

ON CAMERA — Dr. William C. McCorkle, (rt.) Director of the Advanced Systems Laboratory of the Army Missile Command's Research and Development Directorate, explains flight and guidance characteristics of Army missiles and rockets to Gary Smaby as television cameras of OGMS record the action. The video-taped segment will be shown when Gary appears on ABC Television's Science All-Stars program late this fall. The program segment was recorded on location at the Francis J. McMorrow Missile Laboratories at Redstone Arsenal. (Story on Page 15).

**Arsenal-Wide
Spot News
Dial 112**

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XIII; NO. 17

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 2, 1964

UGF Key Representatives Make Preliminary Plans

Organizational meetings today and tomorrow in Building 4488 will complete the preliminary planning stages for the 1964 United Givers Fund drive on the Arsenal.

The annual solicitation in support of the United Givers Fund in Madison County and the neighboring counties and communities, will be conducted over a seven-week period opening Sept. 22.

In calling the meetings, M. C. Taylor, Executive Chairman for the 1964 drive on the Arsenal, said that their purpose was to present the operating plan and to explain the duties to the persons who will administer the drive in the various operating unit.

Members of the Fund Raising Program Coordinating Committee are attending the meeting this morning while the chairmen and their alternates from each organization will be in attendance at the Thursday session.

Both meetings will be held in the Directorate of Procurement and Production conference room (Room A-206), starting at 9 a.m. Assisting Taylor with the pre-

sentations will be the members of the Executive Committee that was named by Maj. Gen. John Zierdt to administer the campaign. S. L. Moyers is the Executive Secretary, Howard Andrews is Assistant Secretary and Al LaGrone is Financial Chairman.

Taylor said that the operating plan for the conduct of the drive will be presented for approval at today's session. The approved plans will be presented to the chairmen and their alternates.

Also on the agenda for Thursday will be a presentation of the (See PRELIMINARY on Page 3)

**Labor Day
Is A
Holiday**

Potential Shelter Chiefs Study Civil Defense Plans

Civil Defense representatives from the State of Alabama and Madison County gave 280 potential fallout shelter managers instructions in shelter management this week at the Army Missile Command.

Classes were held in the Rocket Auditorium at Redstone Arsenal after Col. Thomas W. Cooke, Com-

(Photo on Page 9)

mander of the Army Missile Support Command opened the meeting.

The Colonel pointed out that although the people in this country have never had to face the situation, they need to be prepared to save the maximum number of people should a big bomb drop on our country.

Joe B. Hedrick, Fiscal and Resources Officer of the Civil Defense Department, State of Alabama, talked about the role of the shelter commander, the shelter manager's staff and the responsibilities of the individuals as well

as the designated officials. He was introduced by Harris Mitchell, director of the Huntsville-Madison County Civil Defense office in Huntsville.

State CD Radiological officer, Robert W. Glass discussed radiological defense and decontamination. Others on the program were Cecil Hyde, Northern Area Coordinator for the State and T. J. Wiseman, deputy director for Huntsville-Madison County.

Among the subjects covered were food, water and sleeping facilities and medical health and sanitation.

Classes were divided into two sections of four hours each.

Hedrick cautioned the potential shelter managers that the only way to have a successful program is through participation and preparing in advance so that crises can be met with a minimum of confusion.

The program was sponsored by the Assistant for Operations and Security, Missile Support Command.

Patton Road Is Widened

Widening of Patton Road north of Redstone Arsenal Gate 1 got underway this week and Hansen Road inside the Arsenal is opened to two-way traffic to relieve some of the congestion.

Hansen Road cuts off Patton Road about a mile inside the Arsenal. It connects with Triana Boulevard at Arsenal Gate 5.

The Redstone Arsenal Provost Marshal said that during the construction, traffic on Patton Road will be limited to two lanes—and may be further congested by heavy equipment.

Motorists may use Hansen Road on a two way basis from 6 a.m. to 6 p.m. Monday through Saturday starting today. However heavy trucks will be barred from Hansen because of a limited weight bridge.

The Provost Marshal also said that when Drake Avenue is widened between Triana Boulevard and Patton Road by the city motorists may want to use the Gate 5-Hansen Road entrance to the Arsenal to bypass the construction, and are encouraged to do so.

UA CAMPAIGN GAINS NOTED

Army and NASA personnel at Redstone Arsenal are "responding enthusiastically" to the University of Alabama's Huntsville Campus campaign according to Philip M. Mason, director of the University Center here.

Appeals for support from persons employed on the Arsenal were distributed with civilian paychecks last Thursday, Aug. 27, and will also be handed to military and civilian personnel paid on Aug. 31 and on Sept. 3, Mason said.

More than 100 contributions and pledges from Army and Marshall Space Flight Center people had been received in the first two mail deliveries on Friday, he said, and the first mail on Monday was "unusually bulky."

The University's drive for \$750,000 passed the \$500,000 mark last week, Mason said.

Donations of \$3,500 by Aero-Space Laboratories and its 100

local employees and of \$12,500 by the 37 stockholders of Huntsville Industrial Associates, owners of the Huntsville Industrial Center, pushed the fund past the half- (See \$1 MILLION on Page 3)

AFGE ENDORSES PROGRAM

Further endorsement for the campaign to raise funds for the University of Alabama Huntsville Campus expansion program came today from the membership of Lodge No. 1858, American Federation of Government Employees.

Dennis Garrison, president of the organization which numbers thousands of members at Redstone Arsenal said:

"Our membership realizes the vital importance of the University program and we are happy to join General Zierdt in supporting the fund campaign."



FOUR RETIRE—Four men with a total of 90 years of active military service retired at the end of August. Friday afternoon they were honored at a Retreat Parade and Review. Maj. Gen. John G. Zierdt (front center), Commanding General of the Army Missile Command was Reviewing Officer. The retirees (left to right) are: Lt. Col. John R. F. Bond, from the Nike X Project Office; M/Sgt. John E. Lovern, Headquarters and Headquarters, Support Command; M/Sgt. James N. Johnson, Co. A, STC, Ordnance Guided Missile School; and Sgt. Monte E. Perry, Headquarters and Headquarters, AMSC. Another Co. A. man, First Sgt. Alvin W. Kilkes also retired in August.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

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Rocket Ruminations

Genius does what it must, and talent does what it can.
—Edward Robert Bulwer-Lytton

Let's Have A Safe Labor Day

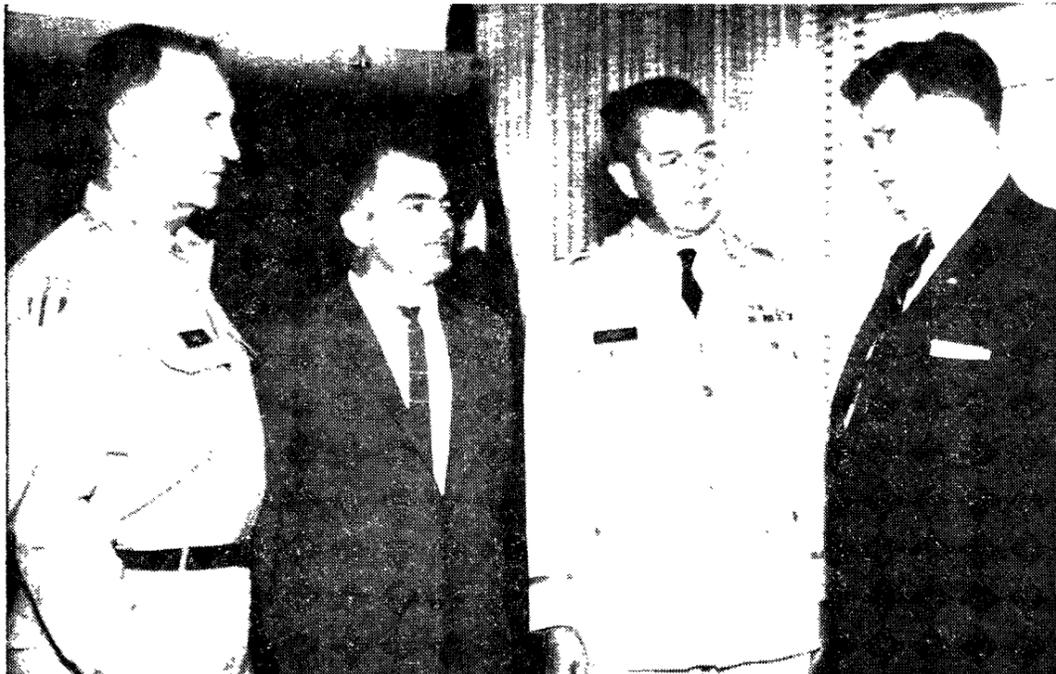
Labor Day is a youthful institution, as national holidays go. But its place in the national life is secure and honored. It provides a formal and well-earned salute to all working people, within and without the unions. And this is a tribute that goes beyond the changing problems and controversies that have to do with labor legislation and labor's rights and privileges.

Too, Labor Day has another special characteristic. It gives most of us a three-day holiday in this age of the five-day work week. And millions of people take advantage of it to journey in search of new sights and scenes, or to go again to favored vacation spots. Labor Day has become a day of fun, relaxation and sports.

Unhappily, however, that bright prospect is not realized for an appallingly large number of us. They are the victims of Labor Day's toll of deaths and injuries. The mishandled automobile becomes a killer of almost warlike dimension. The toll of drownings steadily mounts and ignorance or disregard of the rules and precautions that are essential to safe boating are big factors in this.

The tragic part of it all is that the vast majority of these and other accidents are totally unnecessary. They don't just happen—careless, thoughtless and uninformed human beings make them happen. If all of us this coming Labor Day period would use just rudimentary caution wherever we go and what we do, the expected accident toll would be reduced spectacularly. How about it?

—Reprint from: E. Hofer & Sons EC



UNION PRESIDENT VISITS—John Griner, National President of the American Federation of Government Employees paid a courtesy call on Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, during his recent visit to Redstone Arsenal and Huntsville. Left to right are Col. Thomas W. Cooke, Commander of the Army Missile Support Command; Dennis Garrison, AFGE National Vice President for the Fifth District which includes the Southeastern United States and the Canal Zone; Gen. Zierdt and Griner.

Jewish New Year To Be Observed

Rosh Hashana, the Jewish New Year, will be observed from sunset Sunday, Sept. 6 through sunset Tuesday.

Temple B'Nai Sholom (Reform) will hold its High Holy Day Worship services at the Post Chapel at 8 p.m. Sunday and at 10 a.m. Monday. Rabbi Sherman Stein, Jewish Auxiliary Chaplain in this area, will conduct the service. Traditional worship services will

A SPECIAL MESSAGE TO PARENTS: A thrifty child makes a thrifty man the old proverb says. Start your boys and girls on the road to good fortune—encourage them to buy U. S. Savings Stamps at the post office or at school.

be held by the Etz Chayim Congregation (Conservative) at the Seventh Day Adventist Church at 5:30 p.m. Sept. 6; at 8:30 a.m. and 5:30 p.m. Sept. 7; and at 8:30 a.m. and 5:30 p.m. Sept. 8.

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SUMMER STUDENT COMMENDED—Margaret L. Holmes, a chemistry major at the University of Alabama, last week received a Commendation for her summer work with the Army Missile Command at Redstone Arsenal. Miss Holmes, who will be a junior this year, spent the summer doing reliability prediction work on the Nike Hercules air defense missile system simulator. The simulator is used to train Nike Hercules operating crews. She is the daughter of Col. and Mrs. Charles W. Holmes of Huntsville. Col. Holmes was with the Ordnance Guided Missile School at Redstone prior to his retirement. Awarding the Commendation to Miss Holmes who has worked on the Arsenal for three summers is Col. Rawlins Colquitt, the Nike Hercules Project Manager.

Coming Events

ACS: Prof. Oskar Glemser, Anorganisch-Chemisches, Institut der Universität, Göttingen, Germany, "New Results About Fluorine Compounds" September 8, Candlelight Inn, N. Memorial Parkway; Social Hour 6:30; Dinner 7:00; Meeting 8:00. For information call Mr. Huskins, 876-2188 or 536-3480.

ASME: Mr. A. C. Willhelm, Southern Research Institute, Birmingham, Alabama, "Magnetic Pulse Forming," September 15. Pin Palace; Social Hour 6:30, Dinner 7:00, Meeting 8:00. For information call Mr. Bomberger, 532-1418.

PRELIMINARY

(Continued From Page 1)

accounting procedures by LaGrone and the showing of a special slide presentation developed by the Huntsville-Madison County UGF.

The chairman added that the fair share schedule for civilian and military personnel will be outlined at each of the meetings. A fair share has been established as 80 per cent of one day's pay. The rates were computed prior to the

Tomorrow-Back Pay

Finance and Accounting Office issued the following statement:

Civilian Class Act employees of Headquarters, Army Missile Command, Army Missile Support Command and the Ordnance Guided Missile School will receive retroactive pay by separate checks Sept. 3 for two pay periods beginning July 12 through Aug. 8. Regular payroll checks tomorrow will reflect the pay increase.

Civilian Class Act Employees of the directorates and project offices will receive retroactive pay by separate check Sept. 10 for three pay periods beginning July 5 through Aug. 15. Regular checks distributed Sept. 10 for the pay period Aug. 16-29 will reflect the pay increase. Wage Board employees are not affected.

recent raises for both the classified workers and the military.

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\$1 MILLION

(Continued From Page 1)

million total on Aug. 28th, Mason said.

The local contributions to date, added to \$500,000 previously allocated by the University's main campus at Tuscaloosa, mean that \$1,000,000 is now available for construction of a \$1,250,000 classroom, laboratory and library facility and equipment at the Huntsville Campus, Mason said.

The Center director warned, however, that "most of the large advance gifts from cooperations and individuals have now been received. What is needed now is a volume of smaller donations from thousands of persons who appreciate the value of a four-year undergraduate degree facility and enlarged graduate programs to the entire Tennessee Valley."

Mason said a new slogan will be stressed in University fund literature during the final phase of the campaign.

"If you cannot give thousands, be among the thousands who give," is the new motif.

Preliminary registration figures for the fall quarter of 1964 indicate that enrollment at the Huntsville Campus will total about 3,000 including some 125 members of the first freshman class beginning study in courses that will enable them to earn their undergraduate degrees in the College of Arts and Sciences here in Huntsville, he said.

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S And E Men Work In Their Chosen Profession

There have been myriads of jokes made about how the Army assigns recruits to their jobs; chemists become cooks, engineers are turned into corpsmen and truck drivers get office duty.

It doesn't always happen that way. Take the case of Pvt. Joseph Pavlitschko.

A physicist by training (Boston College), Pvt. Pavlitschko is one of the 30 or so Scientific and Engineering enlisted personnel employed by the Missile Command. They're commonly referred to as "S and E's."

Pvt. Pavlitschko works in the Physical Science Laboratory of the Directorate of Research and Development. Most S and E's work in the Directorates of R&D and Procurement and Production because of the scientific jobs available there.

His specialty is the Control Dynamics Branch. This involves study of the dynamic characteristics of missile system control systems.

Control systems are the brain of a missile. Stimulated into action by electronic signals or pressure of one type or another they open and close valves, move fins, even detonate the missile's warhead.

Pvt. Pavlitschko's branch "dry runs" these systems on the ground using a computer to simulate actual missile flight.

He entered the Army in April of this year and after basic training at Fort Dix, N.J., he was assigned directly to Redstone Arsenal. A native of Hackensack, N.J., it was the first time the 23-year-old physicist had been south of the Mason Dixon Line.

So well does he like missile work at Redstone that he says he is now thinking of staying on here and working on his masters degree at the University of Alabama.

The Army also provided him with another new experience. Through school he was bent toward theoretical physics with a strong inclination toward the mathematical aspects of the field. However, in the Physical Sciences Laboratory he gets to handle equipment, take it apart and connect it to a computer to make it work in the same way scientists have made parts of the human body work by taking them outside the body and placing them on laboratory apparatus.

He says he enjoys "working with his hands."

He has also found working for the Missile Command far different from basic training. The barracks atmosphere is "academic," says Pvt. Pavlitschko. For roommates he has another physicist, two mechanical engineers, an electrical engineer and a civil engineer.

The slender, dark-haired soldier-scholar says his civilian colleagues in the laboratory have been extremely helpful in teaching him the techniques and equipment used in missile research. Presently he is familiarizing himself with a big, new analog computer. "Back in college most of our computers were digital," he observes.

Pavlitschko attended Boston College under a four-year academic scholarship and took, along with his technical subjects, four years of philosophy—even that helps in building better missiles.



PVT. JOSEPH PAVLITSCHKO

Civil Service, Five Schools Hold Seminar

Representatives from the U. S. Civil Service Commission and five Southern colleges are taking part in a executive seminar for scientists and engineers which opened at Redstone Arsenal Monday.

The meeting will last through tomorrow. It is sponsored by the Atlanta Region of the Civil Service Commission.

Horace Lowers, Chief Engineer for the Army Missile Command at Redstone, was the opening speaker.

Twenty management people in the technical and scientific fields at the Missile Command are attending.

The purpose of the meeting is to present new ideas bearing on the management of scientific groups in the Federal Service.

Among the speakers are: Joseph R. Martin, Civil Service Commission; Dr. Harvey D. Tschirgi, Florida State University; Dr. Ralph N. Traxler, Jr., Emory University; Donald A. Boyd, Memphis State University; George E. Maddox, Georgia Tech; Dr. G. Hugh Russel, Georgia State College; Dr. Sherman Dallas, Georgia Tech; and Dr. Noah Langdale, Jr., Georgia State College.

Aug. 24, 1956—An Army H21 helicopter completed the first transcontinental helicopter flight nonstop from San Diego, California, to Washington, D. C., in 37 hours.

Commandant Rates Star

The Department of the Army has recognized the grade of Brigadier General as a requirement for the position of Commandant of the Ordnance Guided Missile School.

Notification of the recognition of the higher grade was received at the school last week in a letter from headquarters of the Third U. S. Army at Atlanta.

The letter stated, however, that the limited number of general officers authorized to the Army "precludes support of the position of Commandant with a general officer during Fiscal Year 1965," which ends on 30 June 1965.

Appropriate changes in the school's Table of Distribution are being made.

The Commandant has been a Colonel since the school was activated in 1952. Recently, the school

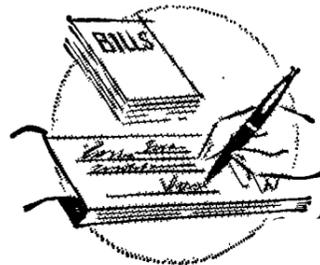
was authorized four additional Colonel spaces, but only two are currently filled.

Girl Scout Registration Is Thursday And Friday

Girl Scout and Brownie troop leaders will be at the Post Exchange and the Commissary Thursday and Friday to sign members of the various troops.

At the time the girls sign for membership, parents are asked to fill out transportation and consent slips for their daughters.

Mrs. Walter B. Reinhard said that she is also in need of more adult leaders to help in the Girl Scout program. Members of the post troops are dependents of the military personnel stationed here.



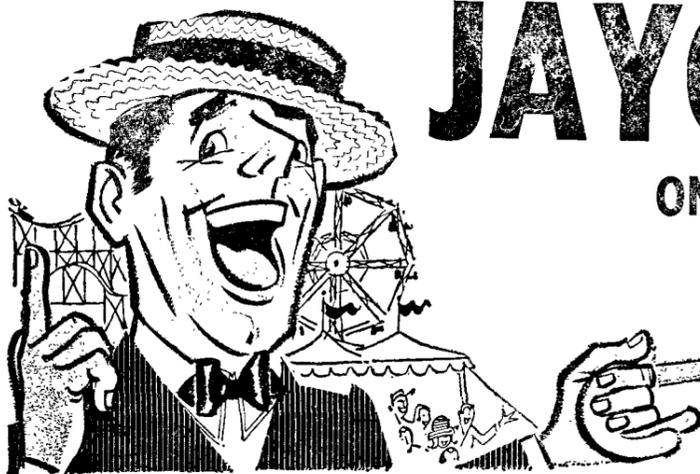
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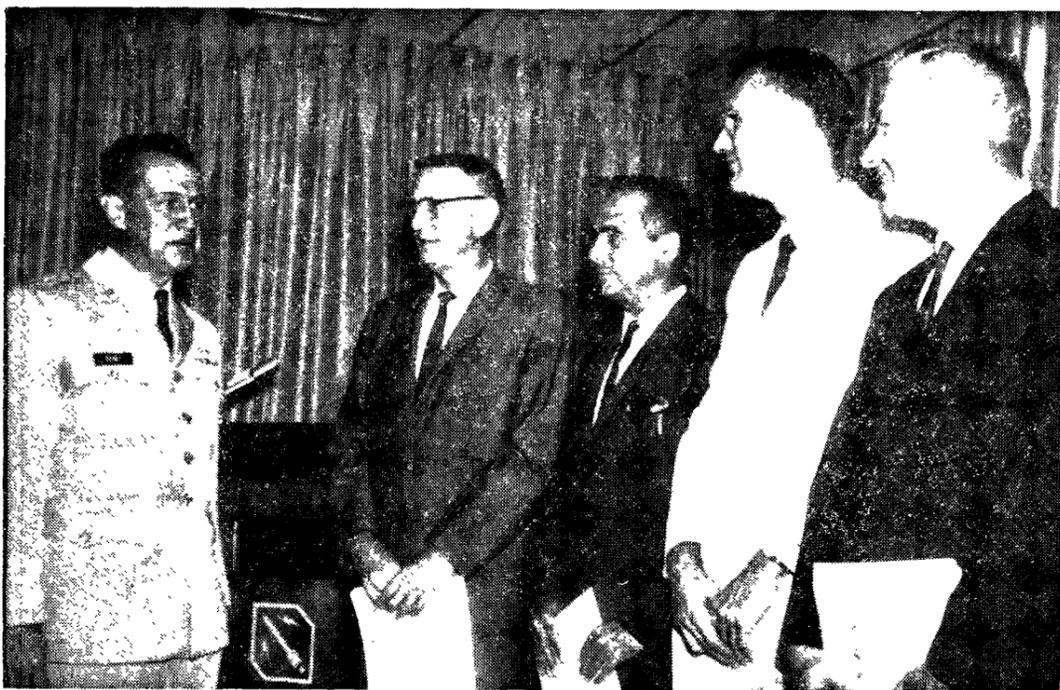
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RECEIVE "SUPER GRADES"—GS-16 "Super Grades" were approved for five Army Missile Command employees last week by the Civil Service Commission. Four members of the Missile Command's Directorate of Research and Development who were promoted pictured here are: (left to right) Charles W. Hussey, Deputy Chief of the Future Missile Systems Division; William C. Watson, Director of the Ground Support Equipment Laboratory; Niles C. White, Chief of the Solid Propellant Chemistry Branch; and William B. McKnight, Chief of the Applied Physics Branch. Not pictured is Carl A. Pinyerd, Jr., Deputy Project Manager of the Pershing Missile System. Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, awarded the promotions.

Job Excellence Important General Tells Employees

"Careless work is one of our biggest problems today," Maj. Gen. John G. Zierdt said this as he discussed job excellence before a group of summer employees of the Army and the MSFC last Friday.

The Missile Command Commanding General was closing a joint series of lectures designed to re-

late engineering and scientific functions as seen on the job to those taught in the classroom.

Approximately 300 college graduate and undergraduate students and faculty members of both high school and college participated in the program.

Gen. Zierdt said: "Both the Army and Marshall

are extremely interested in continuing education. We know it to be the only way we can keep ahead in this age of rapidly advancing technology.

Referring to careless work he said that it was such a problem that the Department of Defense is currently placing great emphasis on a "Zero Defects" program.

"The aim of the program," Gen. Zierdt said, "is to improve quality consciousness throughout the defense establishment.

"You might say we are seeking old-fashioned individual pride in workmanship," he said.

"It's easy for a person who is a small part of a big operation to feel that his contribution won't show, but is just isn't true. It does show and frequently at the wrong time.

"Where the defense of the nation is at stake we can't afford sloppy workmanship. One bad weld can cost us a missile.

"And strangely enough, we have found that when we improve the quality of workmanship we reduce the cost," he added.

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Nuclear Bursts Created Near Original Site

WHITE SANDS MISSILE RANGE, N. M.—Less than 80 miles from the site of the world's first atomic explosion, the U. S. Army this week began producing nuclear bursts — laboratory size—with almost as much ease as turning on a stove.

This advancement in the state of the art, originated by Oppenheimer and Teller, was marked by the opening of the Nuclear Effects Laboratory (NEL) at the birthplace of U. S. missile testing.

Only military and civilian leaders in the scientific world attended the informal activation of the facility Thursday, Aug. 27. The group, received a specialized briefing and tour of the Nuclear Effects Laboratory.

Much has been learned about the results of atomic weapons delivered on military targets. The Nuclear Effects Laboratory will serve to increase the knowledge of atomic effects on weapon systems of the United States. The new facility at White Sands will allow scientists and engineers to study, under controlled, safe conditions, the behavior of missile systems in a nuclear environment.

The laboratory is located southeast of the White Sands Missile Range central facilities and contains a Linear Electron Accelerator, a Pulsed Neutron Generator, and working and administrative spaces. Another building, about a mile from the main structure, houses the Fast Burst Reactor facility, its control and support activities. By locating a linear accelerator producing gamma rays, a

neutron generator and a fast burst reactor in the same area, all or most of the aspects of nuclear effects may be studied conveniently.

The NEL will serve all Department of Defense agencies and contractors requiring testing in a nuclear environment. The laboratory will operate under the direction of Glenn E. Elder, long associated with the Electro-Mechanical Laboratories of WSMR, and will be staffed with military and civilian specialists in nuclear tests and analysis, technical operations, facility operations and health physics. Some 39 highly trained and experienced personnel are currently assigned to the NEL activity, several of whom have worked in the reactor field.

Design and construction of the lab incorporates the very latest concepts in safety, measurement and instrumentation, communications and material handling. Provisions are made for the experimenters to bring 'over the road' vans directly adjacent to the generator and reactor areas for calibration and testing.

Closed circuit television is used to allow a technician to watch a critical or hazardous operation from outside the test cell in complete safety. A system of interlocks with doors and light signals prevents entry into test cells during periods when radiation is present.

Gamma rays, close relatives of X-rays, are one of the common products of nuclear explosions. For study of the effects of these rays, the NEL uses a Gamma



SAFETY CONSOLE—Sp6 Vaughn Ayer, health physicist with Nuclear Effects Laboratory at White Sands Missile Range, N. M., monitors the safety console in the control room of the Fast Burst Reactor facility. The control and safety panels are interlocked and both must be manned for operation of the reactor which is located in a building some 3,000 feet from the main laboratory that opened recently at the national missile range. The soldier-electrician is the son of Mr. and Mrs. Anthony Ayer, Downing, Mo.

Linear Accelerator (LINAC). To produce the rays, timed pulses of electrons are fed into the breech end of a classical Stanford (University) traveling wave tube and accelerated toward the muzzle where they strike a high density target such as lead and release very high energy photons. The acceleration of the electrons is achieved much in the same manner a surf boarder gains momentum by riding a wave to shore.

These electrons however, reach speeds approaching that of light. The materials to be studied are placed at the target end of the gun in a large shielded cell and instrumentation devices carry information to the consoles in the screening room.

High energy neutrons, another by-product of fusion reaction, are produced at WSMR's nuclear effects lab with a Pulsed Neutron Generator (PNG). Essentially this generator consists of a power source that may be pulsed (turned on and off at a specified rate) driving deuterium ions into a copper target coated with a very thin layer of titanium sponge in which tritium has been trapped. The bombardment of the ions will produce as many as 1 billion (free) neutrons per power pulse. As in the LINAC, a shielded cell receives the neutron burst and holds the materials to be tested. The PNG cell walls and door are made of a five foot thickness of concrete.

The Fast Burst Reactor (FBR), perhaps the most sophisticated generator in the group, has its own building and test cell well apart from the NEL main building. It provides an excellent source of neutrons and gamma radiation for the simulation of nuclear weapon environments. Man's knowledge, gained in just two decades, has enabled him to produce, with this device, more closely than any other in the U. S., the multi-radiation effects—on a laboratory scale—of a fission reaction without the attendant heat and blast. The FBR, at super-critical condition, will generate 50 billion watts energy for .000035 second. This reactor utilizing uranium 235 is so designed that a chain reaction is allowed but explosion will not occur.

The FBR may be operated by remote control in its test cell below ground level, elevated to an above ground area adjacent to the experimenter's materials, or lowered into a 38-foot pit below the cell level. The pit is covered by a one-foot thick lead door and is used to store the reactor following its burst cycle. After burst the reactor core emits gamma rays for a half hour. The shielded pit storage allows quick human entry into the test cell after a reactor pulse. The FBR is capable of producing high yield, short duration neutron pulses, or steady state operations up to 10,000 watts of

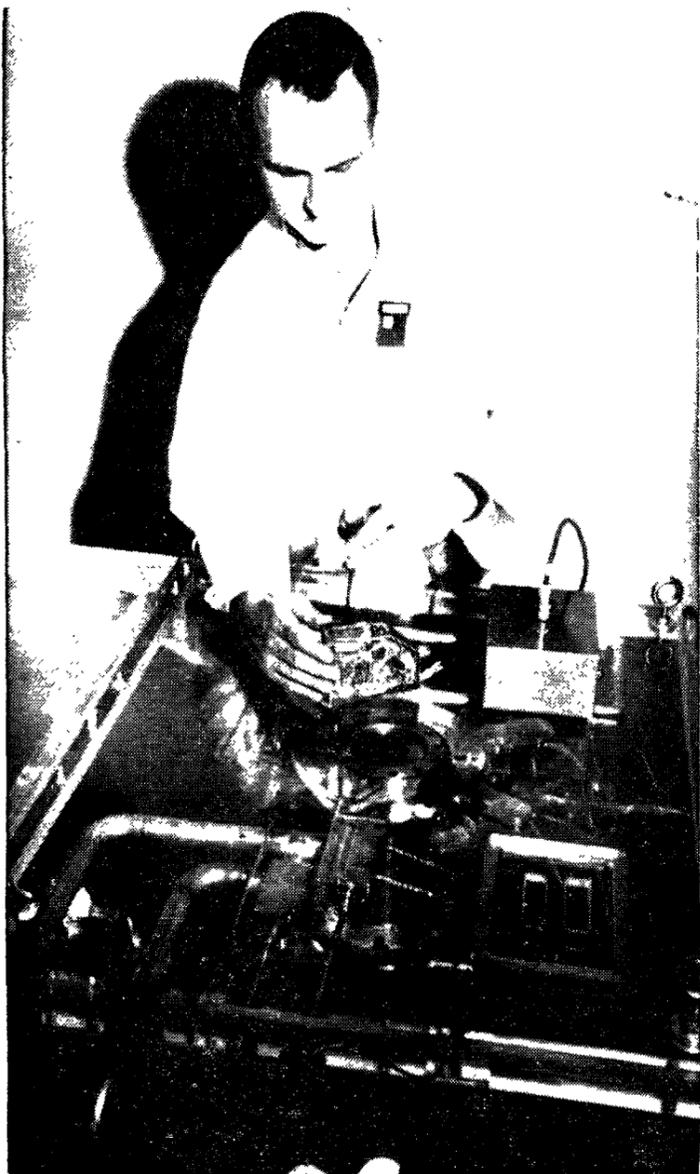
power. After a weapon or system fails when exposed to the FBR it is then subjected, in turn, to Gamma rays from the LINAC and high energy neutrons from the PNG to determine which villain is causing the trouble.

An important support service for the NEL is provided by the radiation dosimetry lab located in the main building. This facility is equipped with many of the most modern devices to measure the amount or "dose" of radiation that materials receive in the NEL.

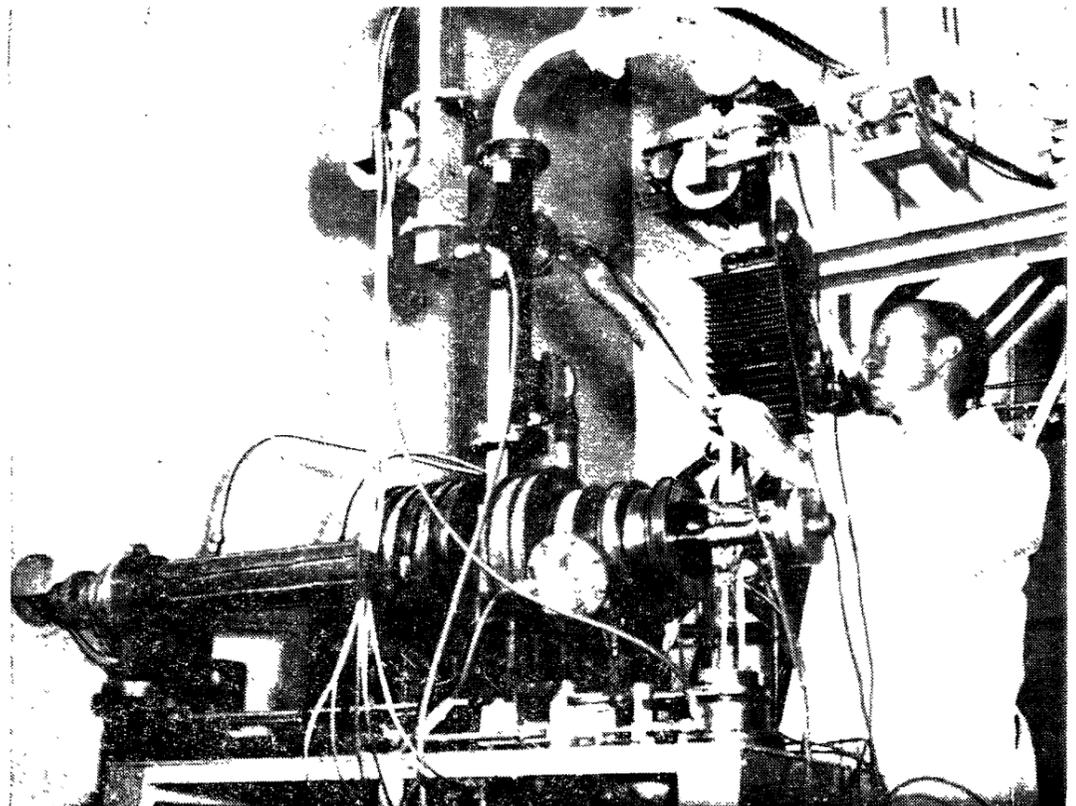
Of paramount interest to lab workers is the personnel monitoring accomplished by the health physics section. Acting as "watch dogs" for the entire operation, health physics monitoring protect the health of the workers and the property from any overt or accidental radiation exposure.

Tours of the nuclear effects lab are planned during the year for families of lab personnel, military and civilian members of the range, interested scientific and educational groups in this area, and civic leaders of Las Cruces, Alamogordo and El Paso.

With the opening of the Nuclear Effects Laboratory at the White Sands Missile Range, yet another milestone has been reached in man's quest for knowledge, the gaining of which places the free world a step farther on the road to lasting peace.



PULSED NEUTRON GENERATOR—Richard Dysart, physicist, sets up a missile component for testing on the Pulsed Neutron Generator (PNG) in the Nuclear Effects Laboratory at White Sands Missile Range. The PNG produces monoenergetic, 14 Mev neutrons, in a 10 microsecond wide pulse, and is used to simulate the 14 Mev neutron spike from a fusion weapon.



GAMMA LINAC FACILITY—J. A. Borrett, nuclear physicist with the Nuclear Effects Laboratory at White Sands Missile Range, makes adjustments on the gamma linear accelerator which simulates gamma radiation from a nuclear explosion. It provides a source of single, intense pulses of high energy electromagnetic radiation for short duration. The output to target goes through the wall at left.

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GERMAN MISSILE UNIT EXCELS—Poised for take off only minutes before launching is a Pershing artillery missile that was fired recently from the U. S. Army's firing site at Blanding, Utah, by the 13th German Air Force Group. The Group includes a maintenance squadron trained at the U. S. Army Ordnance Guided Missile School, and an artillery unit trained at the Army Artillery and Missile School at Fort Sill, Okla. The Group fired the powerful new Pershing as a climax to more than a year's training in the United States and the technical evaluation team from the Ordnance Guided Missile School, supervised by Chief Warrant

Officer W. O. Duncan, gave the Luftwaffe unit a 95 per cent rating, terming it "one of the best such units ever trained in the United States." Their performance was much above average, according to the Technical Inspection section at OGMS. German sergeants Helmut Grund (left) and Erwin Musmann, who were trained at OGMS as part of the direct support unit, test electric cables in "Malfunction City"—the testing station on Black Mesa at Blanding. The missile was fired from the Utah site to the White Sands, N.M., range. The direct support unit was commanded by 1st Lt. Siegfried Veihelmoun, who was trained at Redstone.

Pershing Contract Edges \$3 Million

The Army Monday announced the award of a \$2,999,796 contract to the General Precision Corp., Kearfott Div., for the production of hydraulic actuation systems for the Pershing missile system.

The Firm-Fixed Price contract will cover production for an 18-month period. The work will be performed at the Kearfott plant at Clifton, N. J.

New York Procurement District will administer the contract which was negotiated by the Army Missile Command's Directorate of Procurement and Production Systems Contract Division "A" at Redstone Arsenal.

The Pershing, a 200-400 mile range missile, was developed by the Missile Command and is now in use by U. S., and Allied troops.

If you're in a hurry to build up savings, the \$100 Series "E" U. S. Savings Bond was made for you. Buy one a month (where you work or bank) for FIVE YEARS, and you'll have a nest egg of \$4,856.

At The Service Club

By Brenda Hanson

This week we celebrate another holiday, Labor Day, the day when we traditionally drop all cares and worries of our everyday occupations and go out in search of recreation. At the Service Club, we specialize in recreation, so when you strike out in your search for fun, drop by and see us. We'll try to entertain you.

Wednesday the second, the Enlisted Men's Council will meet at 2 p.m. to discuss the September schedule and make advance plans for the fall season. We urge each representative from his respective unit to attend the meeting. Refreshments will be served.

Thursday the attention goes to the Small Lounge where the Bridge Club meets on each Thursday at 7 p.m. Care to join us? If so, just come to the club each Thursday night.

Like Ice Cream? An Ice Cream feast will be held Friday the 4th at 8 p.m. First come, first served.

Saturday, we begin the day at 1:30 p.m., but the first spotlighted program of the day is the coffee hour at 2:30 p.m. We have a chess contest on the agenda for 8 p.m. Chess is another popular game, especially on Saturday and Sunday. While you are in the club Saturday, enter the contest.

Betty will be all set to serve you coffee and donuts on Sunday.

Disc Jockey, Bob Griffin, with the help of James Stewart, will spin your platter requests for the Foot Loose and Fancy Free Dance Sunday night September 6 at 8 p.m.

Our Monday night evening of games will begin at 8:15.

For all you people with a sweet tooth, we have planned a Fudge

REMINDER TO YOUNG AMERICANS: History is counted in years, but made in minutes. Fortunes are counted in dollars, but often grow out of small amounts saved regularly. Your dimes and quarters regularly invested in U. S. Savings Stamps may spin the Wheel of Fortune for Your Future.

Party at 8 p.m. Tuesday.

MISCELLANEOUS

On the 25th of August, the Service Club held a Post-Wide Ping-Pong tournament which was won by Leon Duboise of 2 ETC. The runner-up was M/Sgt. Willie Clinton of Co. C. Willie and Leon met in the final game as opponents

and needless to say they both displayed a remarkable array of skill on the pingpong table. The winner, Leon Duboise was awarded a trophy. Congratulations to you both.

A sneak preview into the September program shows a "Tackey Dance" with Hal and Ginger Willis furnishing the music.

See you at the Club.

Brenda

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Social

Fashion Show Scheduled

The Redstone Arsenal Officers Wives Club will see a Fall fashion show during lunch at the Squirrel Hill Officers Club Tuesday.

A social half-hour will begin at noon followed by lunch at 12:30 p.m. and the fashion show.

Reservations are being handled by Mrs. Powell, 877-5647, Mrs. W. Mehlinger, 877-5250 and Mrs. S. Josephson, 877-4960.

Mrs. A. McNeil and Mrs. C. Richards will take all cancellations. Their phone numbers are 877-4364 and 877-5575.

Mrs. R. U. Scott, CWO Crawford Win

At Monday night bridge last week at the Squirrel Hill Officers Club seven tables of players were in competition.

Mrs. R. U. Scott and CWO J. N. Crawford were winners for the women and men respectively with Mrs. A. Garabrant and G. R. Dunlap in second place.

The Group plays each Monday night at the Squirrel Hill Club. Mrs. J. N. Crawford, 877-5763 is handling the reservations this month.

Births At Post Hospital

Andrea Lorraine Burns, 4 lbs. 9½ ozs., Aug. 12, daughter of SSgt. and Mrs. William Joseph Burns.

Mark Thomas Toler, 8 lbs., 13½ ozs., Aug. 13, son of Sgt. and Mrs. Charles Edward Toler.

Karen Sue Disbrow, 7 lbs., 7½ ozs., Aug. 14, daughter of Capt. and Mrs. David Caryle Disbrow.

James Joseph Esry, 7 lbs., 4 ozs., Aug. 15, son of 2/Lt. and Mrs. Donald Esry.

Delvin Wayne Fields, 6 lbs., 6½ ozs., Aug. 15, son of Pfc and Mrs. Melvin Wayne Fields.

Janet Lee Mortison, 6 lbs., 15 ozs., Aug. 15, daughter of 1/Lt. and Mrs. John Lee Mortison.

Larry Jerome McCloskey, Jr., 7 lbs., 12½ ozs., Aug. 20, son of Pfc. and Mrs. Larry Jerome McCloskey.

Cinday Rose Carson, 5 lbs., 9½ ozs., Aug. 20, daughter of Pfc and Mrs. Alfred Joseph Carson, Jr.

Gwenneth Michael Flynn, 5 lbs., 6½ ozs., Aug. 20, daughter of Sp4 and Mrs. James Michael Flynn.

Gregory Ernest Chaplin, 7 lbs., 1¼ ozs., Aug. 23, son of SSgt. and Mrs. James Henry Chaplin.

Kelley Anne Webber, 7 lbs., 13¼ ozs., Aug. 23, daughter of Sp4 and Mrs. Robert Leroy Webber.

Marvin Lee Worley, III, 5 lbs.,



THE FIRST WINNERS—Col Thomas W. Cooke, Commander of the Army Missile Support Command, presents scholarship checks to Linda Wood (second from left) and Michele Bullard Sunday afternoon at the NCO Club. Mrs. J. R. Moore, (second from right) president of the NCO Ladies Auxiliary which sponsored the scholarships, and Mrs. Cooke, Honorary Auxiliary president participated

in the ceremony. Linda, a sophomore at Jacksonville State College, is the daughter of M/Sgt. and Mrs. S. L. Wood, and Michele, daughter of M/Sgt. and Mrs. Harry J. Bullard, will be a freshman at Florence State College. The Auxiliary plans to make the scholarship program an annual event for awards to children of members.

Tickets Go On Sale Friday

The Redstone Officers Wives Club is sponsoring the local campaign to support the Army Distaff Foundation's annual drive for funds.

The Arsenal wives have scheduled a Harvest Ball on Sept. 26 at the Redstone Arsenal Officers Club. Tickets for the event will go on sale Sept. 4. Capt. Safron Canja will coordinate the sale of tickets.

The Army Distaff Foundation was established to provide living quarters for wives of deceased Army officers and established a fund to provide help for widows, or daughters whose income is not sufficient to meet living expenses.

12 ozs., Aug. 24, son of Lt. Col. and Mrs. Marvin Lee Worley, Jr. Kelly Keith Keplinger, 7 lbs., 11 ozs., Aug. 24, son of Sp5 and Mrs. Kenneth Keplinger.

Ernest Daniel Neal, 6 lbs., 12¼ ozs., Aug. 24, son of Pfc and Mrs. Ernest Bedford Neal.

Catherine Marie Salvo, 8 lbs., 3¼ ozs., Aug. 24, daughter of Mr. and Mrs. Charles Salvo (Retd. Army CWO).

The Foundation also provides a community for wives who have followed their husbands from post to post and have never had a chance to establish roots in a community.

The Army Distaff Foundation is a prototype organization which is being studied by the Navy and Air Force. The Army Distaff Hall is in a zoned district of Washington, D. C., where it cannot be expanded beyond the 300 apartment units

it now has.

The Hall is designed to provide not only housing facilities to elderly widows, daughters and other feminine relatives of Army career officers, but it is also designed to meet the social and psychological needs of the aged and to contribute to their health, security, happiness and usefulness in longer living.

Although it has an infirmary, anyone who becomes completely disabled is transferred to Walter Reed Army Hospital for specialized care.

WIVES TO TOUR BARGE

The Army Missile Command officers wives will tour the Saturn barge tomorrow morning at 10 a.m. instead of holding their monthly coffee.

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Thiokol Anniversary Will Be Celebrated All Week

The Thiokol Huntsville Division's celebration of its 15th anniversary will be held the week of September 8th.

On Tuesday, representatives of the Army Missile Command will attend a presentation in the Engineering Auditorium, special exhibits, and a tour of the Division.

Wednesday, Marshall Space Flight Center representatives will be hosted for a similar presentation and tour.



CIVIL DEFENSE PLANNERS—(left to right): Col. Thomas W. Cooke, Commander of the U. S. Army Missile Support Command, opens the classes for Civil Defense shelter managers, in the Rocket Auditorium Wednesday. With him are Harris Mitchell, director of the Huntsville-Madison County Civil Defense Office in Huntsville, and Joe B. Hedrick, Fiscal and Resources Officer of the Civil Defense Department, State of Alabama. Approximately 280 potential shelter managers attended the classes.

tion and tour.

Thursday, community leaders will be invited for a briefing on Thiokol's role in the community and a tour of the facilities.

Thursday evening, the Huntsville Industrial Expansion Committee will be hosts at a buffet at the Huntsville Country Club in celebration of the 15th Anniversary.

Climax to the week will be on Saturday, September 12th with the Employees' Open House to which all employees and members of their immediate families are invited. Special exhibits will include dis-

plays in the halls of Building 7611. The theme of the exhibits will be "Fifteen Years of Thiokol Success." All exhibits will be furnished by various departments of the Division.

Outside displays will include Army missiles which are powered by Huntsville Division motors. These will be provided by the Army Missile Command. Mock-ups of Huntsville Division motors will be on display adjacent to the missile display in front of Building 7612.

Planned programs are being arranged in the Computer Section for use on Saturday during Open House.

Employees' Open House will be an all day affair with a barbecue lunch, refreshment stands, continuous movies, pony rides, and planned tours.

Corporate officials have been invited to attend the celebration. It is expected that other Thiokol Divisions also may be represented.

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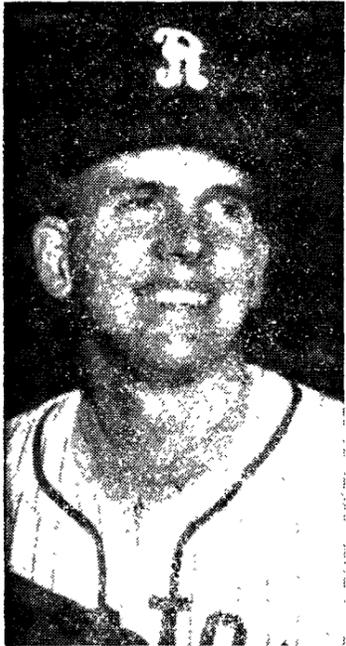
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"OUR 62nd YEAR"

Rockets Lose Tournament

Spotty pitching proved the downfall for the Redstone Rockets last week when they were eliminated from the Third Army baseball tournament at Ft. Jackson, S. C., in two straight losses.

In each of the losses the Rockets got some excellent relief pitching but in each case it went for



ABSENCE IS FELT—A TDY trip last week deprived the Redstone Rockets of the services of George Downing for the Third Army Baseball Tournament at Ft. Gordon. Manager Irv Lyles was counting on his hard-throwing right hander to start the first game.

naught due to early leads piled up against the starting hurler.

Playing Ft. Gordon in the opening game of the tourney, the Rockets dropped a 6-3 encounter and a day later the Redstone hopes were eliminated with a 4-2 loss to Ft. McPherson.

Gordon jumped on Bob Rapp for three first inning runs and added two more before Mike Stuart came onto the scene in the fourth. From there on Stuart was in complete charge allowing one run on three hits.

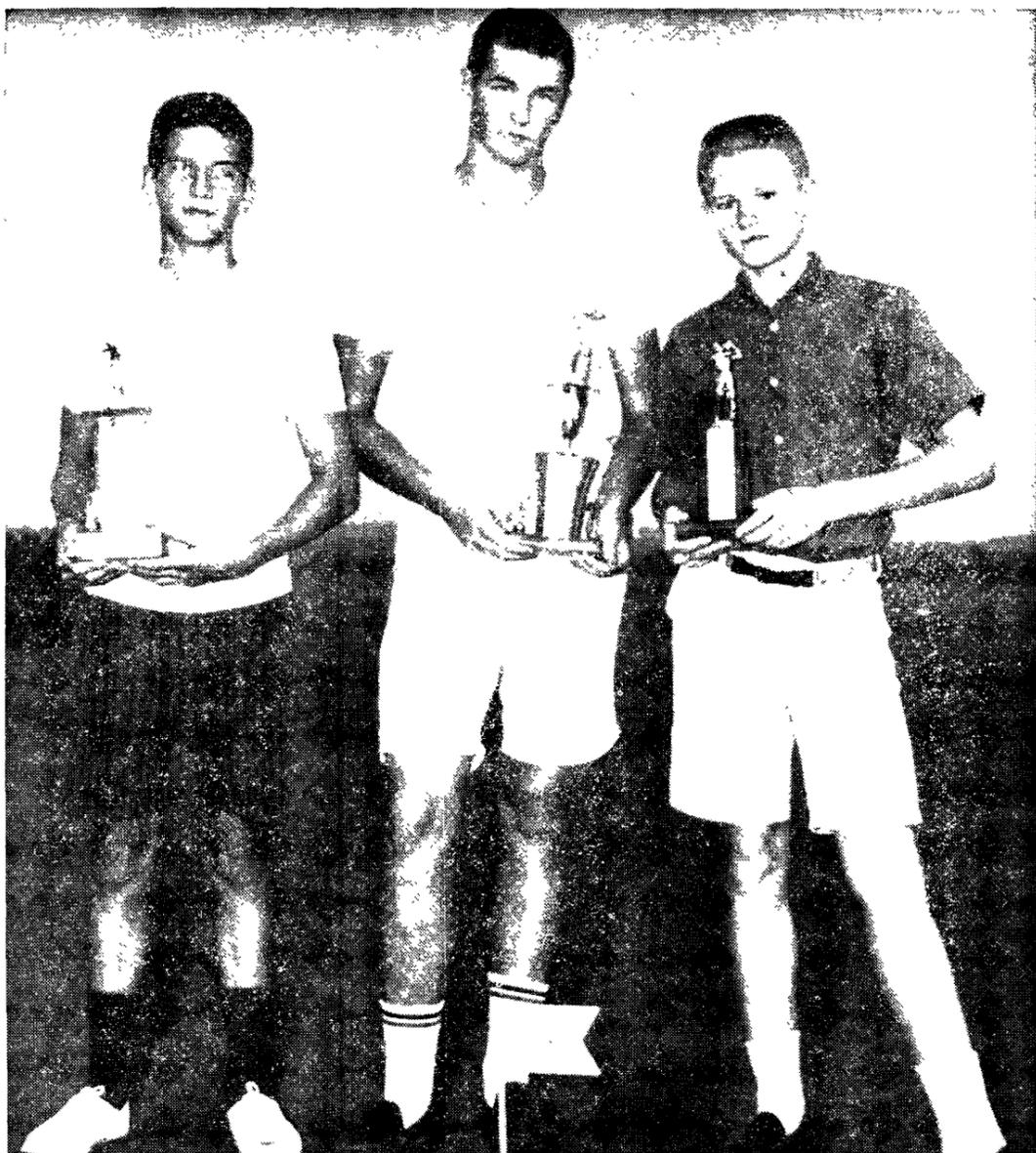
The Rockets scored a single run in the fourth and added another pair in the seventh on Dave Rosado's double. The little second baseman got two of the five hits garnered by the Rockets off the slants of Gordon's Phil Potter.

Redstone centerfielder, Art Cole, turned in the fielding gem of the entire tournament with a diving, back-handed stab of a low liner which prevented even more damage in the fourth inning.

Tony Cerna drew the starting assignment in the game with McPherson and after working his way out of a deep hole in the first, got into trouble again in the second and was replaced by Dan Durant.

The reliever was coasting along with a 2-0 lead until the fifth when a walk followed by a home run by Ted Temple made it a new ball game.

The Rocket hitters were unable to do anything more with a trio of McPherson flingers and Durant was just as stingy for Redstone until the eighth when the Atlanta team broke the tie with a single



CHAMP IS MISSING—Pat Sullivan, Dan Shorsten and Lee Carlson clutch the trophies they won in the Junior Golf Tournament at the Redstone Arsenal Course last week. The championship flight winner, Dick Sullivan is missing. He is a lifeguard at the Squirrel Hill Officers Club pool. Pat won the first flight; Dan was runnerup in the championship flight; and Lee was runnerup in the first flight. They played all summer on the Arsenal course under the sponsorship of the Golf Group of the Redstone Arsenal Officers Wives Club. Mrs. E. O. Sentar is chairman for the group.



JUNIOR DIVISION CHAMPIONS — John Miller (left) and Tim Thompson were the champion and runnerup in the junior division of the Junior Golf Group tournament at the Redstone Arsenal Golf Course. The Junior Golfers are sponsored by the Golf Group of the Redstone Arsenal Officers Wives Club.

counter. They added an insurance and Durant.

Temple, the McPherson short-stop, collected a trio of singles in addition to his homer to amass almost half of the hits off of Cerna

The Rockets were limited to five safeties in each of the games but had plenty of scoring opportunities. However, the big hit when it would have meant the difference

between winning and losing, was not there.

Nine base runners were left stranded in the first game and another ten were left in the second game.

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Headquarters Girls Beat All-Stars

The Larrupin' Lassies from Headquarters, AMSC, capped an undefeated season Monday night by soundly thrashing the Civilian Girls' All-Stars team by a score of 9-4.

In this tense duel, the Civilian Girls' League champs were faced with an array of the top stars from the three other teams in the girls' league.

The All-Stars won the toss, elected to be home team, and took the field to open the game. Headquarters showed no awe of their opposition. Gene Ventress led off with a walk then moved to second as Marie Sexton rapped a single.

Joyce Jones forced play at 2nd, but Ventress, playing heads-up ball, scooted all the way in, drawing first blood for Headquarters. Cathie Leeth ripped a hard shot to Frances Bogue, All Star third baseman bobbled the chance, and all hands were safe. Gladys Hill, P&P, the All Star hurler issued her second free pass to Barbara Simmons, and the sacks were filled.

Margaret Stagner rocked a shot back through the middle for a single, and Jones and Leeth scored, making it 3-0, Headquarters. A walk for Claudelle Griggs, again loaded the bases. Doris Squires tapped one back to the mound, but the throw to first was wild. On the error, Simmons and Stagner rushed across the plate, and at the end of one half, Headquarters led, 5-0.

The All Stars in the bottom of the first, faced the Decatur Demon, Claudelle Griggs, who was starting her second hurling assignment of the year.

Frances Bogue, P&P, flew out to left, and Robbie Barnett, Finance and Accounting, popped out to the mound. But, Reba Nugent, F&A slapped a single, and June Byrd Procurement and Production, was safe when Ventress was charged with an error at second. Wilma Daly, P&P, popped out to end the threat.

Headquarters started fast in the second, as Ventress drew her second walk, and Sexton followed her with her second single. Glenda Kidd, F&A, the relief pitcher for the All Stars, set the next three batters down in order.

With one down, Carol Gaylor and Ventress both reached base on errors in the fourth. Sexton tore into a Kidd pitch for a single, driving in Gaylor. An outfield error on a ball hit by Joyce Jones, gave Headquarters two runs, upping the score to 7-0.

The All Stars matched those two runs with two of their own in the fourth. Wilma Daly, P&P, led off with a sharp single, and moved all the way to third as Betty Whisenant reached second on an error. Martha Whitt, P&P, belted a single, driving in both runners, cut-

ting the score to 7-2. The All Stars had a single run in the fifth, closing the gap to four runs.

Headquarters tried to break loose in the sixth. With one away, Jones smashed a base hit. Cathie Leeth reached base on an error. Both runners moved up a bag on an infield out, then both pranced across the plate as Margaret Stagner almost tore the cover off the ball as her long drive to right center went for a triple. Stagner was left stranded at third, but Headquarters had a six run lead. The All Stars could not muster a run in their portion of the sixth, and Headquarters went down in order in the top of the seventh.

The All Stars came to the plate

in the bottom of the seventh for their last chance at dealing the league champs their first defeat of the year. Bogue tried to get the All Stars rolling as she rocked a double. Headquarters, now playing to make the outs, allowed Bogue to score, as Griggs retired the next two batters on infield grounders. Bogue scored the last batter lofted an easy pop fly to Gene Ventress for the final out, and Headquarters emerged the happy victors, 9-4.

Frances Bogue, P&P, led the Billy Joe Lowery coached All Stars' efforts for the night with a 3 for 4 effort at the plate, including her solo homer. Wilma Daly and Martha Whitt, both from P&P, each had two hits in a losing cause. Betty Whisenant, P&A, played a fine

defensive game, and Glenda Kidd, F&A, pitched a good game, giving up four runs in 6 innings.

Coach Jim Robinson's Headquarters team was led by Marie Sexton, who had three singles. She was backed ably by Margaret Stagner, who had a single and a triple.

Gene Ventress was a sparkplug at second base, and Carol Gaylor played a fine game in right field. Special mention must go to Claudelle Griggs, who, refused to surrender a walk, and also made two sparkling defensive plays on the mound.

SUMMER SELL OUT

All 1964 Chrysler, Plymouth & Valiants must be sold in the next 30 days. You can save hundreds of \$ \$ \$. Trade where the overhead is low and your business is appreciated.

Your Authorized Chrysler, Plymouth & Valiant Dealer.

KING MOTOR COMPANY
Blountsville, Alabama
Located On Highway 231

Famous BRANDS are RELIABLE
for Quality, Style and Value

It's Famous Brands Month: Save now on Trim, Comfortable Baumritter Living Rooms



Includes: Sofa, 2 Matching Club Chairs

3 Pc. Groups
\$199.95
regularly \$249.95

Depend on famous brand Baumritter to give you all you love in Danish-inspired furniture. Why, these living room groups are even handsome from the back! Deep, comfortable seat and back cushions are Urethane foam filled... keep their trim lines without sagging. They're beautifully tailored-zippered and reversible, too, for longer wear. Warm, sculptured arms are hand-rubbed and finished in satin walnut, or spice brown on richly grained hardwoods.

Solids, tweeds and stripes in delightfully rich fabrics or rugged leather-like fabric-backed vinyl plastic are available in a tremendous collection. Smart decorator colors include tangerine, toast, browns, turquoise, gold, greens, blues and white. Right now prices are especially low. Come early for best selection.

Your Choice of Matching Formica Topped Tables:

- Step End Table..... \$19.95
- Rectangular Cocktail Table.. \$19.95
- Corner Table..... \$19.95
- Round Cocktail Table..... \$29.95
- Lamp End Table..... \$29.95



Includes: Two-piece Sectional Sofa, High-back Chair
\$199.95
Regular \$249.95

Wives Bowling League Starts

The bowlers in the league sponsored by the Redstone Arsenal Officers Wives Club will meet at 9 a.m. Sept. 11 at the Redstone Arsenal bowling lanes.

League officers are: Mrs. Gene Budd, chairman; Mrs. Joseph Hopkins, vice chairman; Mrs. Raymond Reier, secretary; Mrs. James Vance, treasurer; and Mrs. H. H. Hewitt, sergeant-at-arms. Mrs. William Graham is handling the publicity.

Anyone who wants further information can call Mrs. Budd at 877-5848 or Mrs. Reier at 877-5378.

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Thiokol Develops Solid Motor To Shut On-Off

Thiokol Chemical Corporation's Huntsville Division, has successfully demonstrated a solid rocket motor that, on command, can be stopped, restarted, and stopped again.

The Research and Development Program, which began at Thiokol's Huntsville Division early in 1963, was conducted under contract to the National Aeronautics and Space Administration's Lewis Research Center, Cleveland, Ohio.

Thiokol currently produces solid rocket motors capable of command thrust termination. One of its major goals has been to achieve restart on command after command termination. Achievement of the command restart capability brings additional flexibility and control to solid rocket motors.

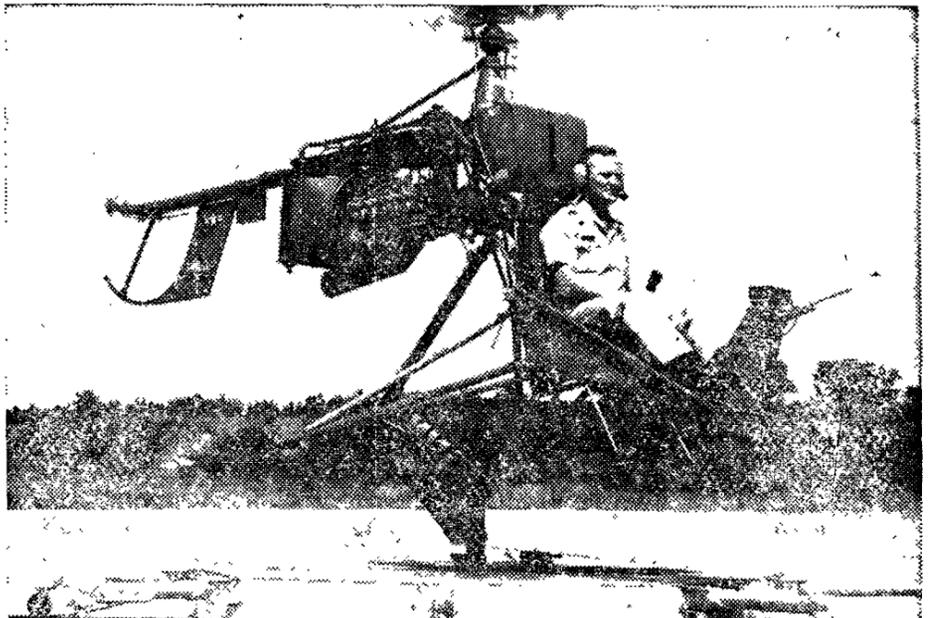
The Thiokol motor was successfully fired through two cycles (on-off, then on and off again) in three separate tests at varying altitudes. The firings, at altitudes ranging from 59,000 to 125,000 feet, were conducted in the altitude test chambers of Arnold Engineering Development Center, Tullahoma, Tenn.

The motor contained more than one hundred pounds of high performance, highly aluminized solid propellant. Thrust termination was accomplished by what Thiokol terms "rapid axial decompression." Thrust termination in all

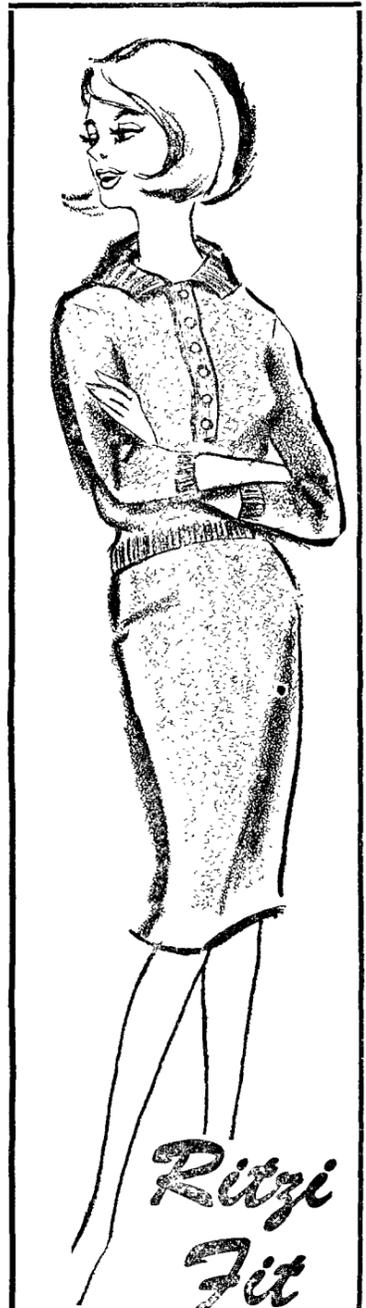
cases was accomplished without producing the thrust peaks and side loads which could adversely affect the operation of the missile system.

In all tests, the motors used a dual pyrogen ignition system developed as a part of the Research and Development Program. The ignition system functioned perfectly in all tests.

Thiokol spokesmen said the on-off-on motor has tremendous growth potential, with application in both the missile and space vehicle fields. The motor performance is reliable and reproducible. The motor is uncomplicated, and retains the inherent simplicity of the solid propellant motor. Of notable interest to military users, no inert components are jettisoned from the motor.



WHIRLYMITE TRAINER—Capt. Norman E. Hoeltzel (Jacksonville, Fla.) demonstrates a new helicopter training device at Fort Wolters, Texas. The one-man chopper is mounted on a platform that glides across the runway on a cushion of air. A pilot can move in all directions, practice such in-flight maneuvers as 360 degree rotation, vertical rise and descent, tilt in all directions, and forward flight. Still in the test stage, the trainer was planned as an economical substitute for flight training in operational helicopters. Manufacturer is Del Mar Engineering Laboratories, Los Angeles, Calif.



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\$6.98

Slim line flannel Skirt with inverted back-pleat . . .

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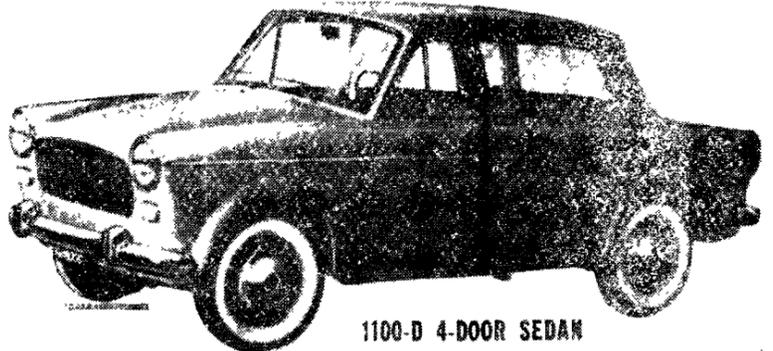
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- ★ GAS SAVINGS ALONE MAY MAKE YOUR MONTHLY PAYMENT
- ★ PRICES QUOTED ON THIS PAGE INCLUDES MANY ITEMS OF EQUIPMENT NORMALLY CONSIDERED EXTRAS ON OTHER CARS
- ★ FIAT HAS BEEN BUILDING CARS SINCE 1899. Fiat builds 3500 cars a day—946,743 in 1962. employs 120,000 people. Builds sea going ships—farm tractors, jet airplanes, street cars.

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Bucket Seats — Reclining Back — 4-Speed Transmission — White Wall Tires — Heater — Defroster — Windshield Washers — Undercoating — All Vinyl Upholstery — Bumper Guards—Front and Rear — Courtesy Lights — 55 Horsepower — Up to 30 Miles Per Gallon.

\$1573
Full Price

\$45.36

Per Month, Includes Tax, License and Interest with \$300 Down

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Model 1500 Sports Roadster

Created for the joy of living. More power—more sport to drive. Hard to believe low price. Four speeds and reverse. 100 m.p.g.—bucket seats, disc brakes, luxury touches. A TRIUMPH IN AERODYNAMICS.

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600-D 2-Door Sedan

Bucket Seats — Reclining Back — Windshield Washers — White Wall Tires — Undercoating — All Vinyl Upholstery — 4-Speed Transmission — Bumper Guards—Front and Rear — Up to 40 Miles Per Gallon.

\$1292
Full Price

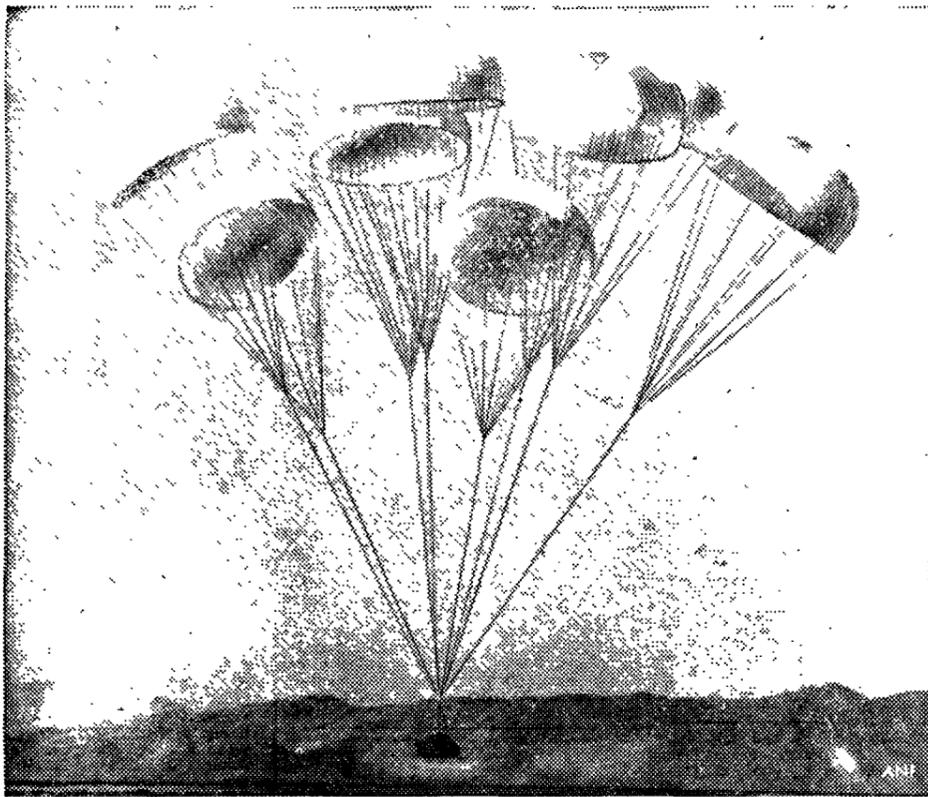
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THE SHERIDAN/SHILLELAGH—weighing over 35,000 pounds, floats to earth under a canopy of eight parachutes at Yuma Proving Ground, Arizona. An armored reconnaissance airborne assault vehicle, the SHERIDAN, with the Shillelagh anti-tank missile, can be used against field fortifications or armored vehicles. GMC produces the Sheridan; Aeronutronic Division of Ford Motor Company is contractor for the Shillelagh missile.

TOW Contract Given Hughes

The Army announced the award of a \$14,375,776 million contract Wednesday to Hughes Aircraft Company for continued research and development of a heavy-assault, anti-tank weapon system.

Called the TOW (Tube-launched, Optically-tracked, Wire-guided), the new missile system will provide a major boost in firepower for infantry units.

Hughes is prime contractor for TOW which also will be effective

against other heavily armored vehicles and gun emplacements. Work on the cost plus incentive fee contract will be performed at the Company's facilities at Culver City, Calif., and at Tucson, Ariz.

Management of the weapon system's development is under the direction of the Anti-tank/Aircraft Commodity Office of the U. S. Army Missile Command. Col. Cyril D. Sterner is Commodity Manager.

Flight testing of the weapon system is being performed at Redstone Arsenal.

The Los Angeles Procurement District negotiated the contract for the Army.

Awards and Decorations

Award of the Good Conduct Medal, first award, has been made to the following named enlisted personnel in recognition of their exemplary behavior, efficiency and fidelity.

Hq & Hq Detachment, USAMSC; Sp4 Jack L. Barnett, Sp5 Charles E. Bull, Sp4 William R. Colbert, Sp4 John J. Cunningham, Jr., Sp5 Alan Deschweinitz, Sp5 Daniel J. Gruber, Sp5 Walter F. Morgan. Jr., Sp5 Johann W. Nagel, Sp5 Anthony Novak, Jr., Sp5 Ozzie Porter and Sp4 Gershon Smith, Jr.

USAMICOM MOE; Sp4 Collins D. Smith, Jr. and Sp4 Charles G. Wages.

291st Military Police Co; Sp4 Lamar E. Cox, Sp4 William Mor-

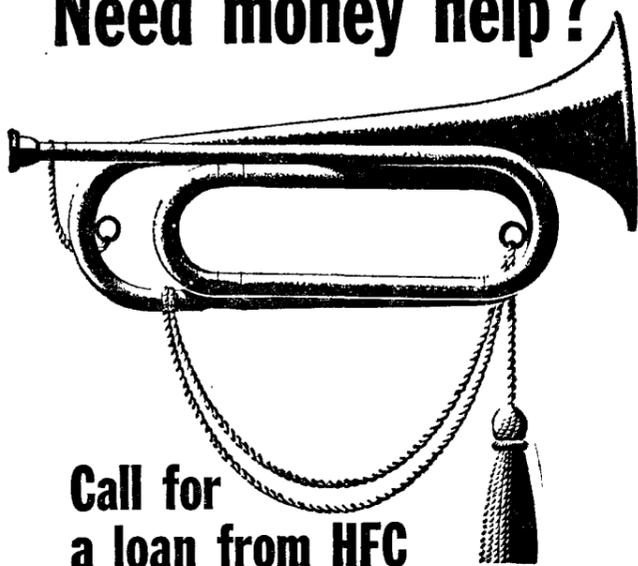
gan, Sp4 Kenneth W. Gore, Sp4 Sidney A. Hite, CPL Richard L. Hunter, Sp4 Benjamin F. Parkman, III, CPL Marvin L. Rounds and Sp4 William R. Sensmeier.

Medical Detachment; USAH: Sp4 Nolan Raborn, Sp4 David L. Roe and Sp5 John F. Rosier, III.

USADFC/DSO: Sp5 Thomas M. Parvin.

July 31, 1919 — The Brooklyn Army Terminal (now an Army Materiel Command installation) was built at record-breaking speed during World War I in time to receive returning servicemen. Known at various times as the Brooklyn Army Base, and New York Port of Embarkation, it now houses the headquarters of the parent organization, the U. S. Army Technical Command, Atlantic, a subordinate activity of the U. S. Army Supply and Maintenance Command. The terminal ships troops and cargo to and from overseas destinations, and is the largest military terminal of its type in the world.

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You can trust the company that's trusted by more than 100,000 servicemen every year. You can borrow with confidence from Household.

LOANS UP TO \$300 | **LOANS UP TO \$2000**
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Cash You Get	MONTHLY PAYMENT PLANS			
	6 Payments	12 Payments	24 Payments	36 Payments
\$ 50	\$ 9.23	\$ 5.02		
75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Cash You Get	MONTHLY PAYMENT PLANS			
	12 Payments	24 Payments	36 Payments	48 Payments
\$ 50	\$46.81	\$24.73		
75	64.92	34.30		
100	82.80	43.76	\$20.05	
200	137.80	72.80	59.80	
300	181.98	96.13	78.95	

Above payments include principal and interest. Life Insurance is available at group rate for loans above \$100.

Payments above include principal and interest. Charge of repairs according to schedule. Do not include life and disability insurance available at group rates.



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DRAFTSMEN, 3 years experience
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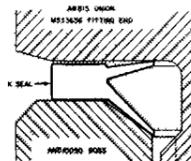
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TECHNICAL SECRETARY, Excellent pay.
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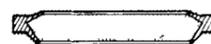
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Page 14 The Redstone Rocket — September 2, 1964

1. For Rent

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964 models. Phone 534-9761. Central TV and Stereo Co., Inc., corner Governors Drive and Parkway. Open 8 a.m. to 7 p.m. daily. Phone 534-8589. tfc

FOR RENT—4000 sq. ft. workable area office space, second floor Quaker Building. Available July 1. 117 Greene St., Downtown Huntsville. Phone 534-5127 or 534-4551. tfc

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 539-0775. tfc

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

2. Cars For Sale

1962 OLDS F-85—4 door sedan. Clean, one owner, \$1795.00. Lewey Robinson, 539-7456. Universal Motors, Inc. tfc

1957 CHEVROLET—Bel Air, V-8, automatic, \$695.00. Frank Wallace, 539-7456. Universal Motors, Inc. tfc

1953 CHEVROLET CORVAIR MONZA, 4-in. floor, black, red interior. \$1775.00. John Payne, 539-7456. Universal Motors, Inc. tfc

1961 FORD GALAXIE Hardtop, all power, nice. \$1395.00. Charles Lurie, 539-7456. Universal Motors, Inc. tfc

MUST SELL 1963 T-BIRD—28,000 miles, full power, and factory air. Best offer or trade for cheaper car. tfc

3. Miscellaneous

FALL SHOES!—Now on display at Bargain Shoe Center. Latest styles and colors. Lowest prices. First quality. Located 4 miles west of Arab on Highway 69 at Standard Service Station, Joppa, Ala. 9-9p

JOIN A PRIVATE LEARNERS' BRIDGE CLUB—Combine learning with a real party. Supervised play by an experienced bridge instructor who has studied and taken the Goren teacher's examination, also has a successful book on bridge on the market for three years. Membership limited. For further information call 881-0672. 9-2c

NOW OPEN

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Boys Flat Tops (Under 14 yrs.) .. Reg. Price
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ABS SECRETARIAL SERVICE, 915-F Franklin St. SE (Franklin Center) Phone 534-6451. For: Photocopying, Mimeographing, Transcribing (Dictaphone) telephone answering. Employment applications prepared (Government and other); Notary Public. Our office or yours. tfc

MME FEDY FIORY, European Opera Concert Singer, instructor in voice and piano. Few openings. Phone 832-8391. 9-9c

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

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

JUNE TAYLOR HEALTH STUDIO — Massage and Steam Bath, 9 a.m. to 6 p.m. evenings and Sundays by appointment. Phone 536-3720. tfc

WANTED — Students we have openings for 5 students at Nitas and Daves Beauty College. Tuition can be financed. Earn top wages, be a professional trained by trophy winner Nita Hetherington. Call Nita & Dave's Beauty College, 539-2461 or come by Governors Drive across from Butler High School. tfc

PIANO REPAIRING, tuning and refinishing over 12 years experience. Parris Piano Service. 907 Meridian St., Phone 539-2906 tfc

SANDSTONE, Patio, Walks, Sea Walls, containing walls, Building Stone, Masonry Jobs. Call Milford Cooper Quarry, Grant, Ala. 728-4653 9-2c

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We need high-caliber men to represent us in the Huntsville area. Sales teaching or executive background helpful but not essential. Complete training program. Applicant must be management potential and have 5-figure income objective. Up to \$600 per month training allowance plus qualified representative. Replies in strict confidence. Must include age, education, past experience and marital status. Write Personnel Office, 1010 Frank Nelson Building, Birmingham, Alabama 35203. 9-9c

4. Mobile Homes

FOR RENT—2-bedroom mobile home, near Gate 3. Air conditioned. Reasonably priced. Call Virginia Farmer, 876-2332. ttp

5. Houses, Lots - Sale

TIMBERLAND—1400 acres located in Franklin County adjacent to the town of Vina. This land is priced to sell and an excellent long term investment. Priced \$35.00 per acre. E. G. Williamson, Real Estate Broker, Cullman, Alabama, Phone 734-6294. tfc

FOR SALE—1 acre wooded lots, located 28 miles from Huntsville, 7 miles Southwest of Fayetteville. Only 2 left. Phone 881-3158. 9-9c

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Three 10 wides and two 8 wides. We also have 2 office trailers—both have baths. **LOW DOWN PAYMENTS & LOW MONTHLY PAYMENTS.** See them now at **JOY HOMES ON WHEELS,** 2810 Memorial Parkway, S.W. Phone 536-7345.

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GUNTERSVILLE LAKE
FOR SALE—Waterfront cottage located in the popular "Brown's Creek" area. Boat house, wooded lot. Facing the main channel. Sandy beach. Furnishings included. \$18,000.00. Contact Ed Neely, Broker, Phone 582-3914 or 582-3230 Gunterville. 9-9c

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Opportunities and full information on Florida properties write Mamie P. Smith, "Reg. Broker," 140 N.W. 1st Ave., Homestead, Florida. tfc

GUNTERSVILLE LAKE
FOR SALE—Large, well-built vacation lake-front home. Large boat house, wooded land. Ideal for Company employee's recreation center. Contact Ed Neely, Broker, Phone 582-3914 or 582-3230 Gunterville. 9-9c

GUNTERSVILLE LAKE—SANDY POINT — 3-bedroom, bath, big kitchen-family room combination. Completely furnished. Double slip boat house with electric hoist. The slip of the year at only \$11,500. tfc

FOR SALE—3-bedroom house, Brick veneer, 2 baths, built-in kitchen and family room, living room, and garage. Central heating and air conditioning. Two split level houses for \$8.00 per square foot, central heat and air conditioning, two car garage in one and 1-car carport for the other, 2250 square foot area for one, 1655 square foot for the other. The price is right on these houses. See Jesse Black, Arab, Ala., or call 535-4515. tfc

HOUSE FOR SALE—New brick, 3 bedroom, full basement, located on Tenn River, includes 2 baths, 2 fireplaces, kitchen with built-ins, all rooms upstairs paneled, also screened terrace across entire back of house. Located in newly developed beachwood Acres off 72 Hwy. 9 miles west of Athens. Turn left at Pat Show's Grocery and follow signs. Call Paul Black, Athens, Ala., 232-5067. tfc

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- Brookhurst \$14,000
- Lincoya \$15,700 & \$19,100
- Valley Park ● Windsor Manor

— V.A. or F.H.A. —

Advanced Systems Laboratory Chief To Be On National Television Network

An Army Missile Command scientist learned last week that doing a show on location at Redstone Arsenal for a national television network is no minor undertaking.

Dr. William C. McCorkle, Jr., Director of the Advanced Systems Laboratory of the Research and Development Directorate spent several hours under hot lights and before television cameras with 15

year-old Gary Smaby of Minneapolis, Minn., before a video-taped program segment was finished.

The program segment was shot on location here in the Francis J. McMorrow Missile Laboratories for use in the Science All-Stars program late this fall. The program, featuring young science-minded students will be shown over the ABC Television Network.

Gary Smaby, son of Mr. and Mrs. P. C. Smaby of Minneapolis, has built over 300 model rockets and flight-tested more than 100 over the past seven years. His

rockets have carried aloft both still-type and motion picture cameras. He has flown multi-stage rockets with clustered rocket motors for boosters. He is presently working on equipment for recording telemetry during flight and to provide some type of guidance system for his future rockets.

During the video-tapped segment of the program shot here at Redstone Arsenal, McCorkle and Smaby discussed the characteristics of flight and guidance of the Army's missiles and rockets.

The Television Branch of the

Ordnance Guided Missile School, in co-operation with MGM Television of New York, video-taped the program segment.

This is the second time Redstone Arsenal has been featured on the Science All-Stars program.

Last winter a young, future scientist from Upton, Wym., visited Army Missile Command scientists of the Electromagnetics Laboratory to learn how to improve the operation of his homebuilt LASER prior to appearing on the program.

Two Receive AUSA Academic Award

Missilemen from the U. S. Army, Marine Corps, China and Denmark heard a keynote address at the Ordnance Guided Missile School Friday by retired Col. William Weissinger and Lt. Robert A. Lurcott, missile instructor.

The two Army men spoke to 18 graduates of Nike and Hawk Missile courses at the School's Auditorium early Friday morning. Col. Weissinger, now with the Chrysler Corp., spoke as a board member of the Tennessee Valley Chapter of the Association of the U. S. Army.

He presented AUSA academic award plaques to S/Sgt. Clifton Lowe of Bastrap, La. and S/Sgt. Niels Just Sorensen of Denmark. Both students maintained grade point averages of 96 per cent or better.

Also honored at the graduation ceremony was U. S. Marine Sgt. Kenneth J. Broz who was named honor student and high man in his Hawk Pulse Acquisition Radar and Battery Control Repair course.

Capt. Anthony Johnson, Directorate of Individual Training at OGMS, served as master of ceremonies at the event.

Western Electric Gets \$1.1 Million For Nike Hercules

The Army Monday announced it had awarded a \$1.1 million contract to the Western Electric Co., for work on the Nike Hercules air defense missile system.

The contract will cover engineering services, modification, and servicing and maintenance of missile ground guidance equipment and associated items. The work will be performed at Western Electric Co. facilities in North Carolina and at White Sands Missile Range, N. M.

Western Electric is the Nike Hercules' prime contractor. The system is managed by the Nike Hercules Project Office at Redstone Arsenal, Ala.

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Lt. Col. Frank C. Gay Is Buried At Arlington

Graveside services and burial for Lt. Col. Frank C. Gay, USA (Ret.) were in Arlington National Cemetery Monday. A funeral had been held in the Redstone Arsenal Post Chapel last Friday.

Col. Gay died last Wednesday in Redstone Post Hospital following a heart attack.

He is survived by his widow and two daughters who live at 1116 Bessemer Road, N. W., Huntsville.

Prior to his retirement last December, Col. Gay was Commodity Manager of the Honest John/Little John and Redstone missile systems for the Army Missile Command. The last five years of his 20 years with the Army were spent at Redstone Arsenal.

At the time of his death he was employed by Wyle Laboratories.

A native of Warren, Pa., where he was born May 14, 1915, Col. Gay graduated from Ohio Wesleyan University in 1938 with a B. A. degree in business administration. He entered the Army May 17, 1941.

After basic training at Aberdeen Proving Ground, Md., he remained there to attend the Ordnance Officer's Candidate School receiving his commission in February, 1943.

Col. Gay spent the next three years at the Los Angeles Port of Embarkation before leaving the service in 1946. He was recalled in 1948 and was assigned to the Letterkenny Ordnance Depot, Pa. He then went to Japan in early 1949 for a three-year tour with Headquarters, Central Command, in Yokohama.

It was here that Col. Gay was awarded the Army Commendation Ribbon in 1951 for his efforts in establishing a modern, well-organized supply system.

His next assignment carried him

to Washington where he served in the office of Chief of Ordnance, first in the Management Office and later in the Industrial Division. He left the United States again in 1956 for a three-year tour with SHAPE in Fontainebleau, France, prior to coming to Redstone Arsenal in 1959.

Assigned to what was then the Army Ordnance Missile Command, Col. Gay served as Executive Officer to the Assistant Chief of Staff, Industrial Operations. In August, 1961, he was assigned to the Army Ballistic Missile Agency as Senior Weapons System Officer for rockets.

From January through October, 1962, he was Project Manager of the Littlejohn system and when Littlejohn and Honest John offices were combined he was made Commodity Manager.

John McDaniel Appointed IEEE Program Chairman

Dr. Frederick J. Tischer, Chairman of Huntsville Section of Institute of Electrical & Electronics Engineers, announced the appointment of John L. McDaniel as program chairman for the coming year.

McDaniel is Technical Director, Research and Development Directorate, Army Missile Command. He began work at the Arsenal in 1942 and has remained except for a two-year stint in the U. S. Navy.

A native Alabamian, McDaniel received his education at The State Secondary Agriculture School at Hamilton, Ala. and at Berry College in Mt Berry, Ga. where he was granted a BS in Chemistry in 1939. He taught school in LaFayette, Ga., for three years before he came to Redstone.

McDaniel's career here has been research, first as an aeronautical research engineers before he became deputy director for R & D operations for the Army Ballistic Missile Agency. He was appointed

to his present position when the Army Missile Command was activated.

McDaniel is married to the former Miss Helen Blankenship of Somerville, Ala.

Other committee chairmen appointed by Dr. Tischer are Harry Vincent, meeting; Robert E. McNabb, membership; Bob Anderson, industrial relations; Harvey Haskew, academic and student affairs; Grover Dausman, awards; Bill Hefner, telephone and Myron W. Cole, public relations.

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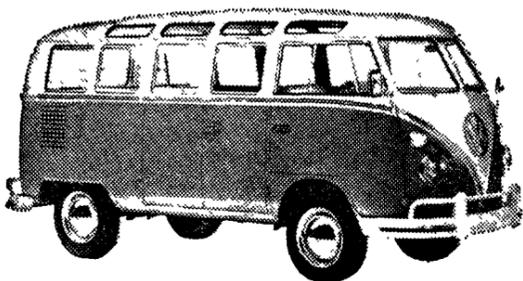
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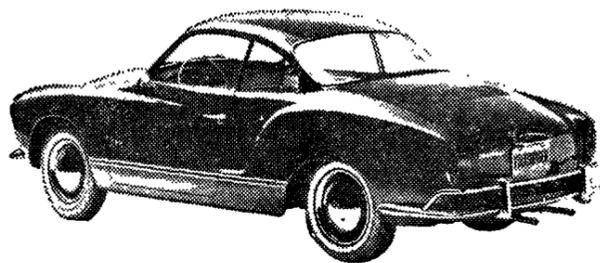
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WEDNESDAY-SATURDAY, 2-5 Sep
"How The West Was Won" (F)
Time 1:00, 5:45, and 8:30 p.m.

SUNDAY-MONDAY, 6-7 Sep
"Mannie" (M)

TUESDAY, 8 Sep
"Torpedo Bay"

Two shows nightly at 6:00 and 8:30 p.m. except as noted above. Saturday matinee at 1:00 p.m. and Sunday matinee at 2:00 p.m.

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