

The Redstone Rocket

VOL. V; NO. 48

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 27, 1957



ABMA SCIENTIST HONORED FOR WORK
Dr. Wernher von Braun and Maj. Gen. J. B. Medaris

DR. VON BRAUN CITED FOR WORK

ABMA Scientist Gets 'Outstanding Rating'

Dr. Wernher von Braun has been given an "Outstanding" performance rating for his work in the Army Ballistic Missile Agency since Feb. 1, 1956 when the new agency was activated.

Maj. Gen. J. B. Medaris, who commands the Agency, presented the Civil Service certificate recognizing Dr. von Braun's service. The occasion also marked the rocket expert's 45th birthday. He resides in Huntsville.

The Agency noted the superior direction Dr. von Braun gave to his Development Operations Division, pointing out the Redstone missile has reached proximate weaponization and the Jupiter missile is developing far ahead of the originally planned schedule.

"Dr. von Braun has displayed exceptional ability," the Agency said, "in directing the work of the nine separate laboratories, welding them into a compact team which is sensitive to his expert guidance. This team which is sensitive to his expert guidance. This team with its multiplicity of skills, can carry a guided missile project through from preliminary design, component development, and fabrication, to final test firing."

Because of his organizational ability and "tremendous knowledge of the entire field," the Agency added, Dr. von Braun has increased the contributions of separate technical operations to achieve maximum team effort. He was able to adapt work operations to accommodate technical breakthroughs as they occurred, without disrupting the continuity of effort.

"Much of the team's effectiveness would be lost," the Agency continued, "were it not for Dr. von Braun's complete appreciation of the need for full cooperation with the military. He has impressed subordinates with the importance of being responsive to needs of the Dept. of the Army and Dept. of Defense, and maintaining a degree of flexibility which permits adjustment to changing interests, policies and mission assignments."

"In proposing and initiating new ballistic missile system projects" (See VON BRAUN on Page 2)



DR. LOGAN T. ROBERTSON

AREA DOCTORS MEET AT ARSENAL

100 Physicians From Six Counties Here

Dr. Logan T. Robertson of Asheville, N. C., will address the medical societies of Madison and five adjoining counties at Redstone Arsenal today.

The medical staff of Redstone and the Madison County Medical Society are joint hosts for the event. About 100 doctors from this area are expected to attend the evening session at the post Officers Club, following a daytime tour of Redstone Arsenal, the Army Ballistic Missile Agency, and the Ordnance Guided Missile School.

The doctors plan to make this an annual meeting. Counties represented will be Madison, Cullman, Morgan, Jackson, Limestone, and Marshall.

Dr. Robertson received his education at Yale University Medical School and the University of Cincinnati Medical School, graduating in 1942. For several years he engaged in general practice in Asheville, organizing a clinic, known as the Medical Arts Group.

For the past few years he has given up his private practice, and devotes all his time to furthering health maintenance among industrial workers. He and his staff provide full in-plant medical service to a number of industries in the Asheville area, and perform periodic physical examinations in the plants on medically equipped trailers.

Dr. Robertson serves as Consultant in Occupational Health to the Surgeon General of the Army.

The tour of this installation will include an inspection of the water treatment facilities and a demonstration by the Redstone safety office of personal protective equipment used in different laboratories and shops.

ENGINEERS CHIEF TELLS OF ATOMIC POWER REACTOR

The chief of Army engineers said here last week the nation's first atomic power reactor of practical size will begin operation April 28 at Ft. Belvoir, Va.

The plant will have a stated capacity of 2,000 kilowatts, although the actual capacity may be twice as great.

Maj. Gen. E. C. Itschner, in Huntsville on an orientation tour of the Army Ballistic Missile Agency and Redstone Arsenal, addressed 120 members and guests of the Society of American Military Engineers, Huntsville Post Thursday evening.

Gen. Itschner said the power reactor is "virtually completed" and will be dedicated April 28. It was built by the Atomic Energy Commission with Army participation. He described the Belvoir unit as a "pressurized water" (See ENGINEERS on Page 2)

'CREATIVE ENGINEERING' TECHNIQUE BRINGS LOTS OF IDEAS FOR ROCKETS

A system of creativeness akin to the "brainstorming technique" has been put to work in developing weapons at this Army rocket and guided missile center.

The result thus far has been a great number of ideas — both practical and far-fetched — which either have been or possibly will be incorporated in weapons systems of the future.

This "creative engineering" as the rocket builders call it, got its start here early last year when Redstone Arsenal's Rocket Development Laboratories appointed a group, which, for lack of a better name, was called the Special Projects Committee.

The goal of this committee was to encourage imagination creativeness among the Laboratories personnel, from janitor to director.

In practice, the Special Projects Committee is a free-wheeling thoroughly democratic group whose occasional meetings have much of the informal air of a backroom bull session. They have no by-laws, no organization chart, no chain of command — nothing that might tend to stifle free thinking and initiative.

The committee opens itself to all types of proposals of a technical or scientific nature which could conceivably have an appli-

cation in the missile weapons field. All of the several hundred employees in the Laboratories are invited to contribute, regardless of whether they work in the scientific and professional fields.

"Suggestions coming in to the committee" says John Womble, the Labs' deputy chief, "have ranged from the simplest improvement in a test procedure to a proposal for developing a nuclear energy power plant for long range guided missiles."

One of the ideas thrown in the hopper a year ago has already been incorporated in rocket motors for two different weapons, he said.

Quite naturally, some of the proposals have no feasible use today. But they may tomorrow — or next decade. So the committee, instead of ditching them, forwards them to the Pentagon where they might be needed to fill a gap 20 years hence.

The nature of the proposals submitted can be seen from these titles: "Light Anti-tank Weapon," "Proposed Investigation of the Effects of Ballistic Parameter Variations on Rocket Combat Effectiveness," and "Feasibility Study for Small Caliber Guided Rocket Weapons Systems."

Membership of the committee (See CREATIVE on Page 2)

NIKE-HERCULES CONTAIN THIOKOL SUSTAINER UNIT

The U. S. Army Ordnance Corps has revealed that the Nike-Hercules surface-to-air missile incorporates a Thiokol solid propellant sustainer unit.

This new missile has a higher velocity and a much greater range than the Nike-Ajax which has guarded key cities and strategic areas of the nation for the past three years.

The new missile, developed under technical supervision of Redstone Arsenal, is scheduled to be in the hands of operational Nike batteries in the very near future. Its higher velocity will permit swifter interception of the most advanced types of aircraft, and its increased lethality will make Nike-Hercules one of the most effective weapons in American defense areas.

The sustainer unit for this missile is only one of the many solid propellant power plants recently developed by Thiokol Chemical Corporation for the nation's most advanced weapons systems. The LaCrosse, Falcon, Matador B, RV-A-10 all incorporate this type of power plant.

According to a recent announcement by the U. S. Army and the Western Electric Company, prime contractor for the Nike System, this new version of the Nike missile is now undergoing final tests. Although longer, heavier, and more than double the diameter of Nike-Ajax, the Hercules model will have ex-

(See NIKE on Page 2)

LARGEST SOLID PROPELLANT UNITS TESTED AT REDSTONE, SAYS RITCHEY



DR. H. W. RITCHEY

Dr. H. W. Ritchey of Thiokol Chemical Corporation's Redstone Division declared last week at a meeting of the American Rocket Society that the largest solid propellant units ever tested have been tested here at Redstone Arsenal.

In a talk before 300 members and guests of the American Rocket Society, Dr. Ritchey gave a progress report on the solid propellant rocket engine state-of-the-art.

Recent tests of Thiokol solid propellant engines at Redstone Arsenal have represented the largest tested to date, he said.

Among the subjects discussed by Dr. Ritchey were recent development in propellants, engine components, and thrust control systems. He also presented (See LARGEST on Page 12)

NEW OGMS EDUCATIONAL ADVISOR IS MAN OF MANY, VARIED TALENTS

BY LT. DICK MANN
PIO — OGMS

A former concert pianist with a yen for deep sea fishing is the new Educational Advisor at the U. S. Army Ordnance Guided Missile School.

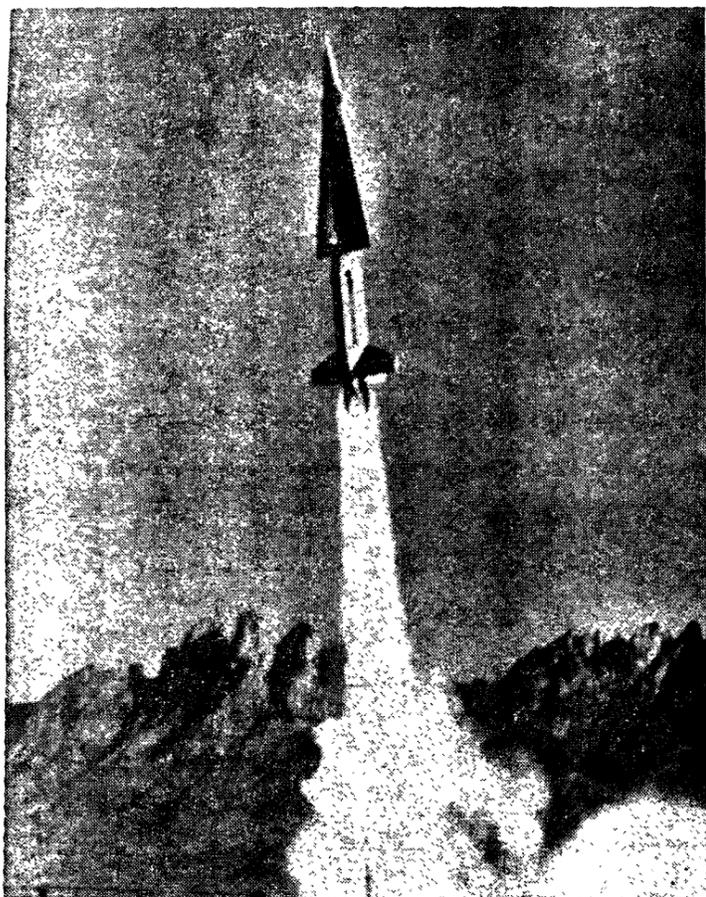
Dr. C. D. Leatherman, a native of Pennsylvania and son of a retired Lutheran minister, comes to OGMS from the Pentagon in Washington, D. C. where he held a variety of top-ranking jobs and taught on a part-time basis at George Washington University for the past 10 years.

He hasn't played on the concert stage since his high school days in Hummelstown, Penn. he's led a pretty busy life which has included a meteoric six-year rise from second lieutenant to full colonel during World War II. And, though connected with education since first enrolling at Gettysburg College in 1829, he's any-

(See NEW on Page 2)



DR. C. D. LEATHERMAN



HAS THIOKOL SUSTAINER UNIT—The Nike-Hercules, shown above in test firing at White Sands Proving Ground, N. M., incorporates a Thiokol solid propellant sustainer unit, it was announced last week by the U. S. Army Ordnance Corps.

The Redstone Rocket

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

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Creative

(Continued From Page 1)

rotates every six months, with continuity assured by a permanent secretary. The committee is composed of two members from each of the Rocket Development Laboratories' four labs. Committee members are named by lab chiefs from the ranks of both junior and senior scientists and engineers. Committeemen then elect their chairman.

At the end of the six-month term, each committee publishes a report summing up the proposals it has received, and making recommendations.

Commenting on the work of the committee, J. B. Galloway, chairman of the current (third) committee, said:

"We think this is an excellent method for the engineers and scientists to get their proposals across — and into the hands of a group that can help translate them into reality." He explained that the proposals are received either verbally or in written form, according to the desire of the originator.

Members of the present committee are: John M. Tate and Herman D. Milburn from the Materials Lab, Billy F. Hodges and George C. Travers of the Test and Evaluation Lab, Samuel L. Hardy and William B. Newby of the Design Engineering Branch, and J. B. Galloway and George M. Elrod, Jr. of the Operations Branch. E. R. Ford, Jr., is permanent secretary.

Von Braun

(Continued From Page 1)

jects, as well as related research projects, his tremendous knowledge had produced remarkable results. His wise determination of those projects which should receive major emphasis is in a large measure responsible for the extraordinary progress that has been made.

"His service as chairman of the Missile Development Board has been characterized by the same superior quality of performance typical of his other activities.

"In spite of the heavy operational demands on his time, he has managed to keep completely abreast of the newest developments in the missile field and related fields by his consummate ability to read and digest pertinent literature, research reports and papers.

"One of the most valuable qualities he possesses, seldom found among scientific or technical men approaching his level, is his ability to express himself when representing the Agency at high level scientific conferences and symposia as well as top-echelon military conferences. He has created favorable reaction to the Agency's needs and achievements."

Dr. von Braun has pursued missile work in the Army's employ since 1945. First at Ft. Bliss, Texas and later at Redstone Arsenal here, he directed research and development in the long range ballistic missile field. He

Engineers

(Continued From Page 1)
reactor with a generating capacity of 2,000 kilowatts, which we think we can double."

The capacity is approximately 10 times greater than that of an experimental plant which was placed in operation several months ago in Illinois, the general said.

The engineer chief spoke on guided missiles and atomic energy, "the two important areas of development in which the Corps of Engineers is playing vital roles."

He pointed to several of the more difficult jobs imposed on Engineers by the advent of guided missiles. Among them: manufacturing and transporting liquid oxygen, which has a vaporizing (boiling) point of minus 297 degrees. Liquid oxygen, used as a fuel in a great many missile systems, "can't be stored or transported without significant losses". Therefore it is necessary, he said, to manufacture the fluid in portable plants at or near the launching site.

Several liquid oxygen plants have been developed. One, a "knock down" plant, can manufacture 50 tons a day from ordinary air. Another, developed for close support, can turn out five tons a day. It is mounted on two semi-trailers.

Other specialized developments for missile support, he said, "include fire-fighting equipment, camouflage measures, means of air-conditioning and heating the control vans, and means of combating the erosion and dust stir-

NIKE

(Continued From Page 1)

treme maneuverability at altitudes far in excess of those capable of being reached by Ajax.

The Nike-Hercules is to be produced initially at the Douglas Aircraft Santa Monica plant and followed with additional production at the Douglas-operated Charlotte Ordnance Missile Plant at Charlotte, N. C.

According to an announcement by Secretary of Defense Charles E. Wilson, nuclear capability will be incorporated into the Nike-Hercules surface-to-air guided missile system.

transferred to ABMA when it came into existence as the Agency responsible for the Redstone Medium Range and Jupiter Intermediate Range Ballistic Missiles.

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New

(Continued From Page 1)

thing but a book worm. He'll talk your ear off about deep sea fishing, beat you at golf with a score in the low 80's (he once shot a hole-in-one on the Army-Navy Course in Washington), give you a run for your money on the pistol range, and entertain with an occasional twinkling of the keys on a piano or pipe organ.

An interest in guided missiles and electronics lured him to OGMS from his most recent position

ed up during the firing of some of the missiles.

"Since some of the electronic equipment has to be cooled with dry ice, we have had to perfect a system of plants to manufacture carbon dioxide, freeze it in blocks, and then cut the blocks into one-inch cubes."

He showed color slides of the new equipment he described.

Gen. Itschner was accompanied on his trip to Huntsville by Maj. Gen. C. Rodney Smith, assistant chief of engineers for civil works; Brig. Gen. Henry J. Hoeffler, South Atlantic division engineer; Col. Charles M. Duke, missiles project officer; and Col. Harold E. Bisbort, Mobile District engineer.

He was introduced by Col. A. H. Lahlum, assistant district engineer stationed here, who is president of the Huntsville Post.

as Senior Adviser and Chief of Research for Special Warfare, Department of the Army

Upon his separation from the Army in 1947 (he still holds the grade of colonel and remains active in the Army Reserve) he became Educational Coordinator for the Department of the Army. Three years later he directed a scientific and Specialized Manpower Project for the Army, and in 1951 moved into the job he held until coming to OGMS.

Meanwhile he remained active in the field of education by serving as a professional lecturer in psychology at George Washington University where he taught courses in personnel management, human relations, executive development, job analysis, and related subjects.

Like other Civil Service employes his job descriptions included "other duties as assigned," and during his ten years in the Pentagon he became involved with many additional responsibilities and activities.

He served as Army Liaison Representative on the National Security Resources Board for two years; on the Personnel Policy Board for one year; as Deputy Army Member on the Research and Development Board for five years; on the Munitions Board for one year; and assisted in making final reviews of all Army programs as a Deputy Member of the Program Advisory Committee for the Deputy Chief of

(Continued on Page 3)

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After entering the Army in 1941, he served as Personnel Consultant at the Infantry Replacement Center; on the Staff and Faculty of the Adjutant General's School; as Assistant G-1 (Personnel), VIII Corps, Third Army; Assistant Executive, Operations Division, General Staff, Europe; Executive Officer, Information and Education Division, Europe; and Personnel Staff Officer, Personnel and Administration Division, General Staff.

His military service included duty in connection with Joint and Combined Chiefs of Staff, assisting in the preparation of daily White House operations reports on a world-wide basis; and the supervision of a graduate training program on an Army-wide basis.

The son of Dr. and Mrs. C. G. Leatherman, 327 West High St., Hummelstown, Penn., Dr. Leatherman was educated at Gettysburg College (A.B. 1933); John Hopkins University (Ph.D. 1936) where he studied experimental, industrial, clinical, and social psychology; and the University of Pennsylvania where he has done post-doctoral work in labor relations, management, economics and psychology.

He is married to the former Olivia W. Watkins of Elliott City, Md. The couple has a daughter, Carol, who is in her sophomore year at Gettysburg College. She will transfer to the University of Alabama this fall. The fa-

Thiokol Personnel Director Also Directs Radio Program Series

L. E. Walter, personnel director of Thiokol, is directing a series of programs over Radio Station WHBP each Monday night at 6:45.

These programs feature poets, composers, vocalists, and musicians from Huntsville and surrounding areas. The artists present their own work, or the work of others in the same field.

Artists presented thus far have been: "The Rocket City Band," with Hodd Smith directing; Mrs. Emil O. Tolonen, reading poetry by her late husband, Emil O. Tolonen, and Helen Tucker Smith; Mrs. Anna Rosborough, reading poems from the works of Miss Howard Weedon; and Grady Reeves, reading poetry by Miss Doris Burwell.

Mrs. C. F. Beasley read from her own works the evening of March 25. Mrs. Tom Jones, Jr., on the evening of April 8 will present a program of special interest to all housewives. Succeeding programs will be announced from time to time over the air.

Mr. Walter has had considerable experience in radio. For a number of years he conducted programs over several stations in St. Louis which attracted nationwide attention.

During the last May Day parade, a policeman shoved past an onlooker who became very angry. "Don't you push me!" he snarled, "I'm an anti-Communist!"

"I don't care what kind of a Communist you are — move on!"

mily resides at 313 Cole Drive, Huntsville.

RSA CHAPEL GUILD TO BEGIN SERIES OF BOOF REVIEWS ON CHRISTIANITY

The Redstone Arsenal Chapel Guild will begin a series of book reviews on "The Philosophy of Christianity" as written by leading clergymen of the Jewish, Catholics, and Protestant faiths.

All arsenal wives are urged to attend. Free nursery service will be available.

The first review will be given by Mrs. Albert Ruenmele on "The Way to Happiness," by Bishop Sheen, at the April 3rd Chapel Guild meeting.

Mrs. Bailey Strain will review "Peace of Mind," by Rabbi Liebman, at the May 1st meeting.

This program is directed by Mrs. John Nickerson and will follow the regular monthly business meeting of the Chapel Guild on April 3rd, 1000 hours, in the Post Chapel, Bldg. T-151.

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(Continued from Page 1)

Staff. In 1948 he assisted the Army General Staff by preparing a plan covering scientific, specialized, and technological manpower which was later used by the Assistant Secretary of the Army for Manpower.

The author of, "Military Psychology and Personnel Management," as well as numerous articles in professional magazines in the area of personnel, management, and research, Dr. Leatherman has compiled a list of countries he has visited which reads like a travelogue.

He has traveled in England, the Western European countries, Greece, including Crete, the Far East, including Korea, Central and South America, Mexico, Canada, and every state in the U.S.A.

He is a member of the American Management Association; National Society for the Advancement of Management, in which he served as chairman of the Research Committee in 1948; American Association for the Advancement of Science; American Psychological Association; Lambda Chi Alpha; Sigma Xi; Kappa Phi Kappa; and the Masons.

Dr. Leatherman also served as president of the Parent Teachers Association; chairman of the Christian Higher Education Program for the Lutheran Church; and chairman of the building fund for his church while living

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FASHIONS FOR SPRING — Miss Betty Foxworthy and PFC. Frank Svesitka model casual wear that will appear tonight in the fashion show at the Rocket Service Club. The show begins at 8 p.m. and includes fashions for travel, casual wear, evening wear, and sports. Approximately 30 models will display both men's and women's clothes for all hours of the day and evening. There will also be a showing of authentic gowns of years gone by. The show is open to all military personnel, their friends and families.

UPPER ATMOSPHERE RESEARCHER TO BE SPEAKER AT IRE MEETING

Mr. W. G. Stroud, project supervisor of the upper atmosphere research for the Signal Corps Engineering Laboratories at Ft. Monmouth, N. J., will be the guest speaker at the meeting of the Institute of Radio Engineers to be held in the Orchard Room of Steadham's Restaurant on April 2.

Steadham's is located at the junction of highway 72 West and Jordan Lane.

Mr. Stroud will speak on "Rockets and Satellites in Upper Atmosphere Research."

The dinner meeting will begin at 6:15 p.m. and the technical discussion is scheduled for 7:30.

Mr. Stroud is a member of the National Board for the International Geophysical Year. He has published numerous papers in *The Physical Review*.

No dinner reservations are necessary, but everyone who is interested is cordially invited to attend, according to D. E. French, co-ordinator for the meeting. For further details, Mr. French may be contacted at Arsenal extension 2941 or at home, JE 6-2302.

committee were William C. Sayre, RSA, and Wilbur S. Davis, RSA.

The purpose of the committee is "to furnish guidance and assistance to appropriate educational institutions in the establishment and maintenance of graduate study curricula for personnel of this installation."

Capt. Winter Wins Commendation Ribbon With Pendant

The Commendation Ribbon with Metal Pendant (First Oak Leaf Cluster) was recently awarded to Capt. Robert H. Winter, Adjutant General's Corps, U. S. Army, Redstone Arsenal, for meritorious service during the period Nov. 9, 1953, to March 15, 1957.

Graduate Study Steering Committee Members Are Named

The following personnel have been appointed as members of the Joint RSA-ABMA Graduate Study Steering Committee, with concurrence of commanders involved:

Col. Thurston T. Paul, Jr., of ABMA; Lt. Col. John J. O'Connor, RSA; Lt. Col. Burleigh B. Drummond, RSA; Dr. Ralph C. Swann, RSA; Dr. Gilford G. Quarles, ABMA; Dr. William R. Lucas, ABMA; Dr. Charles A. Lindquist, ABMA; Dr. Helmut M. Sassenfeld, ABMA; Dr. C. D. Leatherman, OGMS; Stuart H. Jones, RSA; James J. Flanagan, RSA; Lewis L. Gober, ABMA; and James F. Dowdy, ABMA.

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March 25 — Schedule For Spring Quarter 1957 — June 7

COURSE	PREREQ.	HRS.
MONDAY - WEDNESDAY 6:00 - 8:00		
Biology 1-General Biology (plant) (Lab. Thur. 6-10)	None	4
CH. E. 12 (a)-Chemical Process Calculation-Part 1	Chemistry 2	3
Chemistry 2-General Chemistry (Lab. Fri. 6-10)	Chemistry 1	4
Economics 1-American Economic History	None	3
English 1-English Composition	None	3
English 2-English Composition	English 1	3
English 184-Technical Writing	Soph. standing	2
Mathematics 25-Analytical Geometry	Mathematics 15	3
Mathematics 49a-Differential & Integral Calculus	Mathematics 25	3
Mathematics 95-Differential Equations	Mathematics 51	3
MH 93-Strength of Materials**	MH 81 & Math. 51	3
Sociology 6 - The American Family	Sociology 1	3
MONDAY - WEDNESDAY 8:00 - 10:00		
Accounting 1-Principles of Accounting	None	3
Accounting 2-Principles of Accounting	Accounting 1	3
Business Law 51-Introduction to Business Law	Junior standing	3
Chemistry 1-General Chemistry (Lab. Fri. 6-10)	None	4
EE 3-D. C. Currents	Physics 6 & Math. 49*	3
English 5-English Literature	English 1 & 2	3
History 22-The United States since 1865	None	3
Mathematics 01-Elementary Algebra	None	NC
Mathematics 11- Algebra	None	3
Mathematics 15- Trigonometry	Mathematics 11	3
Mathematics 51- Differential & Integral Calculus	Mathematics 49	3
Physics 5c- Technical Physics (Lab. Tues. 5:30-8)	Mathematics 15	3
Physics 6c-Technical Physics (Lab. Thurs. 5:30-8)	Physics 5c or Physics 1	3
Psychology 1 - Introduction to Psychology	None	3
TUESDAY - THURSDAY 6:00 - 8:00		
Accounting 104 - Introduction to Auditing	Account. 53 & 101 Cert. Cr.	
Art 11 - Drawing (Tues. only 6-10)	None	1½
Art 37 a, b, - Ceramics (Thurs. only 6-10)	None	1½
Art 59 a, b, - Sculpture (Thurs. only 6-10)	Art 31-32	1½
Drawing 31 - Engineering Drawing I (6-10)	None	2
Drawing 32 - Engineering Drawing II (6-10)	Drawing 31	2
Drawing 33 - Descriptive Geometry (6-10)	Drawing 31	2
Economics 11 - Principles of Economics	None	3
German 2 - Elementary German	German 1	3
GES 12 - Engineering Preview	Math. 11 or GES 11	2
History 1 - History of Western Civilization	None	3
I. E. 49 - Manufacturing Processes	Soph. standing	4
Mathematics 11 - Algebra	None	3
Mathematics 15 - Trigonometry	Mathematics 11	3
Mathematics 49b - Differential & Integral Calculus	Mathematics 49a	2
M. E. 109 - Thermodynamics	M. E. 51	3
Physics 53 - Modern Physics	Phy. 1-2 or Physics 5-6	3
TUESDAY - THURSDAY 8:00 - 10:00		
Accounting 3 - Intermediate Accounting	Accounting 2	3
English 1 - English Composition	None	3
English 9 - American Literature	English 1-2	3
GES 11 - Engineering Preview	None	2
History 60 - Problems in American History	Perm. of Inst.	3
Marketing 53 - Marketing	Economics 11	3
Mathematics 73 - Theory of Equations	12 Hrs. of Math	3
Political Science 1 - Principles of American Government	None	3

* One of these may be taken concurrently with EE 3. Extra problem sessions will be required.

**Persons needing MH 94 may do extra work for this credit.

Any Classes Not Enrolling A Sufficient Number of Students Will Be Cancelled.



REDSTONE TEEN-AGE CLUB OFFICERS—New members of the Board of Governors of the Redstone Teen-Age Club are shown above at recent installation ceremonies. Left to right are Eugene Weiss, member at large; Miss Judy Stark, secretary; Miss Lucy Elliott, treasurer; Miss Jane Hart; Miss Diane Parker, president; Miss Jeanne Nickerson, vice-president and Mike Shinkle, representative for the 13 and 14-year-old age group. Not shown are Jack Matthews, sergeant-at-arms, and Arthur Hogan, Jr., representative of the 15 and 16-year-old age group. The Teen-Age Club was formed last October and now has about 50 members. They meet from 7 to 11 p.m. every Friday at Bl. T-161, the old Redstone service club. The group plans dances, hayrides, and other social functions. Members are the dependents of service personnel at the arsenal, plus dependents of the few civilian families living in the Wherry Housing area. Adult directors of the club are Sgt. Anton Weiss and Mrs. William O. Trotter. The adult board of governors is comprised of Lt. Col. Glenn P. Elliott, chairman. Maj. William Hawkins, Mrs. Walter Mulane, Mrs. Othal Ruark, and Sgt. Weiss.

Chemistry.

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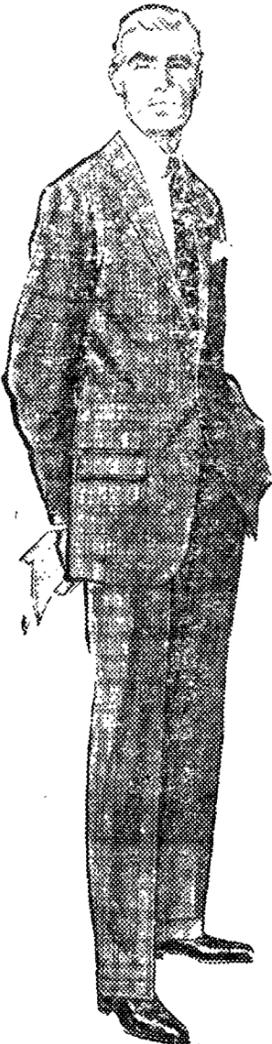
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University Center Begins Registration

Registration at the University of Alabama, Huntsville Center, began Monday, March 25. Late registration will continue until April 4.

More than 50 college level classes are being taught at the Center. Up to three years of college work may be earned at the University's residence Center in Huntsville. Courses are offered in the Colleges of Arts and Sciences, Commerce and Business Administration, Engineering, Education, and the School of

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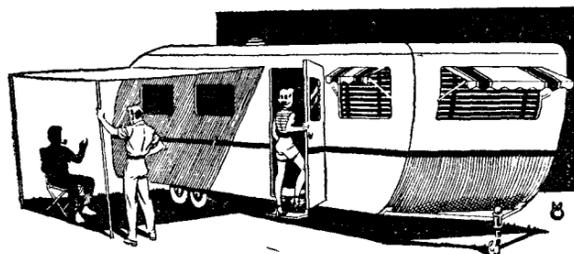
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LT. JOHN ARNOLD PLACES SECOND IN ALL-ARMY WRESTLING MATCHES

John R. Arnold, a first lieutenant assigned to the Research and Development Division at Redstone Arsenal, finished second in his weight class in the All-Army Wrestling Championships recently.

Lt. Arnold, the Third Army champion at 160.5 pounds, was one of seven Area champions from the United States and the Far East who competed for All-Army titles in eight weight classes at Ft. Bliss, Texas.

A standout grappler with the Cornell University matman prior to entering the service, Lt. Arnold lost the All-Army freestyle title to Fifth Army champion Larry Ten Pas, last year's National collegiate champion while at the University of Illinois.

Arnold and Ten Pas fought to a scoreless deadlock on points, but Ten Pas was voted the decision on the basis of aggressiveness.

Ten Pas and Arnold also finished 1-2 in the Greco Roman championships, a different style of no-holds-barred wrestling, with Ten Pas winning a split decision on aggressiveness after another 0-0 tie.

Arnold, who finished fourth in last year's Olympic Trials, fourth in the 1955 National AAU championships, and first in the 1953 in the Wilkes-Barre (Pa.) Open, posted two decisions and a pin on his way to second place in the freestyle division, and two pins and a decision in the Greco Roman wrestling.

In the freestyle division, Arnold won second from Far East champion Fritz Fivian, middle-weight champion of his native

Col. Ewbank Is Coach

POST'S FIRST TENNIS TEAM FORMED

Redstone Arsenal has formed its first tennis team to compete with other installations prior to a Third Army Tournament.

This year's team is under the leadership of Lt. Col. E. W. Ewbank, assistant commandant, OG MS, who has coached many tennis teams all over the world. Besides coaching, Col. Ewbank has had a splendid record as a top-flight tennis player and has competed in many Army tournaments.

The team has been practicing three times a week at the arsenal courts in the old troop area, and any military personnel wishing to compete for a place on the six-man team are requested to contact Col. Ewbank.

Switzerland who has registered victories over the champions of England, Canada, and the United States. Arnold beat Fivian, 3-0 on a takedown and near fall.

20 REPORT FOR TRACK PRACTICE

Some 20 men have reported to Track Coach William Hollenback. The men will be competing for places on 440 relay team, 100-yd. dash, and other track events and many field events including the hammer, shotput, etc.

The cinder-men's first dual meet will be held on 20 April at Fort McClellan. Other meets have been scheduled with Fort Campbell, Fort Jackson, and Sewart Air Force Base, in order to prepare Coach Hollenback's team for the Third Army Tournament to

be held this year at Fort Jackson. Although the prospects are high for a good season, Coach Hollenback could use any additional personnel who are interested in participating.

Post Pistol Shooters Compete in Two More Matches in Florida

After the recent National Mid-Winter Pistol Matches at Tampa, Fla., five members of the Redstone Pistol Squad fired at the Coral Gables Police Match on 11 March.

Corporal Richard McKee won prizes in three matches and the grand aggregate prize in the Marksman class.

At the Flamingo Pistol Matches on 12-15 March, Cpl. McKee won 12 places out of 21 matches including second place on the grand aggregate of Marksman class, with a score of 2196 out of a possible 2700 points, for a prize of an electric deep-fat fryer. As an additional reward, Cpl. McKee found upon his return to Redstone that he had been promoted to SP-2.

Lt. Rutledge won third place in the slow-fire .45 caliber match in the Marksman class. Maj. Vernon Dawson was high scorer among the Redstone squad with 2315 out

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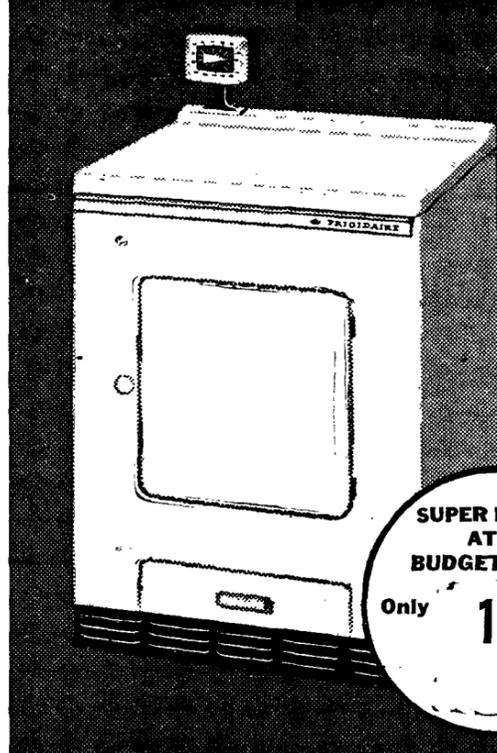
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A PLEASANT SURPRISE — M/Sgt. Floyd M. Hamilton, first sergeant of the 1st Enlisted Training Detachment, Ordnance Guided Missile School, received a double surprise recently during his confinement to the Post Hospital. Sfc. Robert F. Payette (right), acting first sergeant of Hamilton's company, presented a desk set, pen and pencil set, travel clock, and change purse from men in the unit. Mrs. Hamilton and children, David, (far left) and Mike, also surprised the patient with a visit from the family's home in Ellenwood, Ga.

SQUAD FROM POST PARTICIPATES IN NATIONAL PISTOL MATCHES

A squad of 10 officers and enlisted men of the activities at Redstone Arsenal participated in the National Mid-Winter Pistol

Matches at Tampa, Fla., 2-9 March.

Aggregate scores for the individuals were as follows:

Lt. Col. Bruce Pierce, RSA, 22-35 - 34, (34xs) (Team Capt).

Maj. Vernon Lee Dawson, RSA, 2195 - 21.

Capt. Frederick L. Young, US ABMA, 2334 - 31.

Capt. Luther G. Walker, OGMS, Departed after first match on emergency leave.

Sgt. Jose Gonzales, US ABMA, (Det. B) 1941 - 11.

Cpl. Richard J. McKee, OGMS, 2181 - 19.

Sp/3 Harry B. Newman, III, US ABMA (Det. A), 1908 - 17.

PFC Charles R. Del Pino, ABMA (Det. A), 1763 - 9.

Pvt. Paul D. Poe, ABMA, (Det. A), 1937 - 16.

Pvt. Scott L. Cheslik, ABMA, (Det. A) 1989 - 25.

Col. Pierce and Maj. Dawson

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MOVIE SCHEDULE

Wednesday, 27 March 57, "The Ladykillers" starring Alec Guinness (Mature) Time 1900.
Thursday, 28 March 57, "Ten

fired in the "Sharpshooter" class. High score for this class was 24-56 - 53. Cpl. McKee fired in the "Marksman" class. High score for this class was 2366 - 46.

All members of ABMA fired in the "Unclassified" class. High score, 2432 - 51; low, 1524 - 26. PFC. Del Pino fired the low score for the group.

Awards, a first-place trophy for the "Center fire, slow fire" match was won by Capt. F. L. Young, firing the .38 special revolver. Cpl. McKee won a third place medal in the "Center fire, timed fire" match. All personnel qualified for the Sharpshooter, Expert, or Master Medals. All members of ABMA qualified for the "Expert" or "Master" medals.

"Thousand Bedrooms" starring Dean Martin, Anna Maria Alberghetti and Eva Bartok (Family) Time 1830 and 2030.

Friday, 29 March 57, "Crash Dive" starring Tyrone Power, Anne Baxter and Dana Andrews, Time 1900.

Saturday, 30 March 57, Walt Disney's "Cinderella" (Family) Time 1900.

Sunday, 31 March 57, "The Tall T" starring Randolph Scott, Maureen O'Sullivan, and Richard Boone (Mature) Time 1830 and 2030

Monday, 1 April 57, Closed
Tuesday, 2 April 57, "The Iron Sheriff" starring Sterling Hayden (Mature) Time 1900.

Wednesday, 3 April 57, "Voodoo Island" starring Boris Karloff (Mature) Time 1900.

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ARMY MISSILE PROGRAM WILL YIELD PEACEFUL DIVIDENDS, MEDARIS SAYS

Army rocket and missile programs will "one day yield large dividends in peaceful pursuits," Maj. Gen. J. B. Medaris, commanding the Army Ballistic Missile Agency, declared last week. Gen. Medaris dedicated new facilities at the Jet Propulsion Laboratory in Los Angeles. The Laboratory is managed by the California Institute of Technology under Army Ordnance sponsorship.

Declaring that man stands on the threshold of the Missile Age, Gen. Medaris said "we have launched the 20th Century transportation system by applying rocket power to transport warheads over vast distances at incredible speeds.

"We have found a new highway in outer space where giant missiles can travel without regard to time, weather, or terrain. We have found that by using short bursts of great thrust, we can launch these carriers and that they will travel hundreds and thousands of miles without further power supply.

"We have devised sensing and guidance systems which not only keep the missile on course, but will deposit it directly upon targets we have never seen.

"An obvious sequel to the military use is the substitution of other cargo for warheads. Man and those things he requires to sustain himself in any environment can be transported from one location to another by guided missiles within incredibly brief time spans.

"Eventually man will employ the rocket, whether chemically fueled or powered by atomic fis-

sion or other technically understood sources, to explore the universe. We have reached that point in missile development at which the necessary technology has unfolded."

Paying tribute to the advances registered by JPL scientists dating back to the opening of World War II, Gen. Medaris said that only under Government auspices can the nation support fundamental research and development programs prosecuted zealously and without interruption.

Cuthill Addresses Auto. Engineers At Washington Meet

The Society of Automotive Engineers at Washington, D. C., heard about the Army's guided missile program and the use of engineers in the research and development work at the society's recent meeting.

The speaker was R. W. Cuthill, deputy director of the Army Ballistic Missile Agency's Industrial Operations Division. The subject of the talk was "The Role of the Automotive Engineer in the Development of Guided Missiles."

Mr. Cuthill, a native of Pennsylvania, is a graduate of Drexell Institute of Technology in Philadelphia, Pa., where he received a degree in mechanical engineering. He has been with the Missile Agency since its activation in Feb. 1956.

Read the Wantads for Bargains

TOASTMASTERS HOLD ANNUAL SPEECH CONTEST

Area 5 of Toastmasters International held their second annual speech contest March 16 at the Decatur Country Club. The speech contestants were chosen on the basis of outstanding speaking ability and by competitive elimination to represent their clubs.

The speakers met during the afternoon to draw for speech titles and prepare their speeches. During this time an area training council was held for all outgoing and incoming officers.

In the evening the Toastmasters and their wives and guests enjoyed a dinner and fellowship hour before the contest. Pete Weisse from the Mason-Dixon Club of Huntsville was Toastmaster for the evening.

Dick Cole of the Florence Club spoke on "Forgotten Words". Bill Lingenfelter of the Redstone Club spoke on "The Suez Crisis." Roger Clapp of the Mason-Dixon Club of Huntsville spoke on "The Cold Years." Paul Markwood of the Decatur Club spoke on "You Are There." Jim Flanagan of the Huntsville Club spoke on "The

Last Casualty." The winner, selected by a panel of judges, was Paul Markwood of Decatur. Dick Cole won second place.

The District contest, in which Markwood will represent Area 5, will be held at Montgomery on April 16.

While the judges were making their decision, the guests were entertained by the Dixielanders Quartet, who represent the Roc-

ket City Chapter of the Society for Preservation and Encouragement for Barbershop Quartet Singing in America.

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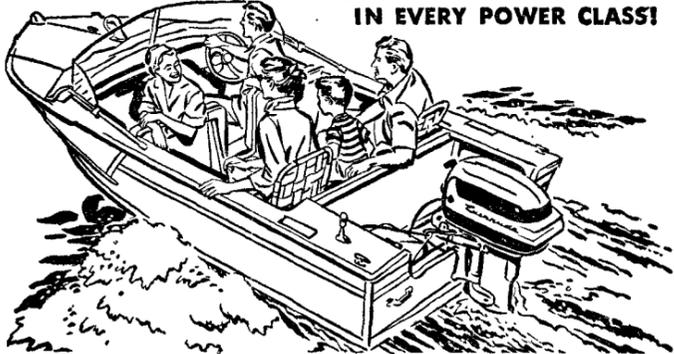
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Art Gentry

With this article, we find that time brings us to the end of March and the beginning of spring and—with Spring in the air, our thoughts turn to a change in the program and activities; fishing, golf, picnics, mosquito bites and red hot sunburns. They wouldn't be good if just "pinkish". Along with spring comes the famous bug, too—You know, the one we call the "travel bug". Believe-you-me-I've been bitten, 'cause I'm ready to go. When this time of year comes, it's just like taking on a new lease for life. Everyone seems to come out of their old, wintry beaten shell and become re-charged. I can hardly wait to get a nice tan (for two reasons)—The first one being, you look different and the second one being that I can only afford to buy hose 9 months out of the year and mother nature provides me with a good substitute the other 3 months (That's the only time I can save a little mon).

Well, let me see, I wonder how many of you fellows know just exactly what Special Services here at Redstone has for your use and entertainment for outdoor activities for the spring and summer months. Here at the Service Club, we are going to have an outside patio with tables and umbrellas (umbrellas being for those who might be allergic to the sun and also to keep the sun out of the card players eyes. We plan to use the patio for various activities, such as: card playing, dancing, parties and relaxing. Then—we are in the process of building an archery range (with all the equipment) and setting up a badminton court (with all equipment) and—we will have a golf practice driving range immediately behind the Service Club. All of this will be ready in about one month. Also, we have some fine lighted tennis courts, located down by the old Service Club. The tennis rackets and balls can be checked out here at the Club. Also, for you fishermen, you may go to Special Services Supply, Bldg. No. 640, and check out boats, trailers, fishing rods and reels, life preservers, etc. Be sure to call ext. 3966 to make boat reservations, and best of all—Special Services maintains a lighted picnic area on the river, which has several large barbecue pits, fishing from the bank, a large covered building with tables, beautiful green grass and plenty of parking place. Just a great place to spend a day of relaxation and fun. And—Special Services also maintains the picnic area by the swimming pool—There you will find several barbecue pits, tables with or without fanning equipment (tables, that is) and snack bar.

Now, I ask you, just what more could a fellow want to find to do in the summertime? Sorry we can't furnish girls with the boats and picnic area and the tennis courts etc, but we find that to be a difficult at the present time. We'll keep trying, though. Seriously, I believe we have a great deal to offer you for your summer activities so plan to visit us often.

Captain Davis, the Special Services Officer, is most conscientious about the Special Services Program for the troops. The more he can offer the EM, the happier he is. In case you don't know this

gentleman, he is the 6' 3", Texan that you see not walking, but running every place he goes, trying to get umpteen things done at the same time. If you would like any information on any Special Service activity or service, such as building location, hours of operation, etc. please call extension 2501 or 4531 and get the answer.

Well! (What makes you think I work for Special Services?) Anyhow, now that we know what we can do here at Redstone Arsenal during the spring and summer months, let's find out what's going on at the Service Club these last few days in March.

The big, big nite, (beside our name-band nite) for March is tonight. Yes, the 1957 Spring Fashion Show will be held at the Rocket Service Club tonight at 1930 hours. Now boys, please don't chain your wives to the bed for fear they will get too many ideas for buying new clothes. All of you EM be sure to come to your Service Club tonight and bring the love of your life and your guests

Friday nite is dance night. Buzz Raynes and his orchestra will play so-we'll be looking for all of you dancers about 2000 hrs.

Flash! Big News! There will be 75 young ladies coming from Chattanooga, Tenn. to attend the Friday night dance March 29 so

boys make your plans now. Come over and give the girls a big rush so they will be sure and come back.

Oh yes, Thursday night has been designated as PINOCHLE PARTY nite soooooo if you enjoy the game do come. Prizes and refreshments will be served—need I say more?

This Sunday, 31 March the Dixielanders, The Rocket City Chapter for the Society For The Preservation and the Encouragement for Barber Shop Quartet Singing in America (SOPEBSQSA) will present a concert. You have heard them before, know they are GREAT, so we'll see you Sunday at 1500 hrs.

One last item—We have three EM who are leaving Redstone Sunday 31 March to go to Ft. Benning, Ga. to participate in the All-Army Entertainment Contest. They are Pvt. Barry Davis, singer, Sfc. John Murat, trumbone player and Pfc. "Hank" Namamura, spoon player. Let's wish these fellows all the luck in the world—
See you next week and 'till then—

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Proceeds to Charity

MILITARY POLICE ASSOCIATION

Local Military Police personnel will participate next week in the First International Golf Day, to be sponsored by the Military Police Association.

The matches, proceeds from which will go to charity, will be played April 4 and 5 at the Huntsville Country Club course, it was announced by Maj. Joseph M. Hancock, Assistant Provost Marshal for Redstone Arsenal.

The Golf Day event will be open to all members of the Military Police Association, Military Police, and their invited guests in related law enforcement fields, such as civil police, security guards, etc.

Each participant in the event will compete (using the hand-cap system) against one of the greatest golfers of modern times, Jackie Burke, Jr., who won the coveted Masters Tournament at Augusta, Ga., last year. Local scores will be posted against Burke's score for the third round of the upcoming 1957 Master's Tourney. For those golfers who do not have an established club handicap, the Callaway system of handicapping will be used.

Entrance fees have been established at \$1.25, of which 25 cents will go to MPA for promotional and award expenses and the remaining dollar to a local charity to be designated by the Provost Marshal, Lt. Col. Arthur Hogan. Fees will be collected at the course by the MPA golf coordinator, Maj. Hancock. For further details about participation in International Golf Day, contact Maj. Hancock at Arsenal extension 3632.

"For all golfers scratch and dub alike, Golf Day will provide an excellent opportunity to compete against one of the foremost players of today, Jackie Burns, Jr.," Maj Hancock stated. "Of

equal import, however, this first international event will provide a means for the Military Police and their friends to strike a note of charitable good will all around the world."

Lt. Col. V. P. Murphy Flown to Washington For Possible Surgery

A Redstone Arsenal officer who suffered a severe brain hemorrhage last week was flown to Walter Reed Hospital in Washington, D. C., for possible surgery.

Lt. Col. Vincent P. Murphy, assistant deputy post commander, had a hemorrhage of the spontaneous subarachnoid type, post hospital officials said. His condition is still listed as serious.

Col. Murphy, who assumed his present post here only a few weeks ago, was previously stationed in Korea. He is married and has three children, five, three, and two years old.

ABMA Writer's Novel Now in Paper-back

"The Dice of God," Hoffman Birney's latest novel of the Old West, may now be obtained in paper-back form at news stands in this area.

Originally the book appeared in a Henry-Holt and Company edition.

At present, Mr. Birney is deputy chief of the Reports and Publications Section at the Army Ballistic Missile Agency. He has written 24 or 25 books on various subjects including stories for juveniles.

Birney is also a book reviewer for the New York Times magazine. He is now working on a style book for ABMA.

West Point Grads Observe 155th Birthday of Academy At Dinner

More than fifty U. S. Military Academy graduates in the Huntsville area observed their alma mater's 155th birthday with a Founder's Day Dinner at the Arsenal last week.

The dinner is a traditional annual affair held throughout the world where West Point graduates are serving. The group brought together at the Officers Open Mess by old school ties last week was the greatest since the event has been observed here.

Joining in the singing of, "On, Brave Old Army Team" and "Black, Gold and Gray" in the latter-day spirit of unified service were also representatives of the Navy, Air Force, and United Kingdom. Attending the function were: Cmdr. William Kurtz, Navy Liaison Office, ABMA; Capt. Bailey T. Strain, Air Force Development Field Representative, RSA; and Maj. Gen. Valentine Boucher, Commander, British Army Staff Washington.

Notably absent was Maj. Gen. H. N. Toftoy, Arsenal commander, who is undergoing a series of operations at Walter Reed General Hospital, Washington. He wired his regrets, saying, "I will be with you in spirit."

Brig. Gen. John A. Barclay, Class of 1931, gave the main address.

"May the words 'duty, honor, and country' continue to guide and inspire us to live up to the ideals of West Point," he said.

The academy was founded in 1802. There were 10 cadets in the first class.

Today, about 2,500 men attend the academy. Graduates are awarded bachelor of science degrees and are commissioned second lieutenants.

Missilemen Director, Baritone Will Be Presented in Recital

The Past Presidents Assembly of the Huntsville Music Study club will present Keneth Turvey, organist, and Fred Steele, baritone, in an hour of devotional music at 3 p.m. Sunday, March 31, at the First Methodist Church.

BAVARIANS TO USE ROCKETS TO SHOOT HAILSTORM

Of interest hereabouts, where rocketry is a bread-and-butter matter, is a report from Bavaria on a very basic bread-and-butter use of rockets. Bavarians this summer will attempt to employ small rockets to "shoot down" hailstorms.

Reuters news service reports

from Munich, West Germany, that the weather service will launch rockets laden with silver iodide into hail clouds in the hope that the hail will turn into harmless rain or tiny ice crystals. Hailstorms in this area cause hundreds of thousands of dollars in damage every year. . .

Eighteen hundred small rockets (costing \$9.52 each) have been prepared for the offensive. They will climb to heights of 3000 to 4000 feet and explode, scattering the chemical.

And so evolves another possible peacetime application of rocketry.

ch. The public is invited. Mr. Turvey, minister of music at the First Methodist Church, is also director of the post singing group, the Missilemen and Maids.

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Rohm & Haas Company and Thiokol Chemical Corporation were among the many Huntsville businesses and industries which were visited last week by Madison County teachers in connection with Business-Industry-Education Day.

BIE Day, which was sponsored by the Education Committee of the Huntsville Chamber of Commerce, gave high school and junior high school teachers in Madison County an opportunity to see how businesses operated. Participating were almost forty local manufacturing plants and businesses.

At Rohm & Haas, teachers were greeted by Allen Deschere, general manager, shown a film, "Molecules to Missiles" describing the Redstone Division, and given a tour through the laboratories by Dr. Warren Neiderhauer, Richard Gerges, and Dr. Louis Brown.

At Thiokol, teachers were greeted by Dr. William Mebane, general manager, and were shown a film on solid propellant rocketry. Business aspects of Thiokol were discussed by administrative department heads including Calvin Sanderson, Lawrence Lacy, Frank Quinn, Ed Cabiness, and Col. John Lawrence. The group was then given a brief tour of the rocket engine manufacturing and test facilities.

In welcoming the teachers at Rohm & Haas, Allen Deschere pointed out the interest of the local division in good schools. "Our feeling," said Dr. Deschere, "is that the quality of the community is directly related to the quality of its schools. We are anxious to assist the schools in any way we can. Please feel free to call on us if we can be of help."

Fourth '1-Time Drive' Balloon Is Returned: Was Found in Tenn.

A fourth balloon launched in November to herald the Arsenal's One Time Drive has been returned.

It was found by Roy Sloan, Rt. 4, Madisonville, Tenn. Madisonville is about 35 miles southwest of Knoxville, and more than 150 miles from Huntsville.

Mr. Sloan has been sent a ticket to the moon, which was promised to anyone returning one of the 30 balloons launched at the Arsenal airstrip.

Three balloons were returned previously from Alabama, Georgia, and Tennessee.



3 Clues To Better Grooming Visit

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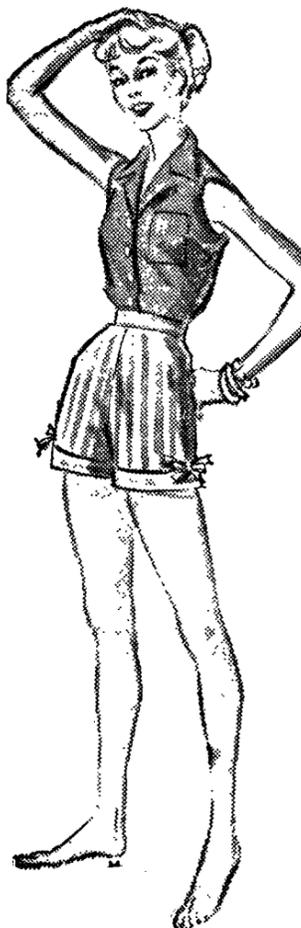
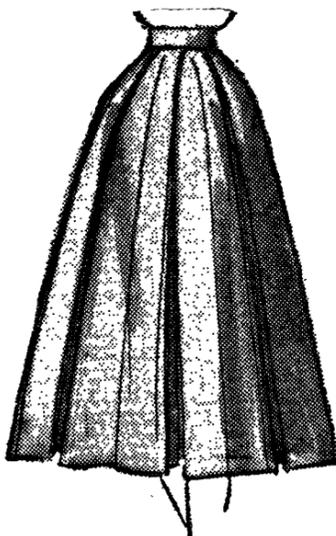
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Reserve Officers Hold Installation

Maj. Paschal E. Redding, Jr., was installed as president of the Huntsville chapter of the Reserve Officers Association of the U. S., at a recent dinner and meeting. Attending the function were

approximately 60 officers and their wives.

Col. John O. Lawrence, former chief of the Alabama Military District, installed the association's newly elected officers: Lt. Cmdr. Edward D. Sweeney, vice-president; Capt. Mitchell R. Sharpe, vice-president for Army; Lt. John N. Graham, vice-president for Navy; Maj. Carl L. Jones, vice-president for Air Force; and Capt. P. F. Nunnally, Jr., secretary-treasurer.

Col. Lawrence, speaker of the evening, told the group that the object of the association is to

support a military policy that will provide adequate national security, and to assist in the development and execution of that policy.

The following committee chairmen, appointed by Maj. Redding, were announced at the meeting: Capt. A. A. Demetriou, membership; Lt. Cmdr. Edward D. Sweeney, program; Col. Chauncey W. Huth, public relations; Lt. Col. E. E. Jungerman, attendance; Maj. Cecil E. Hammett, national defense; and Maj. Francis J. Buckley, legislative.

Wantads Get Results

Redstone Military Liaison Group Will Transfer to Bl. 713

The offices of Redstone's military liaison group will move from Bl. A-101 to Rooms 111 and 113 of Bl. 713 on Friday, March 29.

The group consists of the following: Office of the Chief of Engineers Liaison Office — Lt. Col. Neal Haggard; U. S. Army Signal Engineering Laboratories Liaison Office — Capt. Robert N. Ramsey; U. S. Continental Army Command Liaison Office — Capt. Roscoe H. Monroe; and U. S. Air Force Field Development Representative—Capt. Bailey T. Strain.

Largest

(Continued From Page 1)

data on a rocket he has performed preliminary calculations on which will propel a one-pound payload to the moon.

He compared rockets based on present state-of-the-art with rockets now in wide usage in missile programs and demonstrated the great increase in performance that can be obtained by using recent advances in solid propellant rocket technology. Dr. Ritchey's talk also included slides, a motion picture, and a simulated television report from the moon.

WANTADS

WILL SACRIFICE for quick sale — 3-bedroom home, electric heat, large lot, plenty of built-in cabinets. Located 706 Garland Ferry Road, Scottsboro, Ala. For further information call Sam Barnes, Huntsville, JE 4-0890. tp

FOR SALE — Warner Ave. (Daniels Addition). Practically new 3 bedroom frame home, with 2 ceramic tile baths, living room and dining room combination. Kitchen has natural birch cabinets, 52-gal. water heater, carport and paved driveway. Priced at \$13,500. Call us for further details

FOR SALE — 617 Hermitage: Beautiful 3 bedroom home located on south side. Has separate dining room, fireplace, plastered walls, 2 floor furnaces, city sewage and all assessments paid. Only 2 blocks from Blossomwood School. Assume equity of \$5,550, balance \$8,000. Monthly payments \$61.75. SAVE now on a 4 per cent loan for only 18 more years. Immediate possession.

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Real Estate Broker

BABY SITTING — Infants to toddlers preferred, near arsenal. Phone JE 6-1537. MRS. RAY DENNY. tfc

FOR SALE — 1957 Chevrolet V8 210. Must sell. Private Stan Reidenbach, Redstone extension 2484 'til 3 p.m., or extension 2907 after 5 p.m. ttc

WILL BABY SIT — From four years up, am near arsenal on Jordan Lane Park. Phone JE 6-2586. MRS. EDWARD RILEY. ttc

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