

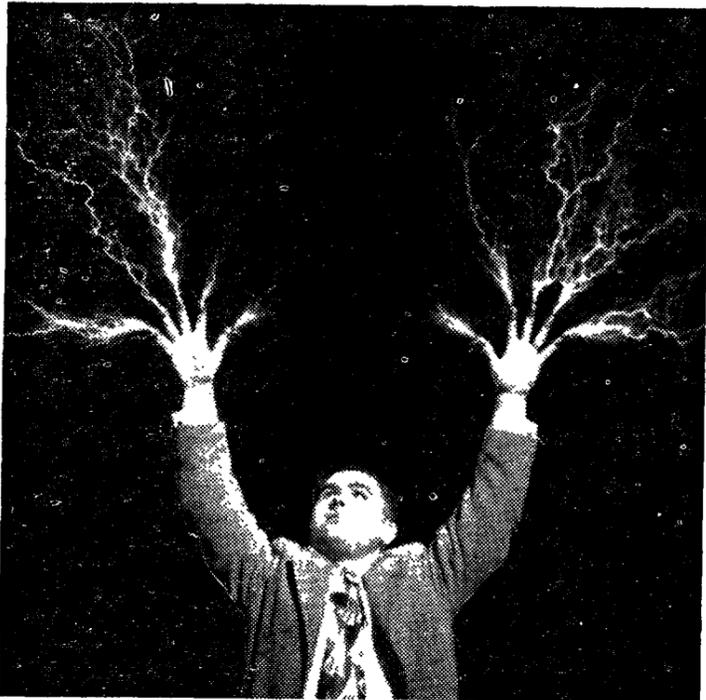
The Redstone Rocket

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VOL. X; NO. 24

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

OCTOBER 25, 1961



ONE MILLION VOLTS of electricity blaze from the fingertips of Dr. George Speake as one of the illustrations in his lecture series "Sermons From Science."

'Sermons From Science' Is Scheduled This Week

A series of four Sermons from Science, linking basic fundamentals of the Christian faith with science, will be presented free at the Redstone Arsenal rocket auditorium Oct. 30-31 and Nov. 1-2 at 7:30 each evening.

Dr. George Speake of the Moody Institute of Science staff will conduct the various demonstrations using a ton of specialized laboratory equipment.

The demonstrations are designed to show the harmony between science and religion.

The science-sermons are sponsored by the Redstone Arsenal chaplains, headed by Chaplain (Lt. Col.) J. E. Batterson.

Following the findings made by numerous scientists over the years Dr. Speake will demonstrate that many things looked upon by some as Biblical myths can be supported by scientific facts, and that the natural laws of the universe substantiate the spiritual laws of God.

In the course of the lectures, military personnel, dependents and guests will see solid metal float in the air, and egg fried on a cold stove, an ordinary suitcase with a mind of its own and a number of other scientifically founded facts.

During one of the demonstrations (See SERMONS on Page 2)

Gen. Johnson Visits Missile Command

Brig. Gen. Charles E. Johnson, director of Foreign Intelligence and Maj. R. P. Hazard, from the Office of the Army's Assistant Chief of Staff for Intelligence completed a two day visit to the Army Ordnance Missile Command yesterday.

Their visit included a briefing on the organization and mission of AOMC, and a call on Col. Leon B. Hirshorn, deputy commander of the Army Ballistic Missile Agency yesterday.

Shortly after lunch, the met toured the Arsenal by helicopter and visited the Fabrication and Test Divisions of the Marshall Space Flight Center.

This morning, they met with Brig. Gen. John G. Zierdt, commander of the Army Rocket and Guided Missile Agency, for a briefing on ARGMA's missile systems and later, a tour of the environmental laboratory and a test area.

They were to depart shortly after lunch today.

Colonel Says:

Industry Must Do Better Job on Missile Contracts

San Francisco, California — Industry must do a better job managing its portion of Army missile contracts, a key Army missile manager said today.

"Too often we find ourselves in the position of our backs against the wall because the management that we pay for is not doing an adequate job," Col. Henry H. Wishart told the First Annual Conference of the Pacific Industrial Communications Association.

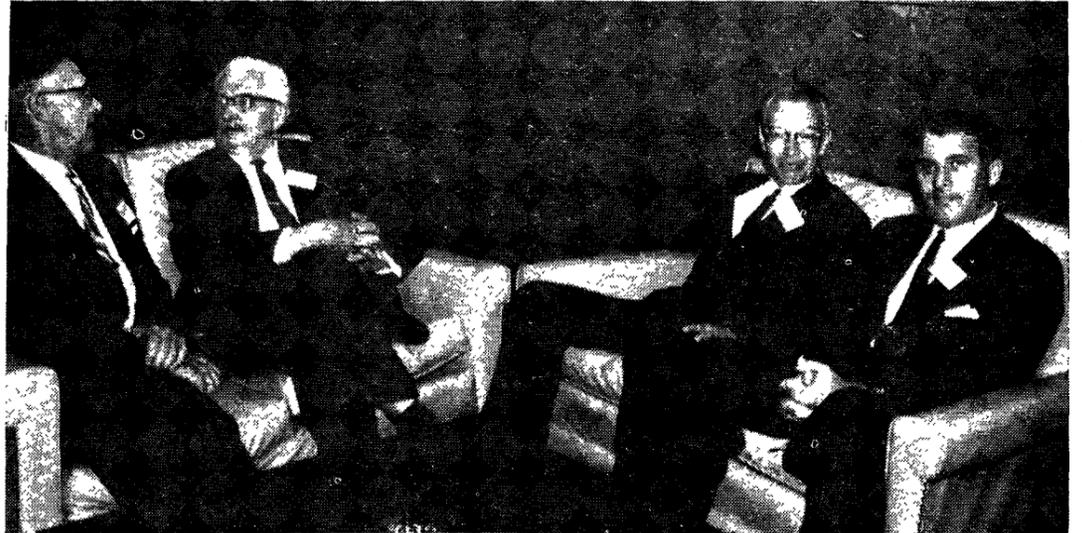
Wishart, Deputy Commander of the Army Rocket and Guided Missile Agency at Redstone Arsenal, Ala., added: "Industry must be concerned with, and seek an understanding of the Army's problems."

Chief of ARGMA's Industrial Operations Division for two years before becoming Deputy Commander, Wishart explained. "The Army presents high-priority problem areas to industry and seeks a solution."

A graduate of the Industrial College of the Armed Forces in Washington, D. C., Col. Wishart emphasized that industry's output must equal the Army's dollar input.

Speaking before the top industry communications men in the West, Col. Wishart emphasized areas of prime Army interest in the Army-Industry relationship, including:

(See INDUSTRY on Page 2)



REUNION—Four "oldtimers" in the rocket and missile field get together again during "Oldtimers Week" at Redstone Arsenal. Left to right are Maj. Gen. H. N. Toffoy, (ret.), Dr. Hermann Oberth, Maj. Gen. John A. Barclay (ret.), and Dr. Wernher von Braun, Director of the Marshall Space Flight Center.

Dr. Carter to Speak To Chemists Society

Dr. William W. Carter, chief scientist at the U. S. Army Ordnance Missile Command, will address the Alabama Chapter, American Institute of Chemists, Friday evening, at the Hotel Thomas Jefferson in Birmingham.

Dr. Carter will discuss advanced (See DR. CARTER on Page 2)



CLAUDE C. ANDERSON

Gulfport Officer Promoted by Army

Promotion to lieutenant colonel of Claude C. Anderson, Executive Officer at the Army Ordnance Guided Missile School here is an (See COL. ANDERSON, Page 3)

'Guardian Angel' Keeps Army Missile on Course

Delta Minimum Guidance Keeps Firing Accurate

Some Army missiles have a "guardian angel," to bring them back to the beaten path whenever they go astray.

This built-in "correcting spirit" is called Delta Minimum Guidance, a scheme that allows the Army Ballistic Missile Agency, an element of the Army Ordnance Missile Command on Redstone Arsenal, to fire its missiles with a high degree of accuracy.

Although a missile can be tempted to wander off course by dozen of factors, its inertial guidance system acts like an unseen hand to pull its erring charge back on a true course.

The Army's new long range Pershing missile has this built-in conscience, developed and refined by the personnel of ABMA's Guidance and Control Aeroballistics Laboratory.

To build a good system, Guidance and Control People "fly" the missile before it is "in iron." Components that make up a missile must literally pass a requirement tests in theory before they can be put together for an actual test.

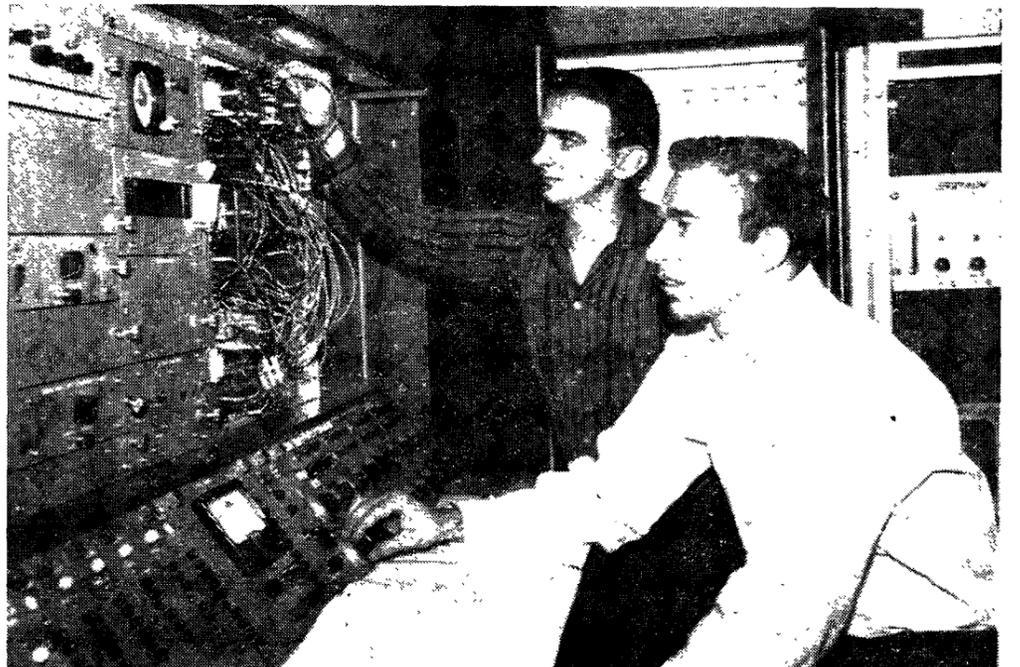
ABMA's guidance and control experts use a computer to run (See GUARDIAN on Page 3)



DR. HELMUT KRENN

Dr. Helmut Krenn, Computer Expert, Joins ARGMA

One of Europe's digital computer experts has joined the staff of the Army Rocket and Guided Missile Agency, Brig. Gen. John (See DR. KRENN on Page 3)



TIC-TAC-TOE—James Stover (r) and Bob Alongi of the Army Ballistic Missile Agency's Guidance, Control and Aeroballistics Laboratory play a complicated game of tic-tac-toe as they program firing conditions and missile components on the computer patchboard.

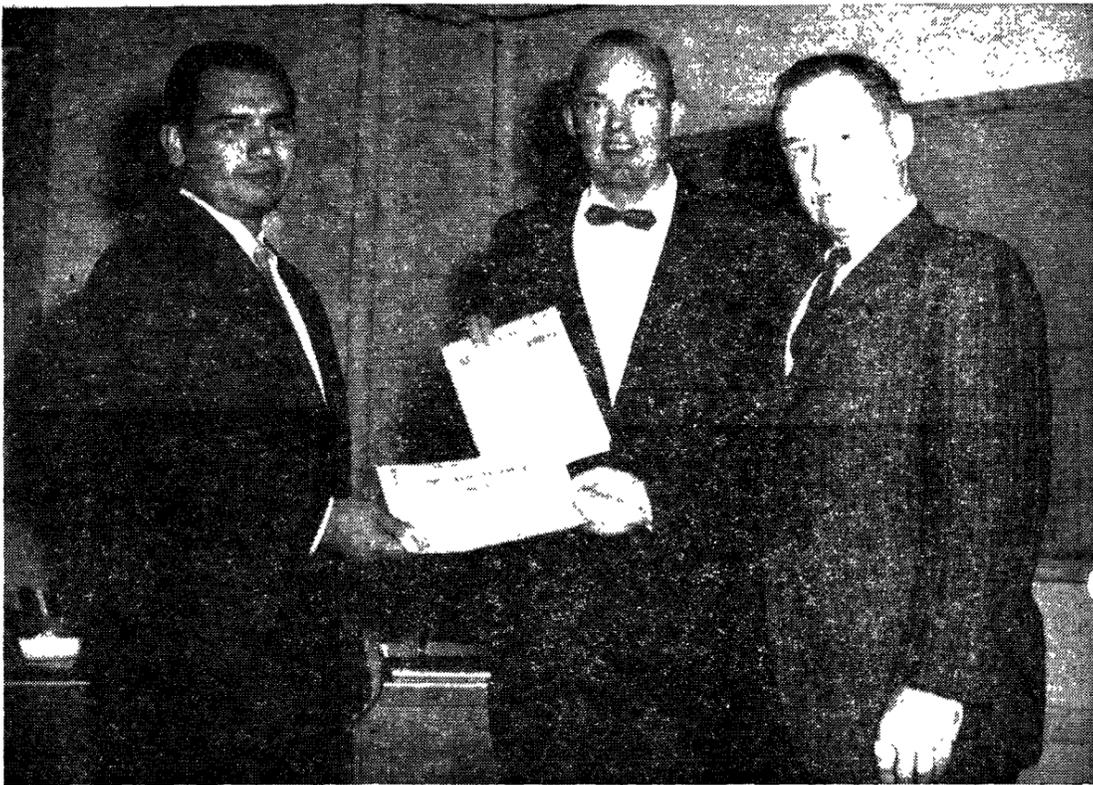
The Redstone Rocket

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WINS RECOGNITION—Robert Paraz, left, electronics engineer with the Army Ballistic Missile Agency office at White Sands Missile Range, N. M., received two separate awards from Lee R. Johnson, chief of ABMA Guidance Control Section, right, and George L. Stewart, Chief ABMA Operations Fire Control. One award was a check for a suggestion on traffic improvement and the other was a certificate for the completion of a 12 week course on the Sergeant missile program.

Industry

(Continued From Page 1)

1. Reliability, the Army wants this quality put into a missile during its earliest conception and kept in during all phases of development, testing, production, and fielding.

2. Quality assurance, the Army insists that the contractor have effective quality control at all times through adequate purchase and testing of raw materials, proper training and education program for plant workers, and purchase and use of proper tools.

3. Information, the Army feels it must be kept informed on a timely basis concerning the current and estimated future status of each industrial contract.

4. Standardization, the Army must have effective standardization of parts in the initial design to save dollars in production.

Col. Wishart told the conferees: "We think a much better job can be done."

"Motivate your employees to supreme performance in defense work."

Dr. Carter

(Continued From Page 1)

education and research in Alabama and the role of the University Research Institute.

Dinner will begin at 7 p.m. and Dr. Carter will speak at 8.

Reservations for the dinner may be made by contacting Dr. C. E. Feazel, of the Southern Research Institute in Birmingham, or Oscar L. Hurtt Jr., of the H. K. Porter Company in Birmingham.

In Decatur, those wishing to attend may contact Cortes L. Perry at the Chemstrand Corporation for reservations.

Those in Tuscaloosa area may contact Ellis E. Creitz of the U. S. Bureau of Mines in Tuscaloosa for reservations.

In the Huntsville area, reservations may be obtained from William D. Guthrie, Martin B. Williams, Lee A. Naftel, Dr. Robert W. Walker or John Q. Miller.

Wives and friends of members are also invited to attend.

Sermons

(Continued From Page 1)

tions, Dr. Speake will discharge over a million volts of electricity through his body.

The Moody Institute of Science also produces scientific motion pictures that are being used in U. S. military installations, British schools and many other countries.

Dr. Speake was graduated from the University of Pennsylvania with a degree in mechanical engineering. He was a Navy pilot for 10 years and is a commander in the Naval Reserve.

More Foreign Students Due at Missile School

Enrollment of foreign students at the Army Ordnance Guided Missile School here is rising as a new phase of international training begins. Col. William J. Macpherson, commandant, said today

Arrival of the first men from Japan and Sweden has boosted the number of Allied nations represented here to 14, he said. The roster also includes Belgium, Canada, Nationalist China, Denmark, France, West Germany, Great Britain, Greece, Italy, The Netherlands, Norway and Turkey.

Several other nations are to send their first students here next year, Macpherson said.

The foreign missile students now

men and six young civilian employees of the Swedish Army. These are the first foreign civilians to come here as students, he noted.

This is the largest number of foreign students to be enrolled here since the first stage of Allied training began in 1957-58, he said, and many have brought their families here.

Col. Macpherson expressed his thanks to the many citizens of Huntsville and Madison County who have become acquainted with the foreign students.

Numbers of the overseas students are willing to appear before civic, educational, social and religious groups and to participate in community activities, he said.

Inquiries should be directed to the Missile School's Public Information Office, Extension 876-5137

at Redstone Arsenal, he said.

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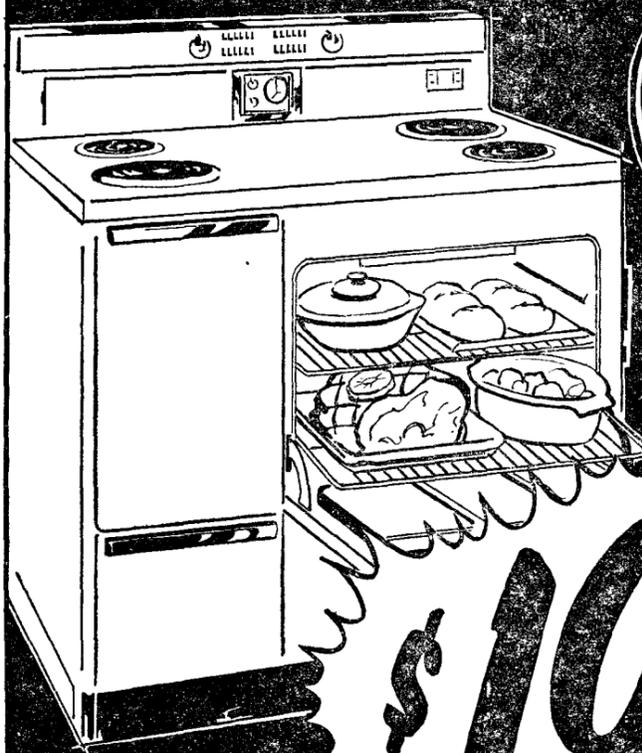
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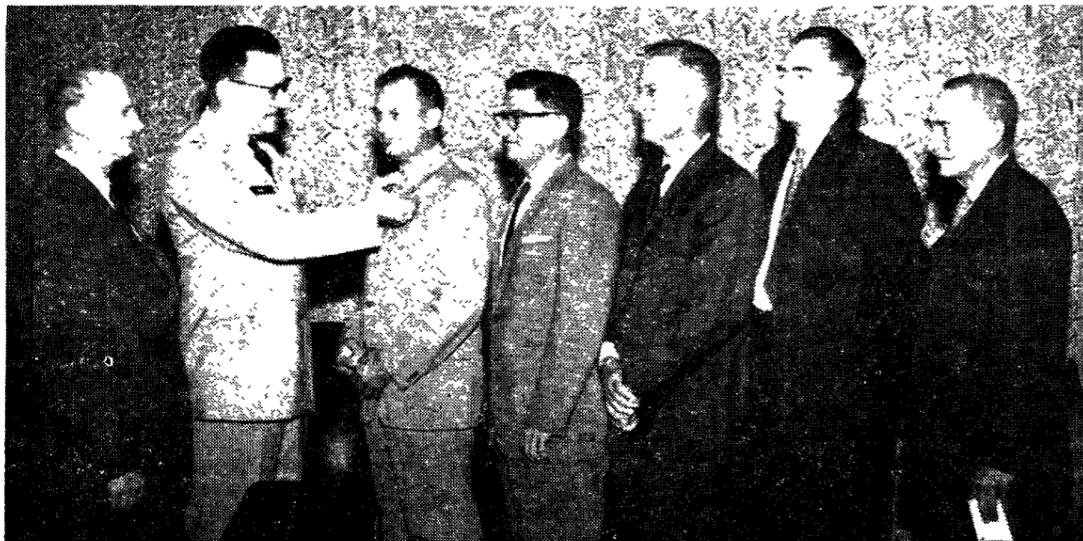
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HUNDRED YEARS OF SERVICE RECOGNIZED—Brig. Gen. R. M. Hurst, Commander of ABMA, has presented twenty-year pins to five Research and Development employees. Dr. Arthur Rudolph, left above, Director of ABMA's Research and Development Operations, was present for the ceremony. Those receiving the pins, continuing left to right, are R. J. Hand, Charles A. Rougon, Harold Reitzel, Raymond I. Strickland, and William P. Young.

Guardian

(Continued From Page 1)

their theory test duplicating all types of systems under all types of conditions.

Tapping the computer control panel that looks like a telephone switchboard Jess B. Huff Jr., Director of the GC and A Laboratory, says: "We have the capability to construct more than 200 different situations on this patch-board."

Only after a design has been proven feasible does the development of miniaturized components start. Then the major components

are put together.

"Component perfection is the key to improvement of guidance systems," Huff claims. "The individual parts must be right if the whole guidance package is going to do its job."

Rigorous testing of major components and prototypes is the next step in a guidance building program. The guidance package gets spin and orientation tests. The three motions which the guidance package is designed to check and control, are tested during this time.

One is pitch, the up-and-down motion of a missile during flight. The

second is yaw, a side-to-side wobble, and the third motion is roll.

The Delta Minimum Guidance Scheme provides a warehouse of ideas for the extensive testing that gives built-in insurance against a missile wobbling off course like a badly kicked football.

Gyroscopes that sense direction and accelerometers that calculate velocity and distance work in conjunction with missile-borne computers inside this guidance bundle to insure that the missile stays on the trajectory line drawn from the launch point to the target.

If the missile is pushed or pulled off this line in any direction the Delta minimum system will make it toe the mark again. As the missile climbs from its launch point, the area of guidance resembles a gradual narrowing cone of control.

The diameter of this "gun barrel" is determined by sensor in the missile that acts as its eyes. Sensing when the missile strays from its pre-set course, it informs the control or "brains" of the system, and the fins, vanes, or "muscles" of the missile react to put it back where it belongs.

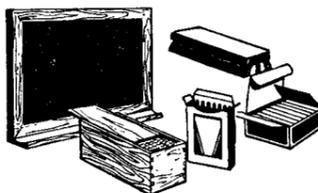
When the warhead components "start downhill" after second stage burnout, guidance can work automatically until the warhead impacts on its target.

"We want to have control of the missile from launch to impact," Huff explains, "And the

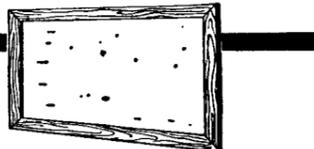
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Dr. Krenn

(Continued From Page 1)

G. Zierdt announced today.

He is Dr. Helmut Krenn, who until recently was employed by the Siemens Halske Computer Corporation in Munich, Germany.

The 38-year-old Krenn arrived in the United States last week accompanied by his wife and two children and was met in New York by Thomas Moore, a physicist with ARGMA, who brought him to Huntsville.

An expert in the design and development of digital data processing equipment, Dr. Krenn will work in the Advanced Plans Branch of Research and Development Operations.

Dr. Krenn is a native of Austria where he received his doctorate in physics from the University of Vienna in 1952.

Born in St. Valentin, Lower Austria, Dr. Krenn attended the University of Vienna for his Bachelor of Science degree. He had been with Siemens Halske Corporation as a development engineer since 1955.

Dr. Krenn is in America under a special service contract which lasts for a year. At the completion of that year he has the choice to become an American citizen and remain with ARGMA as a Civil Service employee.

Delta Minimum Guidance Scheme is our guardian angel to insure that we have control of the missile at all times and can put it on the target, despite any number of atmospheric conditions."

Col. Anderson

(Continued From Page 1)

nounced by Col. William J. Macpherson, Commandant.

Col. Anderson, 43, was reared in Gulfport, Miss., and graduated from Gulfport High School in 1936. He entered the Army in March of 1941 and received his commission in 1942. He served as a Fire Control Instrument Maintenance Officer during World War II and was Ordnance Advisor to the Turkish 2nd Army from 1958 to 1959.

Col. Anderson reported to the Missile School in 1959 and headed its Maintenance Branch, Office of Logistics, and Field Artillery Missile Division, prior to becoming Executive Officer.

His mother is Mrs. F. L. Anderson, Sr. of Gulfport, Miss. He is married to the former Edwina Lassiter of the same city.

The Andersons have two daughters, Cheryl and Kay and reside at 407 Hughes Drive, Redstone Arsenal.

Frank Hart Speaks At Solid Propellant Panel Conference

Frank E. Hart, a safety engineer with the Army Rocket and Guided Missile Agency addressed the 10th meeting of the Joint Army, Navy and Air Force Solid Propellant Rocket Static Test Panel Oct. 18 at Waco, Texas.

Hart, a graduate of Georgia Tech will speak on static test operations safety.

More than 200 missile engineers from several countries, government agencies and private industry are expected to attend the three day conference.

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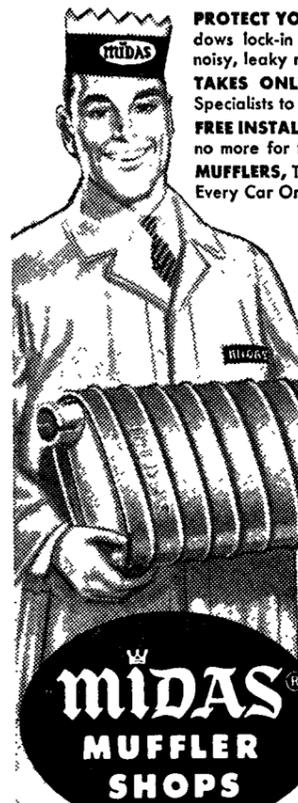
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Social News

RADIO ENGINEERS AT SQUIRREL HILL PLAN DINNER

The Institute of Radio Engineers will hold an open meeting tomorrow night at the Squirrel Hill Officers Club beginning with a social hour at 6 p.m. and dinner at 7 p.m.

The principal speaker on the program will be Herschel Matheny, a Project Engineer at Brown Engineering Company.

Mr. Matheny formerly worked at Reynolds Metals. He is a graduate from the University of Alabama with a bachelor's degree in industrial engineering.

Mr. Matheny is a member of the American Rocket Society, the Operations Research Society and the American Institute of Industrial Engineers.

MRS. ROSS WINS AT PARTY BRIDGE

Mrs. R. B. Ross was high scorer at the "Party Day" bridge competition sponsored by the party group of the Redstone Arsenal Officers Club last Thursday.

Ten tables of players competed in the session with Mrs. R. A. Bergmann making second high score. A slam prize was awarded Mrs. E. S. Schorsten. Honors were taken by Mrs. R. W. Washburn.

The Party Bridge Group meets every Thursday morning at the club at 10 a.m.

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CAPT. GOODMAN, MRS. ROSS WIN AT PARTY BRIDGE

At Monday night Party Bridge last week Capt. Goodman was high for the men and Mrs. Robert Ross was high for the women during competition at the Squirrel Hill Officers Club.

For reservations or cancellations to join the Group interested players may contact Mrs. John Sevaireid by noon Saturday.

Wiesman to Speak To Military Engineers

The Redstone Arsenal Post of the Society of American Military Engineers will meet at the Squirrel Hill Officers Club Thursday at 6:30 p.m.

Colonel Wyatt G. Trainer, President has announced that Walter Wiesman will be the guest speaker.

Mr. Wiesman was born and educated in Dortmund, West Germany and served three years in the German Air Force. In 1943 he was assigned to the German Missile Center in Peenemuende.

He came to the United States in 1945 with the original group of V2 specialists headed by Dr. Werner von Braun. Mr. Wiesman has occupied management and staff positions with the Ordnance Guided Missile Development Division, the Army Ballistic Missile Agency and is now with the Army Ordnance Missile Command at Redstone Arsenal. Since 1956 he has worked on information programs related to scientific, educational and management aspects in missiles and space programs.

He is a well known lecturer and an active participant in many phases of civic work such as the U. S. Junior Chamber of Commerce, Huntsville, Jaycees, Kiwanis and several other organizations.

Mr. Wiesman became a U. S. citizen in 1954. He is married and has two children.

may be made with Mrs. C. W. Hartman.

At the Service Club

It's that time of year again—full moon, frosty nights and sunny days, yellow and red leaves, filling the air, and just around the corner that celebration of the supernatural, Halloween.

We plan to celebrate right along with the ghosts and ghouls this year with a big Halloween Costume Dance on the 31st, but before we lose ourselves in the seasonal pursuit of hot spiced cider, carved pumpkins, and fun under that harvest moon, let me inject a last word of warning: be careful — that charming girl you'll be dancing with here on the 31st may be in reality a creature from the twilight zone bent on doing some witchery to your heart. Before you expose yourself to such dangers, however, look over the Club schedule for the week preceding the dance and join us for some of the programs.

On Wednesday evening, the 25th, we'll have our weekly dance classes in the Main Lounge starting at 1900 hours.

Thursday evening the Shutter Club will gather in the small lounge for a showing of slides, discussion of snapping sessions, or just good conversation at 1800 hours. Tommy Lee's Review, scheduled for 2030 hours on Thursday has been cancelled due to unavoidable conflicts in scheduling.

Friday? You can amuse yourself on Friday evening with a Table Tennis Contest in the game room, either as participant or spectator at 2000 hours. Of course, all the other small games and club facilities will be available for your use also.

A program of Mood Music will hold the spotlight on Saturday at 1730 hours, followed by Kitchen Snacks served throughout the Club at 1800 hours.

Hot Coffee and donuts will get Sunday off to a good start at 0930 hours. Then that afternoon at 1330 hours, a shuffleboard contest will begin in the Game Room. Popular Requests, the weekly Record Dance, will swing out at 1900 hours on Sunday Evening.

Monday night is Games Night. The games will begin at 2015 hours in the Main Lounge.

On Tuesday night, the 31st, the Bridge Club will meet at 1930 hours. Then at 2000 hours, the unusual assortment of characters will begin to gather for the Halloween Costume Dance. Costumes aren't required, but they are requested, and I urge you to find some kind of disguise, as it seems that those who do come in costumes usually have a ball.

HISTORY

A crowd of nearly sixty enjoyed potato salad, sandwiches and punch at the casual Buffet Supper given at the Service Club on the 15th of this month, then stayed for the Record Hits dance afterwards, which rocked on until eleven.

Lonnie McDaniels's enthusiastic



AN ORIGINAL PATENT grant issued to Herman T. Blaise by the United States Patent Office was recently presented to him by Colonel Thomas W. Cooke, Commander of Army Ordnance Missile Support Agency. The Colonel expressed his own interest in the patent program of the Ordnance Corps and appreciation of the Government in the defense efforts of the inventor while employed by ABMA. The patent involves a jig for directing a drill into perpendicular engagement with an object and in accurate alignment of the axis of the drill with a center point previously located on the surface of the object. Mr. Blaise is presently employed by NASA.

music for the sock hop Ball inspired the bare footed dancers to efforts rarely seen. May Bennett, Pat Byard, Linda Creque, Kay Williams, and Mary Todd were among the dancers.

Then on the 16th, the Dance Band of the 55th Army Band favored us with an excellent program of dance music of a quality not often heard in these parts. I had no idea that we had a band of such talent on post—I urge all of you to seize every opportunity to hear these fellows play—they're really good.

FUTURE
Sneaking a peek at Betty's notebook of upcoming programs, I see several items of more than passing interest. For just a fast run-down of things you might not like to miss, try the Thanksgiving Semi-Formal Dance, planned for the 14th; "Will Success Spoil Rock Hunter," hopefully scheduled for the 16th and 17th; A Ft. McClellan Tour on the 18th; A "Ship Ahoy" Dance on the 26th; plus a number of other goodies that I'll be telling you about next week. See you then?

—Margaret



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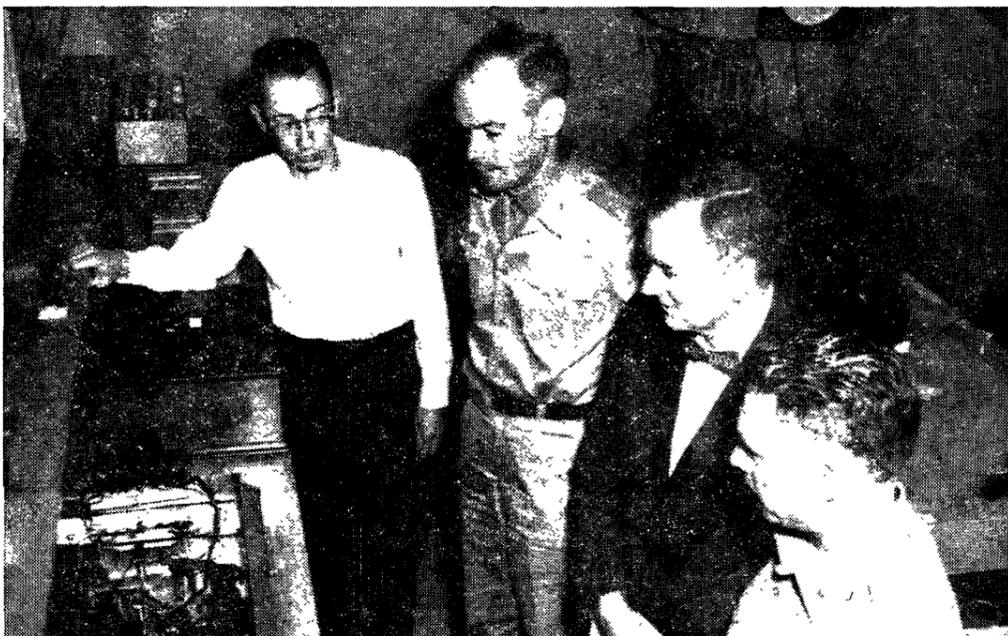
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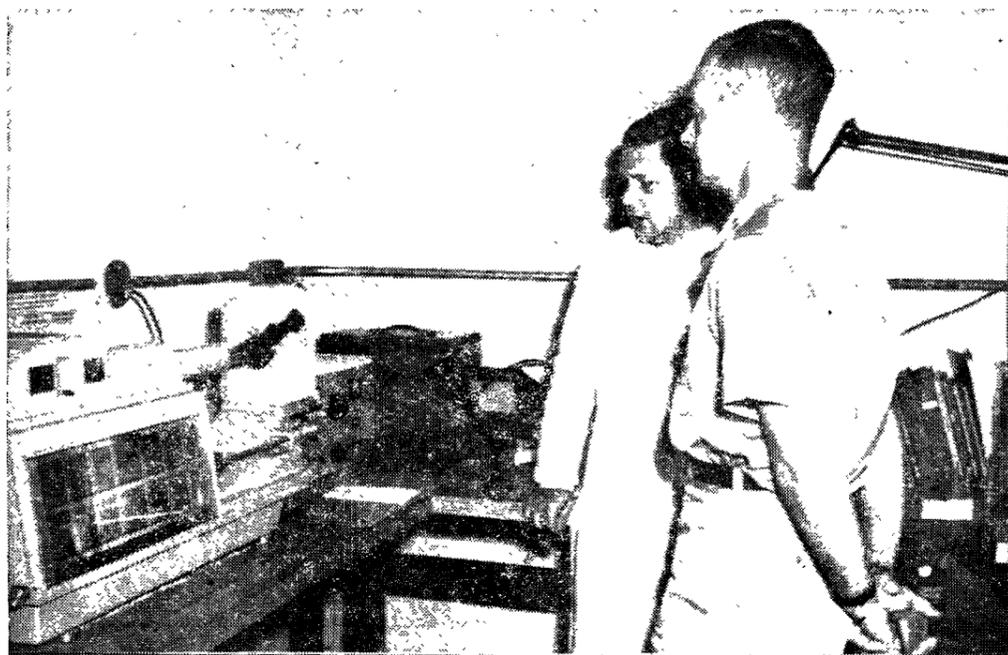
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MEASUREMENT of Electronic equipment's accuracy is controlled in an oil bath where the temperature remains constant. Showing Col. Henry J. Katz, Deputy Commander of the Army Ordnance Missile Support Agency, (second from left) the method used in very accurate measurement is John Hodges in the Electronic Branch of the Primary Laboratory at AOMSA Calibration Center. At the colonel's right are Lewis Ellenburg, Acting Director of the Center, and Col. James O. Green, Chief of AOMSA's Technical Operations.



GEORGE OWENS explains the uses of the Interferometer in measuring wave lengths of light for Col. Henry J. Katz. Owens studied at the U. S. Bureau of Standards. Col. Katz was making an orientation tour of the Calibration Center, Army Ordnance Missile Support Agency. He is the recently appointed Deputy Commander of AOMSA.

Atmosphere Is Controlled 'n Calibration Center

Success in building depends on correct measurement whether its a house, a pants cuff, or a missile. Metrological services, the art of

measuring devices against a known standard are furnished to Agencies of the U. S. Army Ordnance Missile Command, and other authorized customers, by the Calibration Center of the Army Ordnance Missile Support Agency. The Agency's Commander is Col. Thomas W. Cooke.

A new building is planned for the Calibration Center in FY 64 to house three laboratories: Primary, Secondary and Research. The Primary and Secondary Labs are already operational in Bldg. 4500. Lewis Ellenburg is the Acting Director of the Calibration Center.

Whether an instrument is used to build a missile or is a part of the missile system, ultimate suc-

cess depends on accuracy. The National Bureau of Standards measurements are accepted as the ultimate standard for all United States measurements. The Calibration mission for the Ordnance Corps is at Frankford Arsenal.

In the Primary Standards Laboratory, some of the men studied at the National Bureau of Standards to ensure accuracy in reading and reporting measurements. Lt. James R. Miller III is chief of the Laboratory.

Control of humidity, temperature and dust content are required during any measurement which involves very accurate determination.

Therefore, the Laboratory is equipped with dust filters and air conditioners to keep the atmosphere as free from pollution as a baby's incubator and to maintain temperature within very narrow limits.

Electrostatic filters keep the dust count down to five microns per cubic foot. Relative humidity must not exceed a maximum of 50 per cent. Since the temperature of air is harder to control than that of oil, many measurements in the Electronic Branch

of the Primary Lab are taken when the instruments are immersed in oil baths. The oil temperature can be controlled to one-hundredth of a degree at 25 degrees Centigrade. Mr. B. B. Jennings is Acting Chief of the Branch.

Optical readings on the interferometers can be made to within one-ten-millionths of an inch through the use of mercury and cadmium vapors. These substances are used as a standard of comparison because each produces stable sources of known wave length of light which make very accurate determination easier.

Lt. Miller enjoys applying the principals now recorded in textbooks, which were proved by earlier pioneers in electronics and works closely with the branch chiefs such as Oscar Herndon, who heads the Primary Physical Branch, as the sleuthing for very accurate measurement advances the art of missilry.

Because when Army missiles successfully take to the air and upper atmosphere, the men working in this field know that without the calibration service the likelihood of a missile firing accurately would be entirely a matter of chance.

Metrological service is part of the technical support furnished by the Agency under the Chief for

Technical Operations, Lt. Col. James O. Green.

Among the newly assigned men in the Calibration Center are Lt. Paul Carr and Lt Robert Grove. Robert Carr has his master's degree in physics from the Massachusetts Institute of Technology, and Lt. Grove received his bachelor's degree in mechanical engineering from Pennsylvania State. Both are in the Primary Laboratory.



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GRADUATE STUDY PROGRAM GROWS

The strong desire of local Government and contractor employes for advanced study keeps growing, the Joint AOMC-MSFC Graduate Study Steering Committee learned yesterday.

Joseph E. Fisher, Chief Training Branch, Civilian Personnel Division, AOMSA, told the committee that enrollment in the graduate study program for the fall quarter doubled last years registration. Last fall quarter there were 166 enrollments compared to 334 enrollments this quarter.

Not only has the enrollment doubled, but also the number of

classes, Mr. Fisher added. While eleven classes were conducted last fall quarter, 21 classes are being conducted this quarter. Enrollments in determinants and matrices, vector analysis, servo mechanisms, and introduction to theoretical physics were so heavy that five sections had to be added to the classes. Altogether, 16 different courses are being offered this quarter compared to ten courses at this time last year.

So that courses — other than the 55 courses planned for this year — may be developed to fit the needs of employes, Dr. William Lucas Chairman, asked the committee members to review the current courses in relation to arsenal missions and to encourage employ-

Principal	Alternate	Organization
Dr. W. W. Carter	Dr. David Sayles	AOMC
Dr. N. L. Muench	Dr. Bruce A. Reese	ARGMA
Mr. J. E. Norman	Mr. John P. Hallowes	ARGMA
Mr. Robert F. Mello	Mr. John Hinkle	AOMC
Mr. Heinrich A. Heithecker	Mr. William V. Gudaitis	ABMA
Dr. William C. McCorkle	Dr. B. Steverding	ABMA
Mr. Joseph E. Fisher	Mr. W. H. Merchant	AOMSA
Dr. Charles M. Hersh	Mr. Harold A. Schulz	OGMS

Births at Post Hospital

Tina Robin Simon, 7 lbs., 11 1/4 ozs., Oct. 12, daughter of SP4 and Mrs. William D. Simon.

Angela Lee Coulson, 7 lbs., 3/4 ozs., Oct. 13, daughter of Sgt. and Mrs. W. B. Coulson.

Donald Carl Becker, Jr., 9 lbs., Oct. 13, son of Capt. and Mrs. Donald C. Becker.

Stephen Mark Davis, 6 lbs., 14 1/2 ozs., Oct. 14, son of S-Sgt. and Mrs. Robert J. Davis.

Tammy Sue Annis, 7 lbs., 15 1/2 ozs., Oct. 14, daughter of SP4 and Mrs. Ronald A. Annis.

Gregoire Lowell Brown, 7 lbs., 3/4 ozs., Oct. 15, son of 2/Lt. and Mrs. Phillip L. Brown.

Mark Lee Spainhour, 7 lbs., 15 ozs., Oct. 16, son of M/Sgt. and Mrs. Thames E. Spainhour.

Roberta Marie Sherwood, 6 lbs., 4 ozs., Oct. 16, daughter of 2/Lt. and Mrs. Robert A. Sherwood.

George Everett Thunstrom, 9 lbs., 14 3/4 ozs., Oct. 19, son of Pvt-2 and Mrs. Ralph E. Thunstrom.

Members of AOMC and OGMS on the Joint AOMC-MSFC Graduate Study Steering Committee are:



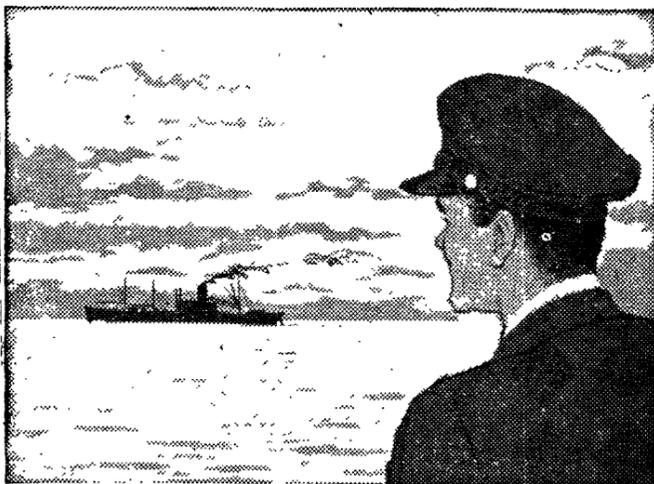
\$2,500 BOOST for Research Institute Campaign by Thiokol. John H. Goodloe, Director of Operations for Thiokol's Redstone Division presents a \$2,500 check from Thiokol Chemical Corporation to Douglas Ray and W. L. Halsey, Jr., Co-Chairmen of the Research Institute Finance Committee. The check is to aid in the campaign to inform Alabamians of the facts involved in Amendment No. 2 to be voted on in the December 5th referendum. Amendment No. 2 will authorize the sale of \$3,000,000 in bonds against the general fund of the state, with the proceeds to be used for constructing and equipping the Research Institute in Huntsville.

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1000	\$40.05	48.76	92.30
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1951 WILLYS sta. wag., 4 cyl., new tires. Was \$295—NOW \$195.

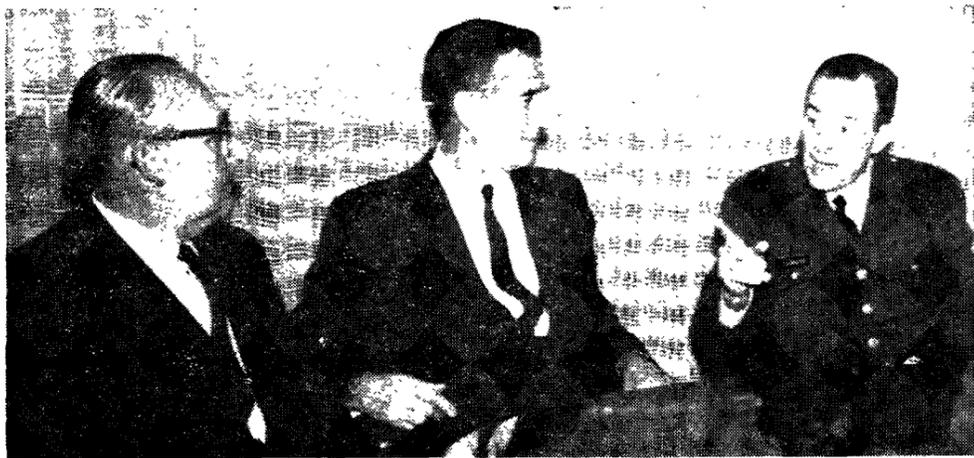
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LABOR TALKS—Maj. Gen August Schomburg, Commander of the Army Ordnance Missile Command discusses labor relations with James J. Reynolds (center), Assistant Secretary of Labor for Labor-Management Relations, Robert F. Meli, AOMC Civilian Personnel chief joins in the discussions that took place here Wednesday as the Secretary visited the Arsenal after a speech to the Huntsville Society for Personnel Administration.

Capt. Fiorentino Receives Medal

Capt. William J. Fiorentino has received the Army Commendation Medal for meritorious performance of duty while working on the U.S. Nike Zeus anti-missile missile system development program.

Currently a Nike Zeus project officer on Kwajalein Island in the Southwest Pacific, Fiorentino received the award for service here while assigned to the Anti-Missile Missile and Space Defense Projects Office of the Army Rocket and Guided Missile Agency from May, 1960, through May, 1961.

The Zeus installation on Kwajalein will be used in forthcoming tests of the missile defense system using target nose cones boosted by Air Force intercontinental ballistic missiles.

Thomas L. Little Returns to Work

Lt. Col. Martin L. Raines, Chief of ARGMA's Pacific Field Office on Kwajalein presented the medal.

The citation accompanying the award stated that Fiorentino demonstrated outstanding leadership and managerial competence which contributed significantly to improving the Nike Zeus anti-missile missile capability.

He entered the Army in July, 1956, at Fort Bliss, Texas, and was assigned to military installations in Texas, Washington and Maryland, prior to coming to Redstone Arsenal in September, 1958.

A native of New York, where he attended Fordham University and received a degree in physics,

Thomas L. Little Returns to Work

Thomas L. Little, former Administrative Officer for Industrial Operations, returned to work recently after a year's illness. Mr. Little is now employed as an Industrial Program Specialist in the Planning Office.

Before coming to ABMA, Mr. Little served with Milan Arsenal and with the Ordnance Ammunition Command in various capacities, including that of Civilian Personnel Officer. Mr. Little also served as captain in the U. S. Army.

Fiorentino recently received a Masters Degree in engineering from the University of Alabama

Movie Schedule

Wednesday, Oct. 25, "The Great Imposter" (M-YP) starring Tony Curtis and Edmond O'Brien. Time 1800 and 2030 hours.
Thursday-Friday, Oct. 26-27, Walt Disney's "Parent Trap" (F)

starring Hayley Mills and Maureen O'Hara. Time 2030 hours.
Saturday, Oct. 28, "Sword of Sherwood Forest" (F) starring Richard Greene and Peter Cushing. Time 1800 and 2030 hours. SPECIAL MATINEE: 1030 hours.
Sunday-Monday, Oct. 29-30, "Back Street" (M) starring Susan Hayward and John Gavin. Time Sunday 1400, 1800 and 2030 hours. Time Monday 1800 and 2030 hours.
Tuesday, Oct. 31, "7 Women From Hell" (M-YP) starring Patricia Owens and Cesar Romero. Time 1800 and 2030 hours.

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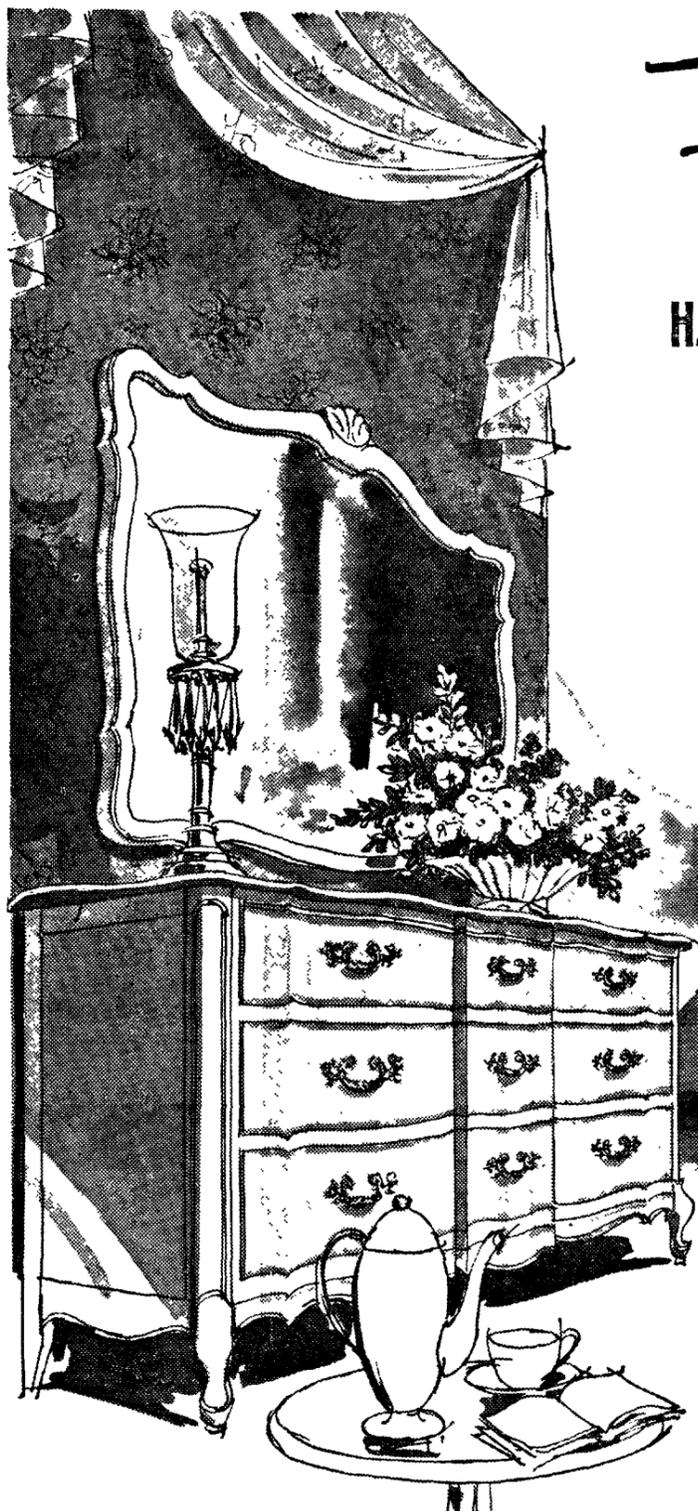
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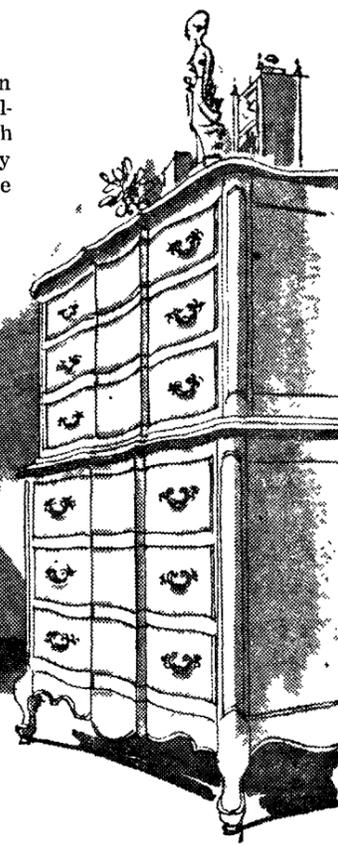
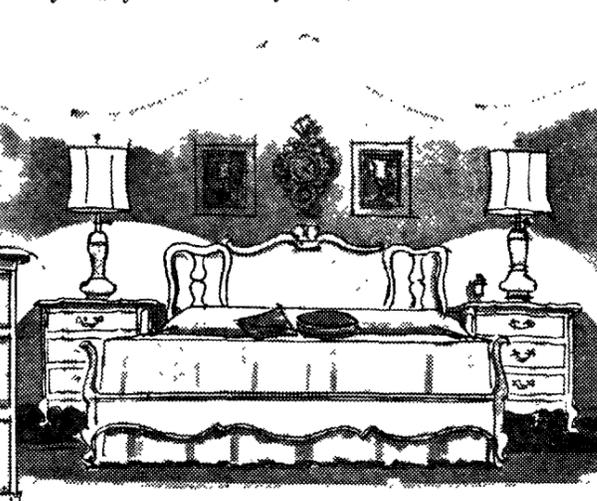
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PIO Sports By Handy

FOOTBALL:
Football has come almost to a halt, but three teams are still showing a "little" fire and spirit. Last week AOMC defeated the 291st MP Co., and AB-OGMS/STC defeated AOMC in one of the closest games of the season by a score of 16-12.

291st MP Co. joined the "unemployed" by dropping from the league because of conflicting military duties. The league now has one game left, and that game can make or break the best.

UTC-STC plays AOMC on Oct. 23 at 1900 hours at Linton Field. If AOMC loses, the champions will be UTC-STC. If they win, UTC-STC will be tied with AB/OGMS-STC for first place. A play-off will then be held on Nov. 1 at 1900 hours at Linton Field.

Follow the outcome at the first game on Oct. 23 by being present to cheer your team on. Credit has to be given to the unit commanders and the managers of the teams left in the league for their efforts to keep the league in progress and for their support of their teams.

Getting back to the play-off situation, if AB-OGMS/STC loses to UTC-STC, a play-off will have to be played between AOMC and AB-OGMS/STC for the runner-up spot. Both championship and runner-up teams will receive their trophy at the "Turkey Bowl Classic" game to be scheduled on Nov. 23, Thanksgiving Day. Be sure to put the date and game on your calendar to see one of the season's best sports events. This reminder is a little early, but each week we will remind you so that a capacity crowd will be there. Also, the game will be the right "antidote" for that big dinner.

The following is the standings to date:

Team	Won	Lost
UTC/STC	5	0
*AB-OGMS/STC	5	1
AOMC	4	1
*291st MP Co.	2	4
*Signal	2	4
*864th AF	1	5
*HQ AOMSA	0	6

*Completed Season.

HUNTING-FISHING:

With the weather as nice as it has been, hunting has taken a rise in popularity. Many calls have come in regarding weapons and permits for hunting on the post, so a little information is furnished for hunters.

Weapons may be drawn from Special Services Supply, 0800-1630 hours Monday thru Friday, closed

Saturday and Sunday, Bldg. 3619 (next to the Bowling Lanes) for a three day period. Ammunition is furnished by the individual.

Hunters must have an Alabama State license and a Post license from the Provost Marshal's office before hunting on Redstone Arsenal. Certain areas will be designated by the Game Warden at the Provost Marshal's office.

BOWLING:

With the bowling season just underway, some bowlers seem to have forgotten bowling courtesy. Bowling courtesy is an unwritten code of ethics, it respects the privileges and rights of the contestants, as does rules of other sports to help keep the game at its fullest enjoyment. The following code should be known to all bowlers:

(1) Give help to the beginner or novice, when it is asked for;

(2) Use proper equipment, particularly shoes. Leather heels may scar the approaches and rubber heels may prevent proper sliding.

(3) Never put powder or chalk on an approach. If it seems sticky, notify the bowling manager and he will correct the situation;

(4) Never use another player's ball without his permission. If he does permit, or insists on, your using his ball do not use resin, chalk or powder on your hands.

(5) Be ready to bowl when your time comes. Don't delay the game;

(6) Do not pick your ball off the rack just as a bowler on the other side is about to bowl or while he is making his delivery;

(7) Never bowl at the same time with either the player on your

left or right. The bowler to your right has the priority if he is ready to bowl.

(8) As soon as you have bowled and noted your hit, return immediately to the rear of the approach. Do not linger and disturb other bowlers in adjacent lanes, or cause unnecessary delay of your teammate's or opponent's game;

(9) Never speak to the bowler after he has taken his stance. To do so or make remarks or undue noise with intention of disturbing the player, is a serious violation of the bowler's code;

(10) Always be on time when scheduled to bowl. Lateness is considered a serious breach of bowling etiquette. Always notify your team captain if you know you will be late;

(11) Never argue about a foul called on yourself. If you feel it has been incorrectly called, notify both team captains. Good sportsmanship accepts the decision of the foul judge at all times, as he is in a better position to observe violations;

(12) Learn the rules of the game. Learn to score. Be a good sport and you will enjoy the game.

Get acquainted and if you need help with your bowling or need bowling questions answered, the following personnel are at the Lanes and at your service: S/Sgt. Willie N. Paulette, Bowling Manager; SP4 Warren F. Bird; PFC. Glenn H. Carlson; PFC. Brett D. Combs.

The following are the standings of the various leagues bowled at the Redstone Arsenal Bowling Lanes.

Outlaw League

Mil. Per.	AOMSA	5
1st ETC	13	7
Marines	12½	7½
3rd ETC No. 1	12½	7½
3rd ETC No. 2	7	13
287 Ord	0	20

OGMS Officers League

Team	Won	Lost
Signaleers	13	3
Hawks	11	5
Bohunks	9	7
R & C	8	8
OTD	7	9
Alleycats	6	10
Researchers	5	11

Troopers 5 1

F.M. Mixed Couples League

Team	Won	Lost
Cool Toms	14	10
McSchletts	13½	10½
Mor-Rums	13	11
Team No. 8	13	11
Hot Shots	12	12
The Four H's	12	12
G. E. R. M. S.	11½	12½
The Spoilers	7	17

Redstone Scratch Trio League

Team	Won	Lost
Pickups	16	9
Strikes	15	10
Proprietors	15	10
Havolinas	14	11
Splits	14	11
Unknowns	10	15
Pencil Pushers	9	16
Rusty Needles	8	17

Army-Air Force Officers League

Team	Won	Lost
Luck Strikes	34	14
King Pins	36	16
Pin Splitters	34	14
Jupiters	26	22
OGMS	21	27
AF Juplos	20	28
Raiders	14	34
Black Jacks	11	37

School Troop Command League

Team	Won	Lost
Co. B No. 2	14	6
1st ETC	12	8
Co. A No. 2	10	10
Signal	10	10
Co. A No. 1	9	11
2nd ETC	9	11
Co. B No. 1	8	12
Hq & Hq	8	12

Redstone Arsenal Officers League

Team	Won	Lost
Bandits	18	6
Robe's	17	7
Industrialists	14	10
Alleycats	13	11
Medico No. 5	10	14

Slowburners 8 16

Spoilers 8 16

King Pins 8 16

Thurs. Morning Ladies League

Team	Won	Lost
Team No. 5	15	9
Team No. 1	13	11
Team No. 6	13	11
Team No. 3	12	12
Team No. 4	11	13
Team No. 2	8	16

Officers Mixed Doubles League

Team	Won	Lost
Hi Counts	33	12
Pin Droppers	31½	13½
Bombers	28	17
D-Yanks	26	19
Red Stones	19	26
Pin Poppers	17	28
Bowl Oeevils	13½	22½
D-Doms	12	33

Officers Wives League

Team	Won	Lost
Rock - Rollers	17	7
Rockets	15	9
Missillettes	12	12
Head Pins	12	12
Alleycats	12	12
Untouchables	11	13
Cherry Pickers	11	13
Unpredictables	6	18

PICNIC AREAS.

The closing of the Tennessee River Picnic area has been delayed because of the fine autumn weather. With an idle weekend ahead, or to keep from doing the dishes, there is no more restful and peaceful area within miles than the Tennessee River Picnic area. It is still open on Saturdays and Sundays 0900-2100 hours.

Large groups wanting to use the Tennessee River Picnic area must call for reservations, ext. 876-2943. The Normandy Farm Picnic area will stay open all year for the hardy ones.



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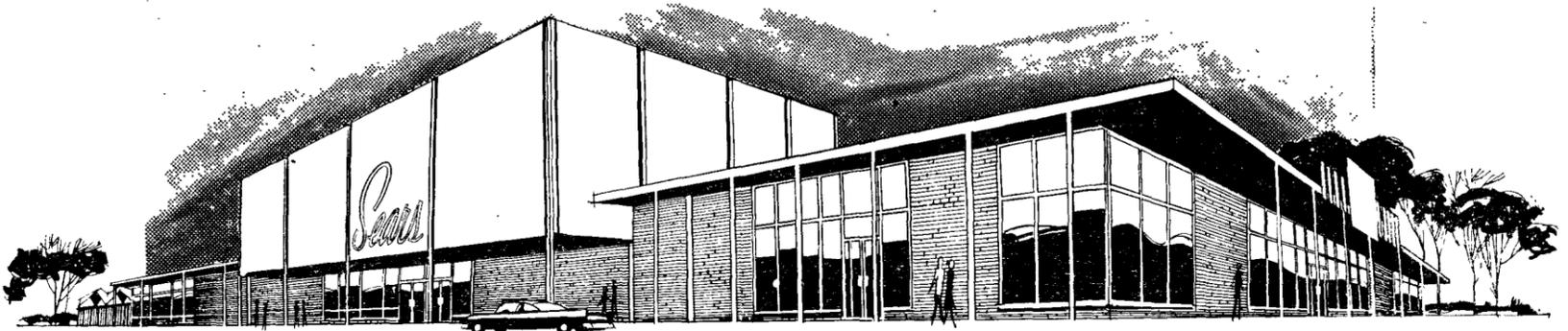
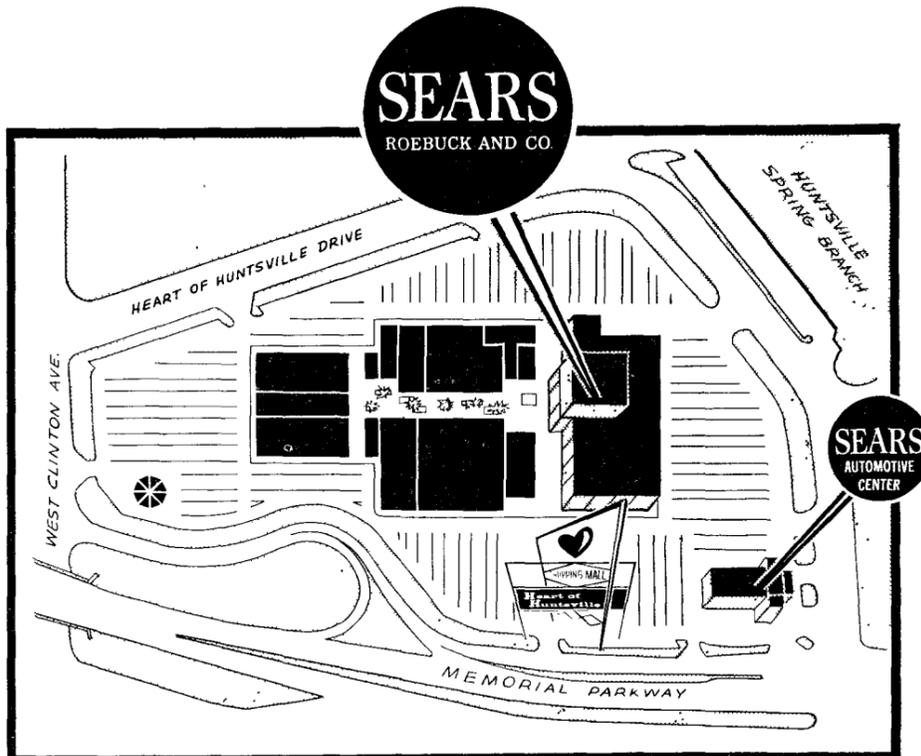
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EMPLOYER

NAME OF BANK TOWN

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The Sports Car Buffs

By Pat Patterson

I would like to start this weeks column off with an appology to the editor and many readers for not having a column ready for last weeks Rocket. As most of you know I was out of the area for ten days participating in two SCCA National Rallies, however I had intended sending my column in from St. Louis last week but the opportunity never presented itself. It so happened that I had a slight mishap enroute to that great metropolis and spent all my free time rebuilding the blown engine in my car. Luckily this did not affect my participation in the two rallies so let us continue on with an eye-witness report on the inner workings of the SCCA Nationals at St. Louis and Indianapolis.

To say that we were out of our league would be an understatement for the people who run the majority of these large scale events are either real professionals or are fast becoming one.

A quick glance at the navigators cockpit in the cars during the safety inspection quickly verifies this for some of them seemed more like the cockpit of an Electra or Constellation than that of an automobile. The majority of the top contenders at both these events had at least two Curta Computers or "Pepper Mills" as they are more commonly known by rally devotees, no less than two and generally three watches and at least one set of dual electric odometers reading to the hundredth of a mile.

This was the minimum we saw and there were cars that appeared to have at least twice this amount of navigational equipment. This in itself was nearly enough to put scare into the Huntsville crews who were here with nothing more than their Halda Speed Pilots, Stevens Circular Computer and a couple of watches.

After taking all this in upon our arrival at the headquarters for the Daniel Boone in St. Louis we were heartily welcomed by the registration and hospitality personnel, furnished with all the necessary information and introduced to a number of the people who were enjoying a cocktail party hosted by one of the local breweries. Everyone had a good time comparing equipment and techniques, past rallies and any other thing that happened to pop up during the conversations.

The next morning saw everyone at the start bright and early. Route instructions were passed out fifteen minutes prior to your departure time, WWV was beeping out the time signal and everyone was in god spirits, something that was to change somewhat as the day progressed.

The route took us north of town and progressively worked its way back south and west to a lunch stop in Cuba, Mo. around noon. There were many a sad look at this point for more than one car got lost some 30 miles prior to this where the road we were on turned sharply to the right and an-

other went straight ahead.

You were supposed to follow the road you were on as long as it was a named or numbered one till you were instructed to leave it. This, many people did not do and many many penalty points piled up here. After lunch the route took us out into the open range country on the foothills of the Ozarks where the speeds were high and the navigators had fits waiting and waiting for the next instruction to show up. Many a nerve was strained and confidence in the navigators ability shaken during this portion of the event. Instruction number 89 on the Saturday run called for a turn at 155.82 official rally miles. This caught quite a number of the contestants including this writer and my driver Bill Wheeler. We were running without the benefit of our regular speedometer and therefore did not have accumulative mileage reading. We turned too soon and by the time we found our way back on course, along with about seven other cars, we were late as late could be arriving and the final control for the day nine and one-half minutes late. Up to this time we had been right with it and never more than 40 seconds off at any control.

The second day found us running in generally the same area only for a shorter period of time. Very shrewd organizing had us running some of the same roads as the previous day only in the opposite direction. No one seemed to have very much trouble the second day and there were more smiles present at the final control than on the day before. A short run back to the headquarters, a brief rest and then the banquet and trophy presentation. The overall winners were Jim and Barbara Bickham from Upper Sandusky, Ohio with the fantastic score of 37 seconds penalty in 550 miles and twenty-eight controls. Bill Wheeler and I finished fourteenth with 935 points while the other cars on our team from here were well down towards the bottom having had trouble with the turn I mentioned earlier. Web Mayfield, however brought home some silver as a result of being the best placing Jaguar so we did not come away empty handed.

The next weekend found one car from Huntsville at the Indianapolis "500" Rally due to a very unfortunate accident involving Bill Wheeler's car as they were enroute to the event. Most everyone knows the circumstances and I am happy to say that Vick Baucom was back in circulation by the TAC meeting last week and that even though Bill Wheeler is in the hospital at Ft. Benning the report is that he will be all right after a period of convalescence.

Web Mayfield and I, our spirits dampened greatly by the accident, proceeded to press on regardless and the people at Indianapolis went out of their way to make us welcome and relieve the tension after the news had reached us. There are not words enough in the language to express our gratitude

(Continued on Page 11)



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(Continued From Page 10)
to these wonderful people.

With many of the same people present that were in St. Louis the start Saturday morning went off with a bang as we discovered the generator on the Jaguar had ceased to work. Never the less, off we went, after trying to repair the situation, on another long day of turns, pauses and many speed changes. Going south and east out of Indianapolis we wound around over the countryside over roads that are a sports car drivers dream. Twists and turns, ups and downs and some real drivers speeds. The checkpoints were well placed and everywhere except where the average ralliest would expect them.

The normal rule of no stopping in sight of a control applied but at one place the instruction called for us to pause for 15 seconds just after crossing a bridge and lo and behold when this point arrived there was a control not a hundred yards past the bridge. Much hurried figuring took place.

The afternoon found all passage controls and over 134 miles before we finally arrived at the finish control near French Lick, Indiana. The rally headquarters had moved from Indianapolis to the Sheraton Hotel in French Lick and we proceeded there parking the Jaguar in the service station across the street to put the battery on charge, we had been running all day on nothing but the battery due to the generator failure. After dinner in this plush spa hotel the results of the days run found us in 16th place overall with 238 seconds error.

Sunday found us up bright and early prepared for another day of hectic speeds and beautiful scenery, again as in St. Louis re-running

many of the roads from the Saturday section in reverse. They utilized many of the same stunts as were done here in the III Rallye DeNoir, that is having cars running in opposite directions on the same road, cars lapping each other on the same roads but different phases of the run and so on.

Some 150 miles and six hours later we arrived back at the finish control for the day, again near French Lick and proceed to the hotel to await results and presentation of awards at the banquet. There were many cars lost the second day for one reason or another and when the final results were in believe it or not Web and I had finished in the seventh overall position for which we collected a little silver. No one was more surprised than we were when the results were announced. First overall were again the Bickhams who had won the Daniel Boone the week before, this time with a total of 22 seconds error over 15 check points and nearly 600 miles. They had zeroed five check points and their worst error at any of the others was four seconds.

Everyone enjoyed themselves and I am sure that some of us will return to the National Rally field next year. I am sure that there are quite a few ralliests here that are afraid that the rallies on this scale are too big for them but they are wrong. Large or small a rally is a rally and the same factors apply to all so if you are interested join us in a few during 1962. My only word of advice to all who do is the same for any rally "Don't Get Lost."

News of local interest revolves the Rallye Royal in Florence last weekend the results of which I will have for you next week and the Tri-States Rallye from here in Huntsville coming up this next Sunday. This should be a good

one. Entry Fee is \$4.00 and registration opens at 7:30 a.m. at the Parkway City Shopping Center with the first car off at 8 a.m. Dick Hall, rallymaster, promises an interesting event and suggests that everyone bring a lunch. Running slightly over 200 miles he expects the event to finish around 5 p.m. with dinner and awards presented shortly thereafter at Georges Restaurant on Wellman Ave. Come out and help make this event a huge success. A lot of work has been put into it and it promises to be a good one.

All members of TVR-SCCA attention. The monthly meeting will be held at the Kings Inn Motel this coming Saturday night at the regular time. Be sure and make this meeting to elect officers for the coming year. This is one of the most important meetings we have during the year and everyone should make it a point to be there and exercise his or her right to vote for the officers who will

Golf Group Ready To Wind Up Play

A three-way tie for low putt in competition last Wednesday among the Golf Group of the Redstone Arsenal Officers Wives Club was shot by Mrs. Miller, Mrs. E. W. Powell and Mrs. J. B. Levaas

Mrs. F. E. Napper came in with low groww, and Mrs. Levaas with low net.

The Group meets on the Arsenal Golf Course today for the final rounds of the season. They will hand out prizes and lunch at the Squirrel Hill Officers Club at the conclusion of play.

control the organization for the coming year.

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WINNERS—respective flight champions and second place finishers are shown with their trophies and Col. Robert W. Van Wert, Director of the Field Service Operations, after the completion of the Operation's Third Annual Golf Tournament. They are (left to right) Hugh Watson, Paul Kennedy, Fred Hill, Col. Van Wert, Robert Kell and Billy McGee.

Kennedy Defeats Kell To Win Golf Tourney

Paul Kennedy defeated Robert Kell in a sudden-death play-off Saturday to capture the Third Annual Army Rocket and Guided Missile Agency Field Service Operations Golf Championship.

The sudden-death play-off was necessary after both players tied in the regulation 72-holes on the Huntsville Municipal Golf Course.

In the final round of play, Kennedy, the defending champion, came from behind and tied Kell when he fired a 77 to Kell's 80. Kennedy wound up with an aggregate score of 297 to Kell's 304.

Highlight of the final round of play was Hugh Watson's two-under par 69 in the first flight of play which was good enough to give him runner-up honors to Bill McGee who shot a 71 on Saturday for a final score of 285. Watson had 294.

The winner in the 2nd flight was Fred Hill, who fired a final round 79 for a total of 314. Run-

ner-up in that division was Robert Stultz with 315. Stultz shot an 84 on Saturday.

Low medalist honors, based on the first round of play only, went to McGee who fired a 70.

At the conclusion of the tournament Colonel Robert W. Van Wert, Director of Field Services, presented trophies to the first winners, second place finishers and the low medalist.

THRIFT SHOP SALE PLANNED NOV. 1

The Post Thrift Shop has scheduled a sale of all Thrift-Shop owned merchandise for Nov. 1 at "fantastically reduced prices" according to Mrs. H. L. Gotzian, manager.

Beginning tonight, the Thrift Shop will be open Wednesday evenings until after Christmas.

Merchandise at the Shop includes clothing, furniture, household appliances and other items.

Bombara Participates In Design Conference

Elwood L. Bombara, an employee

OPPORTUNITIES

The Training Branch, Civilian Personnel Division, Army Ordnance Missile Support Agency, announces the following local opportunities for employee development.

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 Correspondence Procedures & Office Practices—Nov. 14
 Work Simplification—Nov. 14

of the Army Rocket and Guided Missile Agency, participated in the seventh conference on Design of Experiments in Army Research, Development and Testing at Ft. Monmouth, N. J., Oct. 18.

Bombara, a member of the Reliability Staff of Research and Development Operations will discuss reliability.

The holder of a B. S. degree in mathematics and a Masters degree in statistics from Virginia Polytechnic Institute, he worked at the U. S. Naval Experiment Station at Annapolis, Md. and the Thiokol Corporation at Elkton, Md., prior to joining ARGMA.

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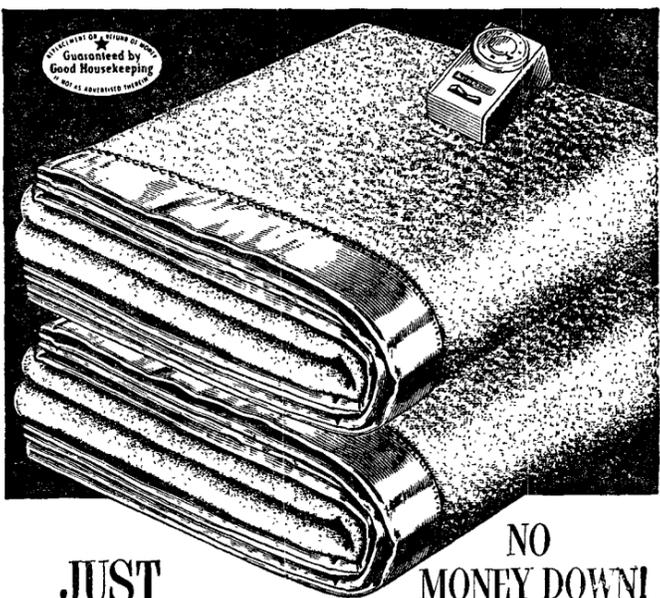
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Gen. Schomburg Demonstrates Tracking Device

WASHINGTON, D. C. — The Chief of the Army's missile program demonstrated a device Oct. 19 that may someday make it possible for Army missilemen to hit targets they cannot see.

Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command, said the infra red tracking device can "see targets that cannot be seen with the human eye, and can track with much greater precision than can be done manually."

In a speech prepared for delivery to a meeting of the Washington Post of the American Ordnance Assn., in the Willard Hotel, the general also discussed other recent Army research achievements — among them an automatic sensing device developed by the Diamond Ordnance Fuze Laboratory — that may find application in missiles.

The new tracking device, he said, utilized infra-red rays emitted by potential targets such as missiles and aircraft to continuously point itself at the target.

He said tests had indicated it to be extremely accurate, detecting and correcting for deviations within 1/125th of a degree.

Demonstrating the sensing de-

vice, Gen. Schomburg said it offered a possible means of eliminating many mechanical switching operations. Using a plastic wand, he turned lights on and off by waving it near the sensing device. The general said it had possible application in missile fuzes.

Another highlight of his presentation was a short motion picture showing the Army's Redeye air defense missile being fired publicly for the first time.

The solid fuel missile, fired from the shoulder, is under development by the Army to provide troops in forward combat areas a man portable air defense weapon. Gen. Schomburg's film showed the missile being shoulder fired for President Kennedy during a demonstration at Ft. Bragg, N. C. recently.

Pfc. Frank Is Hurt In Traffic Mishap

Pfc. Odell Frank, 24, of Sacred Heart, Minn., who is assigned to Co A, School Troop Command at the Army Ordnance Guided Missile School here, was seriously injured in an automobile accident on Oct. 18, 1961 at Sacred Heart, Minn., it was learned Tuesday at Redstone Arsenal.

First reports stated only that Pfc. Frank was on leave at the time of the accident and has undergone extensive surgery at St. Mary's Hospital, Rochester, Minn.

Two Recognized for 20 Years Federal Service

Mrs. Cornelia P. Boling and Joseph F. Rush, Research and Development Operations employees of the Army Rocket and Guided Missile Agency, were honored last week for completing 20 years Federal Service each.

They were presented Department of the Army certificates and lapel pins.

Mrs. Boling entered Civil Service in 1934 in Washington, D. C. and came to work at Redstone Arsenal in July, 1958.

A graduate of Browns High School, Madison County, Tenn., she is presently serving as a development program specialist. She lives at 1211 Pratt Ave.

Rush, Chief of the Program Coordination Office, started his Civil Service career in March, 1952, at Redstone Arsenal after completing 11 years in the Army at Aberdeen Proving Ground and in Washington.

A graduate of Virginia Polytechnic Institute, Blacksburg, Va., he and his family live at 1200 Westmoreland Avenue.

to relieve paralysis believed to be caused by severe spinal injuries. An official investigation is being made.

The soldier is a generator op-



AOMSA SENIOR EXECUTIVE Award winner Harold Mitchell (left), receives congratulations from Col. T. W. Cooke, Commander of the Army Ordnance Missile Support Agency. Mitchell is chief of the Machine Services Division in the Finance and Accounting Office.

erator at the General Maintenance Shop, here.

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FOR RENT — 4 room nicely furnished front apartment, private bath with tub and shower. Natural gas heat, private entrance, off street parking, couple only. \$75 per month, 417 East Clinton St., phone 534-5127 or 534-4551. tfc

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FOR SALE — Fine bloodline AKC registered Dachsund puppies. Both red and black and male and female. C. F. Wason, Rt. 1, Warrenton Shores, Guntersville, Phone 582-4931. 11 1 c

Home Buyers Tell Us They SAVE \$3000
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100% GI Loans
On Fin: 4 Bedroom And Den Air Conditioned Homes. Small FHA Down Payments.

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To 6200 — Madison Pike (Bob Wallace Ext.) (Just Outside Gate 9) And See For Yourself Or Phone 539-8481

FOR SALE BY OWNER — 3 bedroom, den, brick, 1½ baths, attached garage, well landscaped, near school, quick possession. 4404 Kenwood Drive, N. W. phone 539-8786. 1tc

HAND MADE QUILTS FOR SALE — Reasonable, phone 536-0945 if interested. 1tp

MOUNTAIN BROOK — Choice corner wooded lot, 140'x140', city utilities, by owner, Phone 539-8786. 1tc

"FREE — My equity of \$900 in 1961 Renault Dauphine. Assume monthly payments of \$54.82. balance of \$1370. Phone 534-4894 after 5:00 p.m." 1tp

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- ENDLOADER
- ROAD PATROL
- BACK HOE

REASONABLE RATES!
PHONE 534-0146

FOR RENT — 6 room brick home, garage, attic, school bus connections, located at 2210 Dogwood Lane, Highlands Subdivision available on or about November 10th, phone 539-7874. tfc

FOR RENT — Six room house. Hot and cold water, bath. Large basement, 1 acre land, outbuildings, one mile southwest of Somerville. Phone EL 3-4218. tfc

NEW FINANCE RATES, 5% in interest on new automobiles, Government Employees Finance Co., Ft. Worth, Texas. Local agent, V. F. Carter, phone 539-2356, 2905 Bayless Drive, in Huntsville, Ala. tfc

WANTED TO BUY clean used cars. "We can use yours." Call us. Robinson Auto Sales. 810 Madison St. Phone 539-8551. tfc

ROOMS FOR MEN — Nice and clean, close in, near Arsenal, phone 539-5205. tfc

FOR RENT — New Four Room House on Lake. Furnished, electric heat, air conditioned, dock and pier facilities. Apply Nolan Motel, Guntersville. Phone 582-3178. 11-8c

GREAT BOOKS OF THE WESTERN WORLD
Chicago Company needs manager and salesmen for both full and part-time—Huntsville and Northern Alabama area. Dignified selling — No canvassing — plenty of qualified leads. Write giving qualifications to Great Books, Cahaba Road, B'ham 9, Ala. phone TRemont 1-5926. 1tc

FOR SALE — Officers blue uniform, brand new, \$50.00, blouse 41-R, trousers 33, cap 7-1/8. Phone 534-0900. 1tc

NITA AND DAVE'S beauty school announces the forming of night classes from 4:30 to 10 p.m. Register now—also student appointments at night 'til 10. For more information call Nita and Dave at 536-8841. 1tc

(Continued on Page 15)

Hunting Clothes

- Hip Boots
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- Insulated Underwear
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ARMY - NAVY SURPLUS CO.
112 S. SIDE SQUARE
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BRICK HOMES
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GLEN PARK APARTMENTS NOW OPEN

- Immediate Occupancy ●
- Model Apartment Open From 2 p.m. 'til 7 p.m. Daily!

APPLICATIONS NOW BEING CONSIDERED

Luxurious Living at Moderate Cost
Indoor outdoor living, soundproof walls and floors, beautiful kitchens, with custom built cabinets, living room drapes by Martin Interiors, choice of beautiful vinyl tile or hardwood floors, complete air conditioning, pre-wired for telephones—TV outlet available, spacious closets, complete laundry facilities (planned) ample parking for residents and guests, play area for children.

Glen Park Apartments Are Conveniently Located Near schools, shopping areas and churches. Only minutes from Redstone Arsenal and downtown Huntsville. But words can't begin to describe the full charm of these apartments, you must see them for yourself . . . right away!

Go North on Memorial Parkway to first street past Albert Pick Motel (Mastin Lake Road), go 500 yards—turn left—Glen Park Apartments at end of street.

DIRECTIONS — Unfurnished
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2 Beautiful Lots — Selling at a Bargain!
1-1 Acre Beautifully Wooded Lot, \$900
1 Lot, Approximately 3 Acres, \$600
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3 Bedroom Bricks, 1½ Ceramic Baths, G.I. \$50 Down, \$100 on Closing, \$74.80 Per Mo. (Plus Taxes and Insurance).
Only \$13,550
50 HOMES UNDER CONSTRUCTION

Pearsall Gardens
3 Bedroom Bricks, \$15,000 to \$16,900. Under construction. Buy now—Select all colors including outside brick.
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— See Us Before You Buy —
2006 OAKWOOD AVE, NE PHONE 536-6696

Wantads

(Continued From Page 14)

FOR RENT — Modern, 2 bedroom mobile home. Reasonable, located on Lot 44, Whiteway Trailer Ranch. For appointment Phone 772-6970. ttc

FOR RENT — Nice, clean 3 bedroom house, convenient to arsenal. Hardwood floors, utility room, lots of closets, big yard. Call 536-0711 or night 534-8615. 1tp

WANTED— Ride to Thiokol Bldg. 7650, either paying or car pool, regular working hours. Ridgecrest Road vicinity. Phone 536-4597. 1tc

FOR RENT — 2-4 room duplex furnished apartments, 1 bedroom, gas heat, near Five Points East Shopping Center. Available now. For appointment call 534-5774 or see Bruce Patton at Bruce's Jewelry, 112 E. Clinton St. 1tc

FOR SALE— Dachshund puppies, 2 females, \$25.00 each. Phone 534-2383. 1tc

FOR SALE — Complete German bedroom suite: Joint twin beds (innerspring mattresses), wall cabinet (mirror doors), night tables, stool, clothes hamper, \$250.00. Dial 536-4509 after 5 p.m. 1tp

BY OWNER — Brick home, two bedrooms and den, two tile baths, large closets, separate dining room with sliding glass door to patio overlooking golf course and city. Built-in cooking units, dishwasher and air conditioner. City sewer convenience, TV cable, pre-wired for telephone and Hi-Fi extensions. See to appreciate at 1514 Club View Dr., N.W., after 5 p.m. 1tp

OCT. 30 — Joppa Nursery opening sale yard north of Bypass in Arab. See us for your best buy in shrubs, fruit, nut trees, etc. Open 7 to 5 o'clock. 11-1tp

MUSIC INSTRUCTION — Learn some fine points on playing the organ. Lessons given at either my home (N.E.) or downtown studio. Telephone Anne Raitch at 539-6142 or 536-2443. 1tp

FOR RENT — Nice 3 room and bath furnished apartment, electric heat, air conditioned, wool carpets, Hotpoint kitchen, off street parking, water furnished, \$80 per mo. Phone 536-9171 or 534-9493. 1tc

FOR RENT — Furnished 3 bedroom with washer, air conditioned, colored appliances in kitchen and bath, 10'x50' house trailer, lights, water & parking furnished, private mail boxes, wide paved streets, convenient to Butler High and just across from grammar school. \$120 per month. Phone 534-5528. 1tc

BEAT CITY PRICES — For rent, furnished 1 BR house trailer, TV, lights, water and heat furnished, located on private lot, 3 miles east of Gates 2 and 3, \$75.00 per mo. Phone 534-5528. 1tc

FOR RENT — 3 room brick apartment, private bath, unfurnished gas heat, 2912 6th ave., SW, phone 534-1120. 1tc

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Lane Plaza Building
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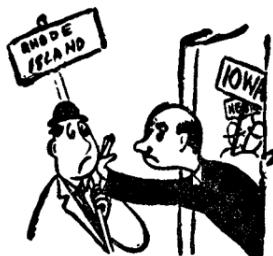


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Huntsville, Alabama

Watch For The Answer in
Next Week's Redstone Rocket

FOR SALE — Volkswagen '54, very good mechanical condition, new clutch, new sunroof, exceptionally clean car, \$650. Call 534-0186. 1tp

EQUITY SALE — 2506 Alabama Ave., S.W. Equity sale of a very clean, 3 bedroom home, no red tape, payments \$84.00 per mo. Chase Realty Co., phone 536-3286. 1tc

REDSTONE SUBDIVISION — 3 minutes from Arsenal Gate 1, 3 bedroom brick veneer. Payment, taxes and insurance total \$85.32 per mo. \$1000 down and Assume GI loan. Phone 539-0252. 1tp

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3 & 4 bedroom, 2 ceramic tile baths, paneled den, built-in oven & surface unit, dishwashers, attached garage, redwood fenced yards, full brick veneer with a floor plan to suit your particular need. Priced from \$18,500 to \$24,000.

Minimum down FHA,
100% GI Financing Up
to \$20,000.00

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AVONDALE ACRES

Price Range

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100% VA LOANS OR
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ONLY \$200 CLOSING COST

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CONTEST

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UPHOLSTERY \$1.00 Yd.

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Solids - Plaids — \$1.49 Value

DARK FALL COTTONS 69c & 98c

If a Saver You Be — Shop With C & C

WE GIVE S&H GREEN STAMPS

Bloodmobile Receives 734 Pints in October

Seven hundred and thirty-four pints of blood were collected from donors at Redstone Arsenal during the first visit of the Red Cross Bloodmobile to the new Bloodmobile location in Bldg. 7110, the old Post Hospital, Oct. 19.

The bloodmobile schedule has also been accelerated to a monthly rather than a bi-monthly visit. The decision was reached to enable donors and Bloodmobile volunteers to handle smaller crowds during the visit and to expedite the processing of donors.

Mrs. Glen Keith is chairman for Red Cross Bloodmobile visits at the Arsenal. Mrs. William Kiser is Chairman of Volunteers.

Coordination of the visits is handled by the Troop Commander, Maj. George Grace.

The Canteen unit is from the Huntsville Chapter and is directed by Mrs. Clyde Smith.

Safe Drivers in ARGMA Receive Safety Awards

Nine employees of the Army Rocket and Guided Missile Agency were honored this week for their safe driving by the National Safety Council.

Receiving two year pins and certificates were: James A. Wilbanks, Wilburn J. Stone, Carl E. Pogue of Industrial Operations and Robert Kirkland, Richard Smith and Edward Cardin of Operating Services Office.

Recipients of the one year awards were William Towry, John Parvin and Lawrence Stewart all of Operating Services Office.

MORRIS PROMOTED IN TEST BRANCH

Morris E. Ray has been promoted to chief of the Test Equipment and Instrumentation Branch of the Army Rocket and Guided Missile Agency's Industrial Operations.

Ray had previously served two years as a missile development and control engineer in ARGMA's Nike Zeus anti-missile missile system development staff.

Brig. Gen. John G. Zierdt, Agency Commander, said Ray's selection was made under the agency's merit promotion program.

A veteran of two years naval service, Ray joined the Army missile team at Redstone in November, 1959.

The son of Mr. and Mrs. Clyde J. Ray of Wetumpka, he is married and has two children. The family lives at 4300 Kenwood Dr., N. W.

Col. Scott Receives Assignment on Two Missile Systems

Lt. Col. Wesley W. Scott has been named Weapons Systems Project Officer for the Sergeant and Corporal missiles at the Army Ballistic Missile Agency.

Former Deputy Director of ABMA's Training Office, Lt. Col. Scott succeeds Lt. Col. W. J. Fries at the Sergeant-Corporal post.

The liquid fuel Corporal was one of the first Army missiles to be developed for battlefield use. Its proposed successor, the Sergeant, recently completed the research and development firing tests.

Lt. Col. Scott came to Redstone in 1959. He entered the Army in Nov., 1942 and was commissioned in July, 1943.

LT. HILL NAMED ARGMA ADJUTANT

Lt. William W. Hill has been appointed as the Adjutant of the Army Rocket and Guided Missile Agency.

Hill replaces Capt. Milton C. Tieman who has been transferred to the U. S. Army Europe.

Holder of a B. S. degree in aeronautical engineering from Mississippi State University, Hill comes to his new job after a brief tour as a projects officer in the Mauler Branch of Research and Development Operations, ARGMA.

He began active duty in May, 1960, graduated from the Ordnance Officers Basic Course at Aberdeen, and was transferred to Redstone Arsenal where he attended the Ordnance Guided Missile School.

He was assigned to ARGMA in March.

Hill, who worked for the Boeing Airplane Company from June, 1959, to the time he was called to active duty, is the son of Mr. and Mrs. N. E. Hill of 627 Jefferson Street, Tupelo, Miss.



FIRE CONTEST WINNERS—Winners in the recently conducted ARGMA Fire Contest receive their awards from Colonel H. H. Wishart, Agency Deputy Commander. The winners came closest to guessing what time an old shack, situated in a field near Building 5250, was going to burn. Artis W. McWhorter of Industrial Operations receiving a fire extinguisher from Col. Wishart, guesses 1:55 P.M. and the building burned at 1:56. Other winners were Edwin C. Gardner, (left) Field Service Operations and Mrs. Olivia McLemore, Research and Development Operations. The contest with more than 700 employees participating was part of the Agency's Fire Prevention Week Program.

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