Squirrel Hill Officers Club on Nov. 26.

Reservations will be accepted until Nov. 22, cancellations until noon Nov. 25 by Mrs. M. L. Anderson, 877-4362 and Mrs. L. H. Ogden, 877-4134.

The program includes a film of Bellingrath Gardens, one of Alabama's most famous landmarks.

At The Service Club

By: Brenda Hanson

We start the Holiday Season in earnest this week with anticipation of Thanksgiving. We know that Christmas is just around the corner and, now is the time to throw yourself with all your might into the mad whirl of the holidays to make these last few weeks of 1963 a memorable time.

On Tuesday night, the Dance Class will meet at 7 p.m. in the Main Lounge to get in shape for the rounds of Holiday Dances and parties. So if you're interested, drop by the club and learn the basic steps and how to be an exquisite dancer.

Wednesday night, the Small Lounge of the Service Club will be occupied by Bridge Players. Bridge is getting to be one of the more popular games around the club. If you enjoy playing or would like to learn, come down any Wednesday night at 7. Another event of the evening is the meeting of the Junior Hostesses to discuss the December program. We invite all the Huntsville hos-

esses to attend this meeting.

Friday, we have a contest on schedule which should interest all pool sharks. We have a Pool Contest scheduled at 8. Prizes will be given to the winner.

Saturday, we have a real treat. The Junior Hostesses are serving their favorite desserts at 7:30 p.m. Following the dessert will be a Social Hour. We'll play dance records if you would like to dance, and if you don't enjoy dancing, you can socialize and relax with friends.

Nov. 24, Molly will serve coffee and donuts at 9 a.m. Climaxing the evening is the Record Dance, the Turkey Trot.

Monday, is the night for games, in the Main Lounge at 8 p.m. We have several nice prizes. So come down and try your luck Monday at 8 p.m.

That's all for this week. For a run-down of the events taking place at the Service Club, keep an eye on this column. Pick up one of our handy pocket calendars on the show case in the main lobby.

Until then, see ye at the Service Club.

Two scientists from the Army Missile Command's Directorate of Research and Development presented papers on rocket propellants at the Southeast Regional Meeting of the American Chemical Society Thursday through Friday in Charlotte, N. C.

Dr. Robert E. Odom and Hiram W. H. Dykes, both chemists in the Directorate's Propulsion Laboratory, presented two papers at the meeting. More than 500 leading chemists from the southeast attended.

Odom talked about the reactions that occur in the curing of solid propellant binders. His paper is titled "Kinetics of the Epoxide-Carbolic Acid Reactions."

Dykes' paper, "Direct Volumetric Determination of Perchlorates in Pyrotechnics," was co-authored with Bernard J. Alley, also of the Propulsion Laboratory. The paper outlines a method of determining the percentage of perchlorates which are present in solid propellant motors or other pyrotechnics.

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Accountants Will Meet At Country Club Tomorrow

A monthly dinner meeting of the Huntsville Chapter, Federal Government Accountants Association will be held on Thursday, November 21 at the Huntsville Country Club. Social hour begins at 6:30 p.m., dinner at 7 p.m.

Guest speaker will be Dr. P. B. Yeagan, Professor, University of Alabama School of Commerce and Business Administration. Dr. Yeagan holds degrees from Howard College (A.B.), University of Alabama (M.B.A. and Ph. D) and is a Certified Public Accountant, State of Mississippi.

He is presently a member of the American Accounting Association, American Institute of Certified Public Accountants, National Association of Accountants, Alabama Society of Certified Public Accountants, Mississippi Society of Certified Public Accountants, and Civitans.

He has previously been associated with the State Department of Revenue (Sales Tax Division), State Department of Commerce (Bank Examiner), Mississippi-Southern College (Head of Accounting Department) and Haskins & Sells, Birmingham Office where he served his faculty internship.

For his subject, Dr. Yeagan will discuss "Generally Accepted Accounting Principles." He has been conducting a research study on this subject for the University of Alabama.

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EXECUTIVE AWARD WINNERS—Junior and senior executive awards have been presented to personnel at the Army Missile Command. Left to right are John A. Robins, Deputy Lance Project Manager, who was named as recipient of the Senior Executive Award; Brig. Gen. John G. Zierdt, Commanding General, who presented the awards; Donald R. Simms, Sergeant Project Office, who won the Junior Executive Award; and Neal E. Roberts, Supply and Maintenance Directorate, who received honorable mention for the senior award.

Command Recognizes Two Executive Award Winners

Outstanding junior and senior executives at the Army Missile Command have received awards recognizing their work in the field of public administration.

John A. Robins, deputy manager for the Army's Lance ballistic missile system, was selected as winner of the Senior Executive Award.

Recipient of the Junior Executive Award was Donald R. Simms, a member of the Sergeant ballistic missile system procurement office.

Both of the civilian officials were presented plaques by Brig. Gen. John G. Zierdt, Commanding General of the Army Missile Command.

Honorable mention for the Senior Executive Award went to Neal E. Roberts, of the Missile Command's Directorate of Supply and Maintenance.

The executive awards are de-

signed to give special recognition and encouragement to civilian personnel for exemplary achievement or notable contributions in the administration field.

Winners of the awards are presented engraved plaques. Executives selected for honorable mention are presented a commendation certificate. Personnel under 36 years of age are eligible for the junior award; those 36 and more are eligible for the senior executive award.

Saturday Center Schedules Student Counsel Sessions

General counseling day for both graduate and undergraduate students at the Huntsville Campus of the University of Alabama will be held Saturday, Nov. 23, from 9 a. m. to 3 p.m.

A number of the heads of various departments from the Tuscaloosa campus as well as all the Huntsville faculty will be available to help students review pro-

gress to define objectives and to plan programs of study.

Interested persons not presently enrolled at the Huntsville Center may file a request for counseling with the Registrars' Offices on or before Thursday, Nov. 21.

Information about the University of Alabama's operation in Huntsville will be available to anyone who wishes to learn about the curricula.

Prospective students who have not already made application for admission for the Winter Quarter beginning Jan. 2, 1964, are urged to do so immediately. Admittance of a new student takes several weeks.

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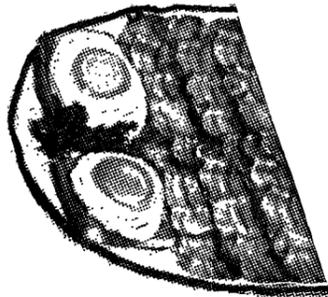
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1959 FORD
HALF TON PICKUP TRUCK. Ready for hard work. **\$875**

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STATION WAGON with radio, heater and automatic trans. **\$275**

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SIX-PASSENGER PICKUP TRUCK with actually 1,400 miles on it. Practically new. **\$1875**

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HALF TON PICKUP TRUCK with heater, automatic shift and CATTLE RACK. **\$775**

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TWO-DOOR sedan with radio, heater and automatic shift. **\$375**

1961 PLYMOUTH
CONVERTIBLE with radio, heater and standard shift. **\$1275**

1959 AMERICAN
STATION WAGON with radio, heater and automatic shift. **\$775**

1962 RAMBLER
CLASSIC Four-Door sedan with radio, heater and automatic shift. **\$1475**

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Both are Four-Door sedans with radios, heaters, and automatic shifts. **\$675 ea.**

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STATION WAGON with radio, heater and automatic shift. **\$575**

1959 MERCURY
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HARDTOP Four-Door with radio, heater, automatic shift and it's extra nice. **\$475**

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FORDOR . . . local one-owner car with radio, heater, automatic shift and factory air. **\$1975**

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CROSS COUNTRY station wagon with radio, heater and automatic shift. **\$875**

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HARDTOP Two-Door with radio, heater, and standard shift. **\$475**

1958 PLYMOUTH
TWO-DOOR sedan with radio, heater and standard shift. **\$575**

1957 CHEVROLET
Four-Door Station Wagon. One you'll like. **\$775**

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STATION WAGON. Nice and roomy and has radio, heater and automatic shift. **\$1375**

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Welcome Mat

The ROCKET extends a hearty welcome to the following newly assigned civilian personnel to positions with Army units.

ARMY MISSILE COMMAND

Hercules Project Office: Lovelle L. Ashmore, Edward P. Blanton, Jr., Ann D. Hudson, Warren C. Lee, Jr., Geraldine M. Merriman, Elizabeth R. Moore, James T. Newby and George W. Williams.

Pershing Project Office: Patsy M. Dawson, William F. Harmon, Jr., Judith A. Hasting, Ray W. Jacks, and Mark L. Thompson.

Lance Project Office: Louise Ogletree.

Hawk Project Office: Earlean Snead.

Missile Intelligence: Joan V. Collins and Wilma C. Thomas.

Information Office: Bobby R. Hubbard, Sr.

Sergeant Project Office: Roy J. Phillips.

Mauler Project Office: Alicia K. Wahl.

General Counsel: Lloyd A. Utley.

Judge Advocate: Dora A. Ruck.

Comptroller & Director of Programs: Billy L. Britton and Joyce N. Worley.

Procurement & Production: Emmett N. Austin, Jr., Roy M. Beavers, Jr., James R. Bishop, Sandra R. Brooks, Atlas C. Chance, Jr.,

Lewis J. Dollman, Jr., Velma J. Edwards, James B. Elliott, Quincy H. Evans, Wesley F. Fitzpatrick, Hubert A. Friday, Jerry G. Gattis, Joseph E. Kelley, Sr., George W. Hoagland, Colene D. Holly, Paul E. Jones, Tommie F. Laten, Roberta L. McClung, Ralph J. Manteuffel, Helen C. Matthews, Ruth M. Mears, Audrey L. Mullican, Linda K. Neal,

Bobby L. Oakes, Doris W. Simpson, Josephine U. Snell, Mary B. Troupe, Howard D. Warren, Wanda L. Wilkerson and Leonidas R. Wright.

Research and Development: Ruth B. Bachman, Laverne W. Cole, Thomas W. Collier, Ida H. Dowdey, Callie A. Duffey, Norma S. Kennedy, Mary D. Owens, Suzanne Rowden, and Mae S. Wilson.

Supply & Maintenance: Bette L. Bond, Rudolph C. Carr, Robert Fantuz, Paulette Faulk, Helen S. Gutierrez, Edward A. Haiges, Robert E. Harris, Bobby J. Hogan, James C. Hooper, James E. Hunter, Winifred M. Ivy, Loraine D. Mathis, Homer J. Owsley,

Donald F. Pettigrew, Buford L. Pillow, Robert G. Rodes, Frances H. Seymour, Robert W. Snyder, Emanuel M. Strauss, Virginia E. Stewart, George A. Street, Patricia A. Towry, Bobby G. Tucker, Calvin L. Wilberger, Brit N. Wooten, Paul D. Yates and Gilbert R. Yancey.

ZEUS PROJECT OFFICE

Kenneth L. Denton, Fred W. Kear and Joy B. Nicholson.

ARMY MISSILE SUPPORT COMMAND

Computation Center: Louis R. Abbey.

Finance & Accounting: Nellie R. Bailey, James L. Bobo, Barbara T. Hunsicker, Jerry R. McGougn.

Calibration Center: Betty M. Barber, Charles E. Brooks.

Post Engineers: Percy T. Barnard, James O. Garner, Junior Hamby, Robert L. Hanby, Joseph C. Haney, Curtis Jones, Bertha D. Key, Dewey A. Lemley, Arthur E. Leslie and Wilma G. Reed.

Civilian Personnel Office: Emma L. Billings, Martha J. Hillard, Joe P. Holder.

Adjutant Division: Grace J. Campbell, Marjorie B. Majors.

Patent Center: Nelliè R. Carr.

Post Hospital: Eunice C. Cooke, Loyle N. Herrin and Susie F. Shurme.

Post Quartermaster: Hubert G. Copeland.

Provost Marshal: Paul P. Green, Fay S. Ogletree.

Communications Division: Eula J. King and Connie M. Mays.

Movie Schedule

WEDNESDAY, November 20

"Holiday for Lovers" (F)

THURSDAY-FRIDAY, November 21-22

"The Wheeler Dealers" (F)
INCREASED ADMISSION:
Adults 40c.

SATURDAY, SUNDAY, MONDAY,
November 23-24-25

"Lawrence of Arabia" (M-YP)
One performance each evening
at 6:30 p.m. INCREASED ADMISSION:
Adults 75c, and Children 25c.

TUESDAY, NOVEMBER 26:

"All In a Night's Work" (M-YP)
Two shows nightly at 6 and 8:30
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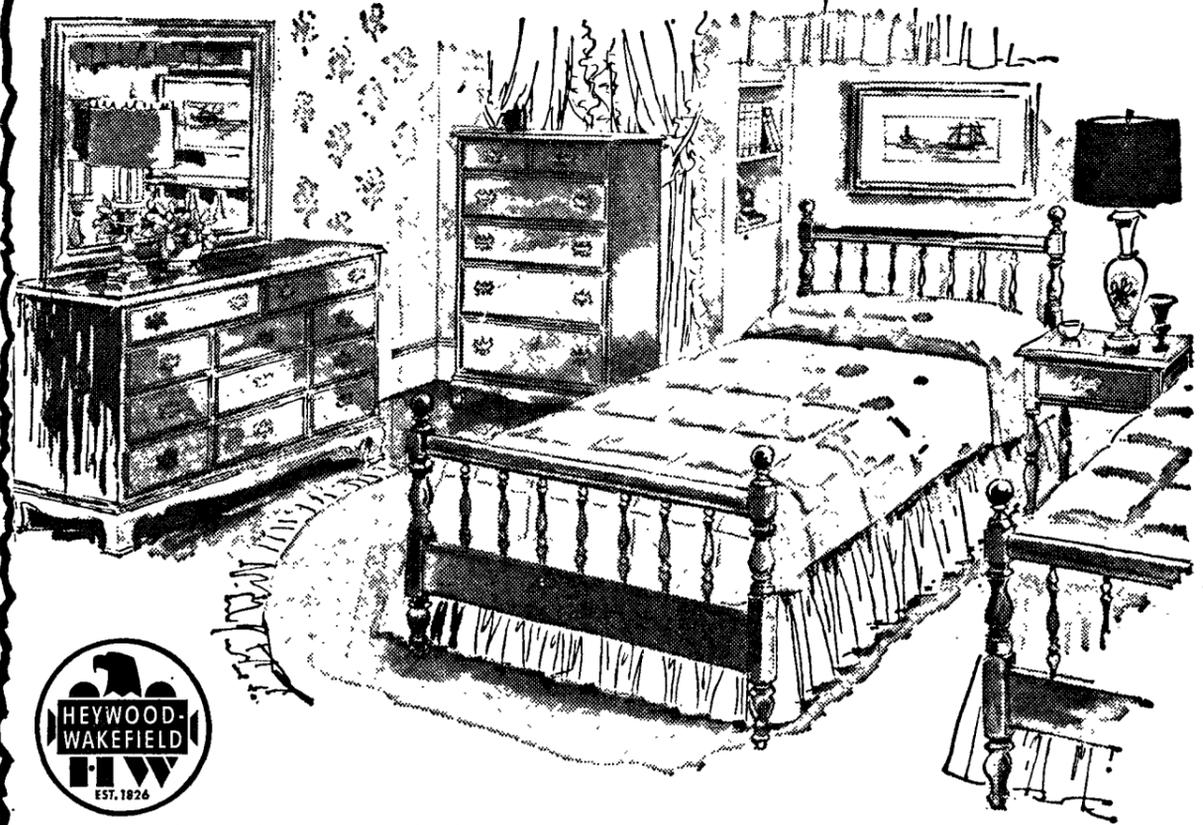
Mary C. Doyle, Dorothy T. Durham, Dawna N. Dyer, David E. Graham, Ernest L. Hager, James T. Hutchinson, Marjorie A. Mitchell, Joseph W. Murphy, Andrea F. Phillips, William L. Sartin, Billy M. Taylor, James R. Tullos and William D. Varner.



DRIVER'S SEAT FOR SMALL ROCKET MOTORS—Dr. J. T. Thurston (right) assistant director for chemical technology in Department of Defense Research and Engineering, looks at the control panel used for testing experimental liquid propellants in small rocket motors at the Army Missile Command's Directorate of Research and Development. Dr. Thurston spent two days at Redstone Arsenal conferring with propellant experts from the Army Missile Command and contractor agencies. Others in the photo, left to right, are Jack Kane, John P. Hallows, Jr., and Dr. W. W. Wharton, all of the Physical Sciences Laboratory, and William Sheehan, assistant to Dr. Thurston.

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If you've ever watched a radar screen you probably wondered how the man who operates it tells the blips that represent airplanes from the blips that represent hills, buildings, and water towers.

But this doesn't faze men who operate Army Missile Command missile systems. The problem along with the clouds, buildings and water towers has faded away.

In the old days a top notch radar operator had to possess a valuable talent. He had to be able to glance at a radar scope and unerringly pick out aircraft. To the uninitiated the screen was a cluster of dots and blips of assorted shapes and sizes caused by anything that would reflect radar beams—including rain storms and occasional flocks of birds.

In fact, birds have sent defense systems into alert and caused fingers to tighten on triggers.

Early radars and most of the ones in use today show everything in two dimensions. Everything is flat. There is no indication of at-

titude. A plane flying at 12,000 feet looks like it will smash into a 5,000 foot mountain that also shows up on the screen.

You can imagine the plight of an airport tower operator when he glanced at his cluttered scope and saw Flight 101 get lost in the big blip of Old Baldy.

Now all a missile system operator does is press a button and electronic circuits which can tell the difference between a moving target and a stationary one take over. The only thing that gets through to the radar scope is the moving target.

So sensitive are these circuits on some missile system radars that they can tell the difference between a moving flight of airplanes and a moving flock of birds. The birds get blanked out. These same type circuits have been incorporated in commercial radars, such as the ones that control traffic at busy airports.

And, to cap it off not only do some missile system radars sort

Korean Veterans Can Convert GI Insurance Plan

Although they have passed the deadline for receiving a special dividend for doing so, hundreds of Korean veterans may exchange their "RS" GI insurance policies for the less expensive "W" term policies or convert to a permanent plan insurance.

Under provisions of a bill signed by the President on Sept. 13,

out real targets from mountains, but they also ring an alarm bell when a real target appears on the scope.

Fascinating stuff, radar.

Post Library

NORMA E. SHORT
Librarian

Non-Fiction

Burnett, Whit, The Spirit of Man.

California Institute of Technology, Mariner: Mission to Venus.

Clarke, Joy Harold, Small Fruits for Your Home Garden.

Cunningham, Winfield Scott, Wake Island Command.

Dunn, Harold, comp., How to Run a Country.

Green, William, Famous Fighters of the Second World War.

Hildreth, Peter, How to Train for Track and Field.

Ransom, John L., John Ransom's Diary.

Schrenkeisen, Raymond, Field Book of Fresh-Water Fishes of North America North of Mexico.

Simon, Kate, Mexico: Places and Pleasures.

Spengler, Oswald, Man and Technics.

Angeles, Philip, "Challenge to American Youth."

Fisher, John, "1815; an End and a Beginning."

Gayle, Willie, "Seven Seconds to Success in Selling."

Hauser, Benjamin Gayelord, "Treasury of Secrets."

Petite, Irving, "Mister B."

Silverberg, Robert, "Sunken History, the Story of Underwater Archaeology."

Sokolovskii, Vasilii D., "Soviet Military Strategy."

Spengler, Oswald, "The Hour of Decision."

Wilks, Willard E., "The New Wilderness: What We Know About Space."

Zahrnt, Heinz, "The Historical Jesus."

Biography

Abbe, Patience, Around the World in Eleven Years.

Arendt, Hannah, Eichmann in Jerusalem.

Bowen, Catherine (Drinker) Francis Bacon: The Temper of a Man.

Burgess, Alan, The Lovely Sergeant.

Deutrich, Mable E., Struggle for Supremacy.

Douglas, Helen (Gahagan), The Eleanor Roosevelt We Remember.

Dunbar, Janet, Mrs. G. B. S.; a Portrait.

Fishman, Jack, My Darling Clementine.

Hawkins, Eric, Hawkins of the Paris Herald.

Walgreen, Myrtle R., Never a Dull Day.

Fiction

Bordeur, Paul, "The Sick Fox."

Field, Peter, "Powder Valley Getaway."

Greene, Graham, "A Sense of Reality."

Hare, Arnold, "The Man Who Never Laughed."

Lazarus, Mell, "The Boss is Crazy Too."

Leighton, Margaret (Carver), "The Story of Florence Nightingale."

Mossenson, Yigal, "Judas."

Rascovich, Mark, "The Bedford Incident."

Smith, Pauline, "The Beadle."

Williams, Wirt, "A Passage of Hawks."

1961, Korean war veterans were given an opportunity for two years from that date to obtain a special dividend by exchanging "RS" term policies to a lower cost policy or converting to a permanent insurance plan.

More than 570,000 veterans collected dividends of more than \$48,500,000 before the expiration

date Sept. 13, 1963. John D. Chapman, contact officer at the VA Regional Office in Montgomery, said today.

Chapman advised that further information and assistance may be obtained at the VA Regional Office in Montgomery or by writing the office where the veteran mails insurance premiums.



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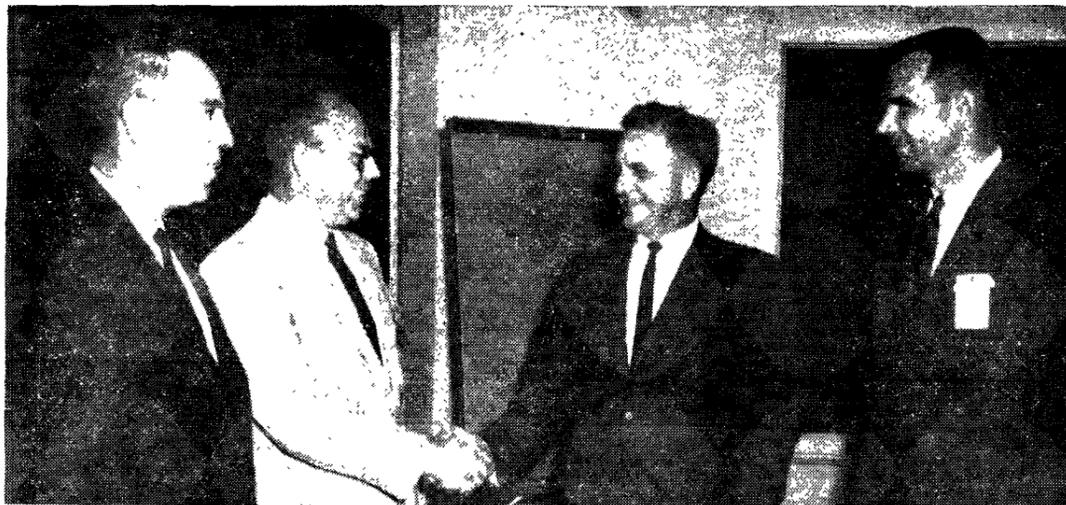
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RADIATION EFFECTS—Some twenty engineers and scientists of the Inertial Guidance and Control Laboratory attended a recent course on the permanent and transient effects of radiation from nuclear weapons on the electronics used in guidance and control systems. J. B. Huff (second from right), who is director of the Laboratory, greets Dr. R. M. Kloepper, Advisory Physicist of Federal Systems Division, IBM Corporation, who was the instructor for the first phase of the course. Shown here with Huff and Kloepper are, John Heath (left) course coordinator, and Charles Riley, Chief, Prototype Branch of the Laboratory.

Carelessness Cause Of Many Accidents

The accident and injury rate for the Arsenal this past month was predominately a result of unsafe acts by employees.

Jack Haynes, Arsenal Safety Director, pointed out that only one injury was a result of unsafe conditions.

"The fact that our injuries and accidents were caused by some unsafe act, points to the need of individual attention," he said. "Conditions of equipment and surroundings played only a minor

part." Haynes also stated that on a national basis unsafe acts contributed to 88 per cent of injuries.

"The national workforce, and ourselves this past month, assured safe conditions to the point that such resulted in approximately 12% of the injuries. "However," said Haynes, "We cannot bring ourselves to the point of thinking and acting as safely as our safe conditions could warrant."

Haynes added that the last month's accidents and injuries resulted from acts in the areas of inattention, failure to wear safety shoes, poor judgment, and failure to observe clearance.

INCENTIVE AWARDS

SUGGESTIONS

Clara B. McGouirk, Army Missile Command, \$30 award—this suggestion resulted in EAM Cards on MIRPL line item rejections being furnished to the SCR's Office for use in the Contractor's plant to speed up the correction of discrepancies.

Donna D. Rakestraw, Army Missile Command, \$15 award—this suggestion resulted in an electrical door lock and buzzer being installed on a door located at the north end of building 5678 to enable the door to be opened without disrupting the work of the responsible secretary. Savings are estimated at \$233 for the first years usage.

H. Joann Thomas, Army Missile Command, \$45 award—this suggestion resulted in FL 354 being put into use for reply by screening segments of the Army Missile Command to the Utilization and Disposal Branch of the Procurement & Production Division. Savings are estimated at \$850 for the first years usage.

Alda G. Sturdivant, Army Missile Command, \$25 award—this suggestion resulted in a certain period of time being designated for each division to check signatures on 00 2000 forms to see if the individual who is signed for a document has possession of the document. This idea was adopted by the ZEUS Project Office.

Glennis R. Puckett, Army Missile Command, Letter of Appreciation—this suggestion resulted in 18 and 12 inch paper being used on the 24c Xerox Electrostat Continuous Copy Flo Printers used in the Directorate of Procurement & Production.

Helen B. Tucker, Army Missile Command, Letter of Appreciation—this suggestion resulted in one or more Emergency Lanterns being placed in the hall bordering rooms 219 to 226 in building 4500 to be used in case of power failure.

Walter S. Willisson, Army Missile Command, Letter of Appreciation—this suggestion resulted in

the angle of the curve being increased where Mill Road intersects the road to buildings 5687 and 5678.

James R. Wright, Army Missile Command, Letter of Appreciation—this suggestion resulted in a central card file being established in AMSMI-IEDI on limited specification that IEDI has requested to be co-ordinated by DOD Standardization.

Leonard Twinem, Jr., Army Missile Command, Letter of Appreciation—this suggestion resulted in the paper towel dispensers in the rest rooms in the Directorate of Supply & Maintenance being filled only to the proper capacity and not overloaded so as to allow easy removal.

SFC Douglas A. Cravens, Army Ordnance Guided Missile School, \$25—this suggestion resulted in the addition of a relay and a switch to remove the present requirements for a jumper on the Power Station Simulator to be

Thummel Studies At Dugway, Utah

DUGWAY PROVING GROUND, UTAH, Nov. 13—William G. Thummel of the Missile Support Command is one of a select group of high ranking military and civilian leaders enrolled as a student at the U. S. Army CBR Weapons Orientation Course conducted at the Army's chemical and biological proving ground at Dugway.

The Chemical, Biological and Radiological Orientation Course is designed to acquaint senior Department of Defense military and civilian personnel with the status of current and future chemical, biological and radiological weapons systems.

The subject matter presented will also include doctrine and concepts of employment relating to new detection devices, protective equipment and decontamination procedures now being developed by the Army.

used with the Components Test Station.

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Page 14 The Redstone Rocket — November 20, 1963

1. For Rent

FURNISHED APARTMENT—3 rooms and bath. Also has garage. 3202 9th Ave., W. Phone 534-2659. \$65.00 monthly. tlc

FOR RENT—2 bedroom unfurnished house, very nice, separate dining room, utility room, \$80.00. Call 536-0775 or 536-3657 tlc

HOUSE FOR RENT — 2 bedrooms, modern, furnished, fishing pier, boat dock, on Lake Guntersville. Phone 582-3178. 11-27c

FOR RENT — 3 room furnished apartment, private front and back entrance, air conditioned, natural gas heat, bath tub and shower, off-street parking, married couple only, \$75.00 per mo., 419 East Clinton St., phone 534-4551 or 534-5127. tlc

FOR RENT—Furnished apt. \$125.00 mo. includes all utilities, has living room-dining room comb. 1 bedroom, kitchen and bath. Exceptionally large rooms. 427 McClung Ave., S.E. Phone 534-4239. tlc

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tlc

FURNISHED APARTMENT FOR RENT — 427 McClung Ave., S.E. \$125 per month. All utilities furnished. One bedroom, kitchen, bath and combination parlor and dining room. All rooms very large. No animal pets or children. Telephone 534-4239. Mrs. Rollins. tlc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial 534-6452. tlc

HOUSE TRAILER PARKING — \$18.00 per mo. Convenient to Gates 2 & 3. Will accept one child over 3 years. 539-8743 before 10 a.m. tlc

FOR RENT — TV's, portables, UHF-VHF, by day, week or month. Phone 536-9761. Central TV and Stereo Co., Inc., Corner Governors Drive and Parkway. Open 8 a.m. to 7 p.m. daily. tlc

2. Cars For Sale

MUST SELL 1957 BUICK SPECIAL, Hardtop, power steering. Nice car, runs good. \$350. Phone 852-2063 or see at 2202 Phillips Road tlc

CASH FOR YOUR CAR—We need all makes and models. We will pay you more. We buy and sell imports, too. TEXAS AUTO SALES, Phone 536-6121. tlc

FOR SALE — 1959 — 190 Mercedes Benz sedan, radio, twin heaters, good engine, tires, upholstery, best offer. Phone 772-6940. tlc

OFF SEASON PRICE on air conditioned 1958 Chevrolet, Bel-Air, 4 door. Has power steering, good tires, new paint, original interior. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456 tlc

1959 V.W. Convertible, \$1145.00 Phone Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. tlc

GIVE-A-WAY PRICE—1959 Edsel, sound mechanically, new tires, new paint \$495.00. No money down. Payments to suit you. Phone Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. tlc

1959 OPEL STATION WAGON—Excellent condition, only \$580.00. Phone Texas Auto and Mobile Home Sales, 536-6121. tlc

WOULDN'T YOU LIKE to have a NICE old Cadillac? We have a 1955 2-door hardtop Cpe with power steering and brakes. New paint 2 new tires, original interior really worth \$495.00 Phone Mel Elkins or John Payne at Universal Motors, Inc., 539-7456 tlc

1958 VOLKSWAGEN STATION WAGON — Plenty of room. Only \$895.00 Phone Texas Auto and Mobile Home Sales, 536-6121 tlc

9 PASS. 59 PLYMOUTH—Wagon, power steering, power brakes. Almost new tires, engine overhauled last week. New battery, new starter, original white and green paint. Original nice interior. Sacrifice this week. Only \$995.00 Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456. tlc

1960 VOLKSWAGEN SEDAN — Motor just overhauled. Only \$995.00 at Texas Auto and Mobile Home Sales. Phone 536-6121 tlc

FINE 2ND CAR — No money down. \$450.00. 1956 Ford, new paint, new tires, auto trans. Mel Elkins or John Payne at Universal Motors, Inc., 539-7456. tlc

IF YOU HAVE LOOKED FOR A USED VOLKSWAGEN you should see this extra sharp one owner 1960 model nice blue finish. Price includes luggage rack. 2 year financing available. Call Bo Watwood or Gil Moody at Universal Motors, Inc. 539-7456 tlc

1963 DODGE DART—G. T. Cpe. Has all sports accessories. Huntsville one owner. Priced for quick sale. Will take trade-in. Call Mel Elkins or John Payne at Universal Motors, Inc. 539-7456. Save \$\$\$ tlc

CLOSE OUT PRICES on 3 Convertibles 1962 Ford, one-owner, like new, 1960 Ford, new top, excellent condition; 1960 Ford, 6 cyl., auto, new top, ladies' car. Come by and make us an offer. Must sell at some price. Texas Auto and Mobile Home Sales, 536-6121. tlc

1957 CHEVROLET, 4 door, green, extra nice. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc. 539-7456. Only \$795.00. tlc

BABY BLUE CONVERTIBLE — 1962 Volkswagen, 16,000 miles, off season price. Ready to go, guaranteed. Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456. tlc

POWER STEERING — Power brakes, radio, heater, white side walls, 1955, 2 door hardtop, Super '88' Oldsmobile \$450.00. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. tlc

1962 FIAT "1200" Sports car. White with black convertible top cream puff. Never been raced. \$1700.00 or nearest offer. 539-8878 after 5 p.m. "No Dealers." tlc

WE DARE COMPARE this 1962 Fairlane '500' Ford to any other car in town for being the sharpest. 28,000 actual miles. Perfect maroon exterior, matching leatherette interior, power steering, radio, heater, general whitewall tires. Phone Bo Watwood at 539-7456. tlc

1961 FALCON — 4 door, blue with white top has new tires, ready to go \$1095.00. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. tlc

PERFECT SECOND CAR—1961 Saab 30 mpg. Excellent condition, low mileage. \$595.00. 539-8743 tlc

1958 DODGE — 4 door, hardtop, Coronet. Power steering and brakes. The kind you would really like to have. Midnight blue with steel gray top. Financing to suit you. Phone Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456 tlc

1963 FORD FAIRLANE "500" — 4 door wine color, smells new, has all accessories. Sold new in Huntsville. Save hundreds of \$\$\$ off new car price. Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456. tlc

ECONOMICAL STATION WAGON 6 cyl., with O'Drive, 1957 Rambler Cross Country, sound mechanically in every way. Good tires. No dents, Southern car, good paint, originally nice interior, two-tone red and white, \$695.00. Call Bo Watwood for easy financing on this extra sharp wagon at Universal Motors, Inc., Phone 539-7456 tlc

1960 FORD FAIRLANE 500 — 2 door, white, O'Drive, 5 cyl. Original blue interior, seat belts, Radio, heater, new white side wall tires \$895.00. Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456 tlc

1958 BORGWARD — German luxury compact, white, red leatherette interior, 2 dr., 4 speed trans, excellent mech. cond., clean, \$375. Call Garth Stevick, 536-9231 after 6 or weekend. tlc

ECONOMY PLUS — Roomy 1958 Opel station wagon, sound mechanically, repainted to original gray color. Only \$695.00. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. tlc

V. W. PANEL TRUCK — New tires. Good mechanically, ideal for business or camper. Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456. tlc

1949 FORD PICK-UP TRUCK — A classic!!! \$395. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. tlc

1960 FORD FALCON — Black and white Deluxe. Reduced to \$995.00. Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456. tlc

1963 VOLKSWAGEN — 1500 station car. Red the new and different Volkswagen. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. tlc

EMMACULATE 1959 FORD — 2 door, red, 6 cyl. Original nice interior. 5 brand new tires Auto Trans, drives perfect \$895.00. Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456 tlc

3. Miscellaneous

ATTENTION MOTHERS—If you work, enroll your children in the Sunnydale Private School—Kindergarten through grade 6. Supervision will be provided for play and home work after school until 6 p.m. Accredited teachers, reasonable tuition, special emphasis on phonics, music and speech. For more information, Call 536-8444 evenings, 5 to 10 p.m. tlc

FOR SALE—Used Electric Stove and Refrigerator, excellent condition. Stove \$75.00, Refrigerator \$55.00. Phone 536-6121. tlc

SECOND CAREER FOR RETIRED MILITARY—Or active duty military planning retirement. To represent 97 year old national concern in Huntsville area. Complete training program. Applicant must have management potential and 5 figure income objective. Up to \$500 per month training allowance plus commissions to qualified representative. Non military with sales, teaching or exclusive background also eligible. Replies in strict confidence must include age, education, past experience and marital status. Write Personnel Officer, 1010 Frank Nelson Building, Birmingham 3, Alabama. 10-9 tlc

TYPEWRITERS — TYPEWRITERS — TYPEWRITERS — TYPEWRITERS — TYPEWRITERS — Used electric and standards, \$20 up. Easy terms guaranteed. 13011 So Memorial Parkway, (Farley) across from Redstone Park. Call 881-2659. 11-27p tlc

ABS SECRETARIAL SERVICE — 408 Clinton Avenue, W., Huntsville, Ala. Phone 534-6451. CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering, Employment applications prepared (Government and other), Notary Public. (Our office or yours). tlc

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PIANO TUNING — A service for those who want the best "Special" Night appointments for working people. Call any time, Athens 232-1574, Huntsville 881-3120. 11p

MODERN HEALTH CLUB SERVICES—Central Y.M.C.A., 203 South Greene St. is offering massages, turkish baths, electric heat, cabinets, ultra-violet and infra-red lamps, diathermy sun lamp, swimming pool. Graduate masseur in charge. Phone 534-2444. tlc

ALL KINDS OF USED FURNITURE Trade-in on mobile homes. All kinds of appliances. See at Texas Auto & Mobile Home Sales 1003 Meridian. No phone calls please!

CENTRAL VACUUM CLEANING—Quiet, efficient, and healthful house cleaning without the tugging and struggling with tanks and cords. Installed in any house. Call Atlas, 534-8712 for information. 11p

FOR SALE—2 antique rifles; 2 key \$5 Indian Gold pieces or will trade Gold for antique guns, or antique guns for Gold. Phone 773-6032 after 5 p.m.; 202 Rock St

FOR SALE—Newly reupholstered couch and chair, like new condition. Phone 539-0382 tlc

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North Alabama's largest sales and service dealer for Zenith, RCA and Motorola TV and Stereo. Our prices are equal to or lower than advertised so called "discount or wholesale" prices. Price, then compare. Our merchandise is visually priced tagged at all times. We accept trade-ins. Used TVs sold for \$20 and up. We service all makes and models. Picture tubes, 21 in. 90 degrees, \$21.00 exchange with 1 year guarantee. TV rentals by day, week or month.
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Phone 536-9761

4. Mobile Homes

CLOSE OUT PRICE on '63 National Deluxe Mobile Home, 55x10, front expands, raised roof, storm windows, completely furnished. Was \$5495.00. Reduced to \$4495.00. Hurry for this one. Texas Auto and Mobile Home Sales, 536-6121. tlc

SEE OUR FULL LINE OF — Mobile Homes — or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. tlc

1957 BUDDY — 47'x8', exceptionally nice \$400.00 down, \$55.00 mo. See at Texas Auto and Mobile Home Sales, 1003 Meridian St., phone 536-6121. tlc

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Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.
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5. Houses, Lots - Sale

WE CAN NOW BUILD you a three (3) bedroom brick veneer home fully completed to FHA or VA requirements on your lot with carport and storage for as little as \$49.77 per month, plus fire insurance, taxes, etc. No down payment and no closing cost. **CORNELIUS REAL ESTATE & INS. CO.**, 521 N. Broad St., Guntersville, Ala. tlc

FARM FOR SALE — 160 acres with old house more than 1/2 mile overlooking beautiful mirror lake will sell for small down payment, balance at \$50.00 per month plus interest only \$50.00 per acre. **Cornelius Real Estate Co.**, Guntersville, Alabama. Phone 582-3027 or 582-5313. tlc

FOR SALE at Twin Lakes Estates, Arab, Ala. — 3 bedroom, large living room, separate dining area, GE stove and oven unit, and 1/2 ceramic baths, large carport, on large landscaped lake front lot, 3 blocks of elementary Jr High School, FHA, \$100, and closing cost 100% G.I. From Arab 3 miles of Guntersville highway, turn right at Grassy Jr High School sign, turn left 1 block, open house Saturday and Sunday. Frank Adair, phone 586-4868. 11p

FOR SALE!
19 ACRES located 12 miles northeast of Cullman, 38 miles of Huntsville — COUNTRY ESTATES all city conveniences. Large 3 bedroom brick home, 2 good wells, 1700 sq. ft. of living space, large oak shade tree, 2 full baths, gas heat, large patio and barbecue pit, large barn, two 10,000 capacity chicken houses, good fish pond, fallout shelter, fenced and cross fenced. All this for only \$27,500.00.

22 ACRES, choice retirement property, tract located in a thickly settled community, 20 miles south of Huntsville on black-top highway. Area is a highly developed agricultural section. Has 6 room dwelling, 3 bedrooms, bath, fine well, good barn, won't last long. \$8,000.00. **E. G. WILLIAMSON**, Real Estate Broker, phone 734-6294, Cullman, Alabama. tlc

5/10/5 Post Liability \$10.00 a Year
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COLORED—If you have a good job, steady income and good credit you can buy a home in Love Sub-division V.A. or F.H.A. or we will build on your lot 100% financing. We have a few homes with payments from \$61.00 to \$65.00 per month.
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Arsenal Gives New Phone A Big 'Hello'

Gee Folks, Thanks!
Your Missile Command Information Office had no idea that the personnel for which it has internal information responsibility at Redstone were so eager to keep abreast of daily Arsenal news which affects them.

A couple of weeks ago a new telephone news service was inaugurated to fill the gap between daily happenings of importance to Redstone personnel and weekly publication of the Redstone Rocket.

Response to this new internal information program has been overwhelming . . . so overwhelming that the mechanical equipment planned for the project was not adequate to accept your reaction to the idea.

Arrangements are being made to provide equipment needed to assure that this within-Arsenal information service will do the job planned for the new program.

This will eliminate the busy signal now being heard so frequently when you dial 877-2164 because there will be sufficient equipment available to fill this internal communications need.

Your cooperation is sought during this interim in order that the

news service can be continued until the new equipment arrives.

Could we have a share-the-news program?

When you dial 877-2164 and get Redstone Arsenal News, pass it along in a few words to your desk neighbors.

The news is available eight hours, or 480 minutes per day. If just two persons are listening at one time, it can go directly to nearly a thousand persons per day.

If each of them will tell two, that is three thousand; when three thousand people each tell one another that freak weather is expected tonight, six thousand can be informed in a hurry and the first thing you know we are all informed about events of major interest and importance.

It will take but a few seconds, will save your time and will cut down on the number of calls coming in to the little black box which records the message and makes it available to callers who dial 877-2164 for Redstone Arsenal news.

Conscientious concentration by all on a share-the-news program will get important information to all personnel in a time frame in which you need to know it and will enable your Information Office to fulfill its assigned mission concerning internal information to you.

May we count on your help until we can accept all calls on a direct basis.

Religious Services

RELIGIOUS SERVICES—POST CHAPEL—BLDG. 3714

PROTESTANT

SUNDAY — 1000 and 1115 hrs., General Protestant Services. (Chapel Nursery open during these Services.)

Church School — 1000 hrs. — ages 3 years to adult. Classes for children and young people, grades 1 through 12, meet in Chapel Annex, Bldg. 3151. All military and civilian personnel, and their families are welcome.

Sunday Evening Worship—1900 hrs

CATHOLIC

SUNDAY — Masses — 0730, 0845, 1230, and 1700 hrs. (Chapel Nursery open during Masses.)

BAPTISMS — 1330 hrs., or by appointment.

TUESDAY — Perpetual Help Novena — 1930 hrs. Choir Practice — 2000-2100 hrs.

THURSDAY — Instructions — 1900 hrs. Confessions — 1800-1930 hrs. Mass — 1100 hrs.

DAILY MASS — 1100 hrs. (Monday through Saturday)

REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday School. 1100 hrs. — Morning Worship Service. 1800 hrs. — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hrs. — Evening Worship Service. (Nursery is open for both Services.)

JEWISH SERVICES

Conservative Jewish services will be held weekly each Friday at 2000 hrs. and each Saturday at 1000 hrs. at 2333 Poincianna Street, SW, Huntsville, behind the Scottish Rite Temple which is located at 314 Bob Wallace Avenue, SW.

Reform Jewish Services are held at Temple B'Nai Sholom 2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE, Huntsville. Sunday School at 0930 Avenue, Huntsville. For further information or transportation, call Christian Science Armed Services Minister, Collect 776-2791.

hrs. For further information concerning these Services, contact Rabbi Stein, 536-4771.

CHRISTIAN SCIENCE SERVICES — SUNDAY — 1100 HRS.

Wednesday services are held at 2000 hrs. at S. White and Wells

The Air Force Academy's Planetarium is fast becoming one of the West's most popular tourist attractions. Nearly 20,000 tourists visited it in August, a popular vacation month.



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ARMY INSPIRES SONGWRITERS

CHICAGO, ILL. (ANF)—Mention the names Irving Berlin, Frank Loesser, and Ernie Burnet and one almost automatically thinks of songwriters. Their names have also appeared on Army Morning Reports. Unknown to many — it was here—in the Army, that these song-smiths and lyricists composed some of their greatest classics.

As a member of the 89th Division of the American European Forces during the First World War, Ernie Burnet was badly gassed in an encounter at Soissons, France. Later, in a veterans hospital he wrote "Melancholy Baby."

Frank Loesser was making \$21 a month as a buck private during the early part of World War II when he wrote "Praise the Lord and Pass the Ammunition" and

"What Do You Do In The Infantry."

Irving Berlin also got his start in the Army. In 1917, as a sergeant he wrote "Oh How I Hate To Get Up In The Morning," and immediately became famous. He tried to get another song published while in a training camp, but the publisher would not take it. Nearly a quarter-century later with a different war brewing, the publishers had a change of heart and suddenly decided they liked it. The song? "God Bless America."

So, would-be songwriters serving in the Army take heart. Many of the greatest songwriters in America received some of their best ideas while in the Service.

BAILEY ESTATES

Located off Patton Road near Arsenal Gate One on Apollo Drive

BEAUTIFUL ALL BRICK HOMES

3 BEDROOMS — 1½ BATHS — HOLLYWOOD STYLE
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Tech Writers Discuss Technical Illustrations

The Huntsville Chapter of the Society of Technical Writers and Publishers met last Thursday at the Russel Erskine Hotel. Thirty guests and members were present.

The program was centered around technical illustrations and featured three speakers who discussed the subject from three different viewpoints. The speakers were Mrs. Mary Jane Hearn, Supply Manual Illustrator Supervisor, S&M Directorate; Daniel E. Wise, Pershing Project Technical Writer with the Thiokol Chemical Corp.; and Gary E. Glaser, Mgr. Special Projects Unit, Computer Dept., G. E. Co.

Mrs. Hearn, who spoke from an illustrator's point of view, took exception to the adage "one picture is worth a thousand words." She said that she had seen a "thousand pictures worth only one word—junk. Junk because they fail to communicate." She blamed not only the technical writers who originate the illustration requirement but the technical illustrators as well. She feels that tight schedules, low budgets and printing restrictions are merely excuses. The major causes of the trouble are the writer dictated concepts and the illustrators complacency in his role of servitude.

Mr. Wise spoke from the viewpoint of a technical writer and said that he felt that many technical illustrations are attractive from the art standpoint, but fail to communicate the technical information intended. He likened such illustrations to a two legged stool which may be pretty, but is nonfunctional. He agreed with Mrs. Hearn that illustrations often are poor because they reflect the technical writer's stereotyped concepts. However, he felt that this is often due to the illustrators failure to originate concepts of his own.

Mr. Glaser spoke from the viewpoint of an outsider not familiar with the intricate techniques of preparing publications. He felt that, for the most part, technical publications incorporating technical illustrations are doing a fine job. He felt that the aforementioned problems might be solved by better communications between scientist or engineer and technical writer and technical illustrator. He expressed surprise that the illustrator received his information second-hand and suggested that the illustrator should

Nike X Conference Called

Top level managers of the Army's new Nike X anti-missile System development program met last week at Redstone Arsenal from all over the United States and as far away as Kwajalein Island in the mid-Pacific.

The group, headed by Col. I. O.

be brought in on the problem at the beginning of each project.

The three presentations stimulated members and guests into an open discussion on points mentioned during the program. The consensus was, in general, that most publication organizations are writer oriented. As such, they are inclined to limit the graphic presentation of information to their own visual ability. And the maximum utilization of illustrator's capabilities and the full potential of illustrations to speed the communication of technical information are being wasted.

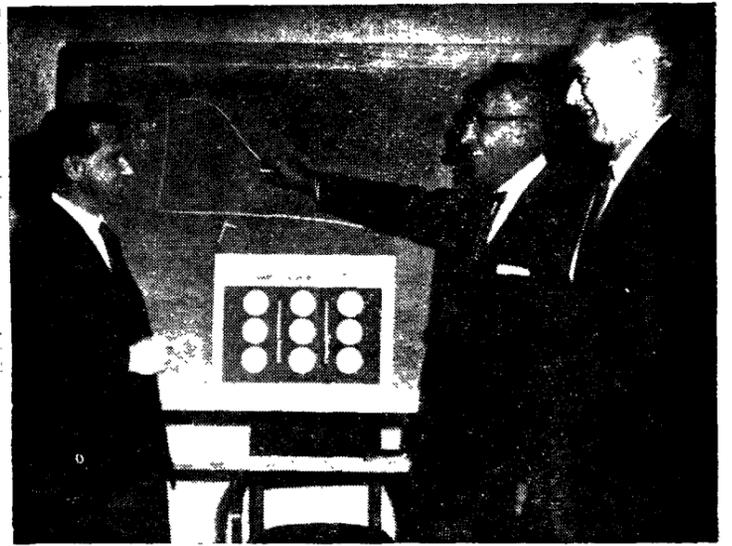
The next STWP meeting will be on Thursday, December 12.

Drewry, the Nike X Project Manager, with headquarters at Redstone, gathered to discuss development of the new system. Nike X is an advanced version of the Nike Zeus System.

Included in the quarterly meeting were Col. Glen Crane, Head of the System's Pacific Field Office on Kwajalein; Lt. Col. Edward Dooley, chief of the Project Manager's Staff Office in Washington; C. A. Warren, Project Director for Nike X at Bell Telephone Laboratories; and A. B. Kouwenhoven, Western Electric Company's liaison officer at Bell Telephone Labs.

Also present were J. W. Fitzwilliam, Chief of Multi-array Radar development for BTL, and E. P. Felch, who heads up development of the Sprint Missile at BTL.

Western Electric Co. is the Nike X Prime contractor and BTL has responsibility for system design and development.



VISITOR FROM DOWN UNDER—William G. P. Robertson (left) principal scientific officer from Australia's Weapons Research Establishment, traveled from springtime in Australia to autumn in Huntsville to discuss the ballistic properties of propellant ingredients with scientists of the Army Missile Command. Dr. D. C. Sayles (center) of the Propulsion Laboratory in the Directorate of Research and Development illustrates a point while Laboratory Director Frank W. James looks on.

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Von Mushlen Visits School

Klaus von Mushlen, a member of the Federal Republic of Germany's Bundestag (House of Representatives) visited the U. S. Army Ordnance Guided Missile School Friday.

Von Mushlen is a member of the Bundestag's Foreign Relations Committee and is visiting the United States for the first time. While here he visited various Army and NASA activities and met with German Army and Air Force students enrolled at OGMS. Lt. Col. Hans W. P. Finck, senior German liaison officer, was his official escort.

SEEK NEW AIRCRAFT WEAPONS

The development of a new generation of weapon systems to be adapted for firing from Army aircraft was considered at a two-day Technical Systems Management meeting held at Headquarters, U. S. Army Materiel Command, Gravelly Point, Washington, D. C.

Lt. Col. Nelson L. Lindstrand, Jr., Project Manager for Aircraft Weaponization, presided over the meeting, the first of its kind since the establishment of the Project Manager office. The meeting was called to review the present status of the Aircraft Weaponization Program as well as projected plans for future activities in this area.



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