

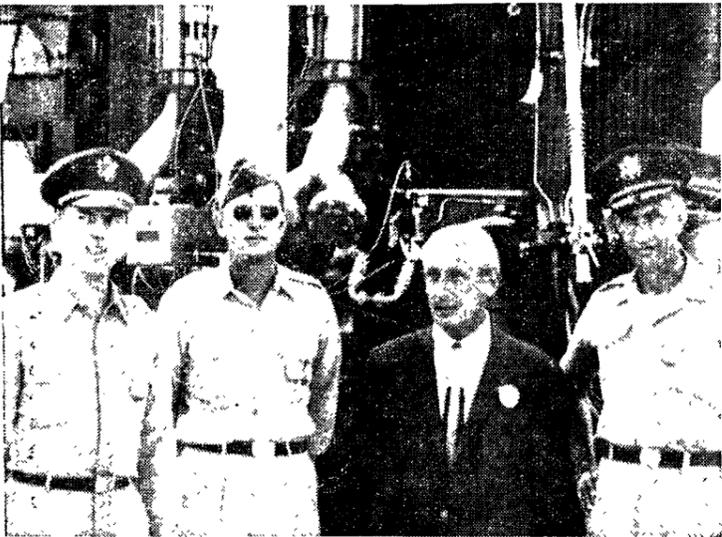
The Redstone Rocket

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VOL. VIII; NO. 15

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

AUGUST 12, 1959



MAJ. ALEXANDER P. de SEVERSKY, internationally famous authority on aeronautics, is shown before a Jupiter missile on a recent visit to the Army Missile Firing Laboratory installation at Cape Canaveral, Florida. With him, left to right, are Capt. Henry C. Paul, of the Army Ordnance Missile Command Project Office at Patrick Air Force Base, Fla.; Air Force Lt. Col. Cannon, of Patrick; Maj. de Seversky; and Lt. Col. Curtis L. Ferrell, Jr., deputy commander of the AOMC Field Office at Patrick.

Army Successfully Test Fires Another Redstone Missile

The Army fired a Redstone ballistic missile last week at Cape Canaveral, Fla.

It was an engineering-user test, which is part of an evaluation program for a new production block of missiles. The Redstone was America's first entry in the field of large ballistic missiles. It is fully operational and has been in the hands of Army troops for more than a year.

The Redstone was developed by the Army Ballistic Missile Agency, Army Ordnance Missile Command, at Redstone Arsenal. It is produced by the Chrysler Corporation at the Army's Michigan Ordnance Missile Plant near Detroit. Today's missile, like all others launched in the past 2½ years, was produced by Chrysler. The Redstone has been with NTAO Shield Forces in Europe since June, 1958, deployed by U. S. Army troops. Other Redstone Missile units are in training in the U. S.

Today's test firing was monitored by personnel from the Artillery Board of the U. S. Continental Army Command; the U. S. Army Artillery and Missile Center, Ft. Sill, Okla.; and from Redstone units stationed with the Seventh Army in Europe. These units are the 40th and 46th Field Artillery Missile Groups. Observers from the Pentagon and Headquarters, U. S. CONARC, also witnessed the launching.

The last previous firing of a Redstone from Cape Canaveral was on July 21, 1959. It was also an engineering-user test. The final missile in the research and development flight test program was launched last November.

Six Redstone firings have been (See TEST FIRES on Page 2)

107 Per Cent of AER-ARS Quota Donated Here

Road Improvements At Arsenal Total \$97,336 To Date

Improvements to roads on Redstone Arsenal presently under contract or recently completed amount to \$97,336.

This includes resurfacing on Neal, Hansen, Goss, Rideout and Airport roads.

Airport road is being widened to a 22' roadbed, paved with a hard surface, and straightened to accommodate the increased traffic on this road. The project is being constructed by the Perusini Construction Co., of Birmingham at a cost of \$17,885.

Ashburn and Gray have completed several phases of a contract to resurface Digney, Neal, Hansen and Rideout Roads for a total of \$24,990. The project on Hansen road is complete and the others are scheduled for early completion dates.

Martin Road from the intersection of Rideout Road to the Arsenal boundary was completely resurfaced by Ashburn and Gray. The job was completed on July 18 for \$23,846.

Two traffic turning lanes have also been finished. The Throneberry Construction Co. of Decatur built the lane at the intersection of Hansen and Patton Roads at a cost of \$3,862; and Ashburn and Gray completed the turning lane at the intersection of Mills and Martin Roads on July 6 for \$4,510.

Other miscellaneous projects under contract at present include recreation area, parking hardstands, and access roads. The total cost of these projects is \$22,143.

Other contracts are under consideration for improving the Arsenal road system.

These are all maintenance contracts on existing roads. The Post Engineer at the Arsenal is responsible for maintenance.

Stress on Science Urged by Educator

An Army missile educator today urged citizens of Gadsden to "see that mathematics and the sciences are stressed in high schools" to keep pace with advances in technology.

Lt. Col. Ward T. Gilbert of the Army Ordnance Guided Missile School at Redstone Arsenal addressed a luncheon meeting of the Gadsden Kiwanis Club at the Reich Hotel on the topic: "Technology, Key to Progress."

Models and slides of Army operational missiles and a film depicting the rapid growth of the Missile School were shown by Lt. Col. Gilbert who is director of the school's Surface-to-Air Missile (See STRESS on Page 2)

Redstone Arsenal reached 107 percent of its quota in the recent joint annual fund campaign for the Army Emergency Relief and the Army Relief Society, reports Major Andrew J. Draper, Arsenal campaign chairman.

Agencies participating included ABMA, ARGMA, OGMS, RSA, and AOMC. A total of \$4,717.76 was contributed during the seven-week drive, which opened in June and ended July 31. Arsenal quota, part of an overall Army-goal of \$600,000, was \$4,392.62. Contributions exceeded this quota by \$325.14.

AOMC headed the top of the list in contributions reaching 136 percent of quota.

Four units in OGMS achieved more than 100 percent: the 1st 2nd, and 3rd Enlisted Training Detachments with 130 percent, 133 percent and 127 percent, respectively, and the Headquarters and Headquarters Detachment "A" with 113 percent.

At Redstone the 291st MP Company achieved 105 percent while the Medical Detachment, U. S. Army Hospital reached exactly 100 percent of its goal.

Contributions will be used to provide financial assistance to members of the Army and their families whenever they meet emergencies beyond personal resources.

The Army Emergency Relief was authorized by the Secretary of War and incorporated as a perpetual organization in 1942. It was established to collect and hold funds to relieve distress of members of the Army and their dependents.

The Army Relief Society, founded in 1900, was established specifically for the purpose of assisting needy widows and orphans of Regular Army personnel.

Arsenal contributions will be turned over to the Redstone Army Emergency Relief Fund Officer.

Assisting Major Draper during the campaign were Maj. Victor H. Kemp of Redstone; Capt. Walter E. Kasper of AOMC; 1st Lt. Richard B. Davidson of ABMA; 1st Lt. Fred J. Lokay of ARGMA; and 1st Lt. Donald R. Winter of OGMS.

ABMA HAS 1748 IN AUSA

The Army Ballistic Missile Agency chairman for membership in the Association of the U. S. Army have continued enrolling members from the Agency. At present, their representation is 1748.

The Tennessee Valley Chapter of AUSA, with 3,700 members, boasts the largest membership of any chapter of this international organization.

Prof. Oberth Sends Thank You For Birthday Message

Brig. Gen. John A. Barclay, commander of ABMA, recently received from Professor Hermann Oberth, now resident in Feucht, Germany, an acknowledgement of greetings from the general upon the occasion of Prof. Oberth's birthday anniversary.

On June 25, General Barclay dispatched this telegram:

"In recognition of your outstanding service in the field of astronautics and your many contributions to the success of the Army Ballistic Missile Agency, Dr. von Braun, Dr. Stuhlinger, and all members of ABMA join me in best wishes and congratulations on the occasion of your 65th birthday."

Responding from his home in a small town near Nuremberg, Prof. Oberth, who is employing his retirement both in research and writing, warmly answered in a letter in which he said:

"Dear General Barclay, I want to express my thanks for the congratulations you wrote me in your and ABMA's name. Also I want to thank all the colleagues of the Army Ballistic Missile Agency, with whom I had the honor (See PROF. OBERTH on Page 2)

Timber Bids Asked By District Engineer

Col. R. W. Love, U. S. Army District Engineer at Mobile, Ala., has invited bids for 40,000 board feet of pine sawtimber, 5,000 board feet of miscellaneous hardwood sawtimber, and 25 standard cords of pine pulpwood stockpiled at Redstone Arsenal.

The timber has been felled, trimmed and stockpiled by the contractor who is clearing the site for the construction of a missile systems test facility for solid propellants in the southern portion of the reservation.

Inspection of the timber may be arranged and bid forms obtained by contacting Roger W. Scoggin, resident inspector, in the Office of the Area Engineer, at the Arsenal, or the Post Engineer between the hours of 9:00 a.m. and 2:00 p.m., D.S.T., on any day except Saturday or Sunday until bid opening date.

Col Love said that bids will be opened at his office at 2301 Grant Street, Mobile, at 2:00 p.m., C.S.T., August 13.

CAPITAL HONOR RITCHEY

Dr. H. W. Ritchey, vice president and technical director of the Rocket Divisions of Thiokol, recently received two distinctions.

He was named honorary captain of the Capital Airlines fleet. An inveterate air traveler, Dr. Ritchey has flown more than 1,000,000 miles by commercial airliner during the past ten years.

The second distinction was a check awarded upon filing an application for a patent. The patent covers a steering device for rocket powered vehicles.

Charter Members Can Still Join Recreation Group

The Redstone Recreation Association, formed as a private group charter travel organization, held its first meeting on August 5.

By-laws were suggested for adoption by the potential charter members. Approximately 107 applications were received from employees of government and industry in the area. This total was swelled by applications from family members to approximately 300.

Discussion disclosed that the majority are interested in charter group travel, although a minority expressed interest in other phases of the plans listed in the brochure of the parent organization, according to Walter Wiesman.

Charter memberships are open. Applications are being received by Mrs. Irmgard Burose. Membership fees should not accompany these applications, Wiesman warned.

Contact With Outer Space Can Be Made Atop Madkin

High atop Madkin Mountain at Redstone Arsenal, Army Ballistic Missile Agency scientists have built a contact point with outer space—a tracking facility which will "keep an ear open" to space vehicles launched by the Agency under the direction of the National Aeronautics and Space Administration.

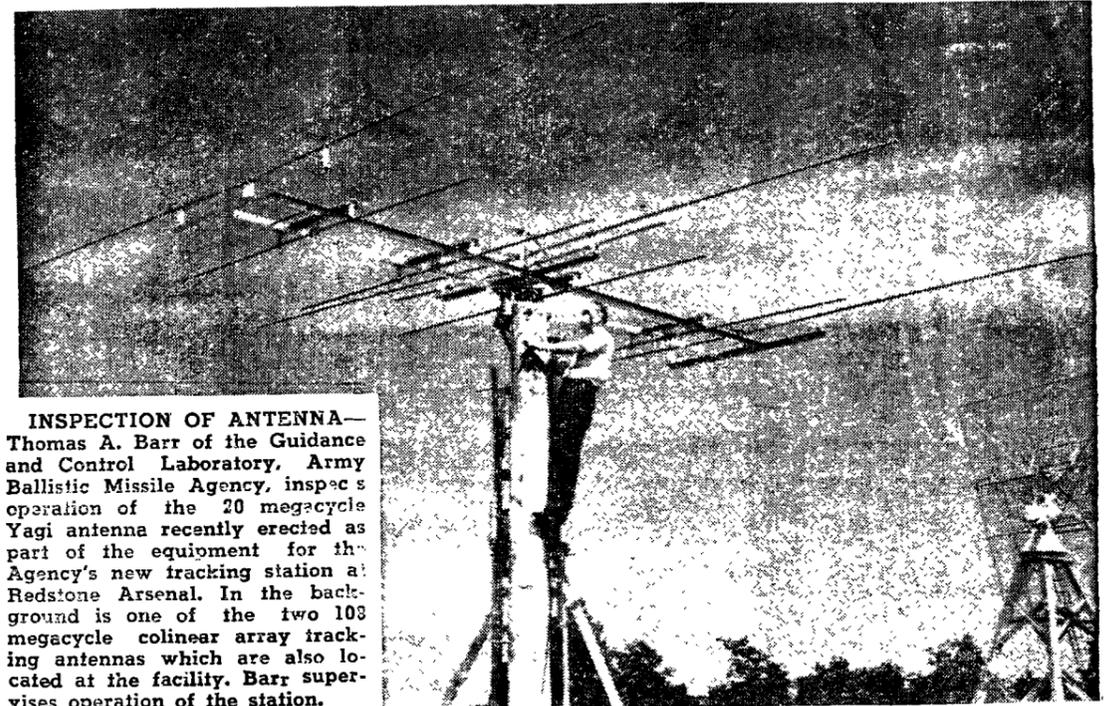
The Army Ballistic Missile is element of the Army Ordnance Missile Command, which is responsible for all missile and space programs assigned to the Army.

When Madkin Mountain was determined the most suitable site for the station, construction proceeded without delay. Bulldozers prepared a road to the top of the mountain, then leveled and cleared a sufficient area. This was followed by construction of a frame building, 35 by 15 feet, to house the sensitive receiving

equipment. In all, road and building construction, supervised by the Arsenal's Post Engineers, was completed in less than two weeks.

Antenna erection followed. Presently on site are two 108 megacycle colinear array tracking antennas, a steerable 20 megacycle beam Yagi antenna, and three simple dipoles.

The two 108 megacycle colinear array antennas will receive signals from 103 megacycle tracking transmitters carried in satellites. The 108 megacycle signal is used by missile scientists primarily for tracking the path of an orbiter, because the signal is not readily received over the horizon and reception is therefore highly selective. Commonly referred to as "bed springs," the antennas stand 27 ft. high and measure 20 feet square. One is polarized horizontally, the other vertically. (See CONTACT on Page 3)



INSPECTION OF ANTENNA—Thomas A. Barr of the Guidance and Control Laboratory, Army Ballistic Missile Agency, inspects operation of the 20 megacycle Yagi antenna recently erected as part of the equipment for the Agency's new tracking station at Redstone Arsenal. In the background is one of the two 108 megacycle colinear array tracking antennas which are also located at the facility. Barr supervises operation of the station.

The Redstone Rocket

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PROF. OBERTH

(Continued From Page 1)
and the pleasure of collaboration, for the good and harmonious spirit in this Agency. In the case that I had success, it was the merit of this good understanding. Sincerely, H. Oberth."

TEST FIRES

(Continued From Page 1)
conducted by troops, five at White Sands Missile Range, New Mexico, and one at the Cape. Over 50 Redstones have been fired. This includes use of the Redstone as the first stage of the Jupiter-C, the launching vehicle which placed the Army Explorer satellite in orbit.

STRESS

(Continued From Page 1)
Division where thousands of U.S. and Allied students have learned to keep such weapons as the Nike-Ajax, Nike-Hercules and Hawk air defense missiles in constant combat readiness.



JAMES W. SMITH
* * *
Smith Is Named Safe Supervisor of Week

"A man of mature judgement, a keen sense of responsibility, and personal integrity" . . . this is how Thiokol Safety Officials describe James W. Smith, who is Chief of the Operations Section of Thiokol's Pilot Lines Department.

Smith was born in Russell County, Ala., and was graduated from Alabama Polytechnic Institute at Auburn with a bachelor of science degree in chemical engineering. He came to work for Thiokol at Redstone in 1949.

For a three-year interim, he worked at Marshall, Tex. to assist in the establishment of Thiokol's Longhorn Division, which is Thiokol's only production plant.

Smith is married to the former Mary Gray Matthews of Huntsville. His wife won the national title of Miss Secretary of 1953. The Smiths have two children; a son, Mart, who is presently in the U.S. Navy, and a daughter, Juie, who is a student at Auburn.

A distinguished record of military service is a part of Smith's personal history. He has served in the U. S. Navy and in the U.S. Marine Corps where he was a Gunnery Officer. He fought in the South Pacific in World War II, and was awarded the Purple Heart.

Whenever his busy schedule at Thiokol permits him the time for relaxation and hobbies, he enjoys



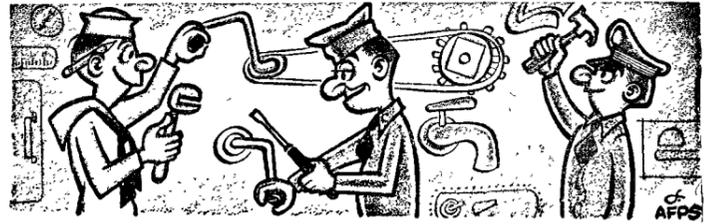
OGMS RECEIVES FIRST 60 DAY SAFE DRIVING PLAQUE—Accepting the first plaque given for 60 consecutive days of accident-free driving of army vehicles is Col. C. W. Eifler, OGMS Commandant, during a recent ceremony in his office. The colonel claimed no part of earning the plaque since he very recently took over as Commandant. Col. Eifler said it was a genuine pleasure to receive the plaque on behalf of the school, and pledged full support to continued emphasis on safe driving. At the ceremony (left to right) are: Lt. Col. Albert G. Cole, commander of the Unit Training Center, OGMS; Col. Jay A. Dasch, Redstone S-2, awarding the plaque; Lt. Col. Claude E. Cason, commander of the School Troops, OGMS; William J. Cary, safety officer, OGMS; Col. Eifler and Col. Ernest W. Ewbank, Jr., assistant commandant, OGMS.

Operation Blonde



his home workshop. He is particularly fond of working with woods, and considers himself a "fair cabinetmaker." He still manages to find time for quail hunting; he owns a group of twenty bird dogs, composed of both pointers and setters. He is a member of Alpha Tau Omega Fraternity, Elks, American Ordnance Association, American Rocket Society, and Masonic Order (32d degree).

In a rocket and missile plant many hazardous compounds are handled continuously and safety must always be a prime consideration. Thiokol works on a principal that safety-consciousness among supervisors usually produces safety-consciousness among its worker. James W. Smith has helped considerably in making Thiokol a safe place to work.



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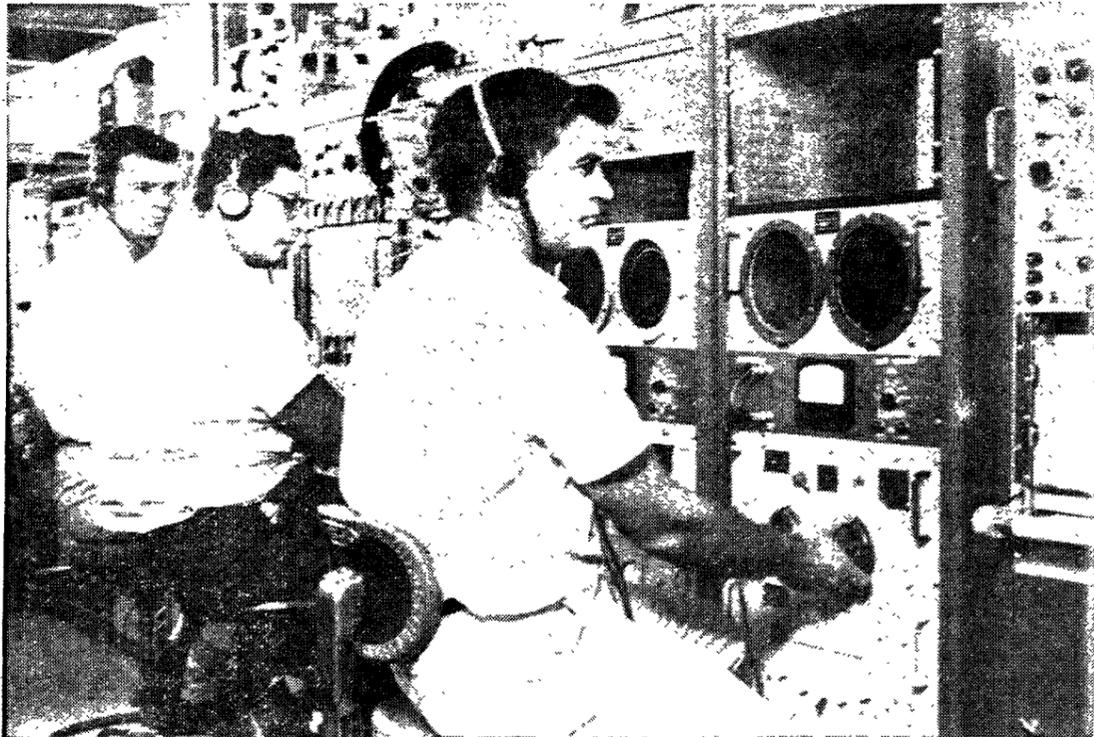
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INSIDE TRACKING TRAILER—Left to right, Ronald Glass, John Gregory and Paul Swindall of the Guidance and Control Laboratory, Army Ballistic Missile Agency, man receiving Equipment at the Agency's new tracking facility. Swindall controls direction of two 108 megacycle colinear array tracking antennas while Glass and Gregory operate 108 megacycle receivers.



"BED SPRINGS" — A welder completes work on one of the two 108 megacycle colinear array tracking antennas which are part of the tracking facility located atop Madkin mountain at Redstone Arsenal. The antennas, commonly referred to as "bed springs," stand 27 feet high and measure 20 feet square. The recently completed tracking facility is under the direction of the Guidance and Control Laboratory of the Army Ballistic Missile Agency.

CONTACT

(Continued From Page 1)

The 20 megacycle Yagi antenna will receive signals from 20 megacycle transmitters carried aboard satellites. The 20 megacycle signal, more readily received over the horizon than the 108 megacycle signal, is used by missile scientists for sending data measurements recorded by satellites concerning the environment of space. The station's antenna, similar in design to many television antennas, is named Yagi after its inventor.

The three dipoles will be used to receive time signals from radio station WWV, a National Bureau of Standards radio station located in Washington, D. C. These signals continuously giving the correct time, are correlated as a time reference with tracking and data signals received from a satellite. The dipoles are 5, 10 and 20 megacycle, respectively. Simple in design and unsteerable, they consist of a horizontal pole mounted atop a vertical pole. The dipole giving the best reception at a given time is the one utilized for receiving WWV.

In addition to the antennas, the tracking station includes sensitive electronic equipment for receiving and recording signals picked up by the antennas. This equipment includes two 108 megacycle receivers, a 20 megacycle receiving system, tape recorders, digitizing equipment to convert tracking signals into

numerical data, an automatic teletype machine to transmit numerical tracking data directly to the Army Ballistic Missile Agency's Computation Laboratory for correlation with other data received from other tracking stations, and an automatic graphic recording device which provides a visual picture of 108 signal level and frequency.

As an average, the station can receive signals from a satellite during the time that the orbiter remains at least one degree above the horizon in relation to the station.

In its former temporary Arsenal location, the station was at an elevation of 550 feet. Atop Madkin Mountain it enjoys an elevation of 1250 feet.

Under the direction of the Agency's Guidance and Control Laboratory, the station is a function of the Laboratory's Missile Instrumentation Branch, headed by Otto Hoberg. A six-man team handles operation of the facility, under supervision of Thomas A. Barr of the RF Systems Development Section. Paul Swindall, station manager, is assisted by John Gregory and William Edens, engineers; Ronald Glass, technician; Fraiser Williams, engineering aid, and Randy Clinton, mathematician.

The Guidance and Control Laboratory is directed by Dr. Walter Haussermann.

Rhymes of the Times

OBJECTIVES ARE OFTEN WON WHEN LESS IS SAID AND MORE IS DONE.



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Air conditioned, nice, full power. **\$2195**

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Social News

'Moon Is Blue' Will Again Be Presented

For the first time in its 10-year history The Huntsville Little Theatre is giving additional performances of a production. Two extra performances of "The Moon is Blue," which is composed mainly of Redstone Arsenal personnel, are scheduled for Friday and Saturday Aug. 14-15.

The play will be presented in-the-round in the air conditioned ballroom of the Russel Erskine Hotel. All seats are reserved and reservations may be made by calling JE 6-7169. The performance begins at 8 p.m. and all reservations not picked up by then will be sold to those waiting for tickets.

Directed by Wayne Lacy, an employe of Brown Engineering, the play has become one of Huntsville Little Theatre's biggest hits. Extra performances are being presented due to popular demand.

The cast is headed by Joanne Millican, a sparkling new comer to Huntsville, and the wife of Redstone's Capt. William Millican. Tom Melton, an illustrator in the industrial Division of ARG-MA and an experienced performer of Huntsville Little Theatre plays opposite Joanne Millican.

The Huntsville Little Theatre will hold its regular monthly meeting Thursday, Aug. 13 at 7:30 p.m. at the Fifth Avenue School. Anyone interested is invited.

Girl Scouts Learn To Live Outdoors

A midsummer camp-out of three days was completed by 10 girls of Troop 141, Redstone Arsenal Girl Scouts at noon Thursday Aug 6.

Activities included pitching tents, developing patrol campsites and shower, scavenger hunt, swimming, evening campfires and improving techniques for living in the outdoors.

The scavenger hunt was won by the Chipmunk Patrol. Patrols were judged by the leaders Mrs. R. S. Kinch and Mrs. A. Y. Harper and the climax of closing day was the presentation of the "Best of the Month" flag to the girls of Busy Bee Patrol.

Girls who participated were Cheryl Anderson, Valerie Black,

New German Army Is Described by Officer

Redstone Chapter No. 353, National Sojourners, met at the Squirrel Hill Officers Club last Friday. The topic of the evening was "West Germany and its New Armed Forces," discussed by Maj. Heinz Wilke, a student at the Ordnance Guided Missile School, here.

The German Officer, whose military background includes assignments as an Infantry Division Ordnance Officer on both the French and Russian fronts during World War II, a stint as a Prisoner of War of the Soviet Union, and employment by both the British and American Armies, returned to the wearing of a uniform when it was authorized for Germany in 1956. He was introduced to the club by Lt. Col. Eugene J. McGinnis, the Executive Officer of the Space Academy where the Major is studying American Missile Systems.

Three new members were accepted by the local Sojourners chapter during the meeting. They are Lt. Col. Robert L. Skillinger, Lt. Col. John L. Edgar, and 1st Lt. John W. Davis.

Wives of members also were present at this meeting.

AOMC Representative Made Reserve Major

Eugene L. Rowden, western area technical placement representative for the Army Ordnance Missile Command, has been promoted to major in Army Intelligence reserve. He is commanding officer of the 458th Strategic Intelligence Detachment for research and analysis.

Rowden holds the Bronze Star medal for counter intelligence work in Korea with the Third Infantry Division. He served also in Korea as an intelligence officer with the Greek and Philippines Expeditionary Forces and with the Korean First Infantry Division. During War II he was a cryptographic and military personnel officer.

Susan Dattres, Karen Johnson, Daphne Ketteringham, Jane Kinch, Sarah Napper, Susan Palmer, Patricia Palmer and Sharon Whalen.

At the Service Club

DRAMATICS: The Show Production Group met August 5, 1959, and read all the script's which had been submitted. Joe Rimsky and Stan Spiewak's script was accepted for the first production. A group meeting of the Show Production Group will be held on Tuesday, Aug. 18 at 1900 hours.

TOURNAMENTS: Gerald Heck was winner of the ping pong tournament Aug. 6. Robert Tate placed second in the tournament, and Billy Kenney placed third. As a recreational hobby few games exceed this one in its possibilities. The game has become very popular and provides plenty of exercise. Plan now to practice for the tournament which will be scheduled next month.

The bridge enthusiasts will assemble in the Card Room for an exciting tournament on Thursday night, Aug. 13, at 1800 hours. Sign up now to participate in the tournament. Prizes will be presented to the winners.

An archery tournament is scheduled for Aug. 14 at 1830 hours. Equipment is available for everyone who would like to participate in the tournament.

A pool tournament is scheduled for Aug. 20 at 1800 hours. Sign up now.

PARTY: Make reservations for the swimming party at the post pool on Aug. 15 at 1700 hours. Watermelons will be served following the dip in the nice cool pool. A bus will be at the Service Club to take you to the pool area. Make reservations now.

DANCE: A dance is scheduled for Aug. 13 at 2100 hours. The Birmingham and Huntsville Hostesses will be guests for the dance.

DANCE CLASSES: The tango-fox trot series of dance classes will meet Wednesday night at the scheduled time. The classes will enjoy a party at 2030 hours in the lounge. The fox trot and cha cha classes which were to have begun on Aug. 19 have been postponed until September 16.

The Friday night cha-cha classes will continue every Friday night throughout the month of August.

TOURS: Make plans now to tour the beautiful Desota Falls near Fort Payne, Ala, on Aug. 16. The buses will depart from the Service Club at 1230 hours. The backwater from the dam is excellent for swimming so plan now for a nice refreshing dip. A picnic will be served in the picnic area overlooking the falls following the dip. Make reservations soon.

BINGO: Spend a delightful evening in the nice cool lounge every Monday night playing the ever popular game bingo. The modified games are fun and the prizes are exquisite. Follow the crowd to the Service Club Lounge every Monday night and bingo.

MOVIES: The movies this past week "Hail the Hearty", "Mediterranean Cruise", "Butcher, Baker, Ice Cream Maker", "The Big Idea" and "Eurafrica" were excellent movies. Watch for announcements of coming movies. Sgt. Waddel is projectionist for the movies shown at the Service Club.

FRANCES

WANTADS CARRY BARGAINS

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 —

Mrs. G. B. Keith And Fred Ellis Are Party Bridge Winners

Mrs. G. B. Keith and Fred Ellis took top honors in party bridge competition at the Officers Club on Monday night, August 3.

Other winners among the women included Miss Dorothy Webb, second, and Mrs. James Felts, low.

Capt. Robert Kirk placed second among the men with Capt. H. L. Carmichael Jr., low.

Capt. Josephine Walls was hostess for the evening.

Rhymes of the Times

HE IS OFF FROM DANGER
SAVED WHO KNOWS THE DANGER
TO BE BRAVED

AGEN...AFPS



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.

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COMMANDERS VISIT—Brig. Gen. J. A. Barclay (right), Commander of the Army Ballistic Missile Agency, discusses model of Redstone ballistic missile with Maj. Gen. Verdi B. Barnes (center) and Brig. Gen. H. L. Sanders, visitors from Ft. Sill, Okla. Gen. Barnes is Commanding General, U. S. Army Artillery and Missile Center, and Commandant, U. S. Army Artillery and Missile School. Gen. Sanders is Commanding General of Troops, U. S. Artillery and Missile Center. The Redstone missile was developed by ABMA, an element of the Army Ordnance Missile Command at Redstone Arsenal.

President Signs Law For Mail Privileges

Washington (AFPS)—Duty-free gift mailing privileges for servicemen overseas have been extended until July 1, 1961, military postal authorities have disclosed here. The law permitting custom-free entry into the United States of bona fide gifts up to the value of \$50 actually expired July 1 of

this year and new legislation extending the privileges was not signed by President Eisenhower until July 17.

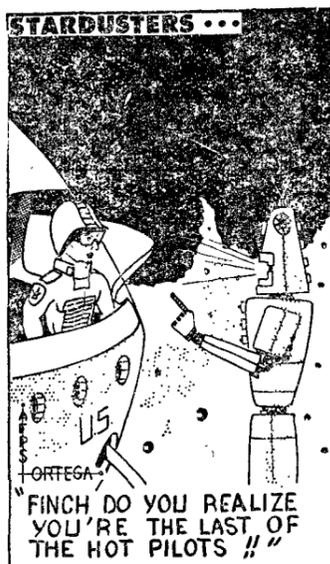
In the July 1-17 interim, officials explained, certain parcels from servicemen around the world were delayed pending passage of the extension. With the President's action, customs barriers were raised and the packages sped on their way.

Gift mailing rights are an outgrowth of wartime legislation initially passed in 1942 and extended every two years since 1949. A House version of the bill in 1957 extended the rights on a permanent basis but this was killed in the Senate.

Congressional concern over the number of servicemen violating the privileges brought about the two-year extension. Authorities emphasized, however, that the military would "step up" the campaign against violators.

The bulk of the malpractices have occurred in Hawaii, officials pointed out, with servicemen going to Japan on leave rather than

on assignment and mailing gift packages duty-free to addresses in the states.



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Freedoms Foundation Announces Subject For 1959 Letters

Valley Forge, Pa. (AFPS)—The 1959 letter writing program of Freedoms Foundation offers cash awards totaling \$9,

000 for the best letters on the subject: "My Job: Protecting America's Freedoms."

The program is open to all members of the Armed Forces on active duty.

Freedoms Foundation is a non-political, non-partisan, non-sectarian organization established to create better understanding and appreciation of the American way of life.

Awards will be \$1,000 for first place, \$500 for second place; 50 awards of \$100 each and another 50 of \$50 each. As in previous years, the 10 top winners will be invited to Valley Forge on Washington's Birthday, Feb. 22, for the awards ceremony.

The original letter must not exceed 500 words; it must be typed or written legibly on one side of the paper; it must be accompanied by the writer's typed or printed name, rank, military and home addresses, and it must be mailed to Freedoms Foundation, Valley Forge, Pa., before next Nov. 1.

In addition to the cash prizes, each winner also will receive a George Washington Honor Medal.



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COOK AND BAKER—Astronaut Baker shows student L. D. Cook at the Navy's School of Aviation Medicine, Pensacola, Fla., how to remain calm prior to an outer space excursion. Baker made a historic round trip in outer space recently.



SUMMER COMMENCEMENT AT NEW MEXICO — Maj. Gen. J. B. Medaris, commander of the U. S. Army Ordnance Missile Command, delivered the Summer commencement address at New Mexico University recently. The general wore the cap and gown to receive an award of an honorary doctor of laws degree conferred by the University during the ceremonies. The general's address warned and challenged the graduates "to keep pace with science."

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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
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Chocolate Milk	12c	Grape	10c-15c
Tea	10c	Hot Chocolate ..	10c

Milkshakes

Chocolate, Vanilla or Strawberry	30c
MALTS	35c

SALAD BOWL

Dovap System Tracks Dual 'John' Flights

White Sands Missile Range, N. M. — Missilery's use of dual-Dovap systems to instrument the flights of two missiles simultaneously has been carried out successfully at White Sands Missile Range.

The specially rigged system gave space position, velocity and acceleration data on a pair of Little John ballistic rockets launched one second apart at the desert test center. Little John is under development at ARGMA's Ordnance Missile Laboratories Division.

The successful and significant trial climaxed two months of special preparation by the units of Electronic Measurements Section, a segment of integrated Range Mission's Measurements Division South.

Dovap, derived from Doppler Velocity, Acceleration and Position, records a missile's flight on photographic film; the film image is the visible pattern created by radio frequencies transmitted to the missile, amplified within the missile, then re-transmitted to ground receiving stations.

Two Dovap Systems Used
The highly specialized Dovap system used for the twin Little John test firing employed two completely independent parallel Dovap setups operating simultaneously on two adjacent radio frequencies.

Two separate sets of ten ground receivers were employed

to pick up the amplified signals as they were re-transmitted from the midget transmitter-receiver units in the missiles.

The two signals were recorded on film in a van trailer specially set up for this trial as well as in the normal recording stations.

Belived To Be First Use
IRM spokesmen believe the use of dual-Dovap is the first in the history of missile flight instrumentation.

A missile's behavior in the air is reflected on the Dovap film by the character of the photographed sound pattern — the re-transmitted signals from the missile create a varying sound wave as the missiles approach or leave the area of each group receiver station, much the same as a train whistle seems to change its pitch as it moves toward or away from the listener.

Because of the spacing of the receiver station, the incoming sound patterns can be compared to provide highly precise data on the speed and position throughout the flight.

Missile Is Pinpointed
Timing marks photographed simultaneously with the sound pattern allow data reduction specialists to determine the exact space point, acceleration and velocity of the missile at any specific time during flight.

Because it is based on the sending, amplification, re-transmission and reception of radio frequencies, Dovap is not limited in use by weather or, for all practical purposes, distance — it is not necessary to visually track the missile in order to instrument its flight with Dovap.

Dovap's accuracy is such that it records acceleration to one inch per second, velocity to one inch per second and space position to plus or minus five feet — these are "miss distance" figures in recording flights of missiles traveling at speeds in the thousands of miles an hour and distances up to 90 miles at WSMR.

One of Original Systems
Dovap is one of the original instrumentation systems on the range. It was the only system to fully instrument the 1949 "Bumper Project" altitude record when the V-2 and the WAC Corporal teamed to blaze 250 miles into space above White Sands Missile Range.

The history-making use of dual-Dovap followed more than two months of intensified preparation by Electronic Measurements Section.

Involved in the trial were such problems as the installation in the tiny missile transponder — a delicate three-inch by eleven-

FINAL 'FLYING FORTRESS' DRONE SHOT DOWN

White Sands Missile Range, N. M. — The QB-17 is an extinct bird.

The Navy and the Air Force took pot shots to kill the last of the dived World War II Flying Fortresses last week at White Sands Missile Range.

The death of the last bird brought to an end an era that began in August of 1942.

It also climaxed more than 600 Flying Fort target missions over WSMR by the Air Force's 3225th Drone Squadron which supplies aerial target support for the Integrated Range Mission at the 4,000 square-mile New Mexico test center.

The farewell flight was the last mission that ever will be scheduled by the Air Force for the remote-controlled Fort.

The lumbering four-engined giant flew 250,000 sorties over Europe during the war, pounding the enemy with a half-million bombs, fell, ironically, under the Air

Force fire.

The 17 proved its prowess as a remote-controlled drone in the fall of 1944 when two of the ships were crammed with high explosive and flown on a pilotless suicide mission into German rocket sites in northern France.

The Fort's last official raid of World War II was logged on April 25, 1945.

In August of the following year two B-17s outfitted as drones were flown remotely from accompanying mother craft from Hawaii to California, a 2,000-mile jaunt without a human touching the controls.

The Air Force turned in a thousand missions with the QB-17 as a target. More than 600 of these were flown from Holloman Air Base by the 3225th Drone Squadron tenant group to support Army, Navy and Air Force tests at White Sands Missile Range.

Such missiles as the Army Nike Ajax, Nike Hercules and Hawk, the Navy's Talos and the Air Force Falcon and Sidewinder were proven against the target

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inch package containing receiver, transmitter, amplifier and power supply — of special crystals that cut down the bandwidth of the receivers so that one receiver would reject the incoming transmission intended for the other.

Primary immediate advantage in the use of dual-Dovap, developed at WSMR in the Electronic Measurements Section labs, is that missile projects using the 4,000 square-mile range will be able to more readily compare the performance of missiles under simultaneous flight.

ship.

So an era ends. The missile range loses an old friend.

The sky is filled with faster drone targets such as the QF-80 jet or the Q-2 Firebee and the Army's own Q-5 supersonic target missile.

But to the airmen who flew the Fort during World War II and to the missilemen who used the 17 as a clay pigeon in recent years, the powerful old monster will remain a sentimental memory.

Complete Book Service

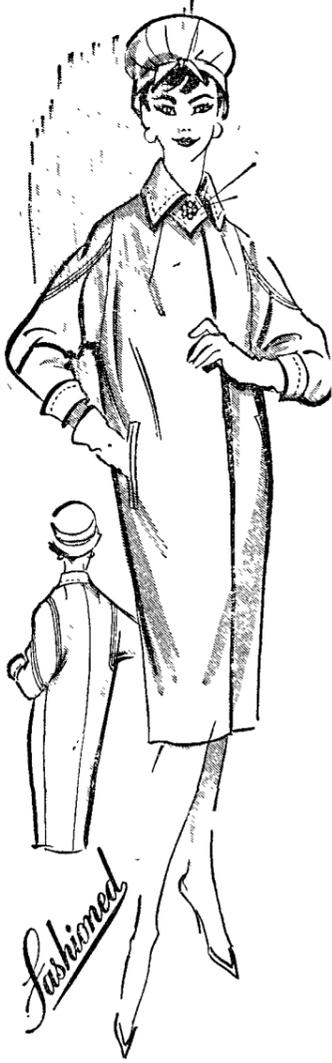
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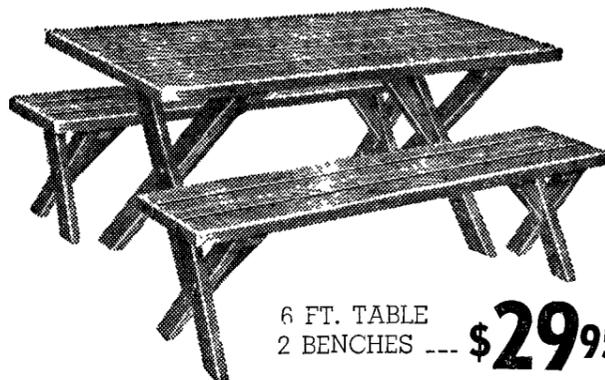
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GOLF GROUP HOLDS HAT TOURNAMENT

Mrs. H. E. Fite, Mrs. W. F. Kaiser, and Mrs. F. E. Napper made up the winning threesome in the Hat Tournament held last Wednesday morning by the golf group of the Redstone Officers Wives Club.

In the previous week's competition, low score on odd holes, winners were Mrs. Fite and Mrs. J. B. Levaas, tied in the first flight; Mrs. J. G. Zierdt, second flight; and Mrs. J. N. Jean, third flight.

This morning the group is competing for best poker hand for nine holes to be followed by a picnic box lunch. All members of the Wives Club are invited to participate in the activities of the golf group, which meets Wednesday mornings at the Redstone Arsenal Golf Course.

BASEBALL SCOREBOARD

"B" Det OGMS 13; "B" Det ABMA 0.

Hq Det UTC 20; M & I OGMS 1.

"B" Det ABMA 8; Hq Det USAG 1.

"A" Det UTC 7; Hq Det USAG 0.

Hq Det UTC 4; Hq Det USAG 3.

"B" Det ABMA 8; M & I OGMS 5.

"A" Det OGMS 4; Hq Det UTC 0.

"A" Det OGMS 5; "B" Det OGMS 1.

BASEBALL SCHEDULE August 13-19

"B" Det ABMA -vs- "B" Det OGMS 1930.

M & I OGMS -vs- "A" Det OGMS 1930.

Hq Det UTC -vs- "B" Det OGMS 1930.

Hq Det USAG -vs- "B" Det ABMA 1930.

"B" Det OGMS -vs- M & I OGMS 1930.

"B" Det ABMA -vs- Hq Det USAG 1930.

BASEBALL STANDINGS As of August 9

	WON	LOST
"B" Det OGMS	14	5
"A" Det OGMS	13	6
"B" Det ABMA	9	8
Hq Det USAG	8	12
M & I OGMS	7	11
Hq Det UTC	7	12



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QUIZ

1. Who holds the lifetime record for shutouts in the National League?

2. Who holds the major league mark for stolen bases in one season?

3. What major league team holds the record for the longest consecutive game-losing streak?

4. What professional football team did American League umpire Hank Soar play for as a star lineman?

5. Who made the classic wrong-way run in the 1929 Rose Bowl game between California and Georgia Tech?

(Answers to Quiz)

1. Grover Alexander with 'a career total of 90.

2. Ty Cobb with 96 in 1915.

3. Cleveland as a member of the National League in 1899 lost 24 straight.

4. The New York Giants.

5. California center Roy Riegels.

ARMY POLAR TEAM MAPS GREENLAND

Washington (AFPS) — Army polar research experts have established a base 500 miles from the North Pole and completed the first leg of a 1,800-mile journey toward previously unexplored areas of Nyeboes Land in northern Greenland.

Made up of 41 volunteer experts, the party left Camp Tuto, near Thule, Greenland, May 15 and will march over snow routes on the Greenland Icecap toward the northernmost region of the Arctic island.

Known as "Operation Lead Dog," the expedition will also conduct snow and ice studies, investigate weather conditions and determine simplified methods of polar navigation and transportation. The party will also study off-shore pack ice and will attempt aircraft ice landings.

The volunteers are assigned to the Army Transportation Environmental Operation Group of Ft. Eustis, Va. They are accompanied by scientists of the Corps of Engineers, Snow, Ice and Permafrost Establishment; the Signal Corps, Quartermaster Corps and the Transportation Research and Engineering Command.

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World of Sports

CANOEING, considered by many to be a lost art, is still the best way to travel to those out-of-the-way fishing spots that can't be reached by wheels or air travel. And there are still hundreds of such places in the world.

Lighthweight and inexpensive when compared with other types of boats, they can travel in places where an outboard or inboard wouldn't be able to move. Despite a lot of tales to the contrary, they are easy to handle if a little care and common sense are used.

Although the majority of American-built canoes are built with a stern thwart (seat) even with the gunwales, veteran canoeists will use these for back rests rather than sitting. This lowers the center of gravity and lessens the chance of tipping over. It also is easier to paddle correctly if the stern man is kneeling on the bottom.

Remember, a canoe is not a rowboat and paddles are not supposed to be used like oars. In the stern or bow position the paddle should be as nearly vertical as possible during the stroke; never across the chest except on recovery.

The sternman dips his paddle close to the canoe and pulls straight back in a line with the course, ending with a slight push outward.

The bowman sets the tempo of the stroke and also pulls straight back. He should start his paddle away from the bow and draw it back in a line parallel to the keel.

Handling an empty canoe alone poses problems for the beginner, but they can be overcome if he'll kneel in the center of the canoe with his weight just in back of the center of the craft. This way the canoe sits level in the water and is less susceptible to wind drift.

Canoeing can be enjoyable and rewarding for the adventurous

New Detection System Is Delivered to Army

Washington (AFPS) — The first production units of a new enemy aircraft detection system have been delivered to the Army at Ft. Bliss, Tex.

Designed to pinpoint data on approaching hostile bombers and feed it instantly to missile batteries, the units are completely mobile and intended for use in the field.

The new system, with other electronic devices, cuts plotting and firing time from "minutes to split-seconds," the Army said. The entire system is housed in five 2½-ton trucks — an "operator central" vehicle and four coder-decoder group trucks.

Called to MSQ-18 by the Army Signal Corps, the system is part of a \$30 million contract awarded to Hughes Aircraft last August.

The Army, explaining operation of the MSQ-18, said the "central" may be manned by a single operator. Through him the commander can assign specific airborne targets to missile batteries.

Making rapid evaluation of information furnished by other radar systems currently used in missile battalions, a commander can use the new detector as an independent tool.

Using the MSQ-18 in this way the commander can monitor a swiftly changing tactical situation for the air defense of his sector and avoid time-consuming telephonic reporting and manual plotting of the targets.

Current production schedules call for the completion of the multi-million dollar contract by February 1960.



BASEBALL BOOSTER — Pin-striped poster girl Pat Carrell is the "Mission Maid" for the community-owned San Antonio, Tex., baseball team.

Movie Schedule

Wednesday, August 12, "Dangerous Youth" starring Frankie Vaughan, Jackie Lane and Carole Lesley. Time 1315, 1745 and 1945.

Thursday and Friday, Aug. 13 and 14, "Anatomy of a Murder" starring James Stewart, Lee Remick, Ben Gazzara, Arthur O'Connell, Eve Arden and Kathryn Grant. Time 1300, 1745 and 2045.

Saturday, Aug. 15, Special matinee: "Return To Warbow" starring Phil Carey and Catherine McLeod. Time 1000.

Saturday, Aug. 15, "The Sheepman" starring Glen Ford, Shirley MacLaine and Mickey Shaughnessy. Time 1745 and 1945.

Sunday and Monday, Aug. 16 and 17, "Ten Seconds To Hell" starring Jeff Chandler, Jack Palance and Martine Carol. Time Sunday 1400, 1745 and 1945. Time Monday 1315, 1745 and 1945.

Tuesday, Aug. 18, "The Bat" starring Vincent Price and Agnes Moorehead. Time 1745 and 1945. No Matinee.

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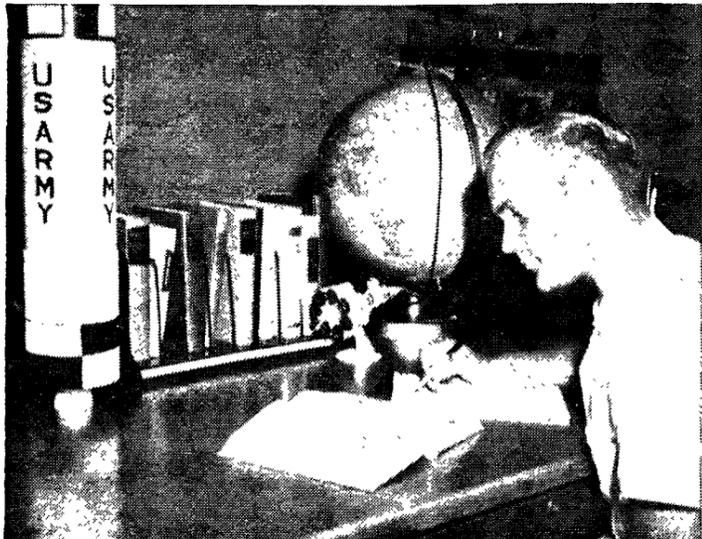
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ENGINEERING PROBLEMS—Bill Perry, mechanical engineer with a degree earned at the University of Alabama last Spring, ponders a problem at the Guidance and Control Laboratory of the Army Ballistic Missile Agency. Perry is one of the five ABMA employes who received degrees recently at the University. All five took night courses at the University Center in Huntsville while working at ABMA, prior to one semester of residence work at the Tuscaloosa campus.

* * * * *

Five ABMA Men Earn Technical Degrees

Five employes of the Army Ballistic Missile Agency earned university degrees this spring and held jobs at ABMA at the same time.

ABMA is an element of the U.

S. Army Ordnance Missile Command at Redstone Arsenal. The Command is responsible for all missile and space programs assigned the Army.

All of the men earned credits in night courses at the University of Alabama Huntsville Extension Center while employed here.

Each was given some financial assistance and time away from their desks to complete on-campus requirements at the university campus, Tuscaloosa, under the Army's program to assist in the education of outstanding career personnel.

Some of the employes from ABMA spend one semester on the campus on TDY, and pick up the financial obligation themselves for the final semester.

Bill Perry, who attained his degree in mechanical engineering, was the top man academically in his class this spring. An Air Force veteran who served in Arabia and Bermuda during his military career, he started night courses at the University Center while employed at the Huntsville-Madison County airport as a mechanic. He

later joined the staff in the Future Projects Design Branch in the Structures & Mechanics Lab and continued his studies at the Center.

He considered studying aeronautical engineering, decided on mechanical engineering as practical for him, and completed his studies for a degree in this field. His parents, Mr. and Mrs. W. C. Perry, live at Huntland, Tenn. Perry completed high school at Hazel Green, Ala., before he entered the Air Force.

Perry's campus roommate shared an interest in ABMA. He is Emsley T. Deaton, Jr., an electronic technician in the Guidance and Control Laboratory. Deaton majored in physics and math.

They had another experience in common. Both served in the Air Force. Deaton's overseas service was in England, but most of his service time was spent at MacDill AFB, Fla.

However, hobby time was filled in a very different manner. Perry earned a pilot's license, and Deaton fished.

Both men are bachelors. Perry lives in Huntsville with his aunt, and Deaton on U. S. 231 South of Huntsville with his parents.

The other three men who earned university degrees are married.

Kenneth N. Letson, who already had a bachelor's degree in liberal arts from the university when he joined the ABMA staff, earned his degree in mechanical engineering. He started his technical studies while working at Thiokol Chemical Corp., in 1954.

Letson started working at the Structures and Mechanics Laboratory as an engineering aide. He is now an engineering technician.

Mr. and Mrs. Letson, the former Miss Betty McBride of Huntsville, have a four-year-old son, Richard. The family resides at 2011 Bide-a-Wee Drive, in Huntsville.

George Tovar, mechanical engineer in the S&M Laboratory, first came to Redstone Arsenal as an employe of an engineering

contractor firm.

Tovar was born in Colombia, South America, and learned his basic English in school there. When he joined his grandmother in New York, he discovered his ear was not accustomed to U. S. pronunciations. A bewildering fact at first, Tovar soon commanded enough language knowledge to study at various schools, including an evening college which offered courses in drafting and mechanical design.

Armed with this knowledge, he got a job with the contract engineer and designing firm which later assigned him at Redstone. Meanwhile, Tovar worked in Youngstown, Ohio, on Long Island, in Danbury, Conn., and at the Brooklyn and Boston Navy Yards.

While at Redstone, he met and married Miss Jane Riggsby, a secretary for the same contractor.

The couple now have a 13-month-old son, George Duncan. They live at 2214 Bide-a-Wee Drive, Huntsville.

Tovar's earlier work often dealt with designs for missile components.

The fifth man in the group is Lee O. Webster of Hartselle, Ala. Webster, when approached about a class ring, designed a special one with a Jupiter missile beside the crest.

Webster graduated from Cotaco high school at 16 and was a veteran, discharged from Army service with an explosives demolition (See FIVE on Page 10)

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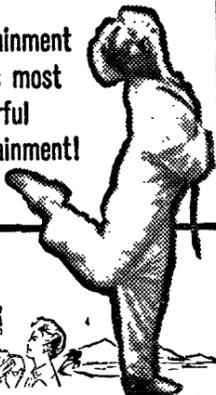
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FIVE

(Continued From Page 9)

tion team in Korea by the time he was 19.

He started college before he was 20. Webster interrupted his studies for financial reasons and came to work in the Structures and Mechanics Lab, April 1956, continued his studies for a degree in physics at the University Center, and returned to the campus under the ABMA program to aid its bright and ambitious young men. While on the campus at Tuscaloosa, Webster married a member of the nursing school faculty, Miss Sarah Loggins. She continued to teach while he studied.

Webster's hobby was formed when he was in the Army. He likes to experiment with various explosives for his gun shells when he has the time. He's also tracing the history of his family from the days when a great-great-grandfather was a steamboat pilot for the Confederates.

There are others in the ABMA program who are continuing to study toward degrees.

They are reaching goals set for themselves because they recognize on-the-spot opportunity.



EMPIRE QUEEN — Pretty 19-year-old Elizabeth Holmes has been elected Miss New York City but she's a credit to any community that admires beauty. The Miss America pageant in September will be her next competition.

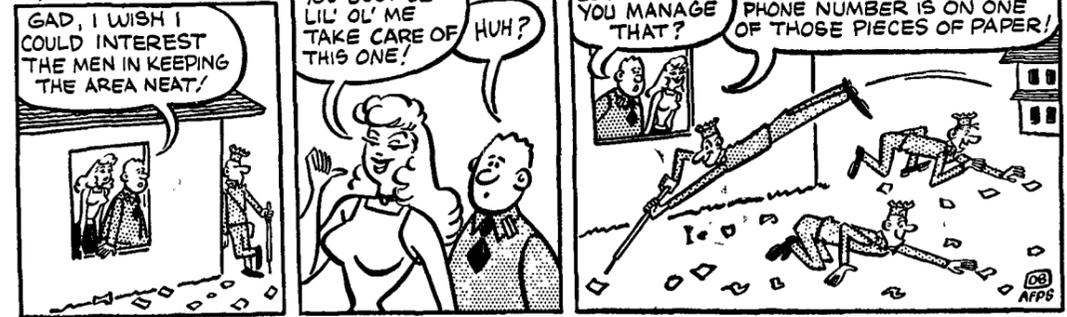
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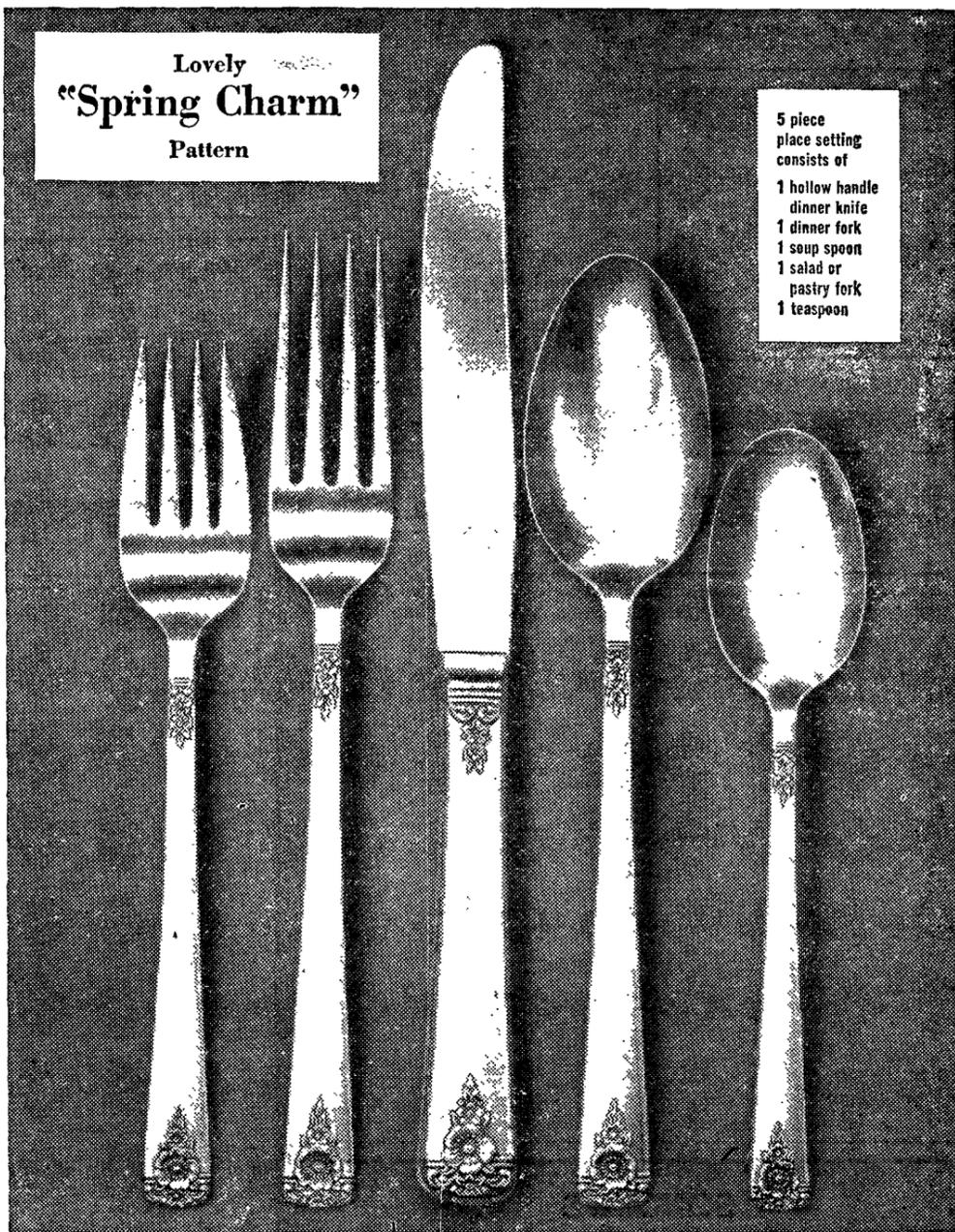
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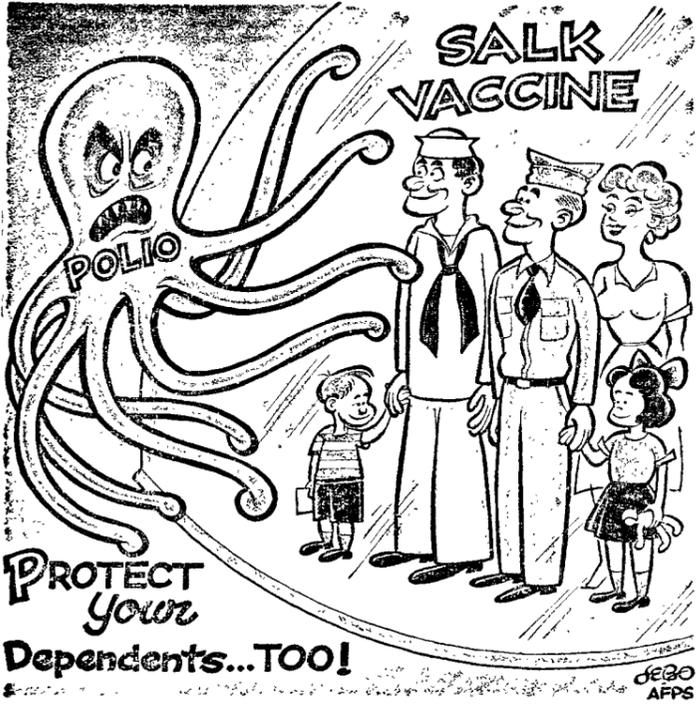
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HIS FIRST JUMP TAKES HIM UP

Ft. Rucker, Ala. (AFPS)—His first parachute jump was one for the books, but finally Army 1st Lt. Robert Farris proved that what goes up must come down—by doing both.

At 2,500 feet the lieutenant "hit the silk" from an L-20

liaison plane used for training by the Army Aviation Center here.

But he didn't go down. Instead he went 500 feet up.

He had been caught in an up-draft caused by a thunderstorm.

Usually a jump at 2,500 feet takes about a minute and a half. But the lieutenant landed 29 minutes later, unharmed by his freak ride. He was three miles from where he had jumped.

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OPTICAL COMPARATOR—Miss Vera Campbell, mathematician in the Data Reduction Branch of the ARGMA Test and Evaluation Section for the Ordnance Missile Laboratories, adjusts an optical comparator to follow the flight trajectory of a test missile.

MISSILE BEHAVIOUR STUDIED BY DATA REDUCTION UNIT

Machines that "tilt" when set wrong, solve mathematical equations with the speed of a blinking eye, set off an alarm when too hot, and reduce missile firing data to mathematical forms, are a part of the equipment used daily in the Data Reduction Branch for Ordnance Missile Laboratories Test and Evaluation Section.

The branch is the Army Rocket and Guided Missile Agency's clearing house for information concerning missile flight tests, pre-flight tests, and static tests.

The machines in the Data Reduction Branch are put to another use daily. The costs in manpower and material are run through the machines so that there is a continuous record of the overhead of the Ordnance Missile Laboratories.

"The big challenge," Wilfred Roth, chief of the Branch said, "comes from the raw data gathered by various means during the tests. This is reduced to workable mathematical records from which the test men can either correct or improve the function of a missile.

The tests cover many phases from inert components enduring extremes of heat and cold, to complete missile systems test-fired by troops."

Roth came to Redstone while in the Army in 1950. He is a native of Ohio where he majored

in mathematics at Athens College.

The optical comparators where the film record of a missile flight is fitted on a light table for accurate measurement play an important part in the operation. If a missile "staggers" down the range with a pitch and yaw, doesn't accelerate according to expectations, or plays other tricks not in the theoretical flight pattern which was run earlier, these men become regular detectives.

With the specialized technique acquired by the Branch over the years, even the summer students learn to operate the comparators with facility and are able to measure off the points at which a given event occurred in flight.

While manually operating the measurement controls, which look like movable cross-hairs on a telescope sight, the information can be fed into a computer. The computer is connected to an IBM card punch, a tape punch, and an electric typewriter. Simultaneously three forms of the test record are made for the programmers.

Kermit Hudson, chief of the Pre-Flight Data Reduction, handles the information on static firings in his section.

The information in a particular case might come from a contractor experimenting with a new motor fuel here. The results of the test would be determined from the information gained through such activities as artificially aging the fuel, burning time, thrust capability, and other factors relating to a potent propellant.

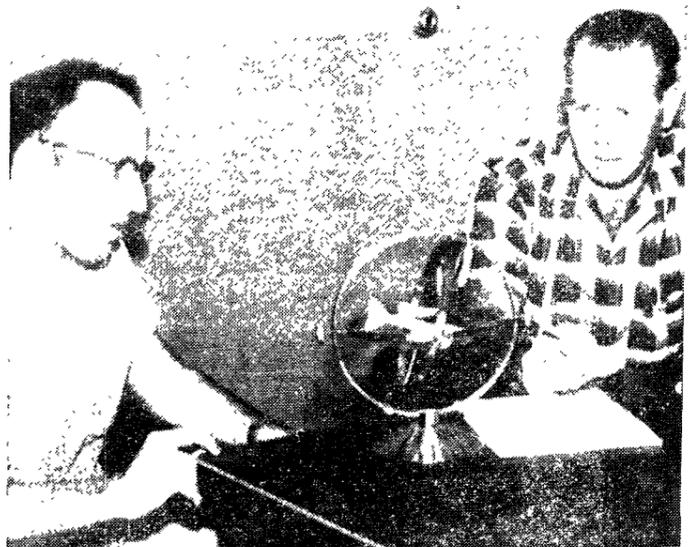
Or, the information might concern the capability of a missile shell to readjust from burning desert sun to sleet and snow without decomposing. All types of weather conditions would be simulated for climates from pole to equator with accompanying phenomena of the elements. From such tests, theoretical specifications can be surprisingly accurate on an actual flight test.

In the heart of the Data Reduction Branch are two computers: the Elecon 120 installed in 1955 and the more recently installed Datatron 205.

Two men, Mark Weldon, chief of Data Methods and Analysis Reduction, and Eddie Brooks program all the information fed into these machines which spit out tabulations, punch IBM cards, and tape record the programs. The tapes are stored as "memory" drums.

The raw data is gathered in several ways. Fixed cameras on the range, tracking cameras, doppler radar, radio-telemetry and electronic packages in the missiles are used to gather data.

Sometimes there are gaps in the raw data the trackers ac-



DATA REDUCTION CHIEF—Wilfred Roth (left), chief of the Data Reduction Unit, Test and Evaluation Branch of the ARGMA Ordnance Missile Laboratories, and Mark R. Weldon use a model for demonstrating the kinematics of rockets, in discussing a deviating rocket trajectory. Weldon is in charge of programming information to be fed into the computers.



AUTOMATIC PLOTTER—Ibern MacDonald, mathematician in the Data Reduction Branch of the ARGMA Test and Evaluation Section, Ordnance Missile Laboratories, uses the automatic plotter to graph a missile trajectory. The plotter is controlled by the computer in the background which feeds the plotter information from pre-punched cards.

quire. When this happens, the men manually work out the uncertainties through mathematical procedures. This is possible because the Data Reduction men are familiar with possible reasons for flight deviation as well as the pre-estimated trajectory programmed before the firing. All flight tests go through the

Systems Data Reduction Section which is headed by Tom Collier. The men consider the machines "incredibly stupid" since they will tabulate whatever information is fed them, nothing more, but the men are happy to have the machines which work fast and eliminate hours of routine (See MISSILE on Page 13)

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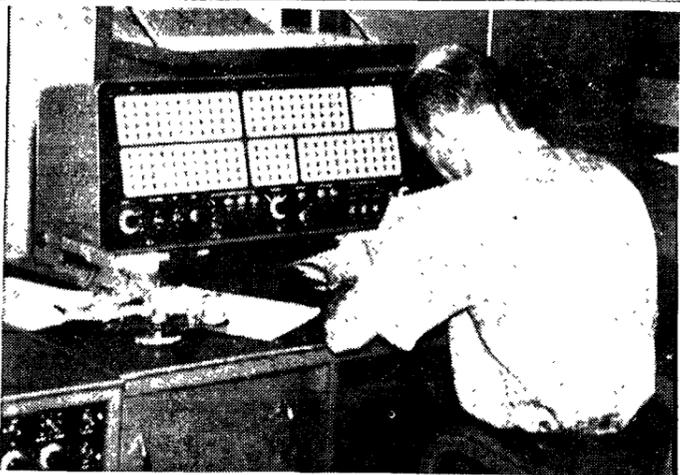
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AERODYNAMICS EXPERT—Bob Becht, expert in Aerodynamics, measures stresses from a wind-tunnel experiment on a missile model at the ARGMA Data Reduction Unit of the Test and Evaluation Section, Ordnance Missile Laboratories. Becht uses the computer in lieu of hours of mental figuring that the machine can do in a matter of seconds.

MISSILE

(Continued From Page 12)

labor. It takes only one operator to feed a carded program to the Elecon. Lights flash on both computers as the combinations of mathematical processes move through the machine. An electric typewriter automatically tabulates miles of figures without the errors which sometimes creep into human work.

The complete equipment keeps Charles Baird, engineer, on his toes. Maintenance of machines, which "do everything" when fed

information is sometimes complicated. New designs and modifications on the machines are also a part of his responsibility.

If the plotter keeps showing the "tilt" light and the paper is adjusted according to scale with the electronic computer, the engineer ferrets out the trouble. If the computers start buzzing and snarling like fire alarms, he has to determine whether they are merely overheated or really overworked. (They must have air-conditioning for proper functioning).

Another important field in missilery is aerodynamics. Bob Becht is a specialist in this field. He aids an element of the Ordnance Missile Laboratories with aerodynamic problems. He also designs missile models for experimentation of aerodynamic forces, monitors tests, and visits wind tunnels at other installations as a trouble shooter.

Roth is enthusiastic about the work members of his section turn out—from summer employees to old hands.

He believes that each feels the challenge of following a missile from a theoretical drawing board flight, through the stages of environmental development and sta-

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Charley Noble



Births at Post Hospital

Stephanie Robin Constance, 7 lbs 6½ ozs. 27 July, daughter of Lt Col. and Mrs. Philip W. Con-

stance. Janice Layne Williams, 10 lbs, 8½ ozs, 28 July, daughter of Sic and Mrs. Arthur L. Williams.

John Carlyle Thompson, 6 lbs. 14½ ozs, 28 July, son of T-Sgt and Mrs. Malcolm R. Thompson.

Bruce Michael Buttweiler, 5 lbs. 14 ozs. 29 July, son of 1st Lt. and Mrs. Thomas B. Buttweiler.

Mark Alan Crandle, 9 lbs. 5½ ozs., 30 July, son of A-C and Mrs. Thomas E. Crandle.

Ricky John Kopczyński, 6 lbs. 10 ozs., 31 July, son of Pfc and Mrs. John J. Kopczyński.

Kathy Jill Duncan, 10 lbs., 5¼ ozs., 1 August, daughter of M-Sgt and Mrs. William O. Duncan.

Deborah Christine Smith, 7 lbs., 1 ozs., 1 August, daughter of Sp-4 and Mrs. Charles E. Smith.

Timothy Richard Sachs, 9 lbs., 5½ ozs., 2 August, son of Pfc and Mrs. Richard C. Sachs.

Riccardo Enrico Petitpas, 8 lbs., 4 ozs., 4 August, son of Sp-6 and Mrs. Robert H. Petitpas.

Jeanne Marie Cole, 7 lbs, 6¾ ozs., daughter of Pfc and Mrs. William F. Cole, Jr.

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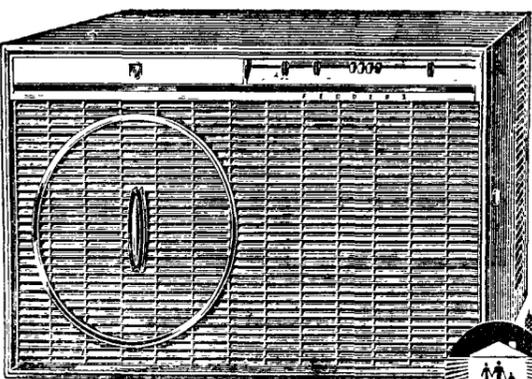
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M. H. PARKER

Parker Is Named Safe Worker of The Week

Mack H. Parker, Logistic Div, USAOGMS, has been selected the Safe Worker of the Week.

Parker was nominated by his supervisor and appointed by the Redstone Safety Div.

He is a sign painter with the school. Parker has worked at his trade 40 years without a single disabling injury. This is an outstanding record considering the type exposure. In his work he handles quantities of hazardous liquids which are both toxic and flammable. His work at

times, is in high places on ladders and scaffolds.

When asked to what did he attribute his long accident free record he said "I learned very young that accidents could be avoided by just simple horse sense; that you would save time doing things the safe way.

"This applies at work, at home, on the highways, waterways or in the fields hunting." He has driven his automobile since childhood without a single accident. Parker believes that his work for the Dupont Co. helped

mold his belief in safety.

The safe worker of the week is a native of Alabama. He and Mrs. Parker live at 4303 9th Ave. W., Huntsville, with two of their children Charles 9, and Charline 11. They have two married children, Richard who lives in California, and Milton who lives in Florida.

Parker's hobby is experimenting with electricity. Here too he knows he has to be on his toes at all times to prevent a serious accident.

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 On Athens Pike. Near Indian Creek. Reasonable.

WEST LAWN
 4518 Cypress Avenue. 3 bedroom, reconditioned inside and out, on large lot with double garage, storage room on back of garage. Must be seen to appreciate. And many others.

BEAUTIFUL RIVER LOTS
 Located on Paint Rock River. Go Hwy. 431 across Huntsville approximately 14 miles and look for our sign on right. Turn right. Salesmen on premises Saturday afternoon and all day Sunday. 10% DOWN. 3 YRS. ON BALANCE.

WALKER LANE
 One 110'x423' lot with a \$4250 trailer completely furnished with attached 12'x22' bedroom. Will sell all the above listed property for only \$4850. Look for our sign on property.

WEST HOLMES
 Beautiful large home on an extra large lot. Reasonably priced.

BUSINESS LOTS ON PARKWAY CAPSHAW
 Grocery store and apartment. Doing good business. Go by and look at this today.

C. F. Stinnett . . . Night JE 2-8716, or Office JE 6-9901

C. F. STINNETT

REAL ESTATE BROKER
 714 Meridian Street, North

Safety Scoreboard

(As of 10 August)

Days since last civilian disabling injury	8
Our goal	60
Days since last military disabling injury	4
Our goal	30
Days since last contractor personnel disabling injury	26
Our goal	50
Days since last government motor vehicle accident	4
Our goal	30

DRIVING RECORD (Government Vehicles)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	10	13
Post Engineer Div. (RSA)	11	23
Provost Marshal Div. (RSA)	14	4
Depot Operations (RSA)	14	5
All Other RSA	6	13
Thiokol (ARGMA)	7	24
All Other ARGMA	3	115
OGMS	11	13
ABMA	6	4

Everybody needs money sometime when you do... visit MUTUAL!

If you need UP TO \$2000

phone: JEFFERSON 6-8591 before noon to arrange for money the same day!

Amount of Contract	Cash You Receive	18 Monthly Payments	Total Cost of Loan
\$360.00	\$314.28	\$20.00	\$45.72
432.00	376.33	24.00	55.67
504.00	442.39	28.00	61.61
684.00	607.52	38.00	76.48
900.00	805.69	50.00	94.31
1260.00	1135.96	70.00	124.04

The above does not include insurance

MUTUAL FINANCE & THRIFT CORPORATION OF HUNTSVILLE.
 106 South Side Square
 Phone: JEFFERSON 6-8591

Open daily 9 to 5 • Saturday 9 to 3
 Serving the South for over 30 years

Lakeview Acres

Lots

\$100.00 Down

\$30.00 MO.

Priced From

\$650.00

to

\$1250.00

- Fishing
- Swimming
- Boating
- Picnic Area
- Bar-B-Q Pits
- Tables

All This Just 4½ Miles From City Limits

Large Lots for Homes or Trailers

PHONE JE 6-7811



HUNTSVILLE'S PROUD

NEGRO FAMILIES

ARE BUYING

NEW HOMES

IN EXCLUSIVE

"EDMONTON HEIGHTS"

HAVE YOU CHOSEN YOURS?

For Complete Information Call JE 2-5643

Use Wantads

WANT AD RATES — \$1.50 minimum, per weekly insertion, covering first 25 words. 4 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. Mail copy with payment to Mrs. Zillah Newsome, P. O. Box 346, Huntsville. Deadline is Monday, 9 a. m. for the week's edition.

TELEVISION — 21" Raytheon. Same as new. \$69.00. Call JE 4-1191. 1tc

FOR SALE — 1959, 15' Trident Glasspar fiberglass boat, 50 h. p. Evinrude motor, Deluxe control, lights, trailer, boat cover, complete rig only 2 months old, phone JE 6-5581, ext. 407 between 8 a.m. and 4:30 p.m. 1tc

FOR SALE — 2 lots in Bentley Subdivision, ideal for trailer or Shell home. For further information Phone JE 6-3530. 1tc

FOR RENT — Unfurnished in Decatur, 3 room downstairs apartment, bath, newly decorated. Nice yard and porch. \$50.00 per mo. Phone Decatur, ELgin 3-6482. 1tc

GE WASHER (Wringer Type) — Like new. \$39.95. Phone Burns, JE 4-1191. 1tc

FOR SALE — 45'x10' Trailer. Near new, will sacrifice equity for best offer of cash, car, lot or house equity. Each offer carefully considered, or will rent \$110.00 per month. Phone JE 9-1572 after 4:30 p.m. 1tc

FOR RENT — 4 room apartment, 2 bedrooms, also small trailer, apply City Trailer Park, 311 Holmes Ave., N. E. 1tp

PONY FOR SALE with saddle. 2 wheel cart, harness, 2 bridles, \$285.00. LLOYD BABB, Phone 6-5021, Highway 72. 1tp

FOR SALE — 1955 National 2-bedroom trailer, excellent condition, awnings, living room carpet, tub and shower, owner transferred. Phone JE 6-5473. 1tc

LADIES — Are you interested in a new method of advanced skin care and teen-age skin care for your daughter? Let me give you a free demonstration from the Laina Greer Cosmetics. Phone Mrs. Odell Whitt, JE 2-3247. 1tc

FOR SALE OR TRADE — One bedroom house trailer in excellent condition. 31' long. Price \$1450.00. Also 1952 Ford 1/2 ton pick-up truck. \$325.00. Phone Ext. 6284 after 1700 hrs., JE 6-0865. 1tp

ARDMORE ESTATES — Only 2 1/2 miles from Arsenal. Jordan Lane — just beyond Highway 72. Come on out and browse around. We will have a few ready for occupancy soon. The Ardmore Estates will represent approximately 32 families on completion. CLOWERS, JE 6-8980. 1tc

FOR SALE OR TRADE for equal value — Jadeite worth approximately \$10,000.00 up for \$3500.00 cash. Phone JE 4-6592. 1tc

FOR SALE — 3 bedroom Brick by owner. Assume 4 3/4% GI loan. Less than one year old. \$79 month. Low equity. 20 minutes from Arsenal Gate 1, in Athens. Phone 1991-W. 1tp

HOUSE FOR SALE—3 bedrooms carport and patio, FHA financed. No down payment. Move in as soon as house is finished. About three weeks. Phone JU 6-3055 after 7:00 p.m. 1tp

AVAILABLE NOW FOR TWO— nice room, twin beds, private entrance, private bath. Phone JE 6-2686 or JE 4-9493. 1tc

FOR SALE — 1 male, 1 female, toy Boston Terrier, 19 weeks old. AKC registered. Beautifully marked. \$50.00 female, \$45.00 male. Phone 6-9982. 1tp

FOR SALE—Mercury, 1958 Monterey, 4 dr. hardtop, power steering, radio and heater, 312 h.p., low milage, dealer has offered \$1800. Make me an offer. J. WILCOX, Ext. 5882 or Decatur EL 3-5447. 1tp

MUST SELL — 1957 2 bedroom house trailer 43'x8'. Very low equity and take up payments of \$79.00 a month. May be seen at Lot No. 19. TRIANA MOBILE COURT. 1tp

DRYER — Norge 1959 Electric, new floor sample. \$119.00. \$15.00 down, easy payments. Phone JE 4-1191. 1tc

AM INTERESTED IN BUYING some additional Barbell plates for my Barbell set. Also interested in a combination Barbell Rack. Call JIMMIE, JE 6-4411, Ext. 2832. 1tp

FOR SALE — 1959 Marlin 15 foot fiberglass runabout. 35 h.p. Gale Sovereign, electric start, generator, with easy-load Hilltop tilt trailer — \$1450, EL 3-4097, Decatur. 1tp

HIGHLANDS — 2424 Suzanne Terrace, 3 bedroom (1 paneled) brick, ceramic tile bath, lots of kitchen cabinets with built-in table, attached garage with large storage room. Includes 1-ton air-conditioner and TV antenna. Purchase low equity and assume 4 1/2% GI loan. JE 6-5855. 1tp

FOR SALE—In Honeycomb Park. Two four-room houses with bath, and large screened porch. 1 waterfront, one within 500 ft. of water. Terms can be arranged. Call John R. Whitaker. JU 2-4404. 1tp

DRESS WHITE UNIFORM for sale. Duck, size 38, cap 7/4, worn one season. Extra chin strap. \$28.00 complete. Lt. Kennedy, Ext. 3210 days, 7041 quarters. 1tp

FOR SALE — 1959 Volkswagen Karmann-Ghia. Call JE 6-0614 after 5:00 p.m. 1tp

FOR SALE — 14 ft. aluminum boat with 25 h.p. motor, \$450. Phone JE 6-8405, 616 Vance Road. 1tp

KINDERGARTEN — 4 & 5 years WESTLAWN near JORDAN LANE. Limited enrollment. Now open. Call JE 6-2206, Mrs. Wesley Swift. 2105 N. Rose Drive. 8-19p

FREEZER — New 1959 Norge 15 cu. ft. upright. \$227.77. Floor sample less than wholesale \$23.00 down and low monthly payments. Call JE 4-1191. 1tc

ROOM FOR RENT — Nicely decorated room for rent to two working girls with good habits. Share house with middle aged lady. Kitchen privileges. Call JE 9-3589 or JE 2-8319. 1tp

OUR REGULAR AUCTION SALE will be discontinued until further notice. Warehouse Sales Co., 5013 Governor Drive. Phone JE 6-2103. 1tc

Near new house trailer in West Huntsville, one bedroom, bath, television, air conditioning, patio with awning, water and power furnished, electric wash room available. No meters, all for \$22.50 per week or \$90.00 per mo. J. D. Condra, phone JE 4-0398. 1tc

FOR RENT OR SALE — 27' American Mobile Home, fully modern, including patio awning. See at Whiteway Trailer Park, Lot 103 or Call BILL SLY, JE-6-1515. 8-12c

AUCTION SALE—Our next auction sale will be held Friday night, Aug. 14, 7:30. There will be plenty of good used furniture and appliances and other useful items. Prizes given all during sale. (Use your cents to save dollars). Warehouse Sales Co., 5013 Governor Drive. Phone JE 6-2103. 1tc

BUILDING SITES — At beautiful Vallaha Park, two miles west of Lacey's Spring on Highway 36 (five miles from Arsenal). Half-acre and acre tracts. S. S. FRANCIS, RFD4, Hartselle, Ala., pho. SP 3-7652. 1tc

WHY LOOK Further for choice building lots suitable for duplex or apartments? Just call JE 2-2652 for interesting information. 1tc

FOR SALE in Guntersville city limits on the lake - 6 room, 3-bedroom home with large play room, air conditioned, 180'x360' lot. Fully landscaped, patio in rear, house 3 years old, for sale by original owner. Will be sold below FHA appraisal. May be seen by appointment by calling Redstone ext 4816 or Guntersville JU 2-4651. 1tc

HOUSE FOR SALE — Hartselle: year-old, 3 bedrooms, living room, dining room-kitchen combination. Ceramic tile bath, knotty pine kitchen and cabinets. Aluminum awnings. 132'x 295' lot. No closing cost, no discount, \$750 down, assume \$67 payments, includes insurance, tax. Consider taking side note for part down payment. 120 W. Holloway St., 1/4 mile W. Hwy. 31, turn right on Holloway next last house on right. Call after 5 p.m. or weekends. Spruce 3-4711. DAN B. DOBBS. 1tc

LIVE IN ATHENS — Happy neighborhoods ready to occupy. Save \$2,000 to \$3,000 on 3 bedroom brick veneer homes, \$12,500 to \$14,000. Lots \$1,750.00. Athens Real Estate, Athens, Ala., phone 1181. Mahlon Jones or Wayne Jennings. 1tc

UTILITY TRAILERS FOR RENT — Vans and opens, sizes 4x5 to 5x13, rent local or 1 way. Hitches, tarps furnished free. Phone JE 6-5241 or JE 2-5011 days or JE 2-5886 nights. 9-9c

SAILPLANE CLUB BEING ORGANIZED—if interested contact Lloyd A. Swann, 3511 Cayman Rr., phone JE 2-5886. 8-12-c

FOR SALE — Approx. 40 pounds of Jadite worth between \$3,500 and \$10,000. Will sell for \$2,500. Contact Anthony, phone JE 4-6592 evenings. 1tc

FURNITURE & APPLIANCE BARGAINS
Drive out and see our display of quality home furnishings at wholesale prices. Our low overhead permits us to give you extra discount savings. Ask about our easy pay plan. Furniture Outlet Store, Meridianville, Ala., phone JE 6-6857. Go Out-a-way — Less-to-pay 1tc

PRUDENTIAL, INC., OF AMERICA for the best in Life Insurance. Big dividends and cash surrender values. For your home—the new home owners package at new reduced rates plus our fine dividends. JOHN E. BROYLES AGENCY, Times Bldg., Huntsville, Ala., Phone JE 6-0711 or JE 2-8615. 1tc

FOR RENT OR SALE — House and lot on Guntersville Lake on Sunset Drive in Guntersville. Centrally heated and air conditioned. Two car garage. Kitchen, den, living room, dining room, three bedrooms, two tile baths and recreation room in basement with built in bar-b-q pit. Possession by Aug. 1. Telephone owner at Guntersville. Justice 2-3082, or Justice 2-3072. 1tc

FOR SALE — Six-room house, available Sept. 1st, comfortably furnished, electric heat, hot water heater, deep back yard. Will rent unfurnished. Phone 347M, Scottsboro, Alabama. 8-19-p

MODERN HEALTH Club Services — Central YMCA, 203 South Green 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 JE 2-2444. 1tc

FOR RENT — 2 Bedroom House trailer located at Triana Mobile Homes Court. Air conditioned & washing machine. Days call ext 6948, nites ext. 8962, SGT. McAFEE. 1tc

TRAILER SPACE available at Decatur Trailer Park, concrete patios, laundry facilities on Highway 31 South, also at Uptown Trailer Court, Decatur, Ala. Convenient to churches and schools, business district. Five blocks south of river bridge on Highway 31. Modern laundry facilities. Wiring adequate for any kind of electrical appliance. Free laundry service to patrons of Decatur Trailer Park. For reservation write P. O. Box 239, Decatur, Ala. 1tc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-6452. 1tc

JOHNSON SEA-HORSE Sales & Service, boats, trailers, marine accessories, used outboard motors, easy terms. AUTOMOTIVE PARTS Co., 610 Meridian St., Phone JE 2-5654. 1tc

FOR SALE Complete Amateur Radio Station - Hallicrafters S-76 Receiver (Excellent condition) - \$100, Harvey Wells Bandmaster Delux, TBS-50D (Good as new) - \$65, Harvey Wells APS-50 power supply (Good as new) - \$25, or everything for \$175. Call JE 6-9928 after 5 p.m. 1tc

FOR SALE — 1957 - 8x37 house trailer 2 bed rooms, awning, 4800 Bob Wallace Ave. S.W., lot no. 1, Bel Aire Trailer Park. 1tp

FOR SALE — 4x5 Graphic View camera, complete with lenses, filters, film holders, film magazine, equipment case, latest model, new condition, Phone JE 6-5536 extension 426. 1tc

Best Home Buys

BEST LOCATION
... IN TOWN

On 100% G.I. Loans
(or F.H.A.)

Sherwood Park

Don't Miss Seeing Our Modern, Well Planned
Three Bedroom Homes

PRICED \$11,850 to \$13,450

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No Down Payment
Move in For As Little As
\$100
Closing Cost

FHA
Move in For As
Little As
\$400 DOWN
Plus \$100 Closing Cost

FEATURES

- Paved Streets
- City Sewerage

Several Homes Ready for Occupancy

Model Homes Fully Furnished
and Open For Your Inspection

Folmar & Flinn

DIRECTIONS — Go North on Parkway to Medaris Rd., Turn Left at Our Sign.

(IDEAL SALES)

Pho. JE 6-2301

ATTENTION HOUSE TRAILER RESIDENTS

We have a limited number of waterview lots in Dogwood Subdivision on the Tennessee River 12 miles west of Athens. All lots are shaded with beautiful trees. Water is piped to lots.

Enjoy living in this growing community where a School Bus comes for your children. Several house trailer residents are already settled here.

Enjoy hunting, boating, fishing and other water sports. Public piers and boat anchorage available. A grocery store with gasoline pump is in subdivision.

Only \$30.00 down payment and \$20.00 monthly.

Drive over for inspection any time.

Lindsay & Lavvorn, Inc.

Phones — Athens 391-J-1 or 103

Basic Research For New Materials Is Done by ARPA

Washington (AFPS) — Creation of a basic research program toward the development of new materials for military applications has been assigned to the

Advanced Research Project Agency, Secretary of Defense Neil McElroy recently announced.

Need for such a program arises from the fact that materials themselves are recognized as a serious limiting factor in most weapons systems development. Super-strength materials that can resist vast temperature extremes and electronic and electrical circuitry operating at high temperatures are just a few of the problems facing the program.

Operating in cooperation with the Military Departments and the Office of the Director of Defense Research and Engineering, the

OPERATION BLONDE

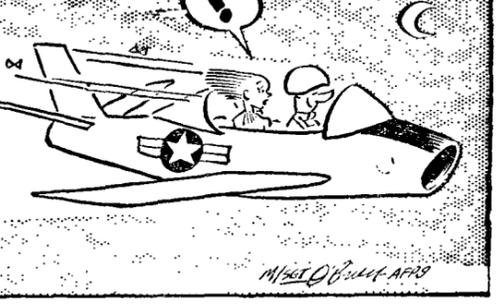
THIS DATE HAD BETTER BE WORTH ALL I'M GOING THROUGH!



WHAT ARE WE DOING TONIGHT, ACE? SOMETHING REAL DIFFERENT, CHICK!!



AND SO.....



program will be conducted entirely in leading U. S. universities to take advantage of the highest level of scientific and technological know-how. The Defense Department has estimated that approximately \$15 million will be allocated in Fiscal Year 1960 to the program.

How's Your Know-How?

1. What is the meaning of "jumboizing" in the Navy?
2. Who uses cant hooks?
3. To what does the "C.G." of an airplane refer?
4. What is "the lighthouse of the Mediterranean?"
5. What State in the Union extends farthest north?

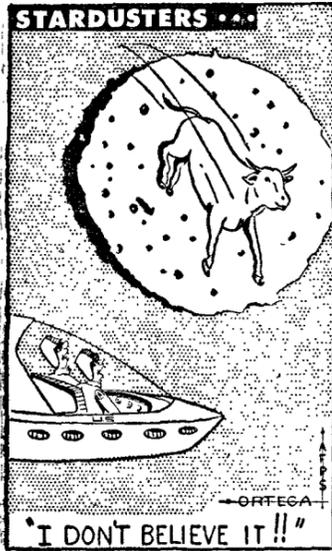
(Answers to Quiz)

1. Ship "suigery" by which a vessel is split in two for insertion of a new midsection.
2. Lumbermen, for turning logs.
3. The center of gravity.
4. Stromboli, the continuously active volcano off the coast of Sicily.
5. Minnesota.

INCENTIVE AWARDS

Sustained superior performance awards went to the following employees at the Ordnance Guided Missile School recently:

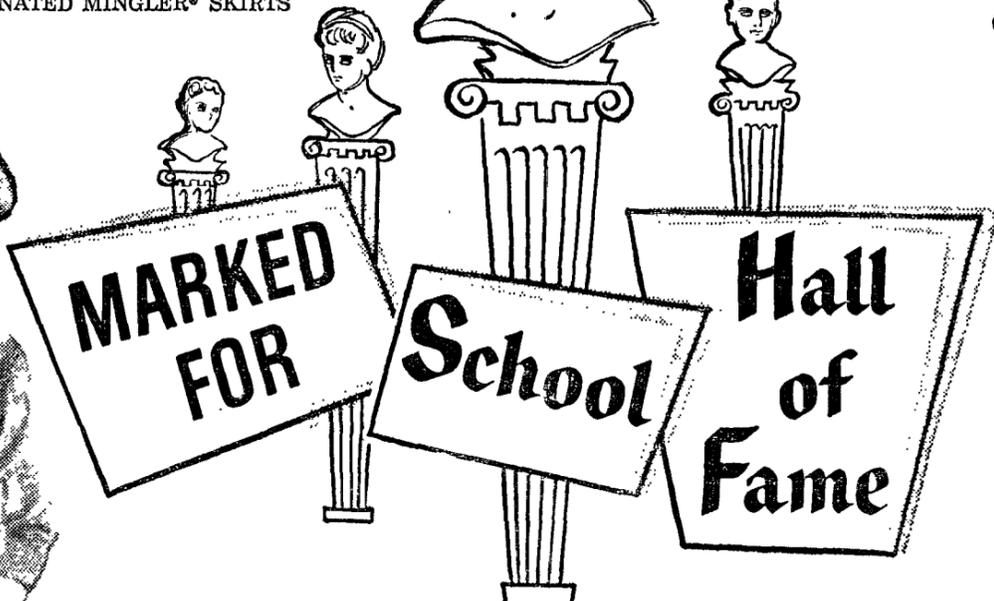
John D. Monroe, deputy chief of Training Aids; Stella Barksdale, stenographer; Mary S. Horton, clerk in the Surface-to-Air Missile Div., and Julian C. Weathers, clerk in the Surface-to-Surface Missile Div.



TEEN QUEN — Pools de pose: Gloria Neil was named Miss California Teen Age Cover Girl at Nevada's Hotel Sahara and now is soaking up some Las Vegas sunshine.

'AMONG THE BETTER THINGS' CANTERBURY FULL-FASHIONED SWEATERS OF PRECIOUS ERMILEUR

WITH CO-ORDINATED MINGLER® SKIRTS



Ermileur is our proud new fur-blend of luxurious lambswool, imported angora and ermine. Marvelously soft, perfectly washable — full-fashioned. Isn't it wonderful to be able to buy it as a costume, with its own color co-ordinated skirt?



LEFT:

Turtle-neck slipover with Swiss lace knit placket, Slim wool flannel skirt, two back kick pleats.

RIGHT

Cardigan with hand-knit cable effect front, full-fashioned collar, turn back cuffs, Slim flannel skirt, side kick pleat and tab pocket.

ABOVE:

Slipover with hand-fashioned ribbed collar and V yoke, Flannel overlaid skirt, the Canterbury Walker, with four kick pleats.

DIAL JE 4-6425
FOR CITY-WIDE FREE DELIVERY

LADIES' SPORTSWEAR
SECOND FLOOR



Huntsville's Quality Family Store

DUNNAVANT'S

OPEN MONDAYS & THURSDAYS 'TIL 8:00 P.M. CLOSED WEDNESDAY AFTERNOONS