

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

APRIL 9, 1958

DR. JOHN P. HAGEN

Vanguard Director To Address Physicists At Convention Here

Over 300 physicists from 11 Southeastern states will convene in Huntsville this week for the 24th annual meeting of the Southeastern Section of the American Physical Society, to be highlighted by addresses by the two men who directed the launching of America's Explorer and Vanguard satellites — Dr. Wernher von Braun and Dr. John P. Hagen.

Dr. von Braun, top scientist at the Army Ballistic Missile Agency at Redstone Arsenal, and Dr. Hagen, director of the Navy's Vanguard Project, will speak at a symposium Friday afternoon (April 11) on the subject of "Artificial Satellites."

The American Physical Society convention will get underway on Thursday (April 10) and will continue through Saturday. Meetings will be held at Redstone Arsenal. A tour of the installation is slated Thursday.

The following states will be represented by delegations: Alabama, Georgia, Tennessee, Mississippi, Louisiana, Missouri, Kentucky, South Carolina, North Carolina, Virginia and Florida.

The 24th anniversary dinner of the Section will be held at 6:30 p.m. Friday at the Shalamar Supper Club in Huntsville.

Principal speaker for the dinner will be Norman J. Oliver, of the Air Force Cambridge (Mass.) Research Center, who will discuss "The International Geophysical Year." Oliver is chief of the Center's Ionospheric Physics Laboratory.

At the Friday symposium, Dr. von Braun will talk about "Earth Satellites, Past and Future." Dr. Hagen's topic has not been announced.

Dr. Charles A. Lundquist, of the Army Ballistic Missile Agency, will preside over the symposium.

Other principal participants will be: Dr. Allen Hynek, of the Smithsonian Institute's Astrophysical Laboratory, Washington, D. C., who will speak on "Tracking Artificial Satellites; A New Astronomical Problem"; Dr. A. R. Hibbs, of the Jet Propulsion Laboratories, Pasadena, Calif., on "Determination of Optimum Launching Altitude for a Satellite"; and Dr. Walter Haussermann, of the Army Ballistic Missile Agency, on "Spatial Altitude Control of a Spinning Rocket Cluster."

At other meetings during the three-day gathering, original technical papers will be presented by top physicists from throughout

the southeast. Representing the host installation will be eight employees of the Research Laboratories of the newly established Army Rocket and Guided Missile Agency: Dr. J. Richard Haskins, Dr. Erich Pieruschka, J. P. Hallows, Jr., Dr. Walter W. Wharton, Dr. T. A. Barr, Jr., Charles Cason, and Richard E. Ely.

Their subjects will be as follows: Haskins — "The 496 KeV-122 Key Cascade in the Decay of Ba-131"; Pieruschka — "The Signal to Noise Ratio of a New Type of Pulse Code Modulation"; Hallows — "Response of a Non-Linear System"; Wharton and Barr — "The Effects of Driven Oscillations on Combustion in Tubes"; Cason and Barr — "Experiments in Thermally Ionized Gases at Redstone Arsenal"; Ely — "Tensile Behavior of Cellulose Acetate Butyrate as a Function of Rate and Temperature."

The local committee in charge of arrangements for the convention includes Dr. Roger W. Clapp, Jr. (chairman), and Dr. Thomas A. Barr, Jr., both of ARGMA; Dr. Charles A. Lundquist, of ABMA; and Dr. E. Scott Barr, Dr. Eric Rodgers, and Dr. Robert N. Whitehurst, of the University of Alabama, Tuscaloosa, Ala.

Training Program Set For Sunday School Teachers at Chapel

Chaplain Hughes is beginning a training program for Sunday School teachers at the Post Chapel. These courses are built upon a curriculum proposed by the National Council of Churches in America. The courses will be for those who either are teaching or are interested in teaching children of nursery, kindergarden, primary, or junior levels. This, of course, covers the youth from three years of age through the sixth grade. Each of these courses will be about four or five hours in duration.

Although these courses have as a primary motive the training of Sunday School teachers for Protestant programs here at Redstone, all those who may be interested in participating in similar programs in the city are invited to participate.

At present no specific time has been established for any of the courses. They can be arranged so as to fit in with the schedules of the participants. If you are in-

ASSOCIATED PRESS GROUP TO VISIT

150 Due Friday For Newsmen's Tour

Some 150 members and guests of the Alabama Associated Press Association attending the Association's annual convention in Huntsville this week will tour the arsenal Friday.

The Alabama group will have as their guests newspaper officials from a number of papers in Tennessee and Georgia.

The Huntsville Times is host for the local meeting.

The following publications and organizations will be represented.

ALABAMA — Anniston Star, Birmingham News, Birmingham Post-Herald, Decatur Daily, Dothan Eagle, Florence Times, Gadsden Times, Huntsville Times, Mobile Press-Register, Montgomery Advertiser and Journal, Tuscaloosa News, The Associated Press, University of Alabama Journalism Department.

TENNESSEE—Bristol Herald-Courier, Chattanooga Times, Chattanooga Free Press, Clarksville Leaf-Chronicle, Knoxville Journal, Knoxville News-Sentinel, Nashville Tennessean, Nashville Banner, Shelbyville Times-Gazette, Union City Daily Messenger, The Associated Press, Memphis Commercial Appeal.

GEORGIA — Atlanta Journal, Atlanta Constitution, Augusta Chronicle, Columbus Enquirer, Moultrie Observer, Thomasville Times-Enterprise, Rome News-Tribune, Waycross Journal-Herald, Cartersville Tribune-News, Newsweek (Atlanta Bureau), The Associated Press.

Bids Are Invited For Work on Additional Treatment Plant

Army Engineers have issued invitations to bid for the construction of an additional water treatment plant at Redstone Arsenal.

Col. Harold E. Bisbort, U. S. Army District Engineer has announced that bids for building the plant will be opened at his office, 2301 Grant Street, Mobile, Ala. on Thursday, April 17, 1958, at 11 a.m.

The plant will consist of a treatment building approximately 112 feet by 34 feet, with a 52-foot by 34-foot wing, and an open steel shed and tank for ammonia storage. The main building will be a one-story structure with a two level basement, having masonry walls above ground. In addition to necessary utility and piping systems, it will include a laboratory and storage space for chemicals.

The contract for the plant will include the construction of a service drive and parking area, walks, outside utilities, a drainage system, and a chain link fence.

Interested, please call Chaplain Hughes at Ext. 2409 for further details.

Col. Clark Named Deputy Commander of ABMA



COL. MILTON H. CLARK

Col. Milton H. Clark is the new Deputy Commander of the Army Ballistic Missile Agency, Brig. Gen. John A. Barclay, Commanding General, has announced.

Col. Clark was formerly Chief of ABMA's Research and Development Liaison Branch. In that capacity he was responsible for maintaining liaison with other Army agencies engaged in missile work, the sister services and industrial contractors. He joined ABMA two years ago, and served a year as the Agency's Executive Officer.

The shift in assignment results from the establishment of the U.S. Army Ordnance Missile Command at Redstone Arsenal. General Barclay became the ABMA Commander earlier this week after having served as deputy for nearly two years.

It was also announced that Lt. Col. Nathan I. Reiter, Jr., has been made Chief of the Operating Services Office, successor to the Headquarters Commandant organization. He had served previously as deputy chief.

Chief Warrant Officer Ernest A. Brown, formerly the Military Personnel Officer, became the ABMA adjutant.

Col. Clark, the new Agency Deputy Commander, received his commission upon graduation from the U. S. Military Academy in 1937.

During World War II he earned three battle stars in Africa and Italy. In 1953 he was assigned to Korea where the Korean government awarded him the Uchi Medal with Silver Star. He has also been awarded the Legion of Merit and the Army Commendation Ribbon.

Prior to his assignment to ABMA he was Chief of the Ammunition Branch in the Research and Development Division, Office, Chief of Ordnance. He is the son of Mrs. Elizabeth B. Clark, Hot Springs, Calif. Col. and Mrs. Clark and their three children reside at Redstone Arsenal.

Col. Reiter came to ABMA last year after serving as Commanding Officer of Lake City Arsenal, Independence, Mo.

He studied at New Mexico A&M and State College of New Mexico, and entered the Army in 1940. He served in Europe during World War II and has been awarded the European Theater Ribbon, Commendation Ribbon, American Theater Ribbon, American Defense Medal, World War II Victory Medal, Army Occupation Medal, Good Conduct Medal, Armed Forces Reserve Medal and National Defense Service Medal.

43 Received Into Catholic Sodality

Forty-three Catholic ladies and young people were received into the Sodality of the Blessed Virgin on Easter Sunday at the Post (See 43 RECEIVED on Page 6)

Thiokol Reorganization Told by Dr. Mebane

Dr. W. M. Mebane, General Manager has announced the recent reorganization of the Redstone Division of Thiokol Chemical Corporation. The reorganization will facilitate efforts under expected new programs and distribute responsibilities more effectively for rocket engine research and development.

Under the reorganization, Dr. Mebane has two Assistant Managers; Dr. H. W. Kitchy, also Technical Director of Thiokol's Rocket Divisions, and J. W. Wiggins, formerly Assistant Technical Director of the Redstone Division.

Remaining in their previous assignments are Calvin Sanderson, Chief of Administrative Departments; A. L. Snyder, Division Controller; and Jack Harbarger, Chief Safety Engineer.

Reporting directly to management are eight operating departments: Rocket Engineering Department, headed by Max Rubin; Pilot Lines Department, under William Fiser; Test and Inspection Department, headed by Joseph Pelham; Engineering Service Department, directed by Matthew Weber; Operations Services Department, under William Dunlap; Chemical Research Department, with Dr. James A. Farr as director; Process Development Department, headed by William Haite; and Development and Technical Services Department, led by Crafton Mangum. These are the same operating departments that existed prior to the reorganization. (See THIOKOL on Page 2)

SIGNAL OFFICE BUSINESS PROVES MISSILE-MAKERS PROLIFIC WRITERS

(Photos Inside)

It's apparent from the volume of business at the Post Signal Office at Redstone Arsenal that scientists and their cohorts are not only prolific thinkers—they're also prolific communicators.

Approximately 7 million word groups are transmitted over the Arsenal's teletype machines every month. Messages go out from the communications centers ("comcenters" to the initiated) to all parts of the country. The two major "comcenters" are located in the Army Ballistic Missile Agency headquarters and in a building opposite post headquarters.

These aren't the only senders, though. There are auxiliary stations in many offices such as Finance, Purchasing and Contracting, and others who send a great number of teletype messages. These latter trunks are called ponies by the Signal men, but pony express was never this fast.

Comparatively, the number of words sent would fill 150 books the size of "Peyton Place." And

the messages are sometimes much more exciting, because "Peyton Place" deals with the lives of one town, whereas the straight and cryptographic messages from the "comcenters" effect lives all over the world. There is even a classified room where teleconferences can be received. The receivers look like a TV screen.

Other services include outlets in the Army Command and Administrative Network, commercial teletypewriter exchange service and Western Union. The first is referred to as A-CAN.

This is just one phase of Signal activities. Capt. Thomas J. Bigler is the Post Signal officer, and directs this far-flung operation.

Post Signal administers, operates, and maintains all fixed communication systems and services at Redstone Arsenal for all the agencies, contractors, and people who live on the post. Neither time nor weather keeps the Signal people off the job. A Signal man on a roof at Capehart is probably (See SIGNAL on Page 14)

Explorer III Fulfilling Mission

WASHINGTON, D.C.—Latest assessment of the performance of the IGY satellite, EXPLORER III, known to scientists as 1953 Gamma, indicates that it is completely fulfilling its scientific mission.

The National Academy of Science's IGY Committee disclosed last week that the satellite's somewhat eccentric orbit is providing scientific data which actually prove considerably more valuable than that which would have been available from a less eccentric orbit.

According to Dr. James A. Van Allen, member of the Committee's technical panel of the earth satellite programs and chairman of the panel's working group on instrumentation, the "tremendous sweep" of the orbit, from 117 to 1,740 miles above earth, is

"splendid for cosmic ray research."

Dr. Van Allen, who is chairman of the Department of Physics, State University of Iowa, reported that the 1958 Gamma's transmitters and tape recorder are working properly. Dr. Van Allen and his students designed the cosmic radiation apparatus which is the principle one carried by the satellite.

Referring to EXPLORER III's perigee which is the closest to the earth of any satellite orbited to date, Dr. Van Allen said: "We almost tie onto the cosmic ray data from vertical rocket firings of the past few years. This close sweep to the earth is allowing us to build up a profile of cosmic ray information at various altitudes from 117 miles to more than

1,700. From all indications the satellite will outlive the batteries and we are quite delighted with this orbit."

EXPLORER III is gathering for the first time cosmic ray information which is representative of a satellite's total orbit. Its small magnetic tape recorder is continuously recording cosmic ray data, then storing it up for transmittal to a single point on each trip around the earth. Dr. Van Allen has estimated that this is many times more valuable than the scattered cosmic ray data available until now.

Information on temperatures and micrometeorites and also cosmic ray information is being continuously telecast to earth by the satellite's low powered transmitters. (See EXPLORER on Page 2)

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hofhaus, 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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THIOKOL

(Continued From Page 1)
Coordination of the operating departments is accomplished by a staff under the direction of John Goodloe, Coordinator of Operations.

Two typical staff functions to management are the Research Staff and the Projects Management Staff. Dr. W. F. Arendale is Director of the Research Staff, and D. B. Myers is Director of the Projects Management Staff. Existing programs currently under development at the Redstone Division are assigned to the various project managers in the Projects Management Staff.

EXPLORER

(Continued From Page 1)
mitter.

Another benefit coming from the unplanned low perigee orbit will be data on the vehicle's drag as it reenters the atmosphere. It is possible, if the batteries last longer than planned or if the lifetime is shorter than expected, that the transmitters would be functioning when the satellite reenters the atmosphere. If this occurs valuable information will be gathered on the temperature to which the satellite is subjected.

The Army Ballistic Missile Agency launched the 1958 Gamma from Cape Canaveral, Florida on March 23 by means of a JUPITER C rocket vehicle developed jointly by ABMA and the Jet Propulsion Laboratory, California Institute of Technology.

The Naval Research Laboratory, which is tracking the satellite, calculates that EXPLORER III's perigee (closest distance to earth) is about 117 miles and that its apogee (furthest distance from earth) is about 1,750 miles. The satellite's lifetime is now expected to be at least as long as the lifetime of its batteries—around 2 months.

\$1,558 Donated to Fund For Post Employee's Wife

A total of \$1,558.94 has been raised so far on this installation and in Huntsville through voluntary contributions to a fund to

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NEW CHIEF OF ORDNANCE—
Maj. Gen. John H. Hinrichs was appointed Chief of Ordnance on April 2, succeeding Lt. Gen. Emerson L. Cummings. Gen. Hinrichs has been in the Office of the Chief of Ordnance since 1951, following an assignment on the staff and faculty of the National War College. At OCO, he has been deputy chief of Field Service and later became Chief while also serving as assistant Chief of Ordnance. In September, 1955, he was appointed deputy Chief of Ordnance. During World War II he served in the mid-Pacific area. Gen. Hinrichs is a graduate of the U. S. Military Academy and holds a degree in mechanical engineering from the Massachusetts Institute of Technology. Among his decorations are the Legion of Merit and the Bronze Star.

provide the wife of an Army Rocket and Guided Missile Agency employe with an expensive heart operation.

Of this amount, \$784.79 was contributed by personnel of Field Service Division, ARGMA. Following is a further breakdown of donations: \$362, ABMA; \$17, Quality Assurance Section, Industrial Division, ARGMA; \$50 Huntsville City Police Dept.; \$45, Huntsville Knights of Columbus; \$103 Huntsville Benevolent Protective Order of Elks Lodge No. 1648; \$197.15, miscellaneous. In addition, the Athens Hospital Auxiliary has served as the collection agency for contributions totaling about \$500.

The fund is being collected for Mrs. W. A. James, of Athens, victim of a heart condition. Doctors say an operation is imperative within the next six months. It will cost about \$5,000.

Mrs. James' husband works in a supply unit of ARGMA's Field Service Division. A fellow employe there, Tom Childress, is spearheading the collection of contributions for Mrs. James by Huntsville Benevolent Protective Order of Elks Lodge No. 1648, of which Childress is an officer.

Mr. Childress said that the Jameses have already spent a considerable amount in the past few months on medical bills, and that Mrs. James has refused to have



FRANCIS J. BUCKLEY, JR.



ROBERT F. MELLO



GORDON L. HARRIS

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Gen. Medaris Names Chiefs Of AOMC Legal Office, PIO, Civilian Personnel Office

Coffee Brewing Demonstration Set

A visual and practical demonstration of coffee brewing, the elements involved, and the results achieved will be presented by Col. William J. B. Cline, (Ret), Armed Forces representative of The Coffee Brewing Institute, for food service and other interested personnel, at Redstone Arsenal on Wednesday, April 16th.

The demonstrations will be at 0900 and 1400 hours in the old post theater, Bl. T-3170.

A feature of the presentation will be a color motion picture of a coffee plantation in Latin America, which shows how coffee is planted, cultivated, and harvested.

The Coffee Brewing Institute, a non-profit research and educational organization, cooperates with the military in presenting this program which has the full endorsement of the Armed Forces, according to E. G. Laughery, president.

During the brewing demonstration, three specially designed urns will be used for the purpose of enabling personnel to see what happens throughout the brewing process. Col. Cline will use the first urn to stress the importance of cleanliness. In the second he will demonstrate common errors made in the preparation of beverage coffee, and in the third he will brew coffee in accordance with the recommendations of The Coffee Brewing Institute.

Throughout the demonstration, Col. Cline, in addition to explaining each step of the brewing procedure will discuss the importance of the brewing formula, cleanliness, grinds, the time factor, correct measurement, consistency, temperature, and the proper relationship that must be maintained if satisfactory results are to be achieved. At the conclusion of the meeting there will be a question-and-answer period, and the personnel will be invited to taste the coffee from each urn.

the operation if it means placing her family heavily in debt.

Childress asked that persons on the installation who wish to contribute make out checks to "The James Fund," and mail them to BPOE No. 1648, P. O. Box 352, Huntsville, Ala., or give their donations personally to any officer at the Elks Lodge on Franklin St.

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Maj. Gen. J. B. Medaris last week named these three new members to the growing staff of the Army Ordnance Missile Command:

Francis J. Buckley, Jr., Chief, Legal Office; Robert F. Mello, Chief, Civilian Personnel Office; and Gordon L. Harris, Chief, Public Information Office.

All three have occupied the same positions in the Army Ballistic Missile Agency. For the present, until the new organization is fully manned and operational as a completely separate unit, they will continue to work for both the Command and the Missile Agency, the Commanding General said.

Buckley became a member of the ABMA staff two years ago when he transferred from the Legal Office in the Office, Chief of Ordnance, Washington.

He is a graduate of Stones Business College, New Haven, Conn., and he later received LLB and LLM degrees from the College of Arts and Sciences, Georgetown University, Washington.

Buckley was a member of the Armed Forces from April, 1942 until December, 1945 when he was discharged as an Infantry major.

He is a member of the Veterans of Foreign Wars and a former member of the District of Co-

lumbia Bar Association.

He is married to the former Miss Mary Veronica Donerty of 325 Silver Spring, Md. They live in Huntsville.

Mello, the Personnel Chief, was formerly comptroller at Benicia Arsenal, Benicia, Calif.

He is the son of Mrs. Estelle Seiverson of 307 South Seaward Ave., Ventura, Calif. He is married to the former Miss Phoenix Everly of Richmond, Calif. They have two children and live in Guntersville.

He is a member of the Native Sons of the Golden West and the Armed Forces Management Association.

Harris is a former Dover, N. J., resident who joined ABMA in 1956. He is a graduate of Columbia College where he attended the Pulitzer School of Journalism. He was for 25 years associated with a Dover newspaper as editor and president of the publishing firm.

He holds a commission as lieutenant colonel in the Army Ordnance Reserve. He saw overseas duty during World War II and the Korean War.

In addition to his newspaper experience, Harris has contributed articles to a number of magazines and conducted radio news and sports programs. He resigned the presidency of the Dover Board of Education to accept the ABMA post. Prior to coming to Huntsville, he was chief of the Management Engineering Office at Pictinny Arsenal, N. J.

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SAFE PLACE TO WORK—The chief operator at the Post Telephone Exchange hands out safety pins to operators who have worked here for five years without an accident. They are (left to right) Burmah Lee, chief operator; Mamie George, assistant to the chief; Helen Kamm, and Helen Gipson. William Horton does the same for the men in the maintenance and operating end at the telephone exchange. Left to right are: Charles Wann, LeRoy Fletcher, Leo Neal, and Horton, the central office lead foreman.



SUSTAINED SUPERIOR PERFORMANCE—Harold W. Vanderveen (right) receives the congratulations of Brig. Gen. John G. Shinkle, commanding general of the Army Rocket and Guided Missile Agency, for his sustained superior performance during the six-month period ending January 1, 1958. Vanderveen is a supervisory equipment specialist at the Redstone Depot. He also received a cash award and a letter of appreciation signed by Gen. Shinkle.

Conviction He's Helping Make History Keeps Test Launch Coordinator on Job

CAPE CANAVERAL, Fla.—A deep conviction that he is helping to make history prompts Robert E. Moser, test coordinator for Army missile and satellite launchings, to say that he will "stay on the job."

Moser is one of the handful of men trained for and experienced in the complex task of launching giant ballistic missiles at this Test Center.

He got into the work while

serving in the Army in August 1953. Because of education and background he was classified as a specialist and assigned to Redstone Arsenal, Huntsville, Ala.

When he left the service May 5, 1955 he accepted a Civil Service appointment and continued in the same job.

"It was simply a matter of taking off one suit and donning another," he commented.

Standing over 6 feet tall, spare

and quiet of manner, Moser fills a key position in the Army missile development programs.

He conducts the countdown procedure and also functions as deputy chief, Guidance and Control Group, in the Army Missile Firing Laboratory. It is a part of the Army Ballistic Missile Agency which developed the Redstone Missile System, supervising production of the Jupiter Intermediate Range Ballistic Missile, and launching scientific earth satellites as part of the International Geophysical Year.

Moser has participated in all Redstone, Jupiter and Jupiter C launchings except the first Redstone, fired in August 1953. He missed that one because of a mix-up over his security clearance.

He married the former Carolyn Montgomery of Roanoke, Va. Dec. 22, 1957. They live in Eua Gallie, Fla. near the Cape. Mrs. Moser holds a master's degree in mathematics. She is working for an Air Force contractor here.

"We don't talk about our work at home," observed Moser. "There are times when she knows what I'm doing, and times when I know what she is doing—but we don't discuss it. It's a kind of crazy situation, but I divorce myself from my business when I leave the Cape. It's the only way you can be sure that you don't break security."

He works under supervision of Dr. Hans Gruene, deputy to Dr. Kurt H. Debus, the Firing Lab director. Discussing his work day, Moser emphasized the importance of the "team in the spectacular launchings."

"No one man pushes a button," he pointed out. "I have no button in front of me, but I am in direct phone contact with all the people involved."

Five other members of the "team" operate the consoles in the blockhouse, under Moser's watchful eyes. It is he who determines when it is necessary to "hold"; i.e., to delay the countdown. Dr. Debus or Dr. Gruene are usually at his side instantly if any problem develops.

The son of Mrs. Edna M. Schloupe of West Palm Beach, Fla., Moser attended schools in Johnstown, Pa., where he was born Aug. 23, 1928; in Hagerstown, Md. and Daytona Beach, Fla. He completed high school there.

He received a bachelor's degree in electrical engineering from Vanderbilt University in 1950 and went to work for Westinghouse Electric Co. in Pittsburgh. Later he transferred to Baltimore to work in the Air Armament Division of the same company. He was a systems engineer participating in design and development work for an auto pilot system used in the Lockheed F94C interceptor plane.

In January, 1954, after induction into the Army, he manned the gyro control panel in the Army blockhouse here. This monitors the missile control system during checkout. Now he

supervises the Gyro Section and five others: Control, Guidance, Network, Special Instrumentation, Electrical Engineering Design and Facilities. He is responsible for 60 employees and 10 military personnel.

Dr. Debus rates Moser one of the most valuable members of the "second generation" of missile experts being developed by the Army.

Moser finds it anything but boring. "You always meet something new in the day-to-day work. Anxiety is very high as we near the time of launching, but that keeps up our morale."

"The team spirit," he added, "from top man to janitor couldn't be better."

While preparations for missile launchings have become fairly routine, "we're always conscious of the outcome of our work," Moser said.

"The future of missiles is unlimited," he said firmly. "I believe that manned space flight is

inevitable, but it's hard for one in my position to hazard a guess as to when. The satellite research work now being carried on is of utmost importance. Only in this way can information be obtained which will determine how and when man can enter space."

In spare time, Moser is an amateur photographer and hi-fi enthusiast. He likes to paint.

A brother, William, is in the insurance business in Chattanooga, Tenn. Mrs. Moser's parents, Mr. and Mrs. D. Paul Montgomery, live in Greenville, S.C.

When traveling, wrap powder, perfume, and medicine in aluminum foil to protect clothing. Place wet washcloths in foil and keep in glove compartment of the car to clean children's hands en route. Foil is also handy for keeping sand out of a camera taken to the beach.

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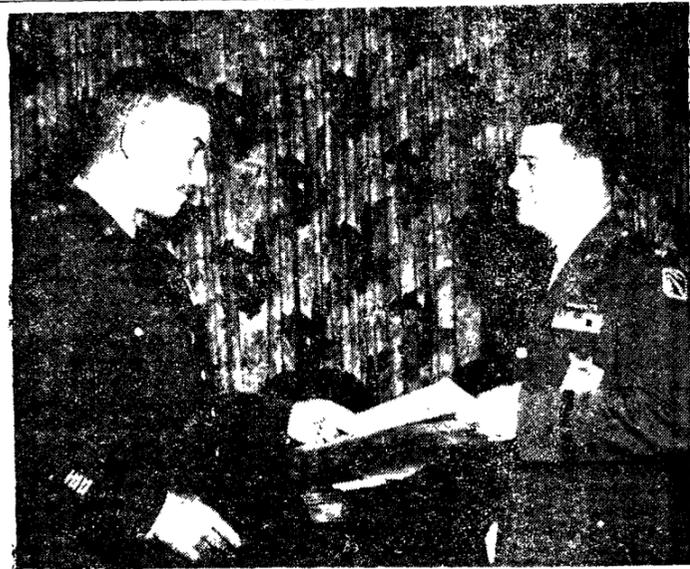
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COL. CLIFTON F. NOONCASTER, the Headquarters Commandant, Army Ballistic Missile Agency, (left) confers with his chief of Technical Materials and Equipment, Lt. Col. Curtis L. Ferrell, Jr. Ferrell's Branch maintains an inventory of 61,000 separate items.



AWARDED BRONZE STAR — Maj. Henry R. Del Mar, chief, Transportation Branch, Army Ballistic Missile Agency, (right) is shown being awarded the Bronze Star Medal with Oak Leaf Cluster for valor by Maj. Gen. J. B. Medaris. Maj. Del Mar set up the Aviation Section at ABMA.



MAJ. LAWRENCE W. SHEERAN, Chief of Intelligence and Security (right), supervises the fingerprinting of employe Helen Hobbs by Identification Clerk Marshall Cowart. Sheeran directs application of special measures for security of research, development, and other highly classified activities at the Army Ballistic Missile Agency.



MAJ. THOMAS R. WATKINS, Assistant Headquarters Commandant, Army Ballistic Missile Agency, supervises the operation, addition, alteration, maintenance, and condition of all Agency facilities and utilities.

store with a monthly volume of \$1,000,000. Because long-range ballistic missiles are the most complex weapons systems yet devised, the supply requirements in the research and development phase are staggering.

Nearly 300 personnel of the Branch maintain an inventory of 61,000 separate items, over 60 percent of which are "non-standard;" that is, they are foreign to normal Army supply inventory. The variety increases by about 100 items daily. A million line items are carried on IBM cards.

From 20 to 25 tractor-trailer loads of supplies are received and issued daily. This means the movement of some 2,000 tons monthly and about 3,000 different items daily.

The right material must be in the right place at the right time to keep the missile programs on schedule. Service must frequent-

ly be provided in from 15 minutes to 24 hours—normal depot supply would allow 30 days for such actions.

Where normal supply depot due-outs total 30 to 40 percent of each requisition, the Branch is required to meet all requisitions in full with no due-outs.

The assistant commandant, Maj. Thomas R. Watkins, furnishes administrative services. He was deputy to Col. Nooncaster from February, 1956, until March, 1957, when he assumed his present duty.

Whether the need is for a reference book or a light bulb, it is up to Maj. Watkins' personnel to fill it. In one case, the Technical Documents Library would handle the request. In the latter instance, it would be up to the Maintenance and Facilities Section.

The Documents Library has (Continued on next page)

'Unsung Heroes' of Missile Programs Include Men of Headquarters Commandant

Unsung heroes of the Army's long-range missile and satellite programs include the men who furnish supplies, transportation, and aviation support; who handle intelligence, security, and administrative services required to train a Redstone Missile artillery group, develop the 1,500-mile Jupiter IRBM, or launch a satellite.

Responsible for these diversified activities is Col. Clifton F. Nooncaster, the Headquarters Commandant, Army Ballistic Missile Agency.

In addition to the weighty chores entrusted to his organization, Col. Nooncaster also directs the Adjutant function including military personnel and billeting sections, maintains and coordinates the work of a plans and programs office, and serves on the staff of the commanding general, Maj. Gen. J. B. Medaris.

Arriving in Huntsville several weeks prior to the Missile Agency's activation Feb. 1, 1956, Col. Nooncaster set about procuring a staff and providing supplies. He was concerned not only with his

Agency, but also with its missile launching unit at Cape Canaveral, Fla., and with industrial plants producing missile components.

The supply system established under his direction is believed to be unique in the military and probably unique to private industry, too. The same imaginative concept had to be applied to the transportation requirement, which meant coordination with the U.S. Air Force which performs most of the heavy airlift jobs.

Col. Nooncaster obtained all military personnel required by Agency operations. The troop command is assigned to his organization. He handled all space requirements, furnished all logistical support, including mail and records; office supplies; maintenance and repair of facilities and janitorial services.

Other activities under his jurisdiction are a technical documents library, a publications library, and a procedures section which standardizes the operating procedures for the entire Agency.

His top aide in the supply area is Lt. Col. Curtis L. Ferrell, Jr., who came to the Missile Agency from his post as commanding officer of Joliet, Ill., Arsenal. He became chief, Technical Materials and Equipment Branch in February, 1956.

Col. Ferrell instituted a machine accounting system to expedite flow of supplies, and eliminated bottlenecks to avoid delays in the missile development projects.

Running his Branch is comparable to operating a department

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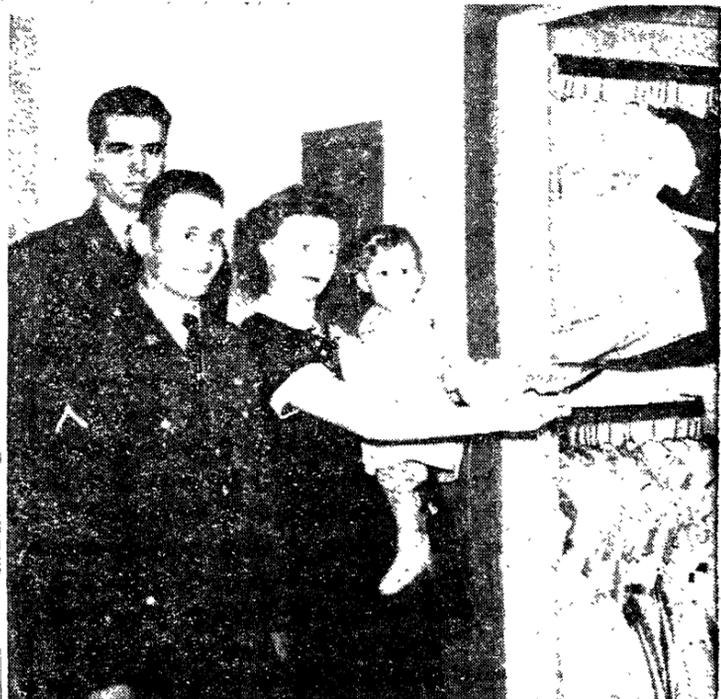
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STAFF AIDES—Red Cross Volunteers from Huntsville are always on hand when the Bloodmobile visits Redstone Arsenal every two months. During the month between, they help with the Bloodmobile visit in town. Representatives of this group above are: Mrs. M. L. Neil, Jr., Mrs. I. B. Goldsmith, Jr., Mrs. Stanley Myerson, Mrs. Alan R. Hardwick, Mrs. James Lutz, Mrs. H. W. Ritchey, Mrs. D. E. Foxworthy, Mrs. Hartwell Lutz, and Mrs. Otto Eisenhardt. The Bloodmobile will be here next Tuesday, April 15, in Bldg. 5663. The goal is 845 pints.



EXPANSION AT PX—Mrs. Paul J. Mandrell cuts the ribbon leading into the newly expanded infant's section at the Main Post Exchange. Her daughter, Cathy Ann, and her husband lend encouragement during the recent ceremony. Behind them is Pvt. Arthur Williams, the Soldier of the Month, who also cut a ribbon to the expanded men's wear section. Both men are from the Ordnance Guided Missile School. The traffic at the PX increased so that the space formerly occupied by the office staff now houses men's wear and the space formerly occupied by men's wear is now the infants wear. The office staff moved down the street to Bldg. 3658. (Photo by Bill Kellar)

UNSUNG HEROES

(Continued from page 4)

catalogued thousands of scientific and technical documents and training aids. Publications furnishes regulations, technical instructions or similar documents which may be required for reference. Air Force publications are being added to facilitate coordination in the Jupiter IRBM program between the Air Force, as the using service, and the Agency, as the developer.

A "cafeteria service" for operating units is furnished by the Administrative Service Branch for office supplies and forms.

The Mail and Records Section processes about 1,700 pieces of registered incoming and outgoing mail monthly, and about 2,500 teletype messages. They may reproduce as many as 14,000 copies of documents in a given month, destroy about 4,700 pieces of classified material, and dispose of 135 bags of waste.

Maj. Watkins supervises operation, addition, alteration, maintenance, and condition of all Agency facilities and utilities. They include buildings and grounds, structures, laboratory facilities, water lights, heat, power, and air-conditioning.

He is responsible for utilization and occupancy of 213 structures and buildings covering 2,915,927 square feet of floor space. He provides custodial services for

daily maintenance of 385,000 square feet of office space. On a recurring basis, his personnel clean 2,767 windows with an area of 98,845 square feet.

Many of the tasks are turned over to the Redstone Arsenal Post Engineers, who support the Missile Agency. Some idea of the scope of this work may be judged by the numbers: 350 small work orders, 700 minor repairs and maintenance jobs, and 250 large work orders per month.

For the facilities and maintenance part of his office chores, telephone calls average 10 per hour.

Maj. Henry R. Del Mar has been chief, Transportation Branch, since March, 1956. He established the Agency's transportation system and serves as Staff Transportation Officer to the commanding general. He also set up the Aviation Section.

During 1957, the Branch arranged for 62 flights by Air Force craft to haul 930 tons of priority freight. Crash shipments during the year totaled 194. Army aircraft logged 552,372 miles carrying passengers, and Air Force flights numbered 78 for 841 passengers.

Transportation Branch vehicles ran up 579,089 miles last year. The Branch also monitored flights between contractor and ABMA facilities for 1,449 persons and issued travel requests for more than 2,500 travelers.

One of Maj. Del Mar's responsibilities has been to insure that all weapons system equipment is designed with transportability in mind. For world-wide deployment on short notice, a missile system must be geared to the most expeditious means of transport—its dimensions being correlated with those of existing, highly mobile transportation units.

Maj. Del Mar also obtained a commercial airline representative to operate out of his office and book flights for ABMA personnel and thousands of Agency visitors.

Maj. Lawrence W. Sheran has been in the intelligence and security function since February, 1956, became chief of the office in August, 1957.

He planned and directed application of special measures for security of research, development, and other highly classified activities.

32 Attend Awards Luncheon of Officers Wives Golf Group

Thirty-two ladies attended the monthly awards luncheon of the Redstone Arsenal Officers Wives Golf Group held last week at the Squirrel Hill Officers Club.

New members now enrolled in the golf clinic were welcomed by Mrs. H. H. Northington, golf chairman, and the golf committee was introduced.

Col. B. B. Drummond, sponsor of the Golf Group, gave an entertaining and informative talk

on "Fun with Golf" and the film "Keep 'Em In the Fairway" was shown.

Awards for the month were made from an Easter basket filled with golf balls. Door prizes of golf socks, hat, practice balls and tees were won by Mrs. H. M. Murray, Mrs. W. J. Durenberger, Mrs. G. W. Budd, and Mrs. H. C. Carmichael.

The golf event slated today will be the best total, odd holes, with 2/3 handicaps.

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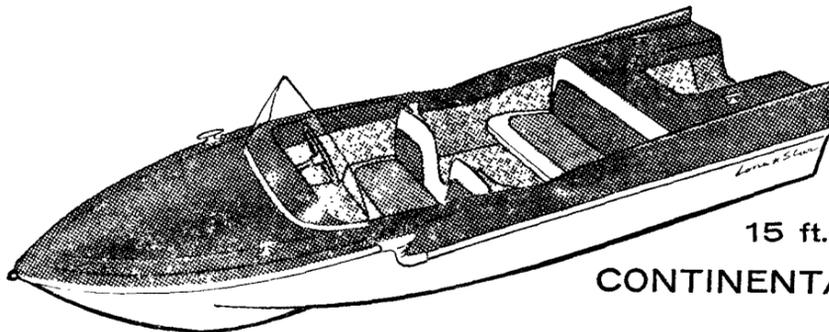
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Staff Assignments Made By Gen. Shinkle for ARGMA

Announcement of the following staff assignments has been made by Brig. Gen. J. G. Shinkle, commander, Army Rocket and Guided Missile Agency:

Col. Harold N. Brownson, Chief Control Office; Col. Matthew R. Collins, Jr., Chief, Research and Development Division; Col. Reino O. Lehtonen, Chief, Industrial Division; Col. Thomas E. Wood, Chief, Ordnance Missile Laboratories; Lt. Col. Frank E. Napper, Chief, Field Service Division; Capt. Michael G. Gecik, Acting Adjutant; Lt. Alton H. Evatt, Aide-de-Camp to Gen. Shinkle; Claude E. Stockton, Chief, Financial Management Office; William C. Sayre, Chief, Legal Office.

The new control office chief, Brownson, was formerly chief of the Plans Coordination Office at Redstone Arsenal.

Col. Brownson graduated from the U. S. Army War College at Carlisle Barracks, Pa., last June.

A native of Lansing and Monroe, Mich., he was graduated from Michigan State University in East Lansing, Mich., in 1933 with a BS degree in mechanical engineering and commissioned in the Coast Artillery. He was employed in the Engineering Department of the Oldsmobile Division of General Motors Corporation until entering active duty in 1942.

During the war, Col. Brownson was with the Tank-Automotive Division of the Office of the Chief of Ordnance, Detroit. When this office later became the Detroit Arsenal, he was chief of the Components Laboratories Division there.

He was chief of the Tank-Automotive Division at Aberdeen Proving Ground, Md., in 1951, and, following this assignment, was made chief of the Tank-Automotive Branch, Research and Development Division, of the Office, Chief of Ordnance. Col. Brownson served overseas from 1948-1951 at European Command Headquarters in Heide Berg, Germany.

Col. Collins has headed the R&D Division, Redstone Arsenal, since July, 1957. When RAMMSO was organized in October, 1957, he assumed additional duties as its chief. He came to Redstone from the Pentagon, where he was Chief of the Guided Missile Branch Rocket Section, Office, Chief of Ordnance, for two years.

The colonel is a graduate of Lehigh University and has a master's degree from the University of California. Before he entered the Army in 1941, he was employed by the Crane Co., of Chicago and Nashville.

Colonel Collins served in the China-Burma-India theater of war during World War II.

Col. Lehtonen has been chief of Redstone Arsenal's Industrial Division since July, 1957. Col. Lehtonen came to Redstone from the Industrial College of the Armed Forces, Ft. Lesley J. McNair, Washington, D. C., where he had been a student.

The colonel finished high school in Rahway, N. J., and graduated from Rutgers University (N.J.) in 1927. He also graduated, in 1951 from the Command and General Staff College.

Col. Lehtonen entered the Army in 1940. He is the son of Mr. and Mrs. Frank O. Lehtonen, who make their home in Fairfax, Va.

Col. Wood was formerly chief of the Ordnance Missile Laboratories, Redstone Arsenal.

Col. Wood came to Redstone in February, 1958, from Brazil where he had served for the three years previous with the Joint Brazil-United States Military Commission.

Col. Wood is a native of Portsmouth, Ohio. He attended Youngstown College for two years before entering the U. S. Military Academy, where he was graduated in 1934. Besides his recent tour of duty in Brazil, Col. Wood's overseas service includes tours in the China-Burma-India Theater, Korea, and Japan.

Col. Napper was assigned to Redstone Arsenal in July, 1956, to become chief of the RSA Field Service Division. Prior to his assignment here he was chief of the Systems Test Division at White Sands Proving Ground.

His parents' home is in Illinois. He and Mrs. Napper have three daughters.

Capt. Gecik formerly served as Billing Officer, Redstone Arsenal. He came to Redstone from the Japan Ordnance Command, where he was operations officer, Ammu-



COL. HAROLD N. BROWNSON



Col. Matthew R. Collins, Jr.



COL. REINO O. LEHTONEN



COL. THOMAS E. WOOD



LT. COL. FRANK E. NAPPER



LT. ALTON H. EVATT



CLAUDE E. STOCKTON

* * *

A native of Easley, S. C., he attended Clemson College, S. C. He has served overseas in Germany, England, and Yugoslavia.

Stockton was deputy comptroller of Redstone Arsenal before his new assignment. He came to Redstone in 1951 from the Office, Chief of Ordnance, where he worked in the Office of the Ordnance Comptroller. He had previously been employed at Anriston Ordnance Depot and with the U. U. Maritime Commission office in Birmingham.

A native of Armory, Mississippi, Stockton attended Mississippi State University and Jacksonville (Ala.) State Teachers College.

Sayre, Chief of the ARGMA Legal Office, served in the same capacity for Redstone Arsenal. He came to the Arsenal in 1952 from Atlanta, where he had been employed as attorney advisor for the Civil Aeronautics Administration.



WILLIAM C. SAYRE

* * *

Before that, he was an attorney with the Corps of Engineers office in Atlanta. In all, he has been in government service for 23 years. A native of Asheville, N. C., Sayre attended Asheville University Law School and Woodrow Wilson College of Law, Atlanta.

43 RECEIVED

(Continued From Page 1) Chapel. The very formal and impressive ceremony was held in the afternoon with the Rev. John Zwick directing.

Those who were not able to attend the ceremony will have an opportunity at a later date to be received into the Sodality.

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ABMA's Guidance & Control Lab Contributed to Explorers

(Editor's note: This is the second in a series of articles dealing with the laboratories of the Army Ballistic Missile Agency—and the people who make them click).

Development of the novel guidance and control system employed in the Jupiter C rocket for Explorer launchings was the task assigned to the Guidance and Control Laboratory, directed by Dr. Walter Haeussermann.

The Laboratory is one of 10 in the Army Ballistic Missile Agency, all of which contributed to the satellite accomplishment.

Dr. Haeussermann's deputy, Fritz K. Mueller, who spent 15 years with German gyroscopic firms before joining the U.S. Army's missile programs in 1945, supervised development work performed on air bearings, synchronous motors in the gyro systems used in the attitude control of the Explorers.

Development of the spin-rate control system, inverter and program device was the responsibility of Dr. Miels Jaeger, 43-year-old research engineer, graduate of the Darmstadt Technology Institute and a resident of 1295 Dale Drive, S. E., Huntsville.

Supervision of development of measuring and telemetering missile components for the Jupiter C was the task of Otto A. Hoberg, Chief of the Measuring, Telemetering and Radio Frequency Systems Section. A graduate of Darmstadt Technical University, he worked in the Peenemuende Rocket Center before coming to the United States in 1945.

One of the methods by which to determine the proper ignition time for the second stage of Jupiter C was developed in Hoberg's section. He lives at 3304 Panorama Dr., Huntsville.

Wilhelm Angele, graduate of Nuernberg University and Chief, Precision Instrument Section, had charge of fabrication of prototype satellites and sub-components. He lives at 2702 Scenic Dr., Huntsville.

Overall configuration and design of the satellites was the contribution of Josef Boehm, Chief, Design Section, who lives at 1311 Hermitage Ave., S. E., Huntsville. Boehm is a graduate of Dresden Technical University and has been engaged in rocketry since 1939.

He developed a test program to cover all environmental conditions and directed the engineering analysis, design and tests for tracking satellites. He proposed a system for Jupiter C attitude

control.

An air nozzle system for spatial control and adaptation of the Redstone Missile control system for the Jupiter C was partially the work of Friedrich Brandner of 1013 Wellman Ave., Huntsville, a graduate of Vienna technical institutions.

Charles H. Chambers, 31-year-old graduate of Auburn and Howard College, who lives at 2443 Memorial Parkway, Huntsville, participated in development of the method to evaluate correct ignition time of the second Jupiter C stage. He also took part in the actual evaluation in the launching of Explorer I, which had to be performed in the short interval between burnout of the Redstone first stage and its apex.

Development of a timer used to ignite upper stages of the Jupiter C was the contribution of Roy E. Currie, Jr., of 1305 Woodmont Ave., Huntsville, a graduate of Georgia Tech.

Currie also developed the missile program device which gives tilt information and time information into the missile system.

Flight simulation studies of the spatial attitude control system were entrusted to Fred E. Digest, 35, who is deputy chief, Flight Simulation Section. He is a graduate of Auburn and resides at 418 Randolph St., Huntsville.

For both satellite launchings, he conducted studies for design specifications and stability of the control system which tilted the top section into the prescribed

firing direction and held it in position for ignition of the final stages at apex.

Friedrich Duerr, research engineer supervisor, who studied in Munich for his professional degrees and in Stuttgart, is Chief, Ground Electrical Network Section. He was in charge of development and design layout of electrical ground equipment for the Jupiter C launching.

The entire missile electrical network system for both Explorers was the responsibility of Hans J. Fichtner, 40, of 1294 McClung Ave., Huntsville, who entered rocketry at Peenemuende in 1940.

His work included the propulsion system, control system, time sequencing of various events during the ascent such as ignition of the upper stages. His section selected and designed electrical components for the network, tak-

ing into consideration extreme environmental conditions in the ascending flight phase.

Donald E. French, research engineer, who attended Rollins College, Fla., and now lives at 1603 Club View Dr., Huntsville, directed design and development of test of telemetering packages which contributed to the Jupiter C launching.

Russell T. Gambill, 34, deputy chief, Control Section, a Vanderbilt University alumnus, supervised the design and construction of the control computer. He also supervised layout and design of the control system. Gambill lives at 2717 Day Rd., Huntsville.

Adolf L. Herrmann, unit chief, Electromechanical Components and Experimental Unit, of 1206 Locust Ave., Huntsville, was responsible for development and design of a timer to fire photo flashes in given sequence when

the Explorer reached apex.

He is a graduate of Friedberg Polytechnic Institute. He also designed and constructed a simulator for earth magnetic field measurement, and designed a slipping arrangement for cluster and apex determinator of the Jupiter C.

Development of the inverter and control system for the spin motors was accomplished by William J. Kreider, Chief of the Regulator Unit, Applied Research Section. A graduate of Louisiana State University, he lives at 2412 Lakewood Dr., Huntsville.

His system provided the power for the guidance equipment and the control system for motors regulating speed of the rotating, upper stage cluster.

Manfred E. Kuebler, 29-year-old research engineer, a graduate (See GUIDANCE on Page 16)

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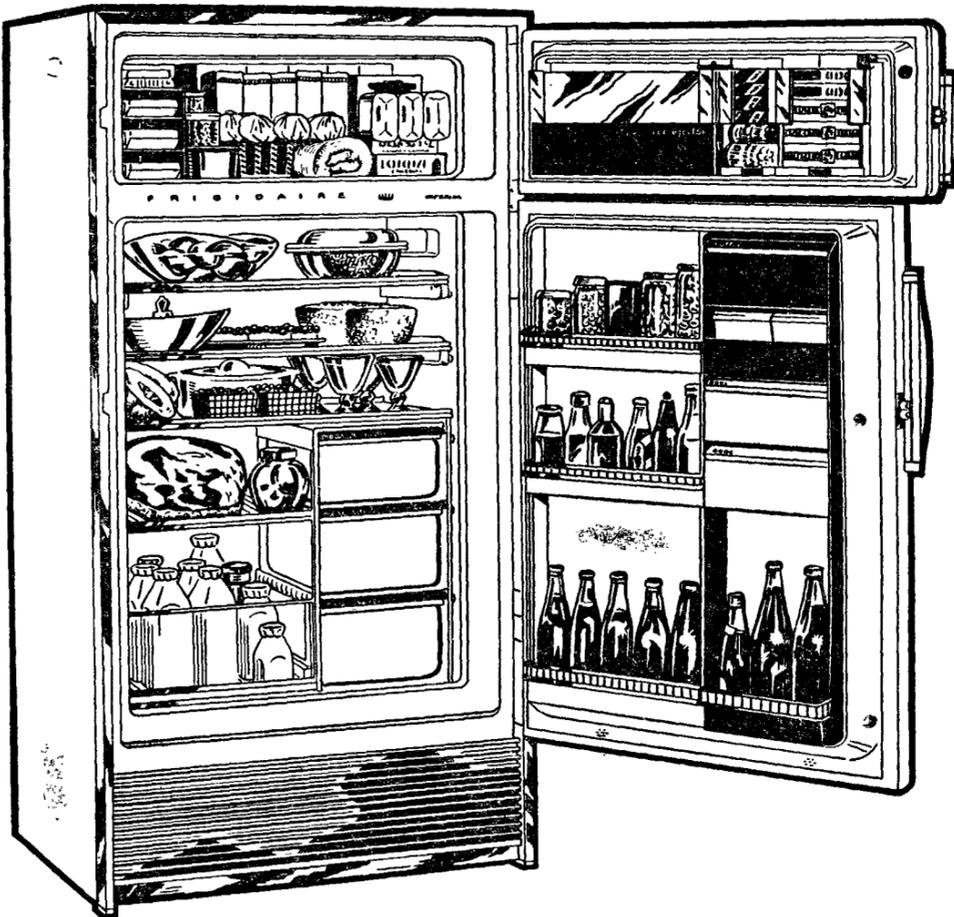
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OUT ON A LIMB—Proving the poet's point that there's beauty in a tree is this week's Rocket Pin-up, Miss Delores Sellers. A native of Huntsville, she works in Redstone Arsenal's Consolidated Supply Office. (Photo by Bill Kellar.)

Pistol Shooters Compete in Series Of Matches in Fla.

Five members of the Redstone Arsenal Pistol Squad competed in the recent National Mid-Winter Pistol Championships at Tampa, Fla. They were Lt. Col. Bruce Pierce, Lt. Robert Burrows, Sergeant First Class Robert Barker, Sp3 Thomas E. Rickerman, and Sp3 Donald R. Watkins.

In match No. 1, Col. Pierce was first Sharpshooter with a score of 198-13x out of a possible 200 to win a set of Micro Sights. Col. Pierce was 2nd Sharpshooter in the NRA Building Fund Match No. 2BF. Sp3 Thomas E. Rickerman was 2nd Expert in Match No. 6 with a score of 193-11x out of 200. Sp3 Rickerman was high Expert in the 22 cal. aggregate to win a Hi-Standard 22 cal. match pistol.

Sp3 Donald R. Watkins was 3rd Sharpshooter in the center fire slow fire Match No. 12 with 177-6x out of a possible 200.

The Redstone Arsenal pistol squad, after firing in the National Mid-Winters at Tampa, continued to fire in the Coral Gables Police Match on 23 March. Sp3 Rickman was 1st expert in the ground aggregate and in the center fire aggregate and 2nd Expert in the 45 cal. aggregate. Sp3 Fred Newton was 3rd Sharpshooter in the 22 cal. and center fire aggregates. Lt. Burrows was 3rd Mark-

smen in the 22 cal. aggregate.

At the Coral Gables Police Match held on 23 March, Rickman was 1st Expert on the center fire aggregate with 553 out of a possible 600.

In the Flamingo Pistol Tournament held on 25-29 March, the Redstone Squad competed with over 300 top shooters from all over the nation to include Army teams, police teams, Cuban teams, and Marines, Air Force, and Navy. Individual winners were Col. Pierce, 2nd Sharpshooter, 22 cal. slow fire; Lt. Burrows, 2nd Marksman 22 cal. slow fire; Sp3 R. Watkins, 1st Sharpshooter in the center fire slow fire course.

Sp3 Rickman was high scorer for the Redstone Squad with 2478 out of a possible 2700 points. Sp3 Rickman will be re-classified from Expert to Master as a result of this outstanding shooting.

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CALLING ALL 'AGGIES'

All "Texas Aggies" who have not been contacted in regard to the annual AGGIE MUSTER are requested to contact R. G. Parnell at ext. 2295 or JE 2-3793.

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Crackers	62	50
Expeditors	57	55
Buzzards	55	57
Peens	54½	57½
Hawks	54	53
Blue Streaks	53	59
Honest Johns	45½	66½

200 Games: Poulos 200; McCrohan 201; Thompson 203; Tack 214.

A girl who plasters her face with make-up and soaks her head in peroxide is like a candy bar — half sweet and half nuts!!

At the Service Club

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Girls working at Arsenal, aged 17 or over, single, and interested in joining brand new JR. HOSTESSES ORGANIZATION now being organized at SC. One of the biggest projects initiated by the SC in recent months nearing completion. Send application to the Service Club, Bldg. 3711. Organizational meeting Friday night at 7:30 p.m.

HELP WANTED-MALE

Artists, designers and talented young men who will donate some time, talent and advise to SC personnel in decorating for parties and dances. Great opportunity for improving executive and administrative techniques in managerial capacity. Effective immediately.

RECREATIONAL SERVICES OFFERED

TOUR FLORENCE, TUSCUMBIA, AND SHEFFIELD, ALABAMA-Sunday, April 13, 1958. Bus leaves SC at 11:00 hrs., proceeds to the Joe Wheeler Home, then to the Wheeler Dam. Lunch provided by the Service Club will be served at Wheeler Park. After picnicking the group will go to Wilson Dam and then tour the Helen Keller's Birthplace. Cost of the trip \$1.00. A few spaces are left. Sign up for the trip at the SC by 10:00 p.m. Thursday 10.

BINGO, DANCE CLASSES, BRIDGE, CHESS, POOL, AND PING PONG, are among the recreational pursuits offered at the SC Monday through Sunday. Do not miss the opportunity to enjoy yourself at no expense whatsoever. Right deal for the night party. No expense necessary.

DANCERS-SPECTATORS - See and hear the Larry Elliott Orchestra and 3-Act Floor Show at the Service Club on Tuesday, April 22nd. Hostesses from Huntsville and Birmingham will be here for the evening. Dance begins at 8:00 and lasts until 12:00. Excellent opportunity for an evening of fun and relaxation.

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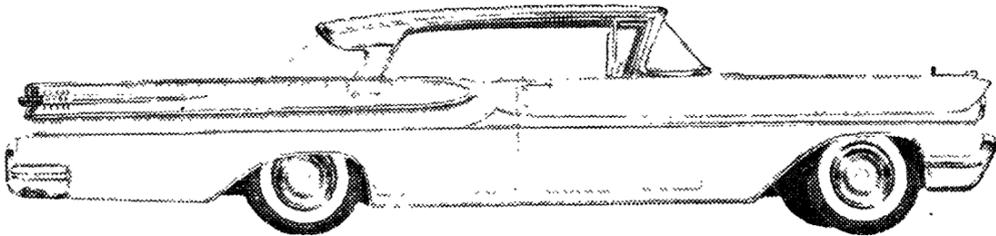
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Buchanan Transferred By Thiokol to New Job at Ogden, Utah

Dr. W. M. Mcbane, General Manager of Thiokol Chemical Corp. Redstone Division, has an-



JACK BUCHANAN

nounced the transfer of Jack Buchanan from the Redstone Division to Thiokol's Air Project ABL E Coordination Office at Ogden, Utah.

Buchanan, formerly Director of Operations at Thiokol's Redstone Division, will be Project Manager of the Ogden office. This office has been established to coordinate all work by all of Thiokol's Rocket Divisions in connection with the Air Force Interim Large Engine Program.

Buchanan joined Thiokol Chemical Corp. at the Elkton, Md., plant and moved to Huntsville when the Redstone Division was established in 1949. During his years with Thiokol he has held positions as Chief Test Engineer; Chief, Testing and Inspection Department; and as Director of Operations at the Redstone Division.

Also being transferred from the Redstone Division to the Project ABL E Coordination Office are

John F. McDermott, Steve Janovak, and Ed Garrison. At the Redstone Division, McDermott was Chief of the Development and Technical Services, and Garrison was a Project Engineer on the Falcon, the Air Force's air-to-air missile.

Phillip Dykstra, formerly of the Rocket Development Labs at Redstone Arsenal, has joined Thiokol Chemical Corp. and will be a part of the Project ABL E office at Ogden.

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THURSDAY & FRIDAY



SATURDAY ONLY



SUNDAY & MONDAY 'ENEMY BELOW' ROBERT MITCHUM

TUESDAY & WEDNESDAY



Movie Schedule

Wednesday 9 Apr, "The Crooked Circle" starring John Smith, Fay Spain and Steve Brodie (F). Time 1315, 1830 and 2030.

Thursday and Friday 10 and 11 Apr., "The Sheepman" starring Glenn Ford, Shirley MacLaine and Mickey Shaughnessy (F). Time 1315, 1830 and 2030.

Saturday 12 Apr., "That Certain Feeling" starring Bob Hope, Eva Marie Saint, and George Sanders (F). Time 100c.

Saturday 12 Apr., "Country Music Holiday" starring Ferlin Husky, Rocky Graziano and Faron Young (F). Time 1830 and 2030.

Sunday 13 Apr., "Cole Younger, Gunfighter" starring Frank Lovejoy, James Best and Abby Dalton (F). Time 1400, 1830 and 2030.

Monday 14 Apr., "Macabre" starring William Prince and Jim Backus (M). Time 1315, 1830 and 2030.

Tuesday 15 Apr., "Cry Terror" starring James Mason, Rod Steiger and Inger Stevens (M). Time 1830 and 2030.

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THRU SAT., APR. 19



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SUNDAY & MONDAY



ARSENAL BOWLERS—In the tournament at Ft. McClellan this week, the Arsenal Bowling team was right in the middle of 12 teams with a score of 2989 at Rocket press time. High score was 3082, but the sports officer at McClellan said that would soon be topped. Representing Redstone (left to right) are: PFC Richard Rodman, PFC Louis F. Scudieri, SP3 Donald W. Westman, PFC Burton S. Goldspinner (alternate), SFC Arnold S. Ross and M-Sgt. Richard O. Colgate. Another master sergeant, Edward B. McGowan, wasn't present for the picture. These were the top men in the local tourney from among 40 officers and enlisted men. (Photo by Pvt. Ralph Jefford)

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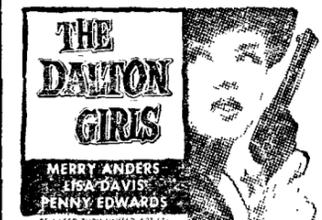
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ALEC GUINNESS awarded Best Actor of the Year

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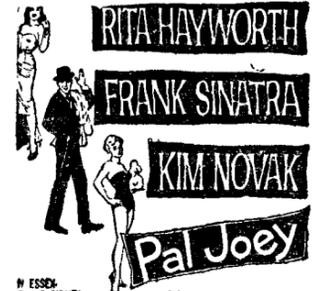


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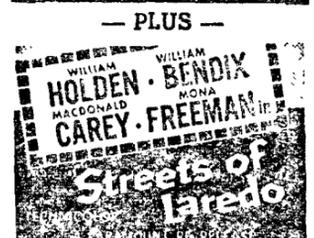
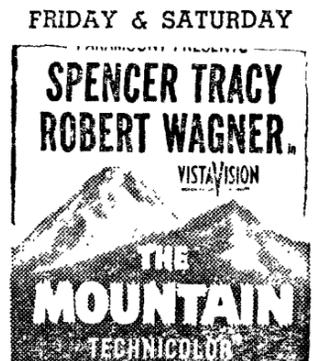
MIYASHI UMEKI Best Supporting Actress Award Winner.

PARKWAY

TUES. - WED. - THUR.

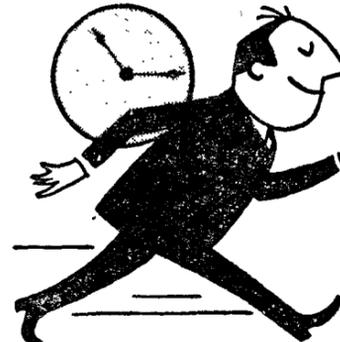


FRIDAY & SATURDAY



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IG, Adjutant Gen., Security Officer, Acting JAG Set For Command

Lt. Col. Lewis M. Anderson has been made Inspector General of the Army Ordnance Missile Command.

This and four other appointments were announced by Maj. Gen. J. B. Medaris, Commanding General.

The other new staff officers are: Maj. O. E. Adamson, Adjutant General; Maj. L. W. Sheeran, Security Officer; Maj. R. H. Del Mar, Transportation Officer; and Capt. Edward L. Hopper, acting Judge Advocate General.

The appointments are effective immediately. These officers join nearly a score of other key people who were named to Command Headquarters staff earlier. The Missile Command was activated March 31.

Col. Anderson, a native of Richmond, Va., was formerly Inspector General at Redstone Arsenal. He came to Redstone in 1956.

He was graduated from William and Mary College, Williamsburg, Va., and was a school teacher for a number of years. He later was a parks superintendent for Tennessee Department of Conservation and the National Parks Service.

Col. Anderson served in the Army during World War II and was recalled to active duty during the Korean War. From 1952 until he came to Redstone in 1956, he served in the Inspector General Atlanta Field Office.

He is a graduate of the Command and General Staff School, Ft. Leavenworth, Kansas.

Maj. Adamson has served as the Army Ballistic Missile Agency Adjutant for the last two years. He came to Redstone from Ft. Jackson, S.C. where he was assigned to the Adjutant General Section as chief of administrative services.

The major is from Jonesboro, Ga. He attended North Georgia College at Dahlonega. He entered the Army in 1940 and served in the Asiatic Pacific Theater during World War II, receiving a direct commission in 1943.

Maj. Del Mar has been chief of the ABMA Transportation Branch. A native of Brooklyn, N.Y., he attended New York University for 3½ years before joining the Armed Forces in 1942. He served in an Infantry division in the invasions of Guam, the Philippine Islands, and Okinawa, and was wounded during all three campaigns.

His decorations include three Bronze Star Medals and the Purple Heart with two clusters.

Prior to his assignment here, he was training officer at the Transportation School, Ft. Eustis, Va.

Maj. Sheeran has previously served as the ABMA Intelligence and Security Officer. He came to Redstone in 1955, prior to which time he served as the Chief of the Counter Intelligence Central Command, Japan.

The major attended high school in Wethersfield, Conn. He attended Stayer College, Washington, D.C., and is a graduate of the Command and General Staff College. He entered the Army in 1941.

Capt. Hopper, the Judge Advocate General, is a native of Birmingham and a graduate of the



LT. COL. LEWIS M. ANDERSON



MAJ. R. H. DEL MAR



MAJ. O. E. ADAMSON



CAPT. EDWARD L. HOPPER



MAJ. L. W. SHEERAN

University of Alabama, where he

received AB and LLB degrees. He also attended Alabama Polytechnic Institute, Auburn.

He served in the European Theater during World War II and in Korea and Japan during the Korean War. He has been the Redstone Arsenal Judge Advocate General since last April, having come to Redstone from the Far East.

In civilian life, Capt. Hopper was employed in the Industrial Engineering Department, Tennessee Coal & Iron Co., Birmingham.

SPORTS QUIZ

1. Three major league hurlers won 20 or more games last year. Who were they?
2. Who was the last American to win the British Open Golf championship?
3. Who was the only major league ball player to win the most valuable player award with two different ball clubs?
4. Who was the only boxer to hold three world titles at the same time?
5. Who was the leading scorer in the National Hockey League in 1957?

(Answers to Sports Quiz)

1. NL—Spahn, Milwaukee (21-11), AL—Bunning, Detroit (20-8), and Pierce, Chicago (20-12).
2. Ben Hogan (1953).
3. Jimmy Foxx—Philadelphia Athletics (1932-33) and the Boston Red Sox (1938).
4. Henry Armstrong, featherweight, welterweight and light-

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* * *

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Redstone Officers Wives Club News

BY MRS. SELBY FRANK
The Nominating Committee under the chairmanship of Mrs. H. E. Von Kacnel, met last month and came up with the following slate of officers for the coming year: for president — Mrs. R. O. Lehtonen; for vice-president — Mrs. R. N. Flint; for recording secretary — Mrs. W. A. Leonard; for correspondence secretary — Mrs. L. B. James; and for treasurer — Mrs. E. M. Woolley. The date for the general business meeting to vote on these nominations will be announced later.

BOWLING GROUP
Chairman: Mrs. Paul Daigle.
A feeling of tension and extreme excitement reigns at the Plamor Bowling Alley on Friday mornings when the RSA Women's Bowling League meets. This tension is caused by the neck-and-neck race of the three top teams for first-place honors. The Shoo Flies captained by Mrs. R. P. Beatty, having held the lead for many months, have finally given place to the Alley Cats, captained by Mrs. H. H. Northington who now lead by two games. Following closely in third place are the Rocky Rockettes captained by Mrs. F. M. Doclev; they are just one-half game behind the second place team. It's anyone's guess as to which team will be champion of the RSA Women's Bowling League for 1957-1958.

SEWING GROUP
Chairman: Mrs. L. M. Anderson.
The Sewing Group meets on the first, third and fourth Tuesday mornings in the homes of the members. The last meeting was held on Tuesday, April 8th, from 9:30 a.m. until 11:30 a.m. at Qtrs. 4, the home of Mrs. Anderson. Currently the group is being taught Swedish embroidery by Mrs. McGraw and Italian embroidery by Mrs. Prowett. All members of the OWC are invited to attend these meetings; for information call Mrs. Twitchell at 2557 or Mrs. Anderson at 5053.

GOLF GROUP
Chairman: Mrs. H. H. Northington.
Thirty-two ladies attended the monthly Awards Luncheon of the OWC Golf group held at the Hawk Room of the Squirrel Hill Officers Club. New members were welcomed by the Chairman, Mrs. Northington, and the Golf Committee were introduced to the group.

Col. B. B. Drummond, sponsor of the golf group, gave a talk on "Fun With Golf." An Easter basket filled with golf balls, comprised the awards for the month. Door prizes of golf socks, hats, practice balls, and tees were won by the Mesdames R. W. Murray, G. W. Budd, W. J. Durrenberger and H. C. Carmichael. The program concluded with the showing of a sound film, "Keep Them in the Fairway."

The weekly golf event slated today will be a total of the odd holes, 1, 3, 5, 7, and 9, with a 2/3 handicap.

RED CROSS
Chairman: Mrs. Lawrence Hall.
The Staff Aid Course conducted by J. G. McNeil and attended by between 35 and 40 ladies, started yesterday and will continue for a course of four weeks. This course is being held at the Squirrel Hill Officers Club at 7 p.m. on Tuesday evenings.

The Red Cross Round-up for the fiscal year will be held on May 15th. Seventeen new Grey Ladies will be capped on this occasion.

Please don't forget that the Bloodmobile will be here on April 15th.

PARTY NEWS
Another enjoyable coffee was held at the Redstone Room on March 25th, the hostesses being Mrs. Dante Vezzoli and Mrs. Lewis M. Anderson who both looked charming in their Easter suits. Grace in lime green and Mary in navy blue. The tables were attractively decorated with red and white and gaily colored Easter eggs. Ninety of their friends enjoyed this affair.

Easel, Palette, Brush & Paint
(By Mrs. Myron Dakin)
The art class students have been eagerly awaiting the warm spring weather so they could go outdoors and sketch the lovely scenery around here. Indoors, they are progressing nicely by doing landscapes, seascapes, still-lives, and portraits. Several students had their paintings at the recent exhibition which was sponsored by the Art League of Huntsville, and their works were generally admired.

Painting and sketching can be lots of fun—why don't you try it? Art classes are held every Tuesday morning at 9 a.m. at Bldg 111 in the Hawk Room.

FAVORITE RECIPES
Friends, you have most likely noticed in the last issue of the Women's Club News that we have something new in store for you—namely favorite recipes by well known personalities of this installation, who not only have traveled widely but who also have a flair for good eating. We recommend that you try out these graciously given recipes and we hope that you can find all the ingredients on the market.

Here then are two new recipes that will thrill your gourmet's heart and arouse your appetite to the highest degree.

CHICKEN PIE
By Mrs. J. B. Medaris
1 4 lb. chicken
4 cups cold water
1 tbs. salt
2 medium carrots
1 medium onion
2 stalks celery
1 cup chopped celery
1/4 cup chopped onion
1 cup sliced mushrooms
1/3 cup fat
1 cup milk
1 cup cooked peas
1/4 tsp paprika
salt and pepper
1 recipe baking powder biscuits

Cut chicken in serving pieces; add water, salt, carrots, whole onion and celery. Simmer until tender, 1 1/2 to 2 hours. Chill. Remove fat; strain stock; sieve vegetables; combine. There should be about 3 1/2 cups. Cut chicken in rather large pieces. Cook chopped onion, mushrooms and celery in fat until onion is golden. Add flour; blend. Stir in milk and stock. Cook over low heat until smooth and thick, stirring constantly. Add peas, paprika and cut-up chicken. Season with salt and pepper. Pour into 8 by 12 in. casserole. Top with biscuits. Brush top with milk. Bake in hot oven (324 degrees) 15 to 20 minutes. Serves 8.

SPOONBREAD
By Brig. Gen. J. G. Shinkle
(Very easy to do, even the general can do it!)
1 cup cornmeal (waterground)

very hard to get . . .
2 cups boiling water
1 lump butter (egg size)
1/2 tsp. salt
1 cup milk
1 egg

Add cornmeal to boiling water and cook for 5 minutes, stirring briskly. Add butter and salt. Beat egg and add it to the milk. Combine all ingredients and pour into greased baking dish or pie plate. Bake in 375 degree oven for 40 minutes or until brown on top.

INTERVIEW WITH A NEWCOMER

It gives me great pleasure to introduce Beatrice S. Erlenbusch, the admirable wife of Col. W. C. Erlenbusch, C. O. 864th Strategic FSL Squadron (Jupiter) of ABMA.

Beatrice is known to her many friends as "Be" and was nicknamed thus since her birth in Boyertown in Pennsylvania.

"Be" went to school at Boyertown but later moved to Columbus, Ohio, with her parents and finished her senior high school education there. She studied dramatics and during these classes she met co-student William C. Erlenbusch. Upon graduation from business college, "Be" pursued a secretarial career and in 1949 she became the lovely and happy bride of Col. Erlenbusch. She was a bride of one year when Col. Erlenbusch received his commission from the Air Force. "Be" left Columbus to be stationed with her husband at Wright-Patterson Field in Dayton, Ohio, where she stayed for only a short time. Being stationed at Romeus, Michigan for two years gave "Be" a better chance to get acquainted with her duties as an Air Force wife, which she thoroughly enjoyed. In 1944 Col. Erlenbusch was called to Cairo in Egypt. During his absence with her small son, "Be" returned home to her parents and rendered her services and knowledge to the Red Cross Canteen Unit. "Be" was glad and thankful to have her family reunited in 1946 and busily she packed away the uniforms. But soon the uniforms had to be "aired" again as Col. Erlenbusch received his regular commission from the Air Force, and with it a transfer to Tyndale Field in Panama City, Fla. "Be" was happy to be part of the Air Force again and was overjoyed at the prospect of crossing the Atlantic Ocean with her sons in order to

Mrs. Dotson to Speak At Women's Club

Mrs. Raymon S. Dotson, wife of Maj. Dotson, chief of Redstone Arsenal's Field Maintenance Office, will be a guest speaker at the meeting of the General Federation of Women's Clubs in Montgomery April 28, 29, and 30. Her topic will be "International Women." Mrs. Dotson is a native of Belgium.



SFC JAMES J. O'NEILL

SFC O'Neill Named Reenlistment NCO

SFC James J. O'Neill has assumed the duties of Post Reenlistment NCO.

Coming here from Aberdeen Proving Ground, Md., where he had been assigned to a similar position the past year, the new recruiter will be primarily concerned with the Post Reenlistment Program here. O'Neill will relieve M/Sgt. Howard Crain, who had been performing the duties of Post Reenlistment NCO as an additional duty during the past six months.

A veteran of 17 years, the new recruiter served as a Recruiting Sergeant in Lake Charles, La., during the period February 1954 to February 1957.

Qualified enlisted personnel here are extended an invitation by the new recruiter to visit him at Bl. 3480, Ext. 5790 or 3272.

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AOMC CONTINUES TO TAKE SHAPE; MORE STAFF OFFICERS APPOINTED

The new U.S. Army Ordnance Missile Command, activated at Redstone Arsenal last week, continues to take shape with the announcement of three additional staff officers.

Maj. Gen. J. B. Medaris, the Commanding General, named the following persons to positions as listed: Lt. Col. Erwin R. Graham, Acting Chief of the Control Office; Lt. Col. James N. Jean, Secretary of the General Staff; and Joseph C. Moquin, Chief Management Engineer.

All three are now functioning in their new positions, as are the other key officers who were appointed earlier.

Col. Graham, as a member of the Army Ballistic Missile Agency's Control Office staff, has been assigned until now as Executive Secretary of the Missile Planning Office at Redstone.

He received his bachelor's degree in electrical engineering at Mississippi State College, a master's degree from Massachusetts Institute of Technology and a professional doctorate from the same school.

Col. Graham entered military service as a lieutenant in 1941, served in North Africa and the European Theater of Operations, and left the Army after World War II as a major.

When he returned to active duty in 1947, he became chief of the instrumentation laboratory at Aberdeen Proving Ground, Md. He also served in the Ordnance School and Ordnance Training Command at Aberdeen, and in 1952 came to Redstone Arsenal to establish the Ordnance Guided Missile School. He selected the faculty and set up the organization.

He completed the Ordnance Advanced Course at Aberdeen and then spent three years overseas in Ordnance work.

Col. Graham completed the nine months' course at the Command and General Staff College at Fort Leavenworth before joining ABMA.

He wears the Bronze Star, the Croix de Guerre, and a decoration from Tunisia.

Col. and Mrs. Graham reside at Redstone Arsenal with their daughters, Diana, 13 and Elizabeth, 2. The Colonel is a native of Pensacola, Fla., the son of Mr. and Mrs. E. M. Graham, who now live in San Mateo, Calif.

The Secretary of the General Staff, Col. Jean, also was formerly assigned to the ABMA Control Office, where he was Executive Officer. He came to ABMA in June, 1953, from the Command and General Staff College.

Col. Jean attended high school in Owensville, Ind., and studied at DePauw University, Greencastle, Ind., Indiana University at Bloomington, and the University of Rochester, Rochester, N.Y.

He entered the Army in 1939 and has served at many posts in the U.S. and abroad. Among his awards and decorations are the American Defense Service Medal, American Campaign Medal, Bronze Star, Army Occupation Medal, World War II Victory Medal, National Defense Service Medal, Korean Service Medal and the UN Service Medal.

Col. Jean is the son of Mrs. Mary Jean, 319 North Maple St., Orleans, Ind. He is married to the former Miss Martha Parrish. The couple and their three children live at Redstone.

Moquin, the Chief Management Engineer for the new Command,



LT. COL. ERWIN R. GRAHAM



LT. COL. JAMES N. JEAN



JOSEPH C. MOQUIN

was formerly chief of the Management Services Branch of ABMA. He has had wide experience in the industrial management field and last year was the Department of the Army nominee for the national Jump Memorial Award for his exemplary service in public administration.

Moquin is married and the



AT PERSONNEL ADMINISTRATION DINNER—Robert Willey (center), Director of Civilian Personnel, Department of Army is pictured addressing a recent dinner meeting of the Society for Personnel Administration at the Redstone Arsenal Officers Club. Willey is national president of the Society. From left to right are Robert F. Mello, SPA Huntsville Chapter President; Willey; and Brig. Gen. J. A. Barclay, the Army Ballistic Missile Agency's newly named commander. Willey discussed the Department of Army's progress in the field of Civilian Personnel Management and stressed the importance of effective incentive awards, employe relations, training, and recruitment programs. Willey said that he was impressed by the large percentage of industry, represented in the Huntsville Chapter of SPA.

Special Services Activities

Post Gymnasium Operating Hours
Monday thru Friday 1400-2200
Saturday 0900 - 1200 and 1300 - 1630.
Sunday 1300-1600

Golf Driving Range and Archery Range Operating Hours
Monday thru Friday 1400-2100.
Saturday 1300-1900.
Sunday and Holidays 1400-1900.

Craft Shop Operating Hours
Monday and Tuesday—Closed
Wednesday thru Friday 1400-1630 and 1730-2200.
Saturday and Holidays 0800-1630
Sunday 1230-1930

LIBRARY OPERATING HOURS
Monday thru Friday 1100-2200
Saturday and Holidays 1000-2200.

Sunday 1400-2200.
Post Service Club
Operating Hours
Monday thru Friday 1600-2200
Saturday 1000-2200.
Sunday and Holidays 0900-2200

father of five children. He lives at 1514 Owens Drive, SE Huntsville, Ala. He is a native of Middleboro, Mass.

He received a BS degree in industrial engineering at Washington University, St. Louis, and later did graduate work there. He also is a former instructor at the school.

Before joining ABMA in 1956, Moquin served as an Industrial Engineer for the Ordnance Corps. In that capacity he served as consultant to 97 Ordnance installations in various phases of management engineering.

He then became Director of the Management Engineering Training Program, and was chief consultant to Ordnance installations in all phases of Management Engineering.

Prior to Civil Service employment, he worked as an industrial engineer in St. Louis.



JACK F. NEAL

JACK NEAL JOINS THIOKOL ON POST

Dr. W. M. Mebane, General Manager of the Redstone Division of Thiokol Chemical Corporation, has announced that Jack F. Neal, formerly associated with Radio Station WHBS in Huntsville, has joined the Redstone Division as part of the Projects Management Staff.

Neal comes to Thiokol's Redstone Division from the radio field where he has been manager of WHBS, program director of WINS in New York City, announcer on such programs as the Telephone Hour, We the People, Grand Central Station, and America's Town Meeting of the Air. A news commentator during the past six years in Huntsville, he is a recipient of the Associated

Safety Scoreboard

(As of 7 April)

Days since last civilian disabling injury—3.	
Our Goal	30
Days since last military disabling injury—26.	
Our Goal	30
Days since last contractor personnel disabling injury—10.	
Our Goal	300
Days since last government vehicle accident—6.	
Our Goal	30

Press top award for excellence in that field.

Prior to entering the radio business, he was associated with the Customers Relations Department of the Hanover Bank in New York City.

He is married to the former Lucia Lull of Alabama and they have one daughter, Peggy, a student at Huntsville High School.

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Meet the Army's Officers at Patrick Air Force Base, Florida

COL. ORMAN HEADS PROJECT OFFICE

PATRICK AIR FORCE BASE, Fla.—Col. Leonard M. Orman, 40-year-old electronics specialist, is Chief of the Army Ballistic Missile Agency Project Office here. He also wears a second hat as a staff officer to the Commanding General of the Air Force Missile Test Center. In this capacity his title is director of Army test launchings.

Col. Orman entered the Army



COL. LEONARD M. ORMAN

* * *

as an enlisted man July 1, 1925. He was graduated from the U. S. Military Academy in 1940 and received a master's degree in electronics from the University of Pennsylvania in 1951.

During World War II he was a radar officer and commanding officer of the 178th Coast Artillery Battalion on Guam.

Returning to the U.S., he was assigned to radar research and development projects with Army Ground Forces. He served as a West Point instructor in electricity from 1946 until 1949. He was head of the test group for radar and missile master projects at Ft. Bliss, Texas, from 1951 to 1954. Then he spent two years at Aberdeen Proving Ground, Md., as chief, fire control division.

Col. Orman joined the Missile Agency when it was activated Feb. 1, 1956 and was assigned to the Army Projects Office here.

"I am the contact between the Air Force and its contractors for the Army at this base," Col. Orman explained. "My part in the launching operations is to obtain the necessary support and clearances from the Air Force command for Dr. Kurt H. Debus, who directs our Missile Firing Laboratory."

Col. Orman will be leaving soon to attend the Command and General Staff School at Ft. Leavenworth, Kansas.

He is a member of the Association of the U. S. Army; senior member, Institute of Radio Engineers and vice-president, Florida Professional Group, I.R.E.; member of the American Rocket Society and vice-president of its Flori-

Maj. Small Is Jupiter Project Officer at Missile Test Center

PATRICK AIR FORCE BASE, Fla.—Major Ballard B. Small, 34, is the Jupiter Project Officer for the Army at this Air Force Missile Test Center.

A former resident of Berkeley, Calif., he received his college degree from the University of California in 1943 and a master's degree from Columbia University



MAJ. BALLARD SMALL

* * *

in 1953.

He entered the Army August 9, 1943 through Officer Candidate School. During World War II he served as platoon leader in the 5th Armored Division. He was with the 37th Field Artillery Battalion, 2d Infantry Division, in the Korean Conflict.

Until leaving for Korea, he served as a training officer at Fort Dix, N. J., and as ORD Unit instructor for New Jersey. When he returned from Korea, he was stationed in Philadelphia with the Anti-Aircraft Command. He has been associated with the Redstone and Jupiter Ballistic Missile developments since 1954.

Maj. Ballard and his wife, Marie, live at 135 Northwest Drive Patrick AFB with their children, Robert C., 9 and Katherine L., 4, who attend school on the Base, and Margaret L., 3 years old.

He is a member of the Association of the U. S. Army and secretary of Florida Chapter, American Rocket Society.

Capt. Thorstensen Serves With Army Project Office

PATRICK AIR FORCE BASE, Fla.—Capt. Kjell Thorstensen, 38-year-old Artillery officer, is serving with the Army Project Office here.

da Chapter and president, Patrick AFB Parent-Teacher Association.

Col. and Mrs. Orman live at 144 N.E. Drive, Patrick AFB with their son, Jeffrey G., 9 years old, who attends school on the Base.

Capt. Stover Serving In Army Project Office

PATRICK AIR FORCE BASE, Fla.—Capt. Glen W. Stover, formerly of Necowa, Texas, is serving in the Army Project Office here.

He entered the Army in March, 1942 at Pampa, Texas, as a private. He advanced to the grade of master sergeant before he was commissioned a second lieutenant May 18, 1945 while serving in the Philippine Islands.

During his military career he spent 28 months in the Southwest



CAPT. GLEN W. STOVER

* * *

Pacific Theater and 10 months in Korea, then spent 40 months with the 39th Engineer Construction Group in Germany.

Capt. Stover is rated a master parachutist and has made 74 parachute jumps, including one combat jump in Korea.



CAPT. KJELL THORSTENSEN

* * *

He is Detachment Commander of Detachment "C", Army Ballistic Missile Agency, at the Missile Test Center. He also functions as project officer for the Missile Firing Laboratory.

Capt. Thorstensen was born in Oslo, Norway. He attended Erasmus Hall High School, Brooklyn, N. Y., and the University of Michigan where he studied naval architecture and civil engineering.

He entered the Army June 6, 1941, attended Barrage Balloon School and Officers Candidate School and was commissioned on Aug. 21, 1942. He also attended courses in automatic weapons, anti-aircraft staff duty, and guided missile staff duty.

He returned to civilian life Dec. 23, 1945 and was recalled to active duty July 14, 1951. He served as a platoon leader with the 691st AAA Machine Gun Battery (Airborne) from December 1942 until May 1944 in North Africa, Sicily, and Italy.

He spent several months in the Philippine Islands in 1945.

From March 1952 until March 1955 he was battery commander of the 77th Field Artillery Battery in Austria; liaison officer, 3d Battalion, 350th Infantry Regiment and Battery Commander of Battery C, 510th Field Artillery Battalion.

He wears the European-African Middle Eastern Campaign Medal with four battle stars, and the Invasion Arrowhead, in addition to American and Pacific campaign medals.

Capt. Thorstensen lives with his wife, Ione, at 163 W. Blue Heron Blvd., Riviera Beach, Fla.

Capt. Nichols Is a Jupiter Project Officer

PATRICK AIR FORCE BASE, Fla.—Capt. Wesley G. Nichols, 31, is a Jupiter project officer for the Army Ballistic Missile Agency at this Base.

He will be leaving soon to attend the Signal Officer Advanced Course, Ft. Monmouth, N. J.

He enlisted in the Army in January, 1945 and spent two years on active duty as a radar repairman. Then he attended the Michi-



CAPT. WESLEY G. NICHOLS

* * *

gan State University where he received a bachelor's degree in physics in 1949.

From 1950 to 1952 he was a radio relay and carrier telephone officer in Korea. He completed the Signal Company Officer Course in 1953, then served as a ground guidance officer at White Sands Proving Ground, N. M., with the Army's Corporal missile system.

Capt. Nichols attended the Ordnance Guided Missile Officer Course 1954-55, and was instructor at the Ordnance School in anti-aircraft fire control until he joined the Missile Agency in 1956.

He is a member of the American Rocket Society.

Capt. and Mrs. Clare M. Nichols live at 81-A Riverside Drive, Patrick AFB, with their daughter, Carol Ann, six months old.

He attended Megargel, Texas High School and the University of Maryland.

In connection with the Explorer launching, he assisted in coordinating the availability of special facilities such as microlock tracking station, high pressure air, scheduling of fuels.

Capt. Stover lives with his wife, Tillie Ann and their children, Glen W. II, and Derek D., at 144 Riverside Drive, Patrick AFB.

Some people are like blotters—they soak it all in, but they get it backwards.

* * *

There is something feminine about a tree. It does a strip tease in the fall, goes about with bare limbs all winter, gets a new outfit every spring and lives off the saps all summer!

* * *

The old-fashioned man never thought anything of walking 18 to 20 miles in an afternoon. He has a grandson who never thought of it, either.

Capt. Henry C. Paul Coordinates ABMA, Air Force Work at Missile Test Center

PATRICK AIR FORCE BASE, Fla.—Capt. Henry C. Paul, 34, is an Army project officer here on the staff of Col. Leonard M. Orman, Chief of the Army Office.

Capt. Paul's duties are to coordinate requirements of the Army Ballistic Missile Agency with the Air Force Missile Test Center



CAPT. HENRY C. PAUL

* * *

command.

He is the son of Sam Paul of Beaufort, S. C.

After graduation from Lancaster, S. C., High School he attended Clemson College and the U. S. Military Academy from which he was graduated. He later received a master of science degree from Stanford University.

He was commissioned in the Regular Army in June, 1947. He served 41 months in Germany, then was with the Development and Proof Services of Aberdeen Proving Ground, Md. He joined the Missile Agency in June, 1957.

Capt. Paul was stationed at Central Control at Cape Canaveral during the launching of Explorer. To insure ignition of the upper stages of the Jupiter C rocket, which carried the satellite into orbit, he activated the down-range command carrier two seconds after the ignition signal was flashed by Missile Agency scientists. The second signal was for "backup" purposes.

During the other Army missile launchings here, Capt. Paul keeps the Missile Agency project officer, Maj. Small, up to date on information obtained in Central Control. Maj. Small is in the Army Blockhouse.

Capt. Paul lives at 91 Riverside Drive, Patrick AFB, with his wife, Junell, and their children, William 9; Jane 7, and Leith 3.

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COMMUNICATIONS CENTER—Some of the people who take care of the voluminous traffic in teletypes at the comcenters at Redstone Arsenal and the Army Ballistic Missile Agency headquarters building send enough words a day to fill an average length novel. Above, left to right at the machines are: PFC Arthur Wooley, Eleanor Thomas, Thelma White, and Buford Todd. Standing in back logging messages is SP3 Roger Whiting. He's taking the information from the ACAN network.

SIGNAL

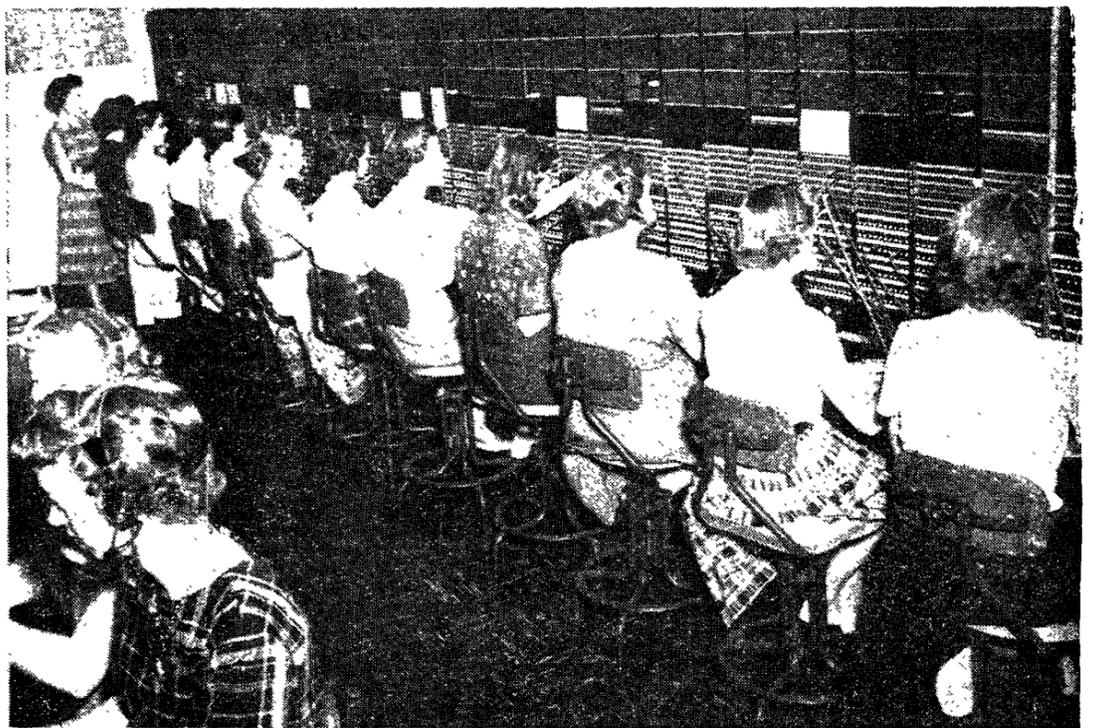
(Continued From Page 1)
 checking out a TV lead-in from the master television mast the Signal people maintain. This job could take him anywhere on post from dayrooms to laboratories.
 The telephone installers have been working a seven-day week. And the operators work in shifts to keep the Arsenal in touch with all points around the clock.
 Fourteen or more operators are really kept busy on the switchboards during a normal day. They average 950 long distance calls going out daily. The incoming tally is not recorded. Relief from

the present congestion is in the planning stage, and may be a reality by June.
 Two years ago, long distance telephone traffic was handled mainly by commercial lines. The high frequency of calls to such points as Detroit, Atlanta, Washington, Birmingham, Patrick Air Force Base, and Brookley Air Force Base created a necessity for leases on direct lines to these places. In most instances, there is more than one direct line in use.
 The increased size and scope also shows in the number of telephone instruments. Two years ago there were approximately 3200 telephone instruments in



CLEANING FILM—Elizabeth Romine cleans a film returned to the film library under the supervision of Woodrow Burke, chief of the Post Signal Film Exchange library. They handle about 80 loans a day from the 1,050 films stored. They also have the responsibility for more than 360 pieces of projection and recording equipment on loan to the different agencies at Redstone Arsenal.

* * * * *



BUSY! BUSY! BUSY!—The telephone operators at the Post Signal Telephone Exchange are kept busy around the clock. More than 950 long distance calls a day cause the flashing lights on their boards to resemble signboards in the city. They don't keep track of the number of calls that come in daily. (Photos by Rex Evers)

* * * * *

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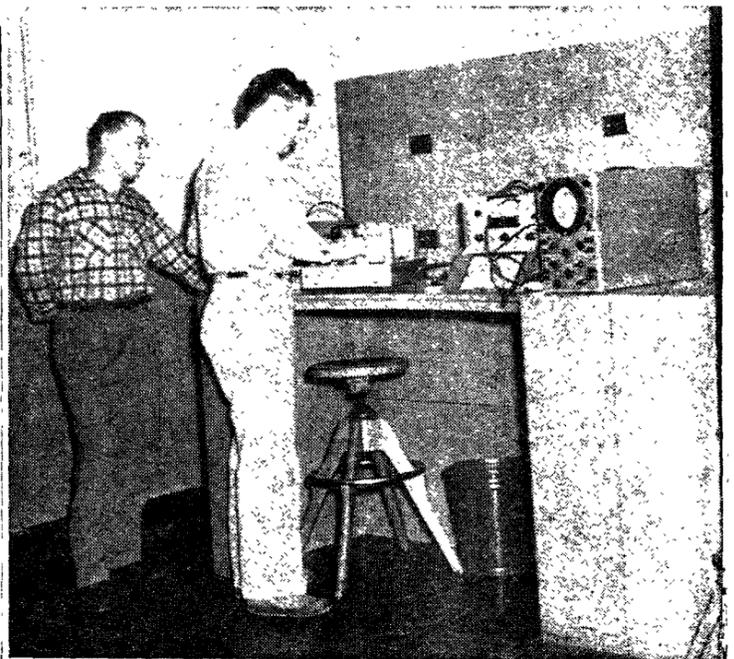
Without the Signal men to install and keep them in shape, there'd be no intercom systems in offices and warehouses.

It seems that anything that makes noise or receives a message is a part of the Signal business. The radar equipment that the office maintains is a far cry from Indian smoke signals and the silent nautical flag signal systems. It's a lot more complex and far-reaching, too.

There's a facsimile machine that operates in much the same manner as a telephoto machine on which newspapers exchange pictures from all parts of the world. Redstone isn't on a worldwide hook-up, but it does receive weather maps and other graphic material that can't be sent as fully across the teletype machines or transmitted by voice through a phone.

Post Signal people are both technical and versed in specialized fields. And they continually evaluate both the present and future needs. An example is the expansion of existing systems and the plans for new ones such as the new cable throughout the Arsenal and the proposed microwave facility which will provide an alternate communication route to the outside. This will be relayed through Decatur and operates on a principle similar to radio or the audio on TV. Then, even if all lines are down between every point in the U.S., an unlikely prospect, there will still be limited service for the scientists to go right on communicating.

The Signal people haven't found the answer to one question. Are the scientists more talkative, or do they write more?



TV MAINTENANCE—Warren C. Morris (right) adjusts the oscilloscope to test TV equipment at the Post Signal Maintenance Shop. The kibitzer is Lake T. Riddle. Both men work on radio and TV equipment when it needs adjustment or repair.

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

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-7131. tfc

FOR SALE — 1957 Chevrolet 9-passenger station wagon, automatic trans., heater, white wall tires, V8 engine, 3,000 actual miles, will swap equity on car or boat or will sell for \$5,000.00 Call Dorman, extension 2705. ttc

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

LOTS ON GUNTERSVILLE LAKE
Just opened up beautiful new Meadow Wood with 46 excellent home sites. 20 waterfront lots. We also have several choice cottage sites. See or call Hootie Woodall, Woodall Real Estate and Insurance Agency, phone Justice 2-4351 or 2-4471, Guntersville. ttc

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

FOR SALE — 1958 Austin, 2-dr., gray, leather upholstery, few miles, 40 miles per gallon. Pho. Redstone, ext. 6407, ask for Tony. ttc

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

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WHEN TERMITES swarm, call Andy's Pest Control. Phone JE 2-5078 or JE 6-3910. ttc

Several New Great Books Discussion Groups Are Planned

"On 21 April at the Post Chapel, there will be an organizational meeting for several new Great Books Discussion Groups which will begin early in May. This is a program that is literary and educational rather than religious. It is a discussion group that meets bi-weekly to discuss some of the great books or parts of them.

The group started last fall will finish its first program this month. In the 16 sessions they have discussed works from the following authors: Sophocles, Homer, Plato, Aristotle, Lucretius, St. Augustine, Shakespeare, Des-

Thiokol Transfers Van Roo, Mrs. Childress To Liaison Office

Robert Van Roo and Mrs. Loren Childress, Jr., formerly of the Redstone Division of Thiokol Chemical Corporation, have been transferred to the Thiokol Technical Liaison Office in Huntsville.

This office is charged with technical coordination of various efforts between the Thiokol rocket divisions and technical representatives.

Van Roo has been associated with Redstone Division as a pro-



ROBERT VAN ROO

ject engineer for approximately one year. Mrs. Childress has been with Thiokol for five years. Three years were spent on the Engineer-

cartes, Hobbes, Pascal, Swift, Kant, Mill Rousseau, and Mark Twain.

If you are interested, call Chaplain Hughes at ext. 2409 and he can give you further information and details.



MRS. LOREN CHILDRESS, JR.

ing Staff and Technical Director's Staff.

Van Roo's principal duty will be to coordinate technical matters between the technical representatives at Washington; Dayton Ohio; and the West Coast, and he will act as the technical representative for the corporation for the Southeast area including the U. S. Army Ordnance Missile Command.

MAJ. SIMS COMMENDED

Maj. John N. Sims, Sr., recently received the Commendation Ribbon with Metal Pendant for meritorious service during the period 22 Jan. 57 to 30 Mar. 58. During this period Maj. Sims distinguished himself while serving as Chief of the Surgical Service, USA Hospital at Redstone Arsenal. Maj. Sims, whose retirement from the service was effective Mar. 31, will enter practice in Ft. Pierce, Fla.



SAFE DRIVERS—Representative of the safe drivers in the Transportation Office here are (kneeling, left to right): J. H. Lanier, R. S. Campbell, W. B. Jacobs, C. W. Sharp, and C. W. Rucker. Standing (left to right) are: W. R. Randles, H. G. Branum, L. Ragland, J. W. Houston, and F. M. Clark. Each of them received a pin for more than five years of driving without an accident.

51 Transportation Employees Get Pins For Safety Records

Fifty-one members of the transportation office at Redstone Arsenal recently received pins for safety records of five years or more.

These men presented 530,000 man-hours of safe driving in all kinds of vehicles with nothing more serious than a blown tire or a scratch.

From Baker Motor Pool there were 10. They are: W. A. Rucker, E. B. Bailey, P. A. Baker, foreman; J. W. Houston, J. E. Lockhart, V. Patterson, W. R. Randles, E. W. Shepard, J. Walker, and J. E. Sparkman.

Headquarters had 19 representatives including: D. M. Brandon, R. S. Campbell, F. M. Clark, Foreman; J. R. Coleman, C. L. Hall, W. B. Jacobs, J. E. Mathis, M. L. Moore, R. C. Whisenant, L. Ragland, H. Whitt, R. L. Williamson, C. W. Sharp, H. G. Branum, O. Norman, E. H. Selvage, L. D. Johnson, and R. C. Royer.

The other 23 safe drivers are in the Main Motor Pool. They are: W. S. Long, C. M. Blythe, H. L. Brooks, A. R. Burroughs, H. L. Chandler, M. V. Cranford, L. M. Davidson, C. E. Hill, J. H. Lanier, J. R. Layman, E. C. Mason, P. Merrill, S. A. Posey, H. L. Powers, J. H. Qualis, foreman; R. T. Russell, J. D. Shumate, M. E. Stapler, J. C. Walker, J. F. Ward, O. C. Watson, L. J. Williams and H. D. Yeates.

One of the most economical meats, ground beef, seldom costs over 10 cents for a three-ounce serving.

Here's a trick to keep house plants watered while you're away from home. Cut a strip of soft, white cloth an inch wide and two feet long. Put one end of the strip in a pail of water placed slightly above the plant. The other end, buried into the soil around the plant roots, will supply the plant with water for at least a week.

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Women's Novelty APRONS Save 21c	77c	Women's Cotton Dresses Save \$1.21	277

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GUIDANCE

(Continued from Page 7)

of Stuttgart Technical School, performed work in the field of engineering analysis. This covered stress analysis, dynamic calculations to check the influence of the explosion or photo flashes to the payload attitude of the orbiter.

The Chief, Control Section, F. Brooks Moore of 118 Sherwood Dr., Huntsville, who has degrees from Auburn and Georgia Tech, exercised general supervision of control tasks involving modification and adoption of the basic Redstone Missile system. It included development of the special control system required for spatial orientation of the Jupiter C which launched Explorer.

Helmut Pfaff, Chief, Development and Design of Mechanical Systems, a graduate of Darmstadt, supervised engineering analysis for the satellite in its formative stages of development.

James T. Powell, Jr., 32, a research engineer and Georgia Tech graduate, supervised development of measuring component for proper information of occurrences in the Jupiter C flight to its apex. He lives at 2436 Force Dr., Huntsville.

The chief, Gyro Stabilizer Section, Heinrich Rothe, of 802 Cedar St., Huntsville, a graduate of Hildburghausen Technical School developed a missile fixed auto-

pilot gyro which controlled the Jupiter C until apex of its trajectory. This required adoption of a unique air bearing gyro of extreme accuracy and ruggedness.

Rowell is a graduate of Auburn and a research engineer. One of the methods to determine correct ignition time of the upper stages was perfected by Grady H. Saunders of 148 Cloverdale Dr., Huntsville, who attended Auburn and the University of Maryland.

He was at Cape Canaveral when Explorer I was launched and took part in the evaluation of ignition time performed between first stage burnout and apex.

Rothe also made theoretical investigations about the influence of a spinning top on the control system of the booster, the modified Redstone Missile first stage.

James G. Rowell, 28-year-old chief, Missile Fixed Autopilot Research Unit, of 1731 Monte Sano Blvd., Huntsville, was in charge of development and testing of

The test program for prototype satellite components and for the assembly was entrusted to Samuel R. Stevens, aeronautical research engineer, of 1702 Hampton Rd., Huntsville. He is a graduate of Delta State College, Cleveland, Miss. He also prepared the payload for the reentry test vehicle, a Jupiter C launched in September, 1956, over a distance of 3,000 miles.

Dieter L. Teuber, 30, chief, Special Tasks Unit, of 2018 Polk Dr., Huntsville, was responsible for layout of the attitude control system for analog computer studies which became a model for the Jupiter C system. He also had charge of development and test-

ing the programmed speed regulator for the rotational launcher.

Teuber is a graduate of Darmstadt Technical University.

Hardware design for the formative stages of orbiter development is the responsibility of H. R. Wagner, chief, Special Tasks Unit, Design Section A research engineer, he is a graduate of Dresden Technical Institute and lives at 1104 Peck Rd., Huntsville.

Frederick W. Wagner, 24, of 3309 Bellecrest Dr., Huntsville, who attended Berry College and the University of Georgia, had charge of design and test of programmed regulator for cluster speed control.

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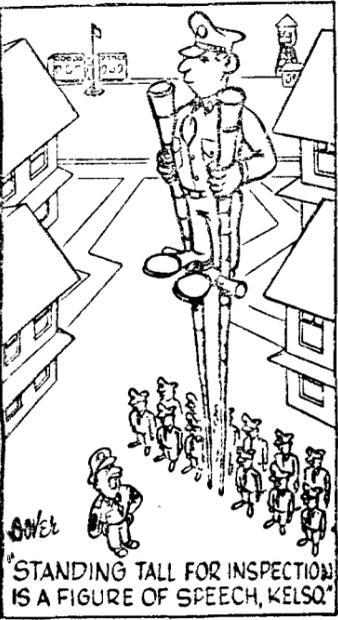
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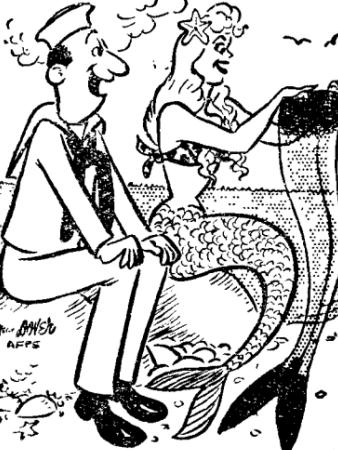
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