

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

AUGUST 26, 1959

FOUR FROM ABMA PRESENT PAPERS AT SYMPOSIUM

Four technical papers are being presented by Army Ballistic Missile Agency scientists and engineers at the Fourth Symposium on Ballistic Missiles and Space Technology this week at Los Angeles.

"A Projection of U. S. Space Flight Capabilities for the Next 15 Years," a paper prepared by H. H. Koelle, F. L. Williams and W. G. Huber of the Agency's Structures and Mechanics Laboratory, will be delivered by Koelle in a classified session. Koelle is chief of the Lab's Future Projects Design Branch.

C. L. Barker, also of the Future Projects Design Branch, will discuss a space flight simulator designed by his branch.

Dr. Rudolph F. Hoelker and Robert Silber of the ABMA Aeroballistic Lab prepared a paper titled "The Bi-elliptical Transfer Between Co-planar Circular Orbits." Silber will present the paper.

Robert Naumann of the Agency's Research Projects Laboratory will discuss "Recent Information Gained from Satellite Orientation Measurements."

Lynch Named Board Member Industrial Security Society.

James C. Lynch, chief of the Intelligence and Security Division, Redstone Arsenal, has been elected to the Board of directors for the American Society for Industrial Security, it was announced at a recent meeting.

Lynch was instrumental in forming the local chapter and its past chairman. He is a vice president of the Southeast Region.

At the same meeting new officers were installed. They are Leo A. Brookshire, chief of Plant Security at Thiokol; vice chairman Keith M. Wible of the Intelligence and Security Division, Redstone; Jack Hartehn of the same office is secretary; and Willard S. Olson, assistant security officer at Brown Engineering Co. is the treasurer.

Guest speaker at the meeting was Clarence Kelley, special agent in charge of the Birmingham Federal Bureau of Investigation office.

Work Is In Progress On Damaged Test Bay

Work is in progress this week toward restoring rocket test facilities at ARGMA's Range 5 which were damaged last Wednesday when a solid propellant development motor exploded in a test bay.

Although the explosion was confined to one test bay, several other bays, buildings and vehicles in the area were damaged by flying debris.

Three test bays adjacent to the destroyed facility will be back in operation next week, Bill Lloyd, chief of the OML Test and Evaluation Laboratory, said. The Pershing test facility, also slightly damaged, will also be available for use shortly.

There were no personal injuries.

A board of officers, appointed by Brig. Gen. J. G. Shinkle, ARGMA commander, to investigate the accident, said that the test did not involve the Nike Zeus booster. The Zeus booster has been successfully static fired several times.

RADIO OPERATORS HOLD 'HAMFEST'

About 400 amateur radio operators from the Tennessee Valley area held their annual "hamfest" at the Huntsville High School, last Sunday, and witnessed a demonstration of mobile television transmission units used at the Army Ordnance Guided Missile School to teach missile maintenance.

A demonstration of closed circuit television was given the "hams" by M-Sgt. Louis Scharnberg and Robert J. Ullrich of the OGMS television branch.

The demonstration allowed members of the Huntsville Amateur Radio Club and their guests to see themselves on live television as well as to receive instruction on methods used at the Missile School to speed space age education.

DANCE CLASSES TO BEGIN

Registration for on-post dancing classes will be conducted Friday, Aug. 28, between 2 p.m. and 5 p.m., and Sat., Aug. 29 between 10 a.m. and 2 p.m. in the lobby of the post exchange.

Miss Jackie Young of Cullman has been engaged to teach tap, ballet, acrobatic and ballroom dancing to all children of military personnel.

WELCOME TENN. VALLEY ASSN BOY SCOUTS OF AMERICA MISSILE ROUNDUP 1959



NEW PATCHES FOR SCOUTS — Col. Charles W. Eifler (left) commandant of the Ordnance Guided Missile School, shows special "missile" uniform patches to John Chessnoe, a member of Redstone Arsenal Boy Scout Troop 234. The insignia will be given to those Scouts in the Tennessee Valley Council who recruit new members during "Missile Roundup 1959". At right is Robert L. Haskins, Scout Executive from Huntsville.

Bottle Loss Must Be Stopped PX Man Says

H. S. Russ, Personnel manager for the Post Exchange Service on post, has announced that the quarterly loss from bottles carried away from vending machines at Redstone Arsenal amounts to \$1649.68.

Russ said that unless the loss decreases sharply this quarter, it may be necessary for the Post Exchange Service to install cup instead of bottle machines at approximately 200 sites where bottle machines now stand.

He said that more than 705 cases of bottles (\$647.32) worth were lost in June alone and more than 909 cases were lost in July (a money value of \$505.66).

BOY SCOUTS PLAN RECRUITING DRIVE

Representatives of the various districts in the Tennessee Valley Council, Boy Scouts of America, met at Redstone Arsenal recently to plan "Missile Roundup 1959", the annual boy scout recruiting drive in the Northern Alabama and Tennessee Valley area.

Approximately 40 district leaders and scout executives were at the Redstone Arsenal boat docks for the kickoff session which followed a steak fry.

This third annual "Missile Roundup" is headed by Col. Charles W. Eifler, Commandant of the Guided Missile School, a committee of his staff officers, and Mr. Robert L. Haskins, scout executive from Huntsville. In past years, the fall scout recruiting campaign has been planned by Redstone Arsenal Headquarters and the Army Ballistic Missile Agency.

The Tennessee Valley program is part of a nationwide effort in which the goal is to have every Boy Scout, Cub Scout or Explorer recruit at least one new member. The Ordnance Guided Missile School will give special recognition to the scouts in the Tennessee Valley Council. Those who recruit a new member will be given a "missionman" patch to wear on their uniforms, those recruiting two will receive a "missile cadet" patch and for those who add three or more to the rolls of their local troop, an "upperclassman" insignia.

The roundup starts September 1 and will culminate December 5 when the scouts and their leaders will tour the OGMS campus and see the Army missiles that are being taught there. The six scouts recruiting the largest number of new members into their local troops will be given special trophies in the form of models of the Hawk, Lacrosse, Nike-Hercules, Corporal, Redstone, and Jupiter Missiles.

The officers forming Col. Eifler's committee will start meeting with the various district representatives to initiate the program on the local level.

Write your letter now for the 1959 Freedoms Foundation Letter Writing Awards program. You may win \$1,000.

SAFETY CAMPAIGN AIMS AT DRIVER, CHILD EDUCATION

The Summer fun will be over for more than a million Alabama school children who will be returning to their desks and books for another school year. The safety of these children is in your hands.

The Redstone Arsenal Safety Division is planning to conduct a special "Back to School" safety campaign to impress upon the parents, the children, and the motorists the simple rules of good safety habits.

During the last weeks of August and the first part of September emphasis will be placed on traffic safety in a campaign concerning "Back to School" safety.

Special posters have been prepared featuring safety slogans which will be displayed not only throughout the Arsenal, but throughout the shopping areas of Huntsville and neighboring cities.

In addition to the posters, handout cards will be distributed throughout the area. These cards will be given wide distribution so as to gain as much favorable publicity as possible for the "Back to School" campaign.

Last year's safety campaign received good support and widespread coverage throughout the Huntsville area, and it is believed that this year's campaign can be even more effective.

A spokesman from the Safety Division commented, "If it were possible to buy an ounce of magic guaranteed to protect our children from accidents, parents would hasten to purchase it. There is, of course, no such magic formula, but there does exist an important ingredient which can increase your child's safety. This ingredient is careful driving.

"Naturally, we cannot prevent all highway accidents, but a great majority of the serious accidents can be prevented."

Look to the safety of our future citizens . . . "Give The Children A Brake."

GEN. HINRICH'S PRAISES TELECAST TO AUSA MEETING

The Army Ordnance Guided Missile School's closed circuit presentation to the recent convention of the Association of the U. S. Army in Washington "was one of the most outstanding presentations of the three-day meeting", Maj. Gen. J. H. Hinrichs, Chief of Ordnance, states in a letter of appreciation written to Col. Charles W. Eifler, commandant of the school.

"Over 1,500 people saw this presentation, which was twice the number that attended any of the other presentations", he declares.

"This telecast has again demonstrated the technical competence of the television staff at the Ordnance Guided Missile School to produce and transmit high quality television programs that capture the imagination of the audience; tell the Ordnance story; demonstrate the tremendous potential of large screen closed circuit television; and to write, produce and deliver programs that are specifically oriented towards the audience to be reached by the program," Gen. Hinrichs wrote.

"The reaction of the membership to the program was — a glowing tribute to the quality of the program. The combined efforts of the school personnel have resulted in great credit to the school and to the entire Ordnance Corps," he said.

Maj. Gen. J. B. Medaris, Commanding General of the Ordnance Missile Command, narrated a major portion of the program which ranged over a wide field of recent Army weapons developments and emphasized the importance to the nation of latest missile advanced scored by the Army.



VISITORS ARRIVE BY BOAT—Two Minnesota couples visited Maj. John Johnson and his family at Redstone Arsenal last week. One couple, Mr. and Mrs. Martin Strand came by boat, and the second couple, Mr. and Mrs. Randall (Terry) DiVette came by car. For the return journey, they swapped transportation. Aboard the Naiad which carried the Strand's south on the river routes are (left to right): Mrs. DiVette, Strand, DiVette, Mrs. Strand, Maj. Johnson and his son and daughter, Craig and Kathy. (See Story Inside)

The Redstone Rocket

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Editorial —

Drive With Caution Or Else - - -

BY FRANK HART
ARGMA Safety Engineer

The roar of horsepower — a blurr of colored metal and shining chrome — screaming tires against the pavement — a sickening thud — silence.

The heat from the motor distorts your vision as you sight an object lying beside the curb.

A smashed lunch box, broken crayons, torn readers and tablets — beneath your bumper, a little blue-eyed girl — flesh broken — dress torn — shoes scarred and stained.

Within the next year approximately 2500 children, between the ages of 5 and 14, will be killed. These happy, healthy youngsters will die on the streets and highways of America — a land that prides itself on its reverence for human life.

In a country noted for its pampering of the young, this prediction is something of a paradox. Each year we spend millions of dollars to fight the diseases that might bring suffering and death to our children. We, also, spend millions annually to give these children comforts and luxuries far beyond their needs. Yet, we fail to protect them against one of the most deadly hazards of modern living — the automobile.

Motorists are warned that many of them will be going to and from work at times when children, also, are on the streets and roads. All motorists are urged to reduce speed in the vicinity of schools and to be particularly cautious when making turns at intersections.

Parents and motorists are expected to accept their responsibilities in preventing death and serious injury of our youngsters. The children in the lower grades are the most defenseless group who need protection against traffic hazards.

Parents should teach their children safe "street" habits in ad-

CONGRESS OKAYS FY '60 BUDGET

Washington (AFPS)—Congress has provided an appropriations bill giving the Defense Department \$39,228,239,000 for the Fiscal Year 1960. The new budget is almost \$660 millions under the 1959 budget.

The \$39 billion-plus housekeeping budget represents an almost \$20 million cut of President Eisenhower's appropriations request for the Armed Forces.

The new defense appropriations measure includes a provision to maintain the National Guard at 400,000 men. It also provides more money for long-range missiles than requested by the President.

The bill also provides money for the start of another nuclear-powered aircraft carrier. The funds would be spent on "long lead-time" items that could be used for other purposes if plans for a nuclear-powered carrier were abandoned.

In a service-by-service breakdown, the Air Force will get \$17,472,706,000; The Navy \$11,006,503,000 and the Army \$9,375,805,000. The office of the Secretary of Defense will get \$1,373,225,000.

Congress accepted administration proposals to keep the Army at a strength of 870,000, the Air Force at 845,000 and the Navy at 630,000. The Marine Corps will get \$43,000,000 more to raise their strength from 175,000 to 200,000.

The Atlas long-range missile program will get \$85,000,000 more than the President asked in his requests. The raise was intended to reinforce Congressional recommendations that the Atlas force be maintained at 17 squadrons of ten missiles each.

vance and show them the safest route to school.

Drivers should keep a constant lookout for children. Youngsters may appear without warning. Even when children are clearly visible, their actions are unpredictable.

Drivers should decrease their speed and increase their vigilance when driving through residential neighborhoods or in the vicinity of playgrounds.

The lives of these children, slated for death on our streets and highways this year, can be saved if we Give the Children a Brake.

As the fall of the year approaches, youngsters will be packing away their swimsuits and setting aside their dolls and ball bats. Schools will be opening and books and classrooms will be on their minds.

A parent could not ignore a school zone warning sign without his/her conscience crying out "Criminal!" in his ear.

Co-Ops Earn and Learn

Elements of AOMC Have College Students on Job

Several types of training programs are carried out at the Army Ordnance Missile Command to give an educational boost in all levels of work at this Army missile center.

The programs are designed to provide a steady flow of technically and mechanically qualified personnel for guided missile and rocket development throughout the Missile Command organizations at Redstone Arsenal.

Included are graduate study for scientific and technical employes, apprentice training in mechanical skills, and undergraduate study at colleges and universities under contract to the Army, giving students an opportunity to acquire degrees or become proficient in a specific field by means of short, concentrated courses. The latter group includes both military and civilian personnel and also includes students working for post-graduate degrees.

James L. Blackburn is the training director for the Command. The two developmental elements of the Command located at this North Alabama installation, the Army Ballistic Missile Agency and the Army Rocket and Guided Missile Agency, also have training directors. The former is James F. Dowdy and the latter is William Clark. For Redstone Arsenal proper William Merchant is the training director.

One of the major facets of this training effort is the Cooperative Training Program. College students in engineering, chemistry, mathematics and physics are recruited to serve at the Missile Agency's elements while studying in classrooms on alternating quarters or semesters.

The applicants must pass a four-hour Civil Service examination for the position of "student trainee." After a quarter or semester at their chosen college, and security clearance by the FBI, accepted students report for work for a quarter or semester. Students are paired off on alternate schedules. While one is working, the other is at college.

Each youth is assigned to a laboratory or division where the work parallels his major field of study. Assignments are varied to give practical experience. Duties are above those of the technician, who works with his hands and tools, and below those of the professional scientist or engineer.

The participating schools include Alabama Polytechnic Institute, the University of Alabama, the University of Tennessee, the University of Florida, Mississippi State, Southern Methodist, Virginia Polytechnic Institute, Snead College (Boaz, Ala.) Georgia Institute of Technology, and Evansville (Ind.) College.

Students work here and attend school alternating semesters. Salaries during the work period range from \$3255 per year for a freshman to \$4040 for seniors. If a student has entered the program by his sophomore year, he can usually fulfill the Civil Service time requirement to be employed at \$5430 per year upon graduation. However, a number who have not fulfilled the time on the job requirement, serve a three month term at a lower salary rate before being advanced to the \$5430 rate.

At the Army Ballistic Missile Agency there are 94 students enrolled in the Cooperative Training program. At the Army Rocket and Guided Missile Agency there are 62, and at the Arsenal there are ten.

Mark Russell, the Army Ballis-

tic Missile Agency Co-op coordinator, observed that many of the students — particularly girls — who have worked for ABMA have held straight A averages, or very nearly. Most of the girls are mathematics majors. Miss Evelyn Deese is one of these. She is a sophomore at the Alabama Polytechnic Institute.

Miss Deese is employed in the In-Flight Evaluation Unit of the Navigation Branch in the Army Ballistic Missile Agency's Guidance and Control Laboratory where her duties were in the beginning mostly administrative. She had advanced to technical studies as her school work has progressed.

According to Miss Deese, "the Co-op program is "simply wonderful." She got into the program after taking the vocational guidance tests at Opelika (Ala.) High School at the end of her senior year. Wondering how she was going on to school, the Co-op plan was suggested to her, with work at the Army Ballistic Missile Agency fitting her aptitude for mathematics. Like many Co-ops, she has been acquiring extra school credits at the University of Alabama Huntsville Center during the evenings. Miss Deese is the daughter of Mr. and Mrs. Samuel E. Deese, 1409 Elliott Ave., Opelika.

Robert F. Martindale of Bartow, Fla., a Georgia Tech student in chemical engineering, experimented during one work quarter with a very reactive missile fuel to determine some of the things it will or will not react with.

An electrical engineering major at Alabama Polytechnic Institute, Jasper P. Weston, Jr., of East Gadsden, Ala., says that "several times I was assigned to projects in which a lot of responsibility was placed on me." That was during his first work quarter as a freshman.

"We subjected rockets to tests equivalent to the rough handling they might get in combat," says Fred Johnson of Athens, Ga., an

electrical engineering student from Georgia Tech, speaking of his second work quarter. "That includes shock, aircraft vibration, storms, salt spray, and extreme temperature conditions — tropic, arctic and high altitude."

Students are supervised closely and are advanced to positions paralleling their own increasing academic progress and inherent ability. Accepted students are given a career-conditional civil service appointment.

It takes between five and six years for a Co-op student to get his coveted degree. But by combining practice with theory, he is earning while learning and is advancing in his profession. He is better able to assume full professional job responsibility immediately upon graduation.

And what do the educational institutions think of this program?

Typical, perhaps, is the comment of Dr. Paul Weber, acting president of Georgia Tech. He said the program "has made a definite contribution to the high standards of performance of our students." He called attention to the valuable experience gained on the job and the two years of Federal Civil Service seniority gained while attending college.

Dr. Eric Rodgers, head of the Department of Physics at the University of Alabama, said, "Our students who are participating in this program are quite enthusiastic about it, and their interest is spreading to other students. I expect to see a growing interest in this program."

To some of the students, the Co-op program is the sole means of getting a college education. Michael Keesey is an aeronautical engineering major from VPI employed in the Ordnance Missile Laboratory of ARGMA. He says: "My parents weren't able to send me to college, and until I learned about the Co-op plan, I was planning to join the armed forces after high school."

He first heard of the program through a representative of the

(Continued on Page 3)

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Co-Op Students

(Continued from Page 2)



DEPARTMENT STORE DOLL—Sharpley Sandy Collins displays the form that won her the title of "America's Prettiest Department Store Model." The 20-year-old blonde models at Hess Bros. in Allentown, Pa.



"FARRIS, YOU'RE GONNA HAVE TO SHAPE UP...OR ...ON SECOND THOUGHT, LET'S JUST FORGET IT!"

Martin Co., airplane and missile manufacturer. At present his pay as a Co-op defrays the cost of college — and he is building a savings account from money received from a Huntsville dance band with which he plays.

Most of the students report little difficulty resuming study upon returning to school. "It's not at all like becoming a first quarter freshman all over again," reports John Gresham, aeronautical engineering junior at API, who works at ARGMA. "I pick up very easily where I left off the previous term."

Supervisors, likewise, are enthusiastic. William P. Lloyd, chief of the test and evaluation branch of ARGMA's Rocket Development Laboratories, had this to say:

"I am a firm believer in the co-op program—it's excellent. It is not only a grand opportunity for the student, the participating government agency or industry profits to a great degree. Our Co-ops pull their own weight, and our supervisors are crying for them. They ask for more than we can supply."

"Generally, the Co-ops are very enthusiastic toward the training, and they have little or no trouble acclimating themselves. We try to give them plenty of variety by letting them rotate between test range and office work."

Says Dr. Walter Wharton, a chemist in the ARGMA Research Laboratory. "We do basic research here, and one might think that a student trainee would be of little help. To the contrary, they make very good technical aides. Most of our co-ops have displayed fine initiative. We are pleased with their work, and they have helped our program considerably."

William Clark, ARGMA training director, hails the Co-op program as "the most desirable training program sponsored by the government. I certainly would like to see a considerable increase in the program."

The ABMA director, James F. Dowdy, is equally enthusiastic. The professional scientist or engineer benefits, he said, by being able to devote his time to more important work while student trainees handle sub-professional work. "And of course the student benefits immeasurably for working shoulder-to-shoulder with experts in his chosen professional field."

He pointed out that Co-ops furnish a continuing source for recruiting full-time personnel. Many of the students continue in the same jobs on a full-time basis following graduation.

WANTADS CARRY BARGAINS



CHARACTER GUIDANCE PLAQUES—Two units at the Ordnance Guided Missile School, Headquarters School Troops and Headquarters and Headquarters Det. A, and the Medical Detachment of the U. S. Army Hospital were awarded character guidance plaques in that order by the post commander, Col. O. T. McCloskey. The category for awarding the plaques is based on the number of troops as well as military department. During the ceremony in which commanders of all three categories were present Col. McCloskey (right) hands Medic's placque to the company commander, Capt. Gilberto Cardenas-Lartigue while the post surgeon, Col. Harry C. McClain, looks on.

Charley Noble



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Social News

Madison Pike PTA Will Hold Meeting

The Parent-Teacher's Association of the Madison Pike Elementary School will hold its first meeting at 7:30 p.m. on Tuesday, Sept. 8 at the school located on West Bob Wallace Avenue.

Will Mickle, the editor of The Huntsville Times, will address the meeting on the subject of the "Needs and Goals of Education in Huntsville."

The devotional will be delivered by Reverend Edsel L. Keith, Vicar of St. Thomas' Episcopal Church. Mr. L. B. Morris, principal of the school, will present the staff and faculty of the school to the parents.

Members of Cub Scout Pack 309, which is sponsored by the Madison Pike Parent-Teacher's Association, will present the colors.

The presence of parents of all children attending the Madison Pike school is urged at this meeting. Room count and the award of prizes for attendance will be made.

Officers of the Madison Pike Parent-Teacher's Association for 1959-1960 are: president, Lt. Col. Morton S. Jaffe, Command Staff Judge Advocate, U.S. Army Ordnance Missile Command; first vice president, L. Col. Nathan I. Reiter, Jr., chief, Operating Services Office, Army Ballistic Missile Agency; second vice president, M-Sgt. Louis Scharnberg, television section, U. S. Army Ordnance Guided Missile School; secretary, Mr. Alex S. Keith, Jr., 2437 Crestwood Drive, S.E.; and treasurer, Mrs. Oliver D. Street, III, 228-A Niblo Drive, Redstone Arsenal.

OGMS Families Picnic at Redstone Arsenal

More than 200 staff members of the Surface-to-Air Division of the Ordnance Guided Missile School and their families attended the division's annual outing at the Redstone Arsenal picnic area last Saturday.

While "oldsters" played volleyball, their small fry competed for prizes in a variety of more strenuous sports. Lt. Col. Ward T. Gilbert, division chief, said it was the largest of six such events held in the past.

Spacespader Garden Club Holds Meeting

The Spacespader Garden Club at Redstone Arsenal met last week at the home of Mrs. L. C. White on Nike Street.

The club has been invited to join the Federated Garden Clubs of Madison County. Members also received an invitation to the flower show planned by the Dig 'N' Dream Garden Club.

The treasurer, Mrs. David Timberlake, presented her resignation since her husband is transferred to California. Mrs. Frank Sandoval was elected to fulfill the duties of treasurer.

The discussion period was devoted to the care and planting of bulbs for Spring blooms. Mrs. C. A. Ledford lead the discussion.

The club plans to start bi-monthly meetings in September which will continue until Spring. In September only, the meetings will be held the second and fourth Mondays. All other months, the meetings are scheduled the first and third Mondays.

Hostess for the next meeting will be Mrs. C. A. Coffman. The date is Sept. 14, and the time 7:30 p.m.

The club is extending an invitation to new members. Those interested may call Mrs. Coffman at Arsenal ext. 8864.

Wives Group Bridge Winners Are Named

Mrs. J. T. Bull took top honors in party bridge competition held by the Redstone Arsenal Officers Wives Club Thursday morning at the Squirrel Hill Officers Club.

Other winners included Mrs. R. L. Nidever, second, and Mrs. R. H. Bassett, low.

The party bridge group meets weekly on Thursday mornings. All members of the Wives Club are invited to participate. To make reservations for this week's competition, call Mrs. J. T. Smith, JE 9-1883.

PARTY BRIDGE WINNERS NAMED

Four tables of party bridge were in play Monday night, Aug. 17, at the Redstone Arsenal Officers Club, with Mrs. L. H. Whitehead taking high among the ladies, and Capt. H. L. Car-

At the Service Club

DRAMATICS: "Rendezvous In Rhythm," a light musical comedy, is the name of the production to be presented by the Show Production Group. Rehearsals began Aug 19 in the Social Room of the Post Chapel.

TOUR: Make reservations now for the Tour of Birmingham on Aug. 29. The buses will depart from the Service Club at 1800 hours. The Birmingham girls will be hostesses at the YMCA dance at 2000 hours.

Preview of September tours: Sept. 13 a tour has been scheduled to Rickwood Caverns; Sept. 19 tour of Birmingham; and Sept. 26 Shiloh National Park. Reservation sheets are now available in the Service Club office.

TOURNAMENTS: First place winner in this month's pool tournament was Pvt. John Allo; second place winner was Sgt. Andrew, NATO. Sept. 17 is the scheduled date for next month's tournament. New participants are welcomed each month.

Pinochle enthusiasts will assemble in the Game Room Thursday night Aug. 27 at 1800 hours for their competitive play off. Join in the fun Thursday night, enjoy the refreshments, and compete for the fabulous prize.

DANCES: The next scheduled dance is a Birthday Dance on Aug. 30. The Huntsville Junior Hostesses will be guests for the dance. Your favorite dance records will be played throughout the evening for dancing.

Sept. 10 is the first scheduled dance for next month. The orchestra will be announced soon.

DANCE CLASSES: The fox trot and cha cha dance classes will begin on Sept. 16 at 1930 and 2030 hours. If you have not already signed up for these classes do so soon.

The Friday night cha-cha-cha class is progressing nicely with the basic steps. This class will be completed on Sept. 11.

MOVIES: "Big Country — Big Fish" is the movie for Thursday Aug. 27 at 1800 hours. All fishing enthusiasts will no doubt enjoy this movie. We have enjoyed several excellent movies during the past month, such as: "Design for Life", "Speedbird to Sunrise", "A Nation's Meat", "Time

michael, Jr., in first place among the men.

Other winners included Mrs. H. L. Carmichael, Jr., second; Mrs. R. H. Granger, low; L. H. Whitehead, second, and Major J. B. Clift, low.

Capt. and Mrs. H. L. Carmichael, Jr., were hosts for the evening.

for tomorrow", and "Colombia, Land of Contrasts."

The following movies have been scheduled for September: Sept. 1 "Desert Horizons" and "Mr. Webster Takes Stock"; Sept. 8, "Innocents Abroad" and "Even for one." Plan to see the movies in the TV room at the Service Club at 1830 hours on the designated nights.

SPECIAL: Don't forget to watch Ed Sullivan's TV Show Sunday Aug. 30 at 2000 hours.

The 1959 All Army entertainment contest finalists will be featured on the show. The Service Club TV room will be reserved for this show, so join us for an hour of top Army entertainment.

OUTINGS: A swimming party and weiner roast is scheduled for Sept. 5 at the post swimming pool at 1700 hours. Make reservations now for this event.

Barbecued chicken will be on the patio party menu on September 7 at 1730 hours. Make reservations today for the patio party. Bingo will follow the party.

ARCHERY AND BADMINTON CLASSES: For the novice in archery a class has been scheduled in September so that you can become a successful archer and following the series of classes a tournament will be set up. Only a limited number can be accommodated in each class so make reservations for the class soon.

An instruction period has also been scheduled for badminton on Sept. 4. If you would like to improve your badminton, or if you would like to learn the game make reservation today. A practice period will be scheduled to follow each badminton class.

COFFEE CALL: Coffee call is

Thiokol Employees Picnic in Optimist Park on Saturday

More than four thousand Thiokol employees with their families enjoyed an employees' picnic at Optimist Park on Saturday, Aug. 22.

During the afternoon old fashioned picnic games were played in keeping with the overall theme, "The Old Fashioned Country Picnic." These included chasing a greased pig, climbing the greased pole, sack races, and volley ball for the adults. For the youngsters there were pony rides and hunting money hidden in a sawdust pile. Trophies were awarded the winners and a barbecue supper was served at 5 p.m.

Winners of attendance prizes were Ed Liggin, \$100 savings bond; and Don Wilson, a vacuum cleaner.

THESPIANS TO MEET

A special meeting of the Huntsville Little Theatre has been called for tomorrow at 7:30 p.m., at the Fifth Avenue School in Huntsville.

The meeting will kick off the season ticket and advertising drives of the group for the coming Tenth Anniversary Season.

Also scheduled for the meeting will be the election of a treasurer, required because of the resignation of the person previously serving in this office.

All members are requested to attend. Refreshments will be served.

scheduled every Sunday morning at 0900 hours.

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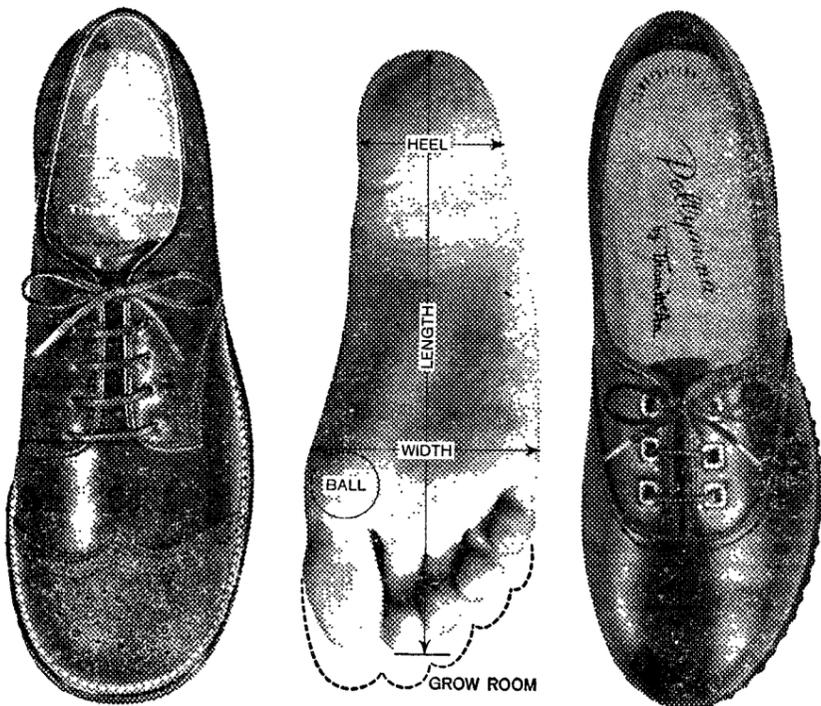
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Alan LeMay Receives Masters Degree

Alan R. LeMay, Thiokol Chemical Corporation - Redstone Division received his Masters degree in Mathematics from the University of Alabama on Aug. 21.

LeMay began work toward his Masters in 1953 and completed 40 hours, 10 more than the required minimum. Residence work at the University in Tuscaloosa included two five-week sessions during the summers of '57 and '58, and one semester in 1953. The remainder of his work toward the degree was done in the graduate study program conducted by the University of Alabama at Redstone Arsenal.

LeMay has been with Thiokol's Redstone Division since February, 1954. He is now a member of the Engineering Department. He lives at Route 3, Hartselle, Ala.

Notify With A Wanted

FIFTH CHAMPION OF LIBERTY
—The late Ernst Reuter, courageous Mayor of Berlin from 1948 to 1953, will be recognized in the latest of a new series of American stamps honoring "Champions of Liberty."



RESERVES ON DUTY — The 448th U. S. Army Reserve Ordnance Company of Winston-Salem has been on active duty training at the U. S. Army Ordnance Guided Missile School. The 448th is the only missile reserve unit in the Third Army area; it is largely composed of contractor employees involved in the Army Nike programs. Seen with the Nike-Hercules air defense missile area (foreground) WO R. M. Stoltz, (left to right) 1/Lt. William T. Cook, WO S. M. Tillman, 1/Lt. Richard L. Salmon, Lt. Douglas L. Faley.



Young man — Would you advise me to-er-marry a beautiful girl or a sensible girl?
Minister — I'm afraid you'll never be able to marry either, old man.
Young Man — Why not?
Minister — Well, a beautiful girl could do better, and a sensible girl would know better.

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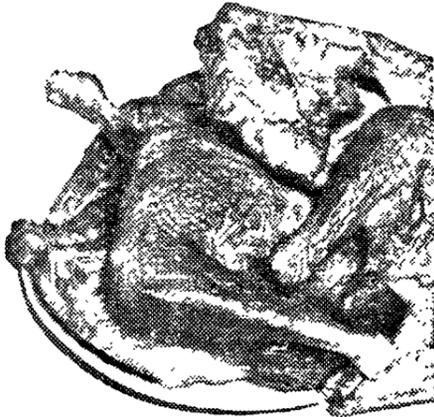
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TWO EGGS (Any Style) with HAM, BACON, or SAUSAGE BUTTER TOAST & JELLY

No. 3 — 37c

ONE EGG, (Any Style) with HAM, BACON, or SAUSAGE BUTTER TOAST & JELLY

No. 4 — 37c

ONE EGG (Any Style) BUTTER TOAST & JELLY with Chilled ORANGE JUICE, GRAPEFRUIT JUICE or TOMATO JUICE

Try Our Golden Brown Waffle

With BUTTER AND HOMEMADE SYRUP
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Golden Brown Waffle

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Fried to a Golden Brown with French Fried Potatoes, Salad and Hot Buttered Rolls
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TRY OUR

Pure Meat Hamburger Steak

with Salad, F. F. Potatoes and Hot Buttered Rolls.
70c

Veal Cutlets

Fried Golden Brown, Salad, F. F. Potatoes and Hot Buttered Rolls.

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TRY OUR

Special Chuck Wagon Steak

With Salad, F. F. Potatoes and Hot Buttered Rolls.

90c

Hickory Smoked Bar-B-Q Plate

With Cole Slaw, Potato Chips or F. F. Potatoes.

1.25

Sandwiches

PURE MEAT HAMBURGER	12c
DOUBLE SIZE	22c
CHEESEBURGER	20c
SNO-WHITE SPECIAL	45c
CHOP STEAK SANDWICH	45c
HAM, LETTUCE & TOMATO	30c
HAM - Plain	25c
EGG	22c
HAM & EGG COMBINATION	37c
HAM & CHEESE	37c
HAM & CHEESE CLUB	55c
BACON & TOMATO	35c
HOT DOG	15c
PIT BAR-B-Q	35c
TOAST & GRILLED CHEESE	20c
CHICKEN SALAD SANDWICH	35c

Home Made Pies

(Made Daily)

Per Slice	20c
Whole Pie	1.00

Beverages

Coffee	10c	Coke	10c-15c
Ice Cold Milk ..	12c	Orange	10c-15c
Chocolate Milk ..	12c	Grape	10c-15c
Tea	10c	Hot Chocolate ..	10c

Milkshakes

Chocolate, Vanilla or Strawberry	30c
MALTS	35c
SALAD BOWL	50c

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RECEIVES COMMENDATION RIBBON — SP5 Allan W. Lieser (center), a member of the Legal Assistance Office for the Army Ordnance Missile Command, receives a Commendation Ribbon with Metal Pendant for the service and skill he displayed working in the legal assistance program while stationed at Redstone Arsenal. Brig. Gen. J. M. Colby, deputy commander of AOMC, pins the medal on Lieser while Mrs. Lieser witnesses the ceremony. Lieser is a member of the Wisconsin Bar.

Examiners Announce Openings in Four Different Fields

The U. S. Civil Service Board of Examiners have issued four new announcements. Announcement No. 5-35-23(50) covers telephone installer and repairer at W-9 (\$2.41 per hour) and W-11 (\$2.72 p. h.); and telephone lineman at W-8 (\$2.26 p. h.) and W-10 (\$2.57 p. h.)

is for guided missile mechanical installer repairer and grades run from W-5 (\$1.81 p. h.) to W-12 (\$2.87 p. h.). Announcement No. 5-35-25(59) is for construction estimator at GS-7 (\$4980 per annum). Announcement No. 5-35-26(59) calls for warehouseman at W-5 and W-6 (\$1.96 p. h.). On an amendment, Announcement No. 5-35-2(58) closes at the close of business Aug. 28. This announcement was issued for electronics training instructor at GS-5 (\$4040 p. a.).



ESCORT WANTED — European glamour girl Laya Raki gets se or an evening on the town. The only thing lacking is an escort.

Max Rubin, Thiokol Transfers to Utah

Max Rubin, chief of the Rocket Engineering Department of Thiokol Chemical Corporation, Redstone Division, will transfer to Thiokol's Utah Division on Sept. 1. He will head the Quality Control Group at the Utah Division. A graduate in chemical engineering from the University of Maine, Rubin has made additional graduate study in applied mechanics and also attended the School of Engineering at Oxford University, England.

Instructors Attend Signal Conference

Six officers from the Ordnance Guided Missile School were among the more than 100 key Signal Corps personnel from every part of the United States attending the fifth annual Signal Instructors Conference last week at Fort Monmouth's U. S. Army Signal School. Lt. Col. Bernard A. Ferry, OGMS Signal Liaison Officer; Major Randolph G. Cooper; Captains John R. Foley, Edward A. Fites, Eugene Menning; and 1st Lt. Fred W. Kurdziolek, all members of the OGMS Signal Corps

staff; participated in symposiums, panel discussions, and individual presentations of new Army Signal Corps equipment. Indication of future trends, and ideas for better techniques of instruction were studied. The keynote address of the conference was given by Col. Wayne P. Litz, Signal Officer of the Continental Army Command, who spoke on "Concepts of Signal organizations, operations, and training." He (smoking a cigarette)— Shall I blow you a ring? She—You can blow me to one. A man of words and not of deeds Is like a garden full of weeds.



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 Thursday, Aug. 27

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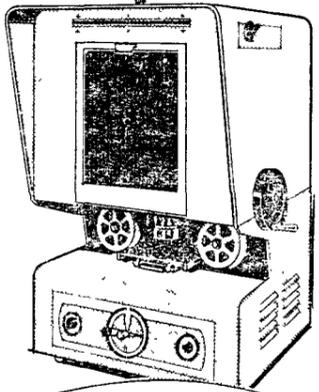
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LLOYD J. COX

Lloyd J. Cox Is Chosen Safe Worker

Lloyd J. Cox, truck driver for the storage branch, consolidated Supply, is the Safe Worker of the Week.

Cox was nominated by his supervisor and selected by the Redstone Safety Division. Lloyd's supervisors say they nominated him because of his willingness to conform with all safety rules and being a dependable workman.

Cox says he follows the safety rules and when he runs into something he does not understand, he asks questions. His safety practices do not stop when he punches his card in the afternoon. Cox drives about 70 miles each day to and from work, and says he tries to watch his driving habits. He is a firm believer in courtesy. He believes it is just as painful to be injured off the job



HARRY D. PALMER

Palmer Named Safe Supervisor of Week

Harry D. Palmer, maintenance foreman, maintenance branch, logistics Division, OGMS, is the Safe Supervisor of the Week. He was nominated by his supervisor and was selected by the Redstone Safety Division.

The Safe Supervisor of the Week has worked more than 20 years without a disabling injury to himself or anyone under his supervision. His work has been

as on the job.

The Safe Worker was born at Lexington, Ala. He attended high school at Lexington and soon after graduating he entered the Army for four years. Most of this time was in Germany with the artillery. He was discharged from the Army early last year and employed by Redstone soon afterward.

The Safe Worker is single and makes his home in Lexington. He spends his spare time watching competitive sports, live and on television.

Safety Scoreboard

(As of 24 August)

Days since last civilian disabling injury	22
Our goal	30
Days since last military disabling injury	18
Our goal	30
Days since last contractor personnel disabling injury	10
Our goal	50
Days since last government motor vehicle accident	7
Our goal	30

DRIVING RECORD (Government Vehicles)

(As of 22 August)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	10	27
Post Engineer Div. (RSA)	12	11
Provost Marshal Div. (RSA)	15	7
Depot Operations (RSA)	13	30
All Other RSA	6	27
Thiokol (ARGMA)	8	9
All Other ARGMA	4	62
OGMS	11	27
ABMA	6	13

with electronics, hydraulics, and mechanical.

Palmer says he attained this record by doing the job according to instructions from the manufacturer and his supervisors. He said he learned to respect the death dealing power of electricity. Power which gives no room for chance.

Palmer spent 20 years in military service; ten each in the navy and army. He retired from military service while at OGMS, and went to work at his same job as a civilian.

The Safe Supervisor was born in Philadelphia, Penn. He and his family live at 7216 Chadwell Road, Huntsville.

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—“These are not dark days; these are great days—the greatest days our country has ever lived; and we must all thank God that we have been allowed, each of us according to our stations, to play a part in making these days memorable in the history of our race.”

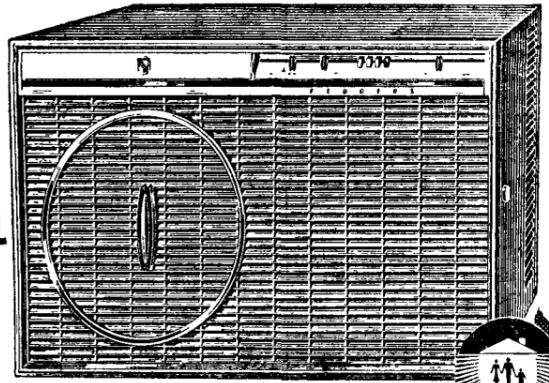
—Sir Winston Churchill

What Churchill says for his countrymen finds an echo in Americans, especially Americans serving their country. The days of knights in armor are long past, but the Crusader's spirit in free men lives on.

“My Job: Protecting America's Freedoms.” That's the theme of this year's Letter Writing Awards Contest.” Getting your ideas on paper in not more than 500 words and in the mail by Nov. 1 could bring you a check for as much as \$1,000 or any one of 100 other cash awards.

The address: Freedoms Foundation, Valley Forge, Pa. Write right now!

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SPORTS

Small-Bore Riflemen Win 21 Trophies at Camp Perry

The Redstone Arsenal Small-bore Rifle team returned from Camp Perry, Ohio recently with 21 awards from national competition. The team shot in 19 matches and were credited with two earlier team scores.

The small-bore team is comprised of CWO John W. Mann, Jr., PFC Robert R. Ackley, Jr., PFC Leigh Anderson, all of the Ordnance Guided Missile School, and PFC Paul S. Birman, Det. A, Army Rocket and Guided Missile Agency.

Competition included representatives from all of the services, among them the U. S. Army Blue team; the U. S. Marine Corps, the Strategic Air Command, Gold; the U. S. Coast Guard Academy; the U. S. Air Force; the Second U. S. Army; the Alaskan Air Command; Vandenberg AFB; and Holloman AFB.

Some of the civilian teams who fired in the matches were the Western Wildcats, Colorado State, Greenbelt Gun Club, and others. Altogether 43 teams were on the firing line during the five days, and 587 individual matches were fired.

Shortly before the Ohio trip, Birman of the Redstone team broke his foot. However, it didn't interfere with his marksmanship nor with the training classes for rifle marksmanship instructors conducted by instructors from Ft. Benning. For these the men used the M-1 rifle on the National match course.

Places won by the local men with iron sights included Birman first and Anderson fourth on a 50 yard course match; Mann was first and Ackley second on a 100-yard match; on the dewar course Mann was first, Anderson second and Birman fourth.

Birman took third place in an-

Mrs. Dasche Wins With Low Net Score

Mrs. Jay Dasche won top honors in competition for low net score held last Wednesday morning by the Golf Group of the Redstone Arsenal Officers Wives Club.

On the same morning, about a dozen golfers from the group participated in an invitational golf tournament at Decatur, where Mrs. Charles Payne won the first flight and Mrs. J. G. Zierdt was runner-up in the seventh. There were 10 flights in the tournament with about 115 golfers from the area participating. Mrs. Payne and Mrs. Zierdt received silver trophies. In addition, Mrs. S. C. Holmes won one of the tournament door prizes, a golf glove.

This week the golf group is holding a Flag Tournament, in which the golfers will add handicap to par and plant a flag when they have used up their strokes. The golf group meets weekly on Wednesday mornings at the Arsenal Golf Course. Tee-off is between 8 and 9 a.m. All members of the Wives Club are invited to participate.

other 50 yard match and Anderson placed his second on a 50 meter course.

In another match Birman placed fourth at 100 yards, and Anderson placed second on a 50 meter course.

In the iron sight aggregate second and third places were taken by Anderson and Birman respectively.

In the any sight matches Ackley took second and Mann third at 100 yards. In another 100 yard match Anderson placed third.

At 50 yards Ackley and Birman placed second and third. At fifty meters in still another match, Birman placed fourth.

With any sight on the dewar course Ackley was first. Anderson took second place in the grand aggregate in one of the early matches.

THE STARS AND BARS

The Stars and Bars was designed for the Confederacy by Nicola Marschall, a Prussian teacher at Judson College in Marion, Ala.



"B" DETACHMENT WINS—Winners of the 1959 company level baseball league are the men from "B" Detachment of the Ordnance Guided Missile School. The season's last game was last Thursday night. The post commander, Col. O. T. McCloskey, presented the trophy to the winners, and the special services officer, Maj. Oscar Huffnagel, introduced the All-Star team which will represent Redstone at the Third Army tournament. The company level winners above are (front row, left to right): Carl Gellis, Ewell Collins, Richard Kennedy, John Edwards, Harry Bobbitt, John Andre and James Varga. In the second row are (left to right): Larry Buschow, Bob Champigny, Robert Parker, Barry Snyder, Wade Burdick, Edward Schults, and James Swenney. In the third row (left to right): are Thomas McCusker (coach), Paul McQuenney, Kenneth Hunsicker, Marlin Vallen, Mickael Kronschabel, Donald Beech, Lloyd Ahlbrand, Thomas Grego, Robert Kinvin, Minos Campbell (manager).

COMPANY LEVEL BASEBALL TOURNAMENT ENDS; WINNER PICKED

The Ordnance Guided Missile School "B" Detachment took top place in the 1959 company level baseball league and received a team trophy, presented by the Redstone Arsenal commander, Col. Owen T. McCloskey at the final game of the season last Thursday night.

Two other teams were supplied from the school, "A" Detachment fielded a team and Headquarters Detachment for the Unit Training Center fielded a team.

"B" Detachment had 16 wins and five losses. "A" Detachment won 15 and lost six.

Team standings follow:

FINAL STANDINGS

	Wins	Losses
"B" Det OGMS	16	5
"A" Det OGMS	15	6
"B" Det ABMA	9	10
Hq Det USAG	8	14
M & I OGMS	8	15
Hq Det UTC	5	13

Sgt. Minos Campbell and PFC Elliott Ryan, team managers of "B" and "A" accepted the trophies for their respective teams. Honorary guests at the ceremony were Col. E. W. Ewbank, Lt. Col. C. E. Cason, and Capt. Watts, "B" Detachment commanding officer and Capt. Blackwell, "A" Detachment commanding officer.

Maj. Oscar Huffnagel, Special Services Officer, introduced the Redstone All-Star Baseball team which was selected by coaches and officials of the Redstone Unit level baseball league as the best players participating this season. The team will represent Red-

stone at the 1959 Third Army Baseball tournament at Ft. Benning Sept. 7-14.

Following is the All-Star lineup:

Pfc. John Rian, 1st base, "B" Det ABMA, .311.

Pfc. John Andre, 2d Base, "B" Det., OGMS, .319.

Sp4 Donald Coston, 3rd Base, Hq. Det., USAG, .295.

Pfc. Mike Kalafsky, Shortstop, "A" Det OGMS, .301.

Sgt. Larry Buchow, L. Field, "B" Det OGMS, .409.

Lt. Edward Buckbee, C. Field, Hq. Det USAG, .319.

Sp4 Wm. Hatfield, R. Field, "A" Det OGMS, .210.

Sp4 John Swiech, Catcher, Hq Det USAG, .377.

Pfc. Kenneth Hunsicker, Pitcher, (Won 6, Lost 1) "B" Det OGMS, .181.

Utility Infielders: Pfc. Pete Matienzo, Shortstop, "B" Det OGMS, .302.

Pfc. Jim Schupp, 2d Base, "B" Det ABMA, .299.

Pfc. Robert Parker, 1st Base, "B" Det OGMS, .288.

Pfc. Anthony Massaman, Catcher, "A" Det OGMS, .280.

Utility Outfielders: Pfc. Robert Harvey, R. Field, Hq Det USAG, .310.

Pfc. Donald Crocitto, L. Field, Hq Det UTC, .295.

Pfc. Wm. Fagan, C. Field, "A" Det OGMS, .290.

Pitchers: Pfc. George Cialino, Hq Det UTC, (3-4).

Pfc. John Routine, "A" Det OGMS, (6-2).

Pfc. Billy Whitaker, "B" Det OGMS, (5-1).

Lt. John Weiss, M&I OGMS, (4-2).

Pfc. Dino Del Rio, "B" Det, ABMA (6-3).

Outfield coach, Pfc. Elliott Ryan, "A" Det OGMS.

Infield Coach, Sp4 John Swiech, Hq Det USAG.

Pitching Coach & Manager, Sgt. Minos Campbell, "B" Det OGMS.

A Special Services spokesman said, "all teams which played in the RSA Baseball League should be congratulated on making this league a successful sports program. This was the first season for a unit level baseball league, and it was only through the initiative, perseverance, and sportsmanship of the individual players, and the cooperation and support of the Company Commanders and team managers that it was successful and enjoyable. The Special Services Division would like to express its appreciation to all players and supporters for their participation, attendance at the games, and sportsmanship."

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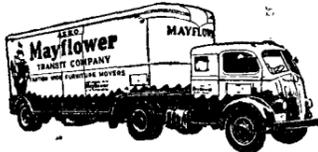
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Religious Services

POST CHAPEL — Bldg. 3714 PROTESTANT
 Sunday — 0945 hours, Sunday School, 1st Session 4th grade through Senior High.
 1000 hours — Adult Bible Class in Library of Service Club.
 1100 hours — Sunday School 2nd Session — 3 yrs. of age through 3rd grade.
 1100 hours — Morning Worship The nursery for babies and small children is open during this service.
 Tuesday—1830 hours, EMCU.
 Wednesday — 1845 hours — Chancel Choir rehearsal.
RSA PARK — Sunday, 0945 hours — Sunday school classes.
 Morning worship — 1100 hours.
JEWISH — Temple B'Nai Shalom (corner of East Clinton and Lincoln).
 Friday — 2000 hours — Regular service. O'Neg Shabbot (Sabbath Social) at Temple Annex.
CHRISTIAN SCIENCE SERVICES
 Sunday — 1100 hours — Held in Huntsville at White St. and Wells Ave. Wednesday evening meetings are held at 1930 hours.
CATHOLIC
 Sunday — 0745, 0845 and 1230 hours — MASS.
 Monday — 2000 hours — Inquiry Class.
 Tuesday — 1930 hours — Novena in Honor of Miraculous Medal.
 Wednesday — 1700 hours — Daily Mass 1930 hours — Choir Rehearsal.
 Thursday — 1830 hours — Altar Boys' Class.
 Saturday — 1800-1900 hours — Confessions.
 Daily Mass: (except Wed.) 1130 hours.

Members of the Armed Forces are urged to enter the 1959 Freedoms Foundation Letter Writing Award program.

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 Monday thru Friday 0900-2200
 Saturday and Holidays 1000-2200
 Sunday - 1200-2200

CRAFTS SHOP OPERATING HOURS
 Monday thru Friday 1000-2200
 Saturday and Holidays 0800-1630
 Sunday - Closed

RSA BOWLING LANES OPERATING HOURS
 Monday thru Saturday 1200-2200
 Sunday and Holidays — 1300-2100.

POST GYMNASIUM
 Monday, Wednesday, and Friday, the Gym is open from 1800 to 2100 hours. Gym facilities will be available for group usage on a reservation basis by contacting the Sports Office, ext. 2943.

GOLF COURSE OPERATING HOURS
 Saturday, Sunday and Holidays 0730 until dark.
 All other days — 0800 until dark.

SWIMMING POOL OPERATING HOURS
 Monday through Saturday 1000-

Movie Schedule

Wednesday, Aug. 26, "Surrender-Hell" starring Keith Andes and Susan Cabot. Time 1315, 1745 and 1945.
 Thursday and Friday, Aug. 27 and 28, "The Devil's Disciple" starring Kirk Douglas and Burt Lancaster. Time 1315, 1745 and 1945.
 Saturday, Aug. 29, SPECIAL MATINEE, "Escape From Red Rock" starring Brian Donlevy and Eilene Janssen. Time 1000.
 Saturday, Aug. 29, "Paratroop Command" starring Richard Bakalyan, Jack Hogan, Jimmy Murphy, and Ken Lynch. Time 1745 and 1945.
 Sunday and Monday, Aug. 30 and 31, "It Started With a Kiss" starring Glenn Ford, Debbie Reynolds and Eva Gabor. Time Sunday 1400, 1745 and 1945; Time Monday 1315, 1745 and 1945.
 Tuesday, Sept. 1, "Imitation of Life" starring Lana Turner and John Gavin. Time 1745 and 1945. No Matinee.

BOWLERS GET SET FOR SEPT. 10

The Redstone Arsenal Bowling League begins its competition at 8:30 p.m., on Thursday, Sept. 10 at the Playmore Bowling Lanes near Bob Wallace off the Parkway.
 Fourteen lanes have been reserved for the league. Vacancies are still open on some teams.
 Arsenal personnel who plan to bowl in this league during the coming season should be there the first scheduled night to line up the teams, and to insure reservation of lanes, as well as to elect officers.
 People to contact for further information are: William H. Klieber, the Fire Marshal at Ext. 5533, O. L. Fain, ext. 2420; S. F. C. C. M. Cahoon, Ext. 3186; John Sanders, ext. 4517; Gene Hughes, ext. 3644; W. E. Arthur, ext. 5993; Pvt. R. M. Soha, ext. 2577; A. D. Anderson, ext. 2236; C. J. Farrel, ext. 3340; Jim France, ext. 3512; or Phil Hugel, ext. 3946.

Lt. FREYDER PROMOTED

Lt. James G. Freyder received a Regular Army appointment in a ceremony performed by Brig. Gen. J. G. Shinkle, commander of the Army Rocket and Guided Missile Agency.
 Lt. Freyder, a 1956 mechanical engineering graduate of the University of Illinois, is a project officer with the Agency's Control Office.

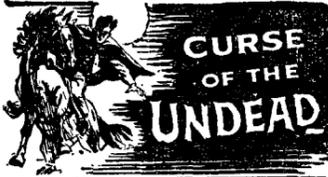
2000.
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SATURDAY



STARTS SUNDAY



SPORTS QUIZ

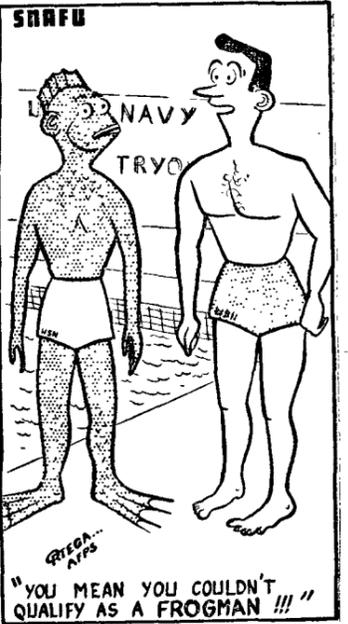
- Who was voted the American League's 'MVP' in 1958?
- What state was Joe Louis born in?
- Name the only fighter to defeat Floyd Patterson in a pro bout.
- Who was the only major league player to pitch a no-hit game in 1958?
- What driver holds the Indianapolis Speedway 500-mile record?

(Answers to Quiz)

- Jackie Jensen. Boston.
- Lexington, Ala., May 13, 1914.
- Joey Maxim, June 7, 1954.
- Hoyt Wilhelm of Baltimore, with a 1-0 victory over the Yankees.
- Sam Hanks in 1957, with 135.601 m.p.h.

A lawyer, whose sparkling eloquence had won an acquittal for his client, was anxious to learn the truth.

Lawyer — Now, Cactus, you can confide in me. Did you really steal that horse you were accus-

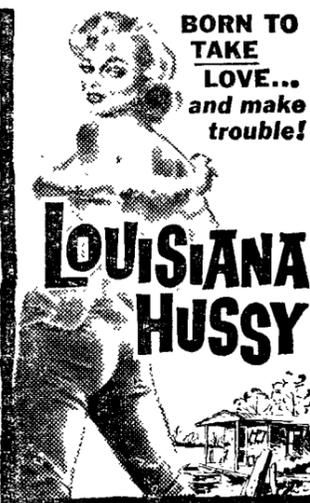


ed of stealing?
 Cactus — No, sir, I thought I had, but your speech to the jury convinced even me.

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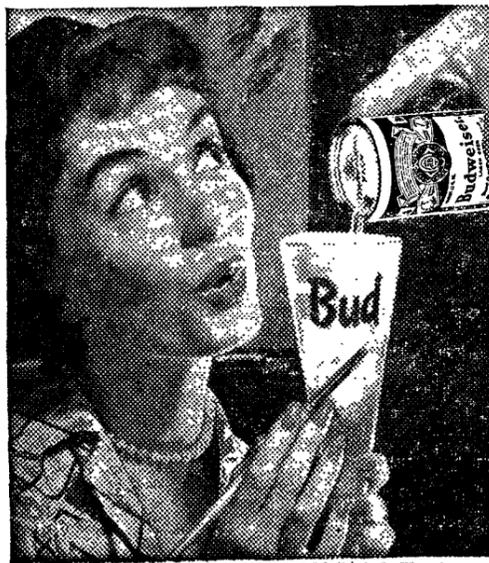
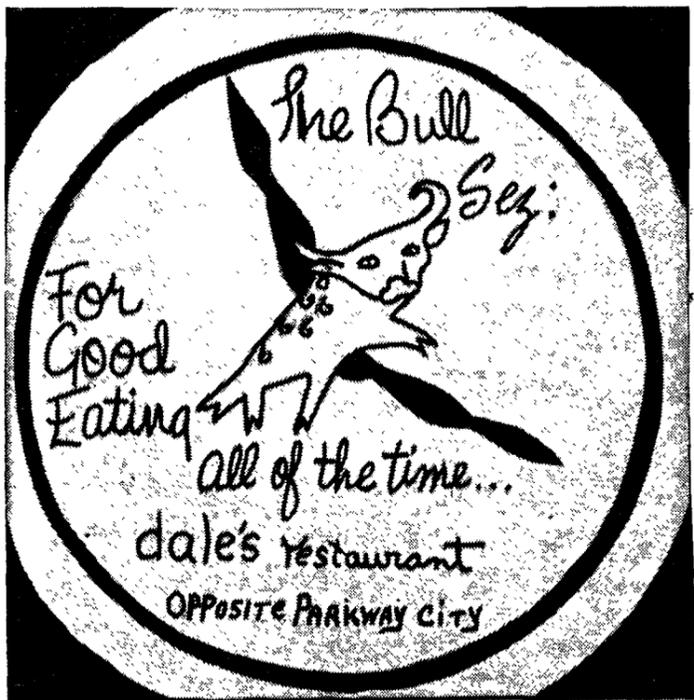


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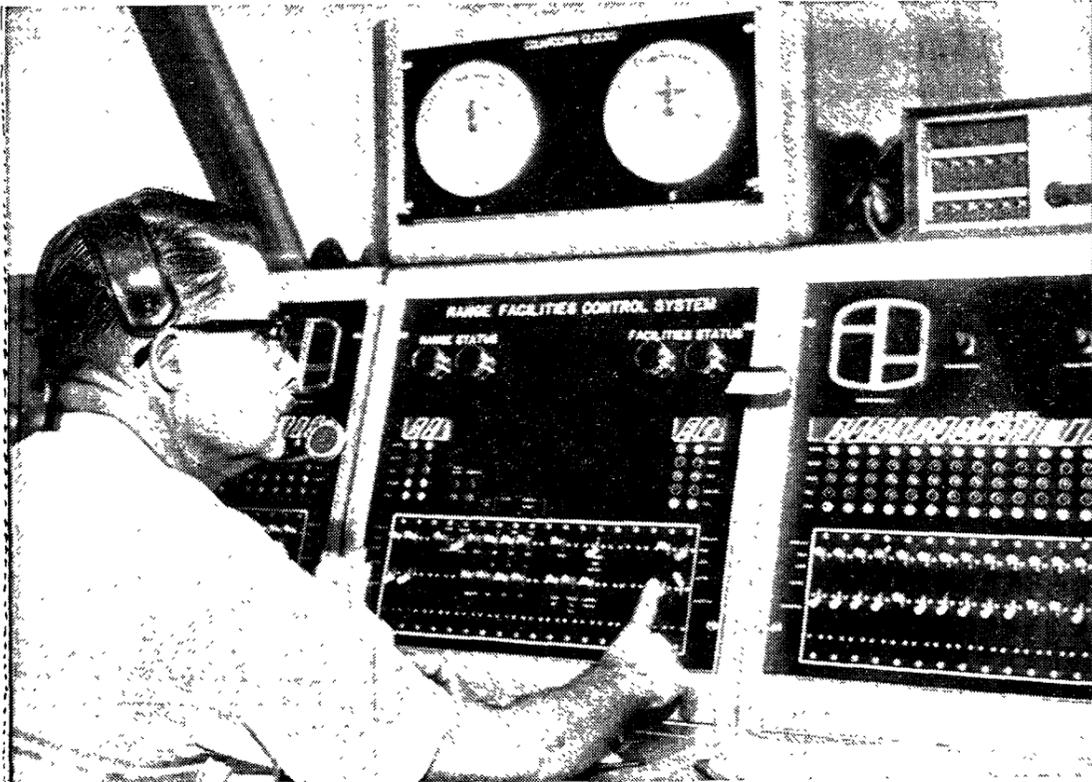
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RANGE AT HIS FINGERTIPS—An array of lights and levers ranged before him, W. R. "Bob" Boblenz gives the high sign to one of White Sands Missile Range's many missile project users. Through the new control console, located at C Station radar post and control center, Boblenz has an accurate to-the-second picture of the status of projects and facilities on the 4,000 square-mile range. Boblenz is chief of range control operations at C Station.

CONTROL IS STREAMLINED AT WHITE SANDS RANGE

WHITE SANDS MISSILE RANGE, N.M., — Control of the nation's biggest and busiest all-land missile range has gone streamlined.

The 4,000 square-mile test center literally is at the fingertips of the man who rides herd on almost 50 missile missions each day.

Immediate streamlining of the Integrated Range Mission's Range Operations Office is the complex \$150,000 communications and control console that ties in projects and facilities in the field with the range controller.

The specialized instrument, engineered and constructed by Signal Missile Support Agency, replaces the control console that

has seen service in the continually growing missile program for the last six or seven years.

MORE CONSTRUCTION

Future modernization and centralization of Range Operations calls for a \$130,000 construction program that will see range control buildings go up at C Station, King One and Stallion Site chain radar stations; ground already has been broken for the Stallion Site facility.

Additionally, the proposed Advanced Range Testing, Reporting and Control plan (ARTRAC) provides for centralized control and management of the range for day-to-day missile test flight operations.

ARTRAC is the plan developed

by IRM's Range Instrumentation Development Division. It would centralize such existing facilities and procedures as missile firing and flight control, launching and vectoring targets, safety surveillance, instrumentation and data acquisition and reduction.

DIRECT COMMUNICATION

The existing new feature in the control of the multi-thousand dollar an hour missile range, the range operations control system console, provides the range controller with direct communications to all the missile projects on the range and to all the facilities—telemetry, optics, radar, etc.—supporting the missile missions.

Range Control also can speak directly to any project by means of private communication lines.

The console is in the Range Operations Office and of beehive C. Station, first of the five chain radar stations on the range. At C Station is the office of the Range Operations chief, who sits also as chairman of the tri-service Range Scheduling Committee and conducts the hectic scheduling program from this same office.

Representatives from Measurements Division, Range Signal Operations Division, Air Support and Area Frequency Coordination, important members of the Range Control team, also are

REPRESENTATION AT STATIONS

located at C Station.

At the new range control console are the range controller and Measurements and Signal Operations personnel. King One and Stallion Site are similarly set up, with a range controller and RSOD and Measurements Division North representation at each control station.

The new console is topped by a pair of countdown clocks which keep a running check on time for the two immediate missions. Red and green lights in the center of the panel indicate status of the range and of the support facilities. The direct communication with projects and facilities gives the range controller a second-by-second picture of any difficulties encountered during any particular mission.

The console also will allow the range controller more time to discuss with his advisers any sudden problem developing in connection with mission.

CONSTRUCTED BY SIGNAL

Constructed by Signal Missile Support Agency at White Sands, the console's cost is broken down as \$100,000 for hardware, which includes the main control center and the sending and receiving sets at the projects and facilities, and about \$50,000 for engineering and construction.

The original range control console, probably the first of its kind at any missile range, was built from scratch by Nathan Wagner and his Flight Safety Branch per-

How's Your Know-How?

1. One of the following Navy ships, which are named after rivers: (a) gasoline tankers (b) oilers (c) transports (d) ammo ships?
 2. When and where was America's first theater built?
 3. What is the smallest of U. S. trees?
 4. In Army usage, what is a hedgehog?
 5. How many stones are in the Washington Monument?
- (Answers to Quiz)
1. Oilers.
 2. Williamsbury, Va., in 1716.
 3. The Alpine willow, sometimes only one inch high; never over six.
 4. A portable obstacle made of three poles or logs crossed and bound hourglass-shape and laced with barbed wire.
 5. An estimated 23,000.

sonnel when Missile Flight Safety and Range Operations Division held the task of operating the range. Wagner today is chief of Missile Flight Surveillance, the team responsible for the safety of missile firing operations at the range.

Next on tap for Range Operations Office is the series of buildings, the trio already contracted for and due to be completed early next summer.

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Vacationers Navigate Four Rivers to Reach Arsenal

"Drifting down the river —" sometimes at 25 miles an hour, a Minnesota couple, Mr. and Mrs. Martin E. Strands, visited Maj. and Mrs. John L. Johnson at Redstone Arsenal last week, along with Mr. and Mrs. Randall (Terry) DiVette. DiVettes came South from Minnesota by car and met the Strands here.

The Strands actually came down four rivers from a marina on the Minnesota River at Mendota. From the Minnesota, they piloted their 21-foot craft, the Naiad of Mendota, into the Mississippi near St. Paul, went from the Mississippi into the Ohio at Cairo, Ill., and left the Ohio near Paducah, Ky., to journey down the Tennessee to Redstone Arsenal where they moored at the Special Services docks. The boat is powered by a 125 horsepower motor.

The DiVettes made the trip in three days by car whereas the Strands spent ten days on the rivers before they arrived here. Mrs. DiVette is the sister of Mrs. Johnson, Maj. Johnson, assistant inspector general at the U. S. Army Ordnance Missile Command, suggested the couples visit them by boat during the Johnson's vacation in Minnesota last summer.

Both the DiVettes and the Strands own boats designed by Mr. DiVette, a licensed marine architect. The two men built the Naiad in the Strand's garage by working evenings and weekends from October to the end of May. She was launched on the last

Sunday of the month.

The two couples live in Minnesota's "Twin Cities," the Strands at St. Paul where he is an industrial engineering consultant, and the DiVettes at Minneapolis where he is a mechanical engineer at Minneapolis-Honeywell, one of the contractors engaged in making components for guided missiles.

On the boat trip, the Strands found living aboard both satisfying and comfortable. They had no trouble getting gas, food or ice for a locker which kept their eggs, milk, meat and fresh vegetables in tip top shape. The two eighteen gallon gas tanks sometimes ran pretty low between gas stops.

For cooking, they use compressed propane gas. At home during the summer, the 2 couples often dine together aboard their crafts. A barbecue grill is set up on the engine housing, and the Strands and DiVettes moor their boats together for convenience. Sometimes these meals are cooked at the marina where they moor between trips; at other times the two couples take their boats into the Minnesota River and tie up alongside the scenic shoreline. There are three rivers to explore in the area, the Minnesota, the St. Croix and the Mississippi.

The cabin of the Naiad is compact. The seat during the day is a foam rubber mattress, hinged. At night it is spread under the captain's seat and across the cabin for comfortable leg room while sleeping. The galley, in addition to the three-burner stove has a

LT. CONGER PROMOTED

Leslie R. Conger was recently promoted from second to first

sink, water storage and other necessities built into the port (left) wall.

On the return journey up the river, the couples swapped transportation. The DiVettes took the boat back and the Strands drove DiVettes car. DiVettes are no strangers to river travel. One trip they took on the inland waterways stretched from Minnesota to Ft. Myers, Fla., several hundred more than the 1216 miles of river routes covered on the trip to Alabama.

DiVettes anticipated making around 135 miles a day on the return journey.

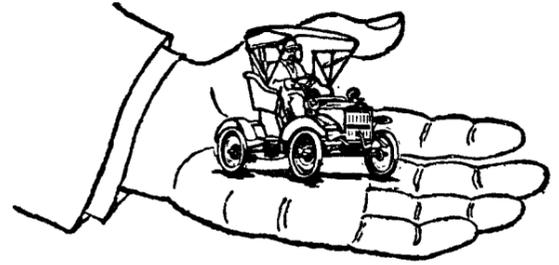
The Strands found the Tennessee the most scenic of the rivers. They slept aboard at night, tied to the shore. Often, they stopped the river journey to swim, examine the foliage, to listen to bird calls unfamiliar to ears attuned to birdsongs of the Northern sector of the United States, and to eat.

Both couples started the return journey last Thursday.

lieutenant. Lt. Conger is a graduate of Montana State with a bachelor's degree in mechanical engineering. At Redstone Arsenal, he is assigned as a technical operations officer in the ARGMA Industrial Division. ARGMA is an element of the U. S. Army Ordnance Missile Command and is responsible for development of such Army missiles as the Nike-Ajax, the Nike-Hercules, Lacrosse, Sergeant, and others. Prior to his Army service, Lt. Conger worked at the Navy Electronics Laboratory at San Diego, Calif.

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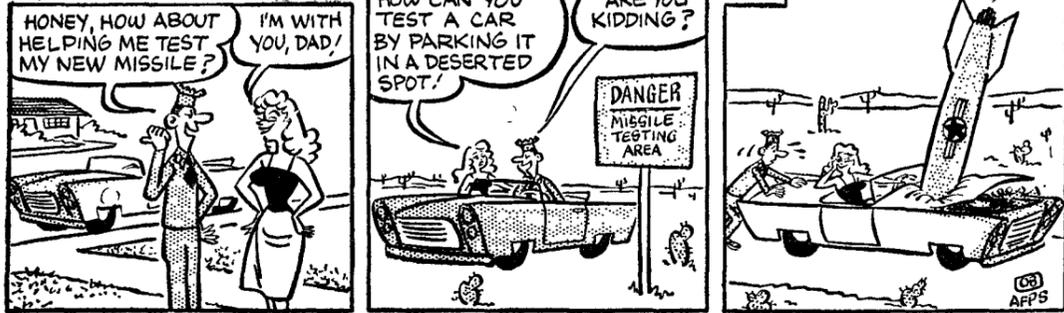
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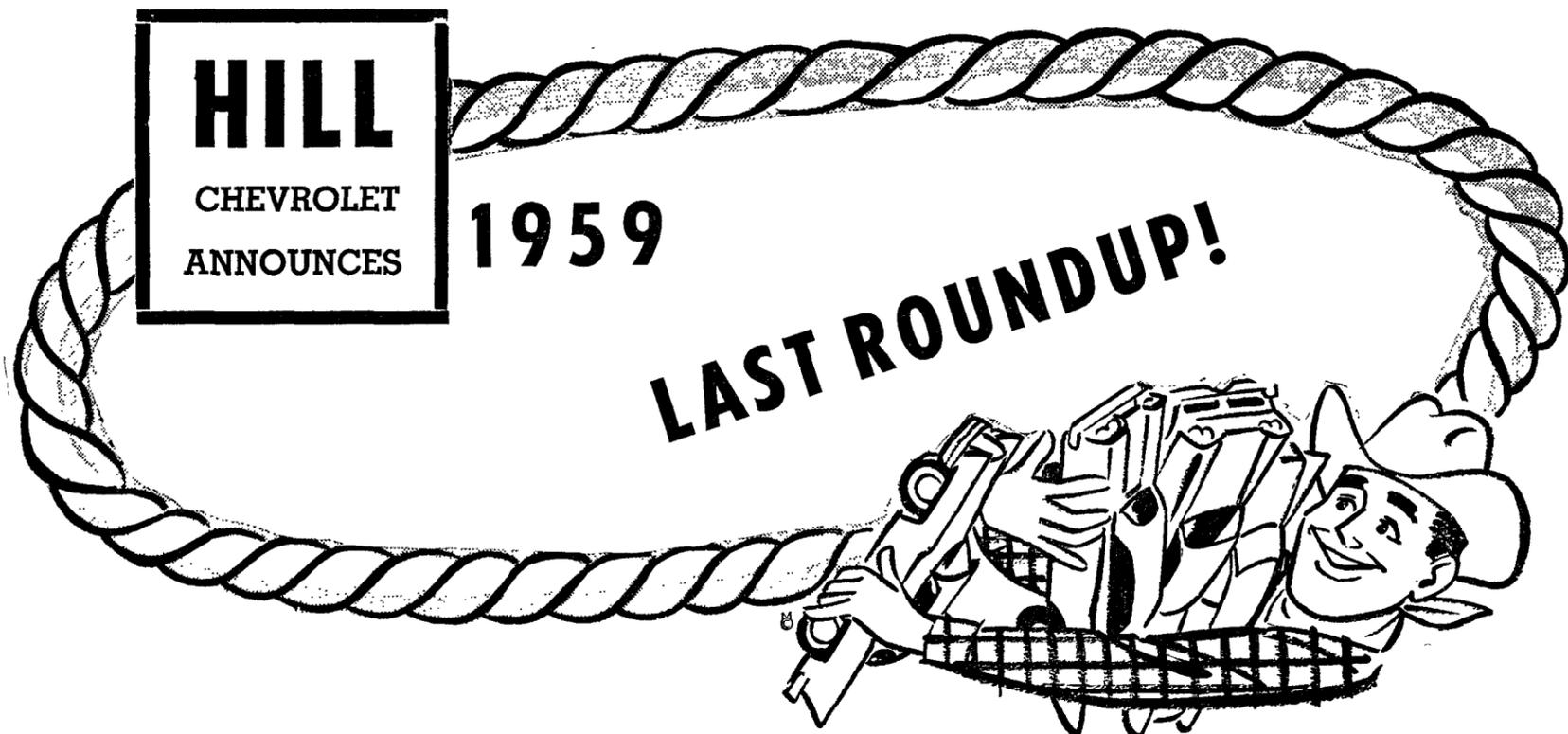
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- 1960 cars will probably cost more—higher labor and steel cost will be felt in 1960 on all products. (Wall Street Journal 8-19-59)
- Sales tax will be higher on 1960 models.
- Supply and demand control prices . . . a prolonged steel strike will affect the supply of 1960 models—hence the price will be higher.
- Finance charges on 1960 models will probably be higher. (Wall Street Journal 8-19-59)

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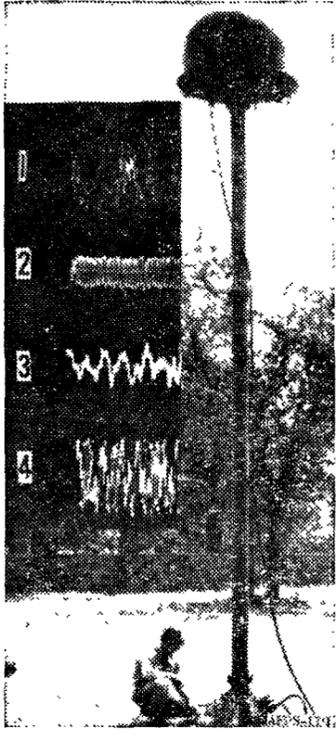
Phone JE 4-4561

Balloon to Carry Electric Eye Aloft

Washington (AFPS) — Television, aided by scientists of the Office of Naval Research, is scheduled to join a telescope in a balloon flight 80,000 feet above the earth this summer. With this combination, researchers from ONR and the National Science Foundation plan to photograph and study the sun.

Started in 1957, the project, called Stratoscope I, is designed to expand man's knowledge of the universe and aid in the development of unmanned satellite observatories.

Equipped with a closed circuit television link, the 12-inch solar telescope used in the 1957 flights will make a new series of flights this summer. The television camera will be linked with a motion picture camera to obtain a continuous record of the images that appear in the telescope reflector.



LADY DETECTOR — A super-sensitive front line radar, keen enough to distinguish between a walking man and woman, shows a distinct difference here. Target images (inset) are: (1) a train, (2) an automobile, (3) a walking man and (4) a walking woman. A portable shelter contains the controls, and an antenna receives the images.

* * *

Radar Can Distinguish Sex At Five Miles

Washington (AFPS) — The Army has unveiled a new radar which is so sensitive that it can distinguish a walking Wac from a walking soldier at remarkable distances and in fog or darkness.

The new detection device can both "see" and "hear" a soldier crawling on the ground two miles away. That is an average, but in one test, the experts said, a walking soldier was "scoped" at 15 miles distance.

Because of nuclear weapons, Signal Corps officers explained modern-day Army units must operate several miles from other friendly troops. Such distances make it difficult to cover critical areas of enemy approach with manned outposts.

Thus, the new ground-to-ground radar will offer combat commanders an important new means of battlefield surveillance.

Signal Corps experts demonstrated how it is possible for a skilled radar operator to distinguish between a walking man and a walking woman. A woman walks differently, reflecting a

Explorer Troop Is In New Mexico For Week of Camping

Ten members of Redstone Explorer Scout Squadron 234 and one Explorer from Mobile, are at

distinctive radar "sound" and her walk is picked up on the oscilloscope as a distinctive sight pattern.

Tanks, jeeps, trucks and other types of moving objects similarly reflect their own distinctive sounds and sight patterns at 10-mile ranges.

Known as the AN-TPS-25, the set scans a 30-degree sector of the battlefield. When the operator "hears" a suspicious motion, he can narrow the radar beam and zero in on the target.

The AN-TPS-25 is carried in a portable shelter that can be transported in a two-wheel trailer or by helicopter. Its antenna is in a 5-foot plastic bubble crowning a 25-foot metal pole that can be sited a safe distance from the operator and controls.

A four-man crew can establish the monitor on front line positions in about 30 minutes. The set is powered by a one-cylinder motor generator that can operate in 60 below zero temperatures.

Operators can be trained in 60 days but experience is sensing and identifying the sounds and sight patterns of various moving objects is an important skill factor.

Already in production and in the hands of some overseas units, the sets will initially be issued only to combat divisions and certain Army missile elements, the Army said.

Mercury Men Will Wear Special Suits

Washington (AFPS) — The Project Mercury astronauts will be garbed in \$3,750 space outfits consisting of a pressurized rubber suit made for the Navy and air conditioned underwear used by the Air Force.

The National Aeronautics and Space Administration is ordering 20 of the suits at a total cost of \$75,000.

The astronauts will wear the suits in brief flights in the sub-orbital Redstone-powered Mercury test flights before they are

Philmont Ranch this week. Philmont is in New Mexico.

The Post Veterinarian and Explorer advisor, Lt. A. W. Davis, and Henry Layton, assistant Explorer advisor, accompanied the ten members of the local troop.

The boys are scheduled for five, five-mile hikes with full packs, horseback rides, riflery, mountain climbing and regular dehydrated food rations for three-days.

Windup of the training will be orientation in the Southern sector of the ranch where soil and water conservation are the major project.

Following the sessions in the field, the boys are scheduled to dine on buffalo steak before they leave for home on Aug. 29.

Those who made the trip are Tom Delamarter, Bob Holmes, Ralph Smith, Mike Murray, Bob Denney, Jim Wynn, Jerry Van Keuren, Randy Bergmann, Bill Babcock and Ken Furly from Squadron 234, and Larry Pollack from Mobile.

launched into orbit in the Atlas missile.

The Redstone flights are scheduled for next year, with the orbital flight planned for 1961.

The outer suit consists of a single layer of reinforced rubber coated with a silver spray which acts as a heat buffer. It would become pressurized only if the capsule pressure failed.

Beneath the one piece Navy suit, the astronauts will wear a double-walled rubber ventilated garment of a kind the Air Force uses. Fresh air will flow into the inner suit then out an exhaust pipe to an air conditioning unit to remove the impurities.

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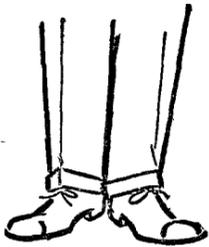
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GUNTERSVILLE LAKE — Two new waterfront subdivisions. Beautiful lots 3 miles north of Gunterville, 1/4 down, balance three years. See Ed Neely, Real Estate, Phone JU 2-3914 or JU 2-3230. 9-30c

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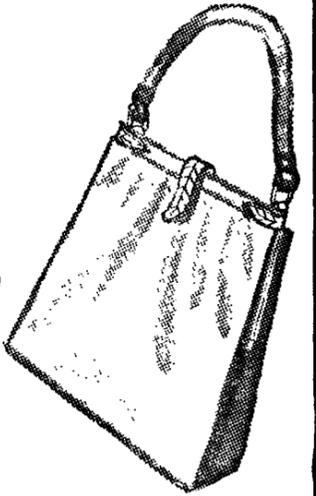
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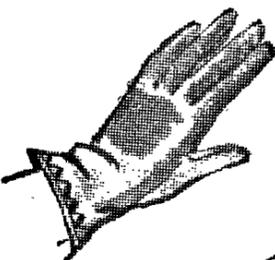
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