

# The Redstone Rocket

VOL. VI; NO. 34

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 18, 1957

## RECORD 710 PINTS OF BLOOD DONATED

### Post Personnel Rush To ARC Bloodmobile

(Photo Inside)

Redstone Arsenal personnel turned out last week to donate a record-breaking 710 pints of blood to the Red Cross Bloodmobile.

A double staff of doctors and nurses from the Birmingham Blood Center plus a full crew of volunteer Red Cross workers from the Arsenal worked full speed to cope with the never-ending stream of prospective donors crowding into the Post Gym from early morning until late in the afternoon.

The 54 volunteer workers were headed by the Chairwoman, Mrs. Larry Hall; the vice-chairwoman, Mrs. J. G. McNeil, Redstone; and Mrs. Harold Ritchey, Huntsville, while Mrs. John Newman, Redstone, acted as chief of volunteer nurses, and Mrs. Joan Williams, Huntsville, served as Chairwoman of the canteen group, serving refreshments to the blood donors.

Fifteen new volunteers received their baptism in the record-breaking donation. Four registered nurses, Mesdames B. R. Heath, D. B. Selden, E. L. Routh and F. J. Willard doubled the number of volunteer nurses, while 1 new volunteer workers, recently qualified by attending staff classes were Mesdames H. N. Bronson, H. C. Hanson, J. N. Jean, Sam Jernigan, B. O. Montgomery, J. H. Morrow, H. H. Northington, Bent Okholm, A. F. Potile, C. E. Matthews, and J. W. Bishop.

(See RECORD on Page 11)

## No Additional Forced Separations of Officers Seen for Fiscal 1959

The Army has announced that it will not make any additional forced separations of officers in achieving its year-end strength for fiscal year 1959.

First half of fiscal year 1958 involuntary releases remain unchanged. These releases will be completed as indicated by orders received by individuals concerned. All have already been notified.

The reduced strength for fiscal year 1959 will be reached without forced separation by a combination of reduced procurement, normal attrition, and other normal administrative procedures.



'ROCKETEERS' MEET IN 'ROCKET CITY, U. S. A.'—Members of the Alabama Section of the American Rocket Society, at their annual dinner meeting in Huntsville last week, heard an address by the national president of the organization, Navy Commander R. C. Truax (extreme right). Shown above with Commander Truax are (left to right) Dave Newby, of Redstone Arsenal's Rocket Development Laboratories, who was elected new president of the Alabama Section; Maj. Gen. H. N. Toitoy, commanding general of Redstone Arsenal; Cliff E. Fitton, Jr., also of RDL, outgoing president of the Alabama Section; and Prof. Hermann Oberth, of the Army Ballistic Missile Agency, recognized as one of the world's pioneers in the science of rocketry.

\* \* \*

## Newby Is Named By Rocket Society

During their banquet at the Shalamar Supper Club last week, the local members of the American Rocket Society heard a speech by the national president, Cmdr. Robert C. Truax, and met the newly elected officers for the local chapter.

Dave Newby, chief of the Test and Evaluation Branch of the Rocket Development Laboratories at Redstone Arsenal, is president. Vice-president is Rod Stewart of the Redstone Division of Thiokol Chemical Corp.

Members of the board of directors are: (See NEWBY on Page 2)

## In Research Laboratories

### REDSTONE'S 'IVORY CELLAR' MEN DIG DEEP FOR SECRETS OF SCIENCE

(Photo Inside)

Here in Redstone's "Ivory Cellar" sits a group of missile men who are fervently dedicated to digging out secrets of science.

These are the men who run a family of laboratories known, simply, as The Research Laboratories.

Striking scientific terms like "plasma jet", "magnetic pinch," and "flat flames" continually pop into their ordinary conversation . . . conversation that is anything but ordinary.

Because a guided missile is what it is—one of the most complicated things ever to come from the mind and hand of man—it takes out-of-this-world men to create them. The Research Labs fairly abound with men like this.

The Research Laboratories are located in the crowded basement of Building 111 over on Squirrel Hill. That's why they call it the "Ivory Cellar," as opposed to the "Ivory Tower" label that is tagged to similar brainy establishments. (See IVORY CELLAR on Page 9)

## 'HUNTSVILLE'S DISTINGUISHED CITIZEN'

### C. of C. Honors Dr. von Braun

His fellow citizens of Huntsville honored Dr. Wernher von Braun, famed Army rocket developer, at the annual dinner of the Chamber of Commerce last

Friday night. Dr. von Braun received a plaque of solid silver mounted on mahogany which reads as follows:

"Huntsville Distinguished Citizen Award, Presented to Dr. Wernher von Braun, in recognition of his leadership of the finest missile research team in the Western World. By his Fellow citizens through the Huntsville-Madison County Chamber of Commerce, on Dec. 13, 1957."

With Mrs. von Braun at his side, the distinguished scientist also received a huge silver service as a tribute from the community.

Dr. von Braun is director of development operations in the Army Ballistic Missile Agency. He directed the successful Redstone Ballistic Missile System development and is now in charge of the technical aspects of the Jupiter IRBM development and the Army scientific satellite project, to be launched with a Jupiter-C rocket.

Before transferring to the Missile Agency Feb. 1, 1956, he was the director of guided missile activities at Redstone Arsenal.

Earlier this year Dr. von Braun received several other awards. Maj. Gen. J. B. Medaris, Agency commander, presented him with a citation for outstanding service. Secretary of the Army Wilbur Brucker handed him the Army decoration for Exceptional Civilian Service and Defense Secretary Charles Wilson presented the Distinguished Civilian Service Award of the Department of Defense.

The Huntsville plaque was presented by Charles Shaver, attorney and member of the Chamber of Commerce.

Dr. and Mrs. von Braun have lived in Huntsville since 1950. They have two daughters, Iris, 8 years old, and Margrit, 5 years old.

Among those witnessing the presentation were members of the military and civilian staffs of the Agency, including directors of the laboratories in Dr. von Braun's division.

\* \* \*

## 50 INSTRUCTORS ADDED BY OGMS

### Philco Group Brings School Faculty to 300

The faculty of the U. S. Army Ordnance Guided Missile School rose to more than 300 persons last week as Philco Corporation added 50 new instructors to its staff in the largest increase to date in the School's teaching corps, according to Col. H.S. Newhall, commandant.

Th new instructors, who reported to Milary Burton, resident Philco group supervisor, brought the firm's instructional staff at the Guided Missile School to 123 and swelled the installation's faculty to 325 persons, Col. Newhall said.

Ten nationally known known corporations supply the School with 166 civilian instructors on a contract basis to teach operation and maintenance of parts and components for the Army's steadily increasing armory of new weapons. Philco's group is the largest. Other companies in the program are Douglas Aircraft, Associated Aero Science Laboratories, Western Electric, Firestone Tire & Rubber, Gilfillan Bros., Radio Corporation of America, Chrysler Corp., North American Aviation, and Glenn L. Martin Company.

Total strength of the School, the Army's only activity devoted exclusively to guided missile training, is nearing the 2,000 mark, Col. Newhall said.

Most of the new Philco instructors are moving to Huntsville with their families, Burton stated.

## West Virginia Employes to Be Featured in Article

Natives of West Virginia who are now employed at Redstone Arsenal will be featured in a forthcoming article to be written for publication by the Public Information Office of Headquarters, West Virginia Sector, U. S. Army (See W. VIRGINIA on Page 2)

## Next Week's Rocket To Come Out on Mon.

Next week's issue of The Redstone Rocket will be distributed on Monday, Dec. 23, instead of on Wednesday as usual.

Copy and photos for this issue must be turned in to the USA Public Information Office by 2 p.m. Friday, Dec. 20.

No paper will be published the following week. The next issue will be distributed on Wednesday, Jan. 8.



DR. WERNHER VON BRAUN, Army rocket builder, receives the Huntsville Distinguished Citizen Award from Charles Shaver (at right). The Award was presented at the annual dinner meeting of the Huntsville-Madison County Chamber of Commerce at the Russel Erskine Hotel Friday night. Witnessing the presentation were members of the Chamber, military representatives of Redstone Arsenal, the Army Ballistic Missile Agency, and the Ordnance Guided Missile School. Also present were members of Dr. von Braun's rocket development team of the Missile Agency.



MRS. WERNHER VON BRAUN accepts silver service from Judge E. H. Parsons, presented to the wife of the famous Army rocket scientist by fellow citizens of Huntsville. The gift was made at the annual dinner meeting of the Huntsville-Madison County Chamber of Commerce Friday night.

# The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Army Ballistic Missile Agency, Redstone Arsenal and Ordnance Guided Missile School in accordance with an agreement between the publisher and the Public Information Office, Redstone Arsenal, Huntsville, Alabama.

The Rocket is NOT an official or semi-official Army or Ordnance Corps publication. Policies and statements reflected in the news and editorial columns represent the views of the individual writers and are not necessarily those of the Department of the Army, the Ordnance Corps, or Redstone Arsenal. Appearance of advertisements in the Rocket does not constitute an endorsement of the advertising matter by the Department of the Army, the Ordnance Corps, or Redstone Arsenal.

The publisher will receive editorial content for publication in the Rocket only through the Public Information Office, Redstone Arsenal, Bldg. A-101, Extension 2212 or 2704. All advertising copy and payments therefor are received by Mrs. Zillah Newsome, 303 E. Holmes St., Huntsville, Ala., telephone JE-44701, as representative of the publisher.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$3 a year, or \$1.75 for six months. Mailing arrangements may be made with the publisher.

## JAYCEE CHRISTMAS LIGHTING CONTEST

CHECK ONE:

- ( ) Decorations cost less than \$35.
- ( ) Decorations cost more than \$35.

Judging will be conducted December 20 to 23. All entry blanks must be in by that time.

Fill in blanks and send form to Junior Chamber of Commerce, Box 824, Huntsville, Ala. . . . or turn in to contest headquarters at Huntsville Electric System, prior to Dec. 19.

NAME ..... Tel. No. ....

ADDRESS .....

\* \* \* \* \*

## By Huntsville Jaycees

### YULE DECORATIONS PRIZES SET

Prizes and qualifications for the annual Christmas Lighting Contest of the Huntsville Junior Chamber of Commerce have been announced by the club.

Awards of bonds, cash and certificates will be given for Christmas displays in each of two categories, those costing \$35 or less and those costing more than \$35.

A plaque will be presented to the residential display which best illustrates the practice of "keeping Christ in Christmas."

The prizes donated by the Huntsville Utilities, will be \$50 savings bonds for the first place winners in both categories, \$25 savings bonds for the second place winners, and \$10 cash prizes for the third place winners.

A certificate of merit will go to the business having the most attractive outdoor display.

All entries will be judged on the basis of artistic merit, originality, lighting techniques and ingenuity.

Lloyd Root and Tom Younger are co-chairmen of the contest for the Jaycees. Root explained yesterday that the displays en-

tered may be either exterior decorations or interior decorations that are visible from outside, such as a Christmas tree or wreath in a decorated picture window.

Judge for the contest will be officials of the Tennessee Valley Authority. A preliminary judging will take place Dec. 20, 21 and 22, with the final selections being made on Dec. 23.

One of the winners in the competition will be entered in a nationwide contest sponsored by the National Junior Chamber of Commerce, with \$5,000 in prizes donated by the General Electric Corp.

Those wishing to enter the contest must send their application to the Huntsville Jaycees, Box 824, by midnight, Dec. 19. The only information necessary on the application is the name and address of the contestant, and the category which they want to enter.

## Wantads Get Results

## NEWBY

(Continued From Page 1) ectors are Cliff Fitten, outgoing president, and chief of the Design Branch for the Rocket Development Laboratories; Karl Heimberg, chief of the Test Laboratory, Development Operations Division, of the Army Ballistic Missile Agency; and Gordon Artley, assistant chief of the Test Laboratory, DOD, ABMA.

## W. VIRGINIA

(Continued From Page 1) Corps (Reserve), at South Charleston, W. Va.

In order to compile information for the story, the Redstone Arsenal PIO requests that West Virginia employes on post please contact Mrs. Vera Smith of the local PIO at Ext. 2212.

## Accountants Assoc. Schedules Meeting In Decatur Jan. 28

The officers and directors of the North Alabama Chapter of the National Association of Accountants held their board meeting recently in Decatur.

Vice-president J. G. Thomas of Rohm and Haas, presented final plans for a special meeting to be held Jan. 28 at the Decatur Country Club. The wives and guests of members will hear a representative of Merrill Lynch, Pierce, Fenner, & Beane.

Frank J. McLaughlin, Jr., of Chemstrand Corporation, Decatur, program director, announced that Henry J. Engler, Jr., dean of the College of Business Administration, Loyola University, was guest speaker at the technical session held at the Florence Country Club, Monday night, December 16.

Robert C. Huffman, Ashburn & Gray Contractors, Huntsville, membership director, submitted applications for seven new members which were approved by the board. The new members are as follows: Joe L. Demison, Chemstrand, Decatur; E. R. Keith, Addressograph, Multigraph Corporation, sales representative; C. H. Birdges, Ford Motor Company, Sheffield; A. E. Pane, Ford Motor Company, Sheffield; J. C. Toys, Ford Motor Company, Sheffield; D. J. Hyatt, P. R. Mallory Company, Huntsville; and M. J. Hughs, Thiokol, Huntsville.

J. Grady Shaw, president of the local chapter, presided at the meeting.

## Position Openings In 3 Fields Told by Civil Service Board

The U. S. Civil Service Board of Examiners has announced openings in three fields.

Announcement No. 5-35-46(57) calls for guided missile ground handling equipment installers and repairers with positions ranging from WB-5 (\$1.57 per hour) to WB-17 at \$2.44 p. h. This announcement also has openings for foremen in this field at WBS-13 (3.76).

Announcement No. 5-35-47(57) is for refrigeration and air-conditioning mechanics at WB-10 (1.93 p.h.).

Announcement No. 5-35-48(57) asks for plastic workers with the wage range from WB-8 (1.79 p. h.) to WB-16 (\$2.37 p. h.) and WB-18 (\$2.52 p.h.).



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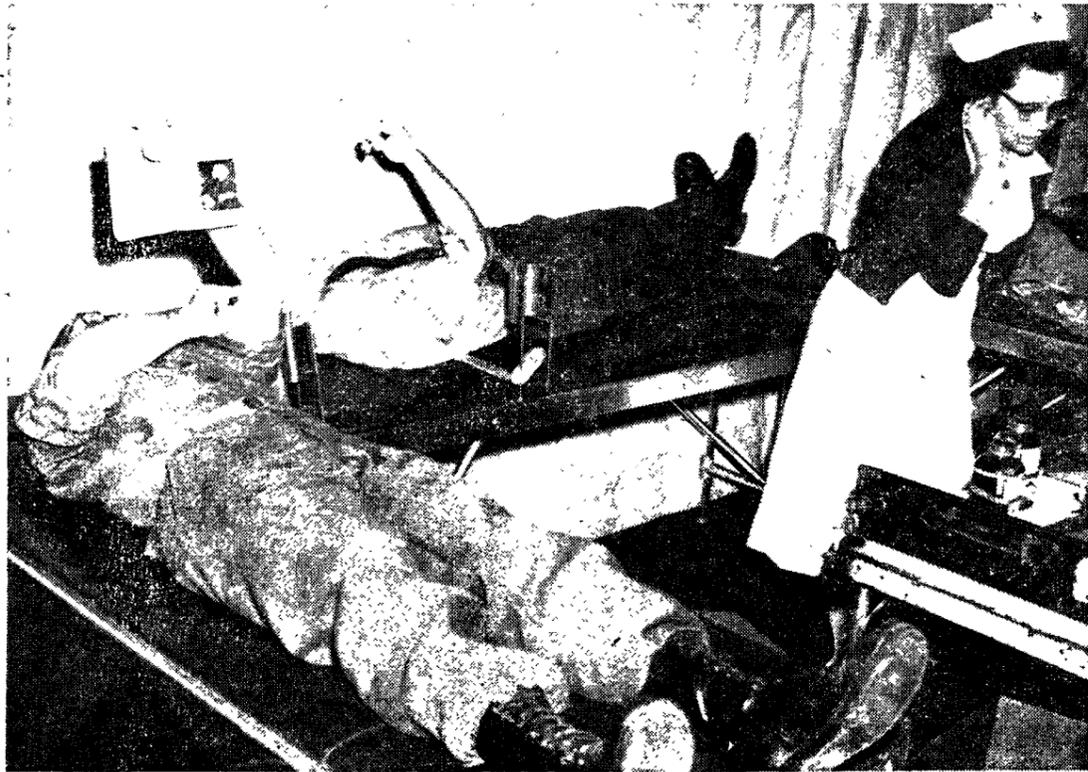
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**INSOUCIANE PERSONIFIED**—PFC Freeman R. Hathaway, Jr., Det. A, 9330, stole the show from his fellow soldiers of Hq. and Hq. Det. They turned out 100 per cent for the bi-monthly visit of the Red Cross Bloodmobile a week ago, but they took blood donations seriously. Hathaway, on the other hand, decided that early Monday morning was a good time to bone up on the reason have been reading Boswell's biography of Dr. Samuel Johnson for more than 100 years. He took along the book and read while his pint of blood was added to the record-breaking 710 pints donated at Redstone Arsenal. The Red Cross staff was doubled for the day and the Blood Bank was replenished. The stock had been depleted by the recent tornadoes around Birmingham. (Photo by Rex Evers)



ers will get together for an evening of singing and rollicking frolicking while awaiting Santa. We'll nibble on tasteful tidbits, sip coffee, and if you like to hang up stockings, come on over. All nibblers, kibitzers, and carolers must be here for the party.

Christmas is a time when most friends get together, but here at Redstone it is a time when most of you are going on leave and many of you will be going to new assignments. A happy holiday to all of you. To those not returning to Redstone—we want to say it's been fun and we'll miss you all.

The newest addition to our staff and one who has had the briefest stay with us is Sandy Kait. Sandy leaves Redstone Friday and will not be back to carry out all the plans and projects he has helped us plan for 1958. All of us are appreciative of the sensational results of his work on the Casino Regalio and the Christmas dance. We loved working with you, Sandy, we hate to see you go, but couldn't deny you the fun you'll have in European casinos and other places of interest. Our very warmest wishes for a wonderful time 'a la Cosmopolitan in Europe.

Drop around for a cup of Christmas coffee—the kettle is always on.

**MURIEL**

## At the Service Club

Strains of Christmas carols coming from a distance, evergreens twinkling crazily and merrily, greetings arriving from distant friends, lines growing longer at the post office, and aisles dense with shoppers bring the picture of Christmas into sharper focus.

Christmas-prompted exuberance prevailed at the Christmas Dance last Friday. The dancers whirled around with the ingenious snowmen created by Sandy Kait. These crazy balanced little men were almost unbalanced by the mistletoe they carried around with them, but 'twas fun and all in the Christmas spirit.

Charlie Lyle and his band did a wonderful job on the music, with Barry Davis's singing adding an especially nice note. Our vote of thanks goes to the trio who performed during intermission. The impromptu and scintillating music of Don Peragallo, pianist; Curt Wilson, base player; and Connie Kostka, drummer, ket the dancers twirling all during the break. If any of you musicians are interested in joining this group to make a quartet, quintet, sextet (you go on from there), let us know.

On Friday night we will decorate our tree here at the Service

Club. Come down and help turn on the Christmas lights here. We need tall men for the high limbs, and short ones for the low limbs, so we will be expecting all of you. On Christmas Eve the carol-

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### Mrs. Keith O'Keefe Hostess at Party For Officers Wives

Mrs. Keith T. O'Keefe, wife of Redstone Arsenal's deputy commander, entertained with an informal party following the Officer's Wives Club Christmas Tea held last week.

Guests for the affair were Mrs. H. N. Toftoy, Mrs. William Stevens, Mrs. Joe Flemming, Mrs. Harry Rhett, Mrs. Lawrence Frank, and Mrs. George Williams.

### Cadets Toftoy, Medaris Due Home For Holidays

Cadet Charles Toftoy and Bruce Medaris are expected Saturday for the holidays. Both are studying at the United States Military Academy.

Teacher: "Joe, give me a sentence with the word 'bewitches'." Joey, after deep thought: "You go ahead. I'll be witches in a minute."

Members of the Chapel Guild planned and served meat, coffee, and rolls for the covered dish supper which was held for Protestant members and their guests.

Approximately 165 attended. A Christmas motif was carried out and carols were sung by the group following the meal.

Mrs. Guy Marks, Mrs. Raymon W. Elder, Mrs. David Swearingen, and Mrs. Arthur Q. Woodward were in charge of the dining room and kitchen operations.

### Stan Houck Awarded 'Best Speaker' Title

On Dec. 10, Redstone Chapter No. 1932, Toastmasters, held its final meeting of the year. Stan Houck was awarded the title "Best Speaker of the Evening" for his speech entitled "Toastmasters," in which he enacted most of the deficiencies that afflict the novice speaker who has not had the benefit of Toastmaster training in speech improvement and platform deportment, and then demonstrated the way it should have been done.

Other speakers of the evening included Capt. Bailey Strain, who spoke on the subject "To the Stars Through Striving," an exposition of the theses of Kraft Ehricke, noted astronomical scientist; Maj. Bob Darnell, British liaison officer, who spoke on the differences of custom attendant upon the birth of a child in the United States and in England. (His speech was very apropos as Bob had a daughter born in the United States only three weeks ago); and Jack Nelson, who spoke on the subject "Let's revise Universal Military Training," a plea for six months of intensive military training for the high school graduate rather than two years of training for the college graduate.

Chapter president Webb Mayfield presided, Jim Keats served as Toastmaster of the evening, A. A. Steward acted as Table Topics Chairman, Tony Demetriou delivered constructive criticism in his capacity as Grammarian, and Frank Sutherland served as Parliamentarian.

The application for membership of Tom Richards was accepted. Guests included M. K. Abaied and C. A. Tidwell.

The next regular meeting will take place on Jan. 7.

SILVER TEA—At last week's Silver Tea given by the Redstone Arsenal Officers Wives Club, left to right, are Mrs. H. S. Newhall, Mrs. J. A. Barclay, Mrs. J. G. Shinkle, Mrs. J. B. Medaris, and Mrs. H. N. Toftoy.

## Officers Wives Hold Silver Tea

The annual Silver Tea was held last week by the Redstone Arsenal Officers Wives Club at the Redstone Room of the new Annex.

The Christmas event was opened with invitations extended to all members and their guests who highlighted the tea with silver contributions, the proceeds to be turned over to charity.

Mrs. J. B. Medaris, Mrs. H. N. Toftoy, Mrs. J. A. Barclay, Mrs. J. G. Shinkle, and Mrs. H. S. Newhall, wives of the commanders and deputy commanders of the three activities on post, began the pouring at magnolia and holly decked tea tables which complimented

the bright gold, red, and silver holiday decorations throughout the Redstone Room.

Silver and green Christmas pines were arranged around the room, while bright gold and silver magnolia wreaths hung from the walls and at the windows. A large silver wreath decorated the wall behind the main table, which featured the large white fruit cake decorated with Christmas miniatures, with two coffee cake Christmas logs on each side.

Christmas corsages were given to all newcomers to the Club, and Christmas arrangements played throughout the tea. Of special interest were paintings displayed by the Club's student art exhibit class headed by Mrs. M. H. Dakin. Large poinsettias, given as door prizes, were won by Mrs. S. M. Spencer and Mrs. L. M. Anderson.

Hostesses were Mrs. E. M. Amos, Mrs. J. B. Collings, Mrs. W. F. Diggs, Mrs. B. B. Drummond, Mrs. F. L. Frankenstein, Mrs. L. W. Hall, Mrs. H. R. Jones, Mrs. Don Collier, Mrs. Clifton L. Kinch, Mrs. K. T. O'Keefe, Mrs. J. Pratt, Mrs. F. E. Salter, Mrs. D. Shepherd, Mrs. Luther Walker, Mrs. Charles K. Woody, and Mrs. M. E. Young.

The Silver Tea was held jointly by the officers' wives of the Army Ballistic Missile Agency, Redstone Arsenal, and the Ordnance Guided Missile School. Chairman of the committee for the tea was Mrs. Daniel Shepherd, with Mrs. L. W. Hall, Mrs. Clif-

### Family Night Held At the Post Chapel

Family night was held recently at the Redstone Arsenal Post Chapel.

ton Nooncaster, and Mrs. Luther Walker.

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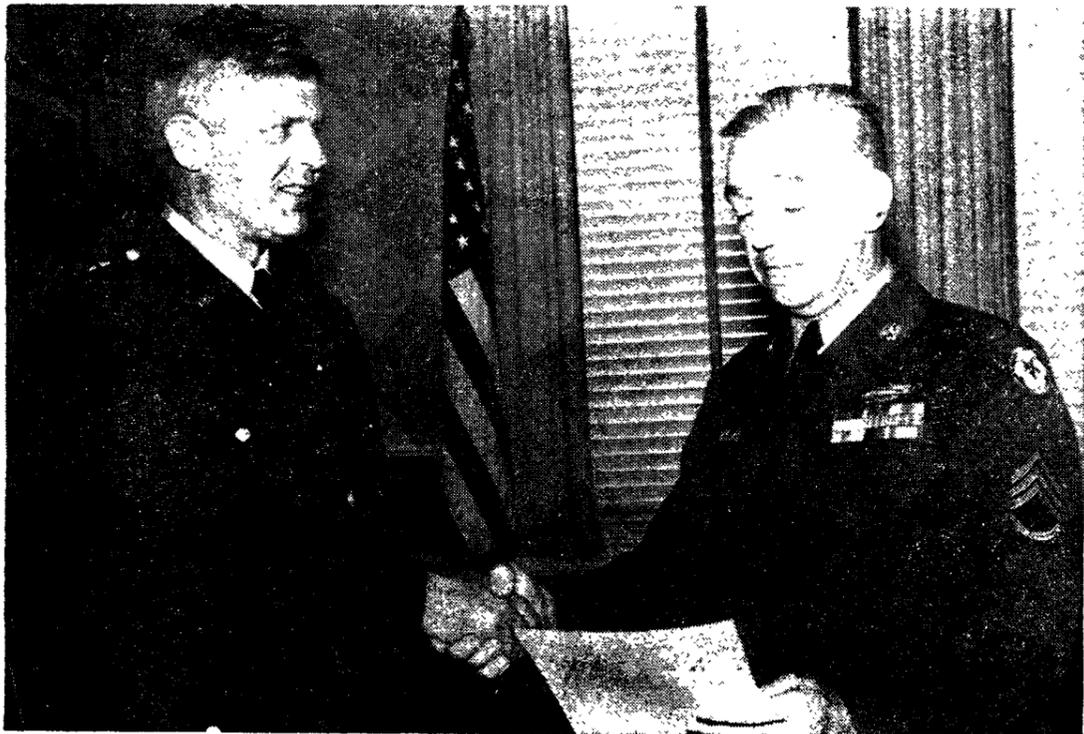
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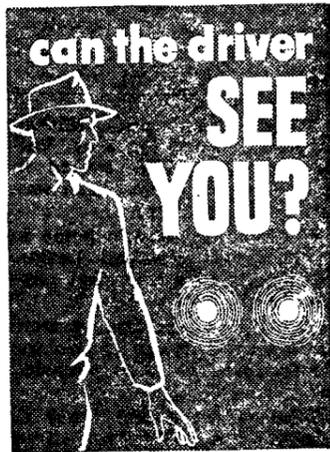
FINISHES MORE THAN 20 YEARS—Sgt. Bernard F. Reynolds (right), truckmaster at Redstone Arsenal's main motor pool since March, 1956, receives his papers attesting to retirement from the Army after more than 20 years service. The recent ceremony was held in the office of Brig. Gen. John G. Shinkle, deputy commanding general of the Arsenal, who offers the sergeant his best wishes for the future. Sgt. Reynolds is a veteran of World War II who earned the Bronze Star Medal with an oak leaf cluster, and a Purple Heart with an oak leaf cluster in addition to several theater campaign ribbons. Sgt. Reynolds began his Army career at New York in 1934. He's been an infantryman, a motor transportation noncom, and a truckmaster both in the U. S. and overseas. Sgt. and Mrs. Reynolds intend to reside in New York City.

ghetti and garlic bread, Chinese chop suey, eaten with chopsticks while kneeling at a low table, Korean mondu, a bread dough shaped like sea shells around a hamourg loaf; Filipino letson, a barbecued pork dish served with rice, onions and garlic; and Viennese weinerschnitzel.

As for the Americans, Alabama born Mrs. Dewey Harris served that good old staple, roast beef, and Mrs. James Goodbread of New Mexico came up with enchiladas.

Probably only an Army community could produce such diverse friends in a two-block neighborhood.

The Army's primary purpose is to prevent war by deterring attack. Only when the deterrent fails does its mission change to that of fighting a winning war.



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They're the wives of eight Fort Lewis sergeants, and each day for a week-plus they treated each other to their native land's favor-

ite delicacy. And the intent was to keep it up "until we've run out of typical dishes."

Which would be quite a gastronomic marathon, for six are from foreign countries: Japan, China, The Philippines, Italy, Austria, and Korea. The two native Americans are from New Mexico, where the tortillas are almost as hot as those south of the border, and Alabama, where the cookin', suh, is real southern style.

The first round produced the

following:  
Japanese suki yaki, Italian spa-

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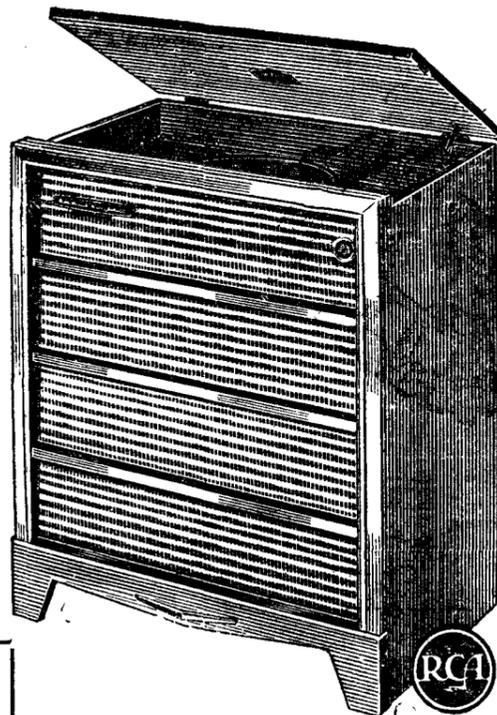
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# QUIZ

1. Hank Aaron and Mickey Mantle were voted the Most Valuable Player of 1957 award in their respective leagues. Who won the awards last year?
  2. If the championship game in the National Football League play-off ends in a tie, what happens?
  3. The Milwaukee Braves were the first western team to win the world series in 11. Who preceded them?
  4. Who was the last horse to win racing's triple crown (Kentucky Derby, Preakness and Belmont Stakes)?
  5. George Mikan, now coach of the Minneapolis Lakers, holds many basketball scoring records. What was his lifetime average per game?
- (Answers to Sports Quiz)
1. Don Newcombe (NL) and Mickey Mantle (AL).
  2. The game continues in a sudden-death play-off.
  3. The St. Louis Cards in 1946.

## 'Missilemen' Cling To Volley-ball Lead

The "Missilemen" continued to hold the lead this week in the YMCA Volleyball League, with a record of three wins against no losses.

The Thiokol team has won 1 and lost one, and the "Wind Tunnel" squad has dropped both its contests. Friday night's game will pit "Wind Tunnel" against Thiokol. After that game, there will be no more games scheduled until Jan. 7, when "Wind Tunnel" meets the "Missilemen."

### FIELD SERVICE BOWLING LEAGUE

Team	W	L
Blue Streaks	33	23
Crackers	30½	25½
Peons	29	27
Guided Muscles	28	28
Buzzards	28	28
Honest Johns	26½	29½
Expeditors	25	31
Hawks	24	32

200 Game: Jamieson—207.

4. Citation in 1948.
5. 32.



**EARNs OUTSTANDING RATING**—Miss Martha M. Reynolds, clerk-typist in the Technical Publications Section of the Field Service Division at Redstone Arsenal, receives a rating of "outstanding" from Brig. Gen. John G. Shinkle (second from left), deputy commanding general of the Arsenal. Present for the recent ceremony in Gen. Shinkle's office were Maj. Meredith F. Hoffay, (left), chief of the Maintenance Branch for Field Service Division, and Ed Hart, publications officer, Field Service. Miss Reynolds' letter from the commanding general reads in part: "I have been advised that your initiative, planning, and performance have enabled you to excel in all phases of your job . . . I am pleased to approve this recommendation and wish you continued success in your job . . ."

## CAGERS WIN 5TH STRAIGHT GAME

The Redstone Rockets won their fifth straight basketball game at the Post Gymnasium Friday evening, against Fort Rucker.

The Rockets took off to an early 19 to 3 lead and were never headed throughout the game. As

a result of the sizeable lead, Coach and Jim Hemphill also hit for "Red" Whisenant was able to let the whole team see action.

Charlie Lewis paced the victors with 21 points, and "Big" Jim Carden was 2nd high man with 16 points. Bob Dube, Don Gothard,

double figures. For the losers, Bill Winters hit for 27 points and Tom Tuccori 18. Redstone will resume play after the holidays against Fort Rucker, at Fort Rucker on Jan. 10.



**CITRUS QUEEN** — A pretty reminder is presented by the 1958 Orange Bowl Queen, 19-year-old University of Miami sophomore Marcia Valibus.

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The Company Level Basketball League Tournament has ended with the championship going to the victorious players representing Hq. OGMS. Under the capable leadership of Coach Jules Brodsky, the team compiled a record of 16 wins without a loss. The hard-driving hoopsters won 12 games without defeat during the regular league play and swept four games during the elimination tournament to achieve both the trophy for league play and the coveted championship trophy.

Court play was led by aggressive Bob Dube, ace from the University of Connecticut. Dube had an average of over 20 points per game and was a stellar performer on defense with his steals and fast footwork. Bob fittingly topped off a great year with a 35-point output against Det. A, ABMA, in the final game of the elimination tournament. Play under the backboards was sparked by Big Dave

Driscoll and Ray Schuller. Between them many a rebound became a score for the successful team. A splendid game was always played by Lou Gentile with his consistent one-handed jump shots. The playmakers of the team were the diminutive Johnny Tassinaro, always-pressing Vic Nishimoto, and sparkplug Gary Weisner. Other members of the Hq. squad were Don K. Orme, Irwin B. Legon, Joe M. Feinson, Joe R. D. Gilroy, Sheldon A. Smith, Ray C. Vallez, Mike C. Hart, and Charles B. Turner.

The mainstay of this outstanding team was the fighting back-play they exhibited on the floor. This in turn earned them the reputation of the "never stop" team. In many of their games they came from behind to score a commanding victory. Always running, shooting, stealing the ball, and employing fast breaks was what made Hq. OGMS the great team that won all its games.

Special credit goes to Capt. Tarantula O. Purvis, who during the initial formation of the team, encouraged, aided, and provided uniforms for the players. After Hq. OGMS was split into three smaller detachments during the height of the season, the new commanders of the detachments continued to lend their aid and support to the team. They are Capt. Edward J. Ottman CO of Hq. Det. A; Capt. Raphael Arengo CO of Hq. Det. B; and Lt. Lee J. Boudreaux, CO of Hq. Det. UTC.

Through the willing sponsorship of all involved and the hard work of Coach Brodsky the team was able to keep intact and go on to final victory and the championship.



DR. HENRY A. MCGEE, JR.

**Dr. Henry McGee Addresses Bureau Of Standards Group**

Dr. Henry A. McGee, Jr., of the Research Laboratories, OML, Redstone Arsenal, last week addressed the Free Radical Stabilization Group of the National Bureau of Standards on the current status of the free radical project at Redstone Arsenal.

The title of Dr. McGee's address was "The Experimental Status and Philosophy of Free Radical Stabilization via Fractional Freezing."

The presentation was made before the weekly seminar of the Bureau group last Friday, and while in Washington Dr. McGee also spoke on the same subject to the Chemistry Departmental Seminar at the Catholic University of America.

"Free radicals might be pictured as highly reactive fragments of stable molecules that may be preserved by cooling to temperatures near absolute zero, i. e., to about -453 degrees F." Dr. McGee explained. "At this temperature every known substance is solid except helium. This same high reactivity challenges the ingenuity of the scientist in experimental efforts to stabilize the species and study their properties, but it may also lead to the development of new rocket super-fuels. One can theoretically pre-

dict a specific impulse of a factor of three or four times greater than that of the conventional kerosene-LOX systems.

"The Defense Department is now having considerable work done in this area, with the effort centered at the National Bureau of Standards where over 30 senior scientists are working on various phases of the project. Work is also progressing at about a dozen other laboratories in this country including the effort here at Redstone by the Research Laboratories."

Suzy observes: Girls shouldn't mind men staring at them because it's better to be looked over than overlooked.

**Reunion Is Planned For Korean War Vets**

A reunion of Headquarters personnel, Korean Communications Zone (KCOMZ), will be held at the Bon Air Hotel, Augusta, Ga., Dec. 31 through Jan. 4. All former KCOMZ personnel, military or civilian, are invited to attend.

For reservations, write M/Sgt. John S. Harris, Headquarters Third United States Army Recruiting District, Fort McPherson, Ga.

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**Olsen Wins Cup At Toastmaster Meet**

Owen Olsen, an Engineer with the Chrysler Corporation, won the cup for the best speech of the evening recently at the Huntsville Toastmasters Club meeting. Olsen spoke on "Toastmastering."

Other speakers included Bill McAlilly, director of Salary and Wage Administration, Redstone Arsenal Civilian Personnel Office, who spoke on "Words—Friend or



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Foe."; and Guy Johnston, director of the Apprentice Training Program, Redstone Arsenal, who spoke on "Labors Responsibility for Training in the Crafts."

All of the speakers were introduced by the Toastmaster for the evening, Frank Holmes, director of the Joint Army Ballistic Missile Agency - Redstone Arsenal - Ordnance Guided Missile School Incentive Awards Program. Luther Adams, personnel administrator, Redstone Arsenal, led the panel of evaluators which included Phil Youngblood, Guidance and Control Labs, ABMA; Gene McClard, Rocket Development Division, Redstone Arsenal; and Don Butler, Chrysler Corporation. Clifford Kiley, Brown Engineering Co., presided.

The Huntsville Toastmasters Club, which meets at the Fox Restaurant is a non-profit club organized for the purpose of self-improvement in public speaking. Anyone interested in attending a meeting should call Clifford Kiley, club president, at JE 4-0773, or Frank Holmes, secretary, at JE 6-7373.

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**Dean of UA Graduate School Honored at Conference in Okla.**

Dr. A. B. Moore, Dean of the University of Alabama Graduate School, was given special recognition as the last charter member of the Conference of Deans of Southern Graduate Schools at its 31st annual meeting in Norman Okla., the first of December.

Dean Moore will retire this coming June.

During the 31-year-period he was a regular attendant at Conference meetings, and served as secretary, president, member of the executive committee, and historian. The Conference is composed of 51 members representing graduate schools in colleges and universities in the South.

Dean Moore, who has been affiliated with the University of Alabama since 1923, has served as Dean of the Graduate School since its organization in 1924.

The school has an expanding program at Redstone Arsenal, in cooperation with the Training Branch of Civilian Personnel.

You never know when friends may drop in, but it's usually when the television is broken and the refrigerator's empty.

Dresses fitted tightly  
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Do away entirely with  
The fun of speculation.



CHECK FOR A TORNADO VICTIM—Woodrow Reagan (right), ABMA employee whose new home was recently demolished by a tornado, receives a check for \$865.77 representing contributions from fellow employees at ABMA, RSA, and OGMS. Presenting the check is Col. Clifton F. Nooncaster, Headquarters Commandant, ABMA. Reagan and his wife and four children narrowly escaped serious injury when the winds toppled their house between Guntersville and Albertville last month. Reagan has asked that The Rocket express his "deepest appreciation to the many who contributed to assist us to rebuild our home."

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*Mr. Manhattan*

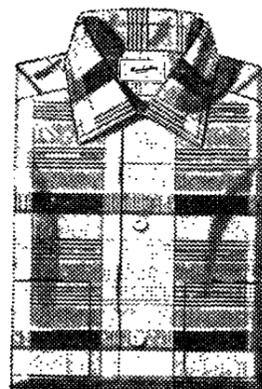
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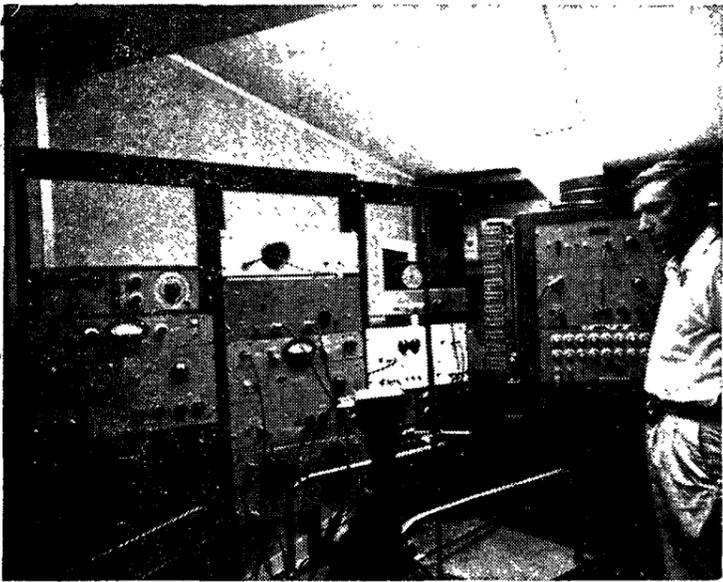


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NUCLEAR STUDIES—Dr. Joseph Richard Haskins, of Redstone Arsenal's Research Laboratories, is shown above monitoring a coincidence type Gamma ray spectrometer to elicit information relative to energy levels of radioactive nuclei. This is an example of the many phases of basic research being carried on by the Research Labs.

**IVORY CELLAR**

(Continued From Page 1)  
 ments. (Overhead is the Officers Open Mess Annex, which sometimes leads the scientists below to refer to their labs as the Research Labs Open Mess.)  
 Heading up this set of labs and men is quiet soft-spoken James Norman. Jim used to make insecticides in California. He now presides over an outfit that is doing research in virtually all fields of science: from nuclear energy to solid state physics, from aerodynamics to missile propulsion.  
 The Labs are known and recognized by leading scientists in various fields over the nation for constantly pecking away at scientific frontiers, and sometimes striding over them.  
 But they're more than thinkers "We do a lot of high-powered work, but are always willing to lend a hand in the solution of development problems," Norman says.  
 This broad spectrum of research is conducted in seven laboratories, the names of which reflect the specific fields of interest.  
 They are: the Materials Analysis Laboratory, Flight and Aerodynamics Laboratory, Missile Propulsion Laboratory, Missile Guidance Laboratory, Ballistic Computation Laboratory, Propellants Combustion Laboratory, and the Special Projects Laboratory.  
 These designations by no means restrict specific fields to a sin-

gle laboratory, for the complexity of modern science requires considerable exchange of competence and techniques. Mathematical analyses, for example, are conducted in all laboratories, and electronic instrumentation plays an important part in many physical measurements.  
 One of the major achievements of the Materials Analysis Laboratory is the development of a very rapid-rate tensile testing machine, capable of rupturing a test specimen in one-thousandth of a second.  
 Significant research also is being conducted in the field of high temperature materials research. Temperatures several times higher than the surface of the sun have been attained in a small metal cylinder, not much larger than a baseball. Temperatures up to 27,000 degrees F. have been attained by use of a very high current arc or "plasma jet." Briefly, it works like this: The arc is struck inside a small cylinder which is surrounded by a water-cooled jacket. A gas such as helium is shot through the chamber. The high temperatures occur when the acceleration of atomic particles by

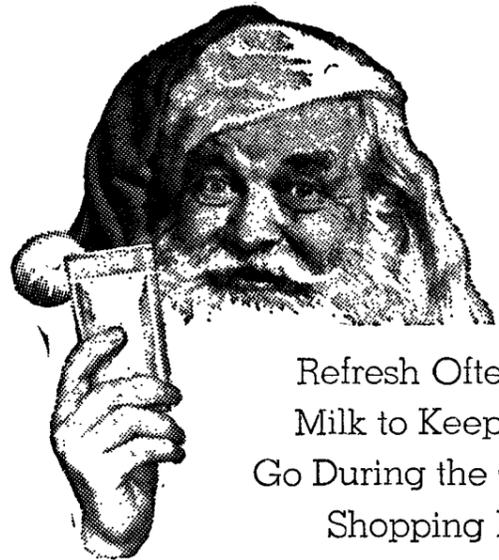
the electric field of the arc. When the flames are shot from the cylinder a magnetic field forms which also increases temperatures by constricting jet streams. This amounts to a sort of "magnetic pinch" effect.  
 Since any material thermometer would melt almost instantaneously in the plasma jet, temperature of the gas must be measured spectrographically. The gases successfully used in the cylinder so far are argon, helium, nitrogen, dry air, and carbon dioxide.  
 One of the main efforts of the Flight and Aerodynamics Laboratory is the investigation of motion in the boundary layer, which is the thin layer of air adhering to the skin of a missile in flight.  
 The laboratory has built its own low speed laboratory tunnel for boundary layer research. (This is the one the construction people said could not be built, according to lab officials.) In addition to this facility, the lab also has access to many other supersonic wind tunnels throughout the country.  
 Research in basic propulsion phenomena being pushed by the Missile Propulsion and Propellant Combustion Projects Laboratories include the study of kinetics combustion, the structure and stability of the flames, and the production and stabilization of free radicals.  
 There is increasing interest in the possibility of using stabilized free radicals for rocket fuels (a free radical is a group of atoms which act as a unit in chemical reactions.) Important experiments by the Missiles Propulsion Laboratory are under way in an effort to stabilize other radicals. One example is a substance converted from carbon disulphide that appears to be stable at minus 328 degrees F. This work is being continued by modification of the apparatus to include experiments at minus 454 degrees, the temperature of liquid helium.  
 Projects in nuclear and solid state physics are conducted by the Special Projects Laboratory. Nuclear physics research not only provides basic data of scientific interest, but also assures future competence in Ordnance for application of new developments in nuclear energy. A 20 Mev Van de Graff generator will soon be in operation in the lab for nuclear tests.  
 The Ballistic Computation Laboratory has engaged in mathemat-

ical studies designed to elicit all possible knowledge of characteristics of a missile in flight without actually flying the missile. Much can be learned about the behavior of missiles by "flying" them through high speed computing machines and supersonic wind tunnels. The machines and tunnels of ABMA have been used for this particular investigation.  
 Basic studies in the areas important to missile guidance and control are carried out in the Missile Guidance Laboratory. Theoretical and experimental projects on control systems, micro-wave transmission systems and jam-proof communication links are topical to basic research for better missile "brains."  
 The principal independent investigators of the Ivory Cellar in the following fields of science are:  
 Dr. Roger W. Clapp, Jr.—Solid State Physics.  
 Dr. Thomas A. Barr, Jr.—High Temperature Physics.  
 Dr. Walter W. Wharton—Combustion.  
 Dr. Pasquale Martignoni—Organic Chemistry.

Dr. Henry A. McGee — Low Temperature Chemistry.  
 John P. Hallows, Jr. — Control Systems.  
 Richard E. Ely — Materials  
 William D. Murphree — Aerodynamics.  
 Dr. Erich G. Pieruschka—Applied Mathematics.  
 Waite H. Todd — Electronics

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MONDAY — WEDNESDAY 6:00-8:00

COURSE	Prerequisite	Sem. Hrs.	Credit
Accounting 3, Intermediate Accounting	Accounting 2	3	3
Art 37:38, Elementary Ceramics (Wed. only 6:00-10:00)	None	1 1/2	1 1/2
Art 60 Sculpture (Wed. only 6:00-10:00)	Art 31 and 32	1 1/2	1 1/2
Biology 2, General Biology - Animal (Lab. Thurs. 6:00-10:00)	None	4	4
Chemistry 2, General Chemistry (Lab. Fri. 6:00-10:00)	Chemistry 1	4	4
Drawing 31, Eng. Drawing (6:00-10:00)	None	2	2
Drawing 32, Eng. Drawing (6:00-10:00)	Drawing	2	2
Drawing 33, Descriptive Geometry (6:00-10:00)	Drawing 31	2	2
English 2, English Composition (A Section)	English 1	3	3
English 9, American Literature	English 1-2	3	3
History 1, History of Western Civilization	None	3	3
Home Economics 1x - Interior Design (Wed. only 7:00-9:00)	None	NC	NC
Math. 01, Elementary Algebra (A Section)	None	NC	NC
Mathematics 11, Algebra (A Section)	None	3	3
Mathematics 15, Trigonometry (A Section)	Mathematics 11	3	3
Mathematics 51, Differential & Integral Calculus	Mathematics 49	3	3
MH 94, Strength of Materials (And extra sessions required)	MH 81 & Mathematics 51	4	4
Physics 6c, Technical Physics (Heat, Light & Sound) (Lab. Thurs. 5:30-8:00)	Mathematics 15	3	3
Introductory course for Medical Assistants and Technicians to begin January 20 (Monday only 7:00-9:00)	None	NC	NC

MONDAY — WEDNESDAY 8:00-10:00

Accounting 1, Principles of Accounting	None	3	3
A. E. 92, Airplane Performance	A. E. 91	3	3
Business Law 51, Introduction to Bus. Law	Junior standing	3	3
Chemistry 1, General Chemistry (Lab. Fri. 6:00-10:00)	Mathematics 11	4	4
English 1, English Composition (A Section)	None	3	3
English 2, English Composition (B Section)	English 1	3	3
English 03, Fundamentals of English	None	NC	NC
History 26, History of Alabama since 1860	Perm. of Instr.	3	3
Marketing 6, Business Correspondence	English 2	3	3
Mathematics 02, Plane Geometry	None	NC	NC
Mathematics 49b, Differential & Integral Calculus	Mathematics 49a	2	2
Physics 7c, Technical Physics (Electricity, Magnetism) (Lab. Tues. 5:30-8:00)	Physics 6c	4	4
Political Science 3, Functions of American Government	Pol. Science 1	3	3
Psychology 29, Applied Psychology	Psychology 1 or 3	3	3

Persons registering for English 1 and Mathematics 11 for credit will be required to take entrance examinations in those fields. These examinations are given at the Center, January 3 at 6:00 o'clock and 8:00 o'clock P. M.

TUESDAY — THURSDAY 6:00-8:00

Accounting 53, Intermediate Accounting	Accounting 52 or 3	3	3
Art 11:12, Drawing 1 and II (Tues. only 6:00-10:00)	None	1 1/2	1 1/2
Art 23:24, Elementary Painting (Thurs. only 6:00-10:00)	Art 11 or 12	1 1/2	1 1/2
Drawing 42b, Production Illustration (Tues. only 6:00-10:00)	Drawing 42a	1	1
Economics 11, Principles of Economics	None	3	3
E. E. 92, Electrical Machinery (Less lab.)	EE 91 or EE 93 & Ma. 51	3	3
English 1, English Composition (B Section)	None	3	3
English 2, English Composition (C Section)	English 1	3	3
English 5, English Literature	English 1-2	3	3
English 65, Shakespeare	Nine hrs. English	3	3
French 2, Elementary French	French 1	3	3
History 35, Institutional & Cultural History of the Christian Church to 1500	Perm of Instr.	3	3
Mathematics 15, Trigonometry (B Section)	Mathematics 11	3	3
Mathematics 25, Analytic Geometry & Calculus	Mathematics 15	3	3
Mathematics 49a, Differential and Integral Calculus	Mathematics 25	3	3
Mathematics 73, Theory of Equations	Mathematics 49	3	3
M.T.E. 91, Engineering Metallurgy	Chemistry 2 & Physics 5	3	3
Physics 72, Intermediate Mechanics	Integral Calculus	4	4
Russian 2x, Elementary Russian (Beginning date - Feb. 13 - Thurs. only 6:00-8:00)	Russian 1x	NC	NC
Spanish 1, Elementary Spanish	None	3	3

TUESDAY — THURSDAY 8:00-10:00

Accounting 2, Principles of Accounting	Accounting 1	3	3
Educational Psychology 63, Educational Psychology	Perm. of Instr.	3	3
English 126, The History of the English Language	Perm. of Instr.	3	3
German 2, Elementary German	German 1	3	3
G.E.S. 12, Engineering Preview	Mathematics 11 or GES 11	2	2
History 22, The United States since 1865.	None	3	3
I.E. 49, Manufacturing Processes	Mathematics 25	3	3
Math. 01, (B Section) Elementary Algebra	None	NC	NC
Mathematics 11, (B Section) Algebra	None	3	3
ME 51, Thermodynamics	Mathematics 51 & Physics 6	3	3
M.H. 82, Dynamics	MH 81, Math. 51	3	3
Physics 5c, Technical Physics (Mechanics) (Lab. Wed. 5:30-8:00)	Mathematics 15	3	3
Psychology 1, Introduction to Psychology	None	3	3
Speech 1, Basic Speech	None	3	3

**SATURDAY**

MH 95, Strength of Materials (Lab. only) Selected Saturday mornings at University campus.

Classes not enrolling sufficient number of students will be postponed until the next term.

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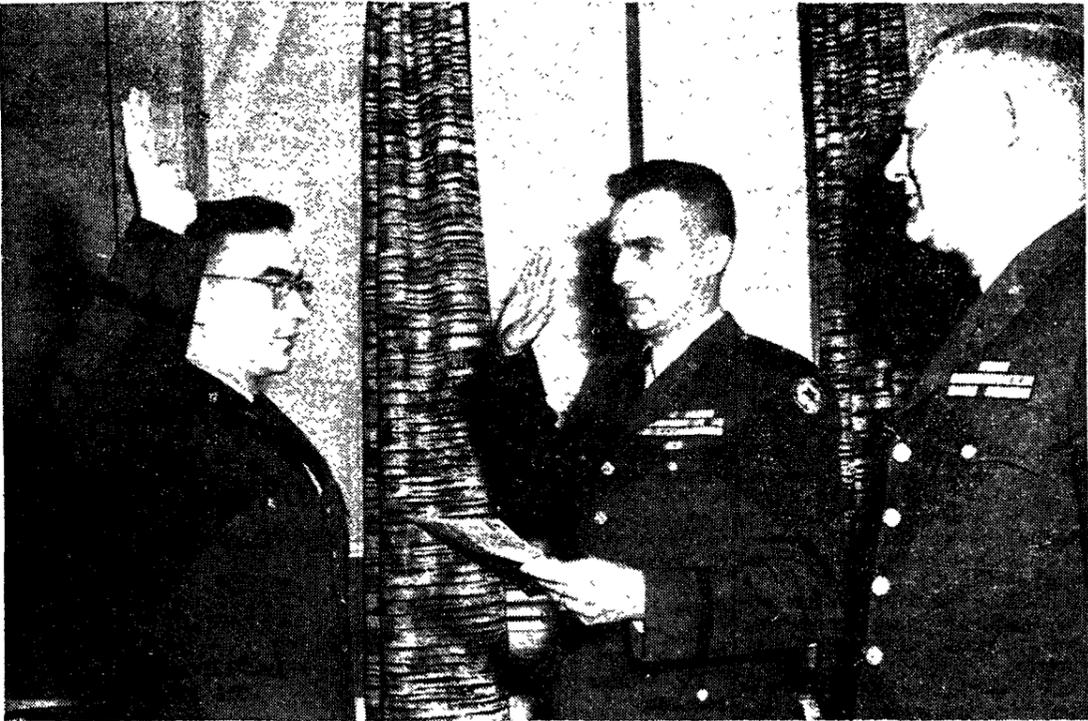
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**JOINS REGULAR ARMY**—Lt. Cecil L. Joyce (left) repeats the oath that changes his status from reserve to regular Army officer. Capt. Joseph Hosemann, adjutant at Redstone Arsenal, administers the oath while the assistant deputy post commander, Col. John M. Woestenburg, witnesses the ceremony. Lt. Joyce has been at Redstone since December, 1955, and has been an assistant special services officer among other duties. At present, Lt. Joyce is a student at the Ordnance Guided Missile School. A graduate of the Virginia Polytechnic Institute, Lt. Joyce received his bachelor's degree in business administration. He is a native of Bassett, Va. His wife is the former Miss Anne N. Dickinson, Charlotte, N. C. The couple have two sons, Page Nelson, 5; and Edward Lee II, 2 months.

### New Defect Reporting System Assures Proper Working of Big Missile

To insure efficient performance of the giant Redstone ballistic missile, a unique defect reporting system has been installed.

Engineers of the Industrial Operations Division, Army Ballistic Missile Agency, developed the system. It is employed in development, production, and field use of the missile and support equipment.

The Agency is weaponizing the Redstone missile system and applies the same defect reporting in the development of the Jupiter intermediate range ballistic missile.

"This is an integral part of our over-all quality assurance program and covers every phase of the Redstone weapon system," commented Maj. Gen. J. B. Medaris, Agency commander.

He pointed out that industry employs quality control to insure a long lifetime of continuous use for many products. The Army, on the other hand, wants 100 percent assurance that each Redstone missile will function once—when it delivers a nuclear or conventional warhead upon an enemy target as far as 200 miles distant.

The defect reporting system is a systematic method of recording, collecting, and processing data from the Agency's development laboratories, from industrial contractors who produce the missile and components, and from Army units employing the missile system in training for field usage.

The system provides the means

at every level of operation to detect, analyze, and evaluate trouble areas which sometimes crop up in the quality, reliability, and product-improvement aspects of the missile program. Compatible with quality control methods, it provides timely and accurate information through the use of electronic data processing equipment. The system also furnishes positive assurance of corrective action.

Defects noted in mechanical, electronic, and other parts, or components, are reported on IBM forms. Thus similar defect information from all sources can be correlated in processing. A continuous flow of information comes from the contractors and military agencies responsible for the development, production, supply, and maintenance of the Redstone System.

The IBM forms are funneled into the Computation Laboratory of the Missile Agency where they are processed by standard techniques employing huge computers. Similar data processing facilities are utilized by contractors. The Agency-developed quality assurance plan is furnished to Ordnance Districts across the country to help them determine the adequacy of contractor performance. Districts feed back defect reports to ABMA for over-all systems evaluation. Gen. Medaris noted that the same quality assurance effort is required for repair parts and assemblies, important to troops in the field, as for parts and assemblies incorporated into missiles in the production line of the Chrysler Corporation's Detroit plant. Chrysler is prime contractor for the Redstone.

The quality assurance program also covers the work of Ford Instrument Company, Garden City, N. Y., which supplies guidance and control assemblies; the Reynolds Metals Co., Sheffield, Ala., providing ballistic fuselages; and the Rocketdyne Division of North American Aviation at Canoga Park, Calif., supplier of the rocket engines.

Industrial engineers of the Agency work in close relation with laboratory, contractor, and user in monitoring the commodity-wide system. They perform the analysis and evaluation. As soon as a trouble area has been pinpointed, the designers are informed and product improvement is immediately started.

Sadder than the might-have-been is a go-getter who is sorry he gotter.

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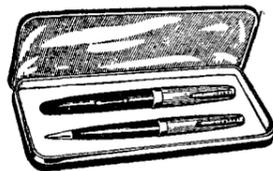
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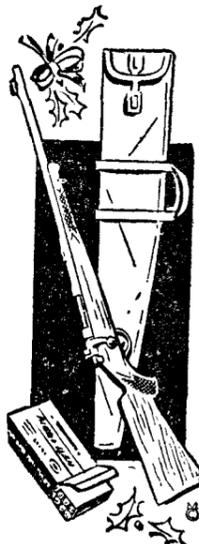


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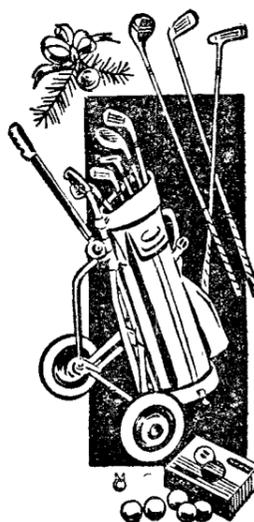
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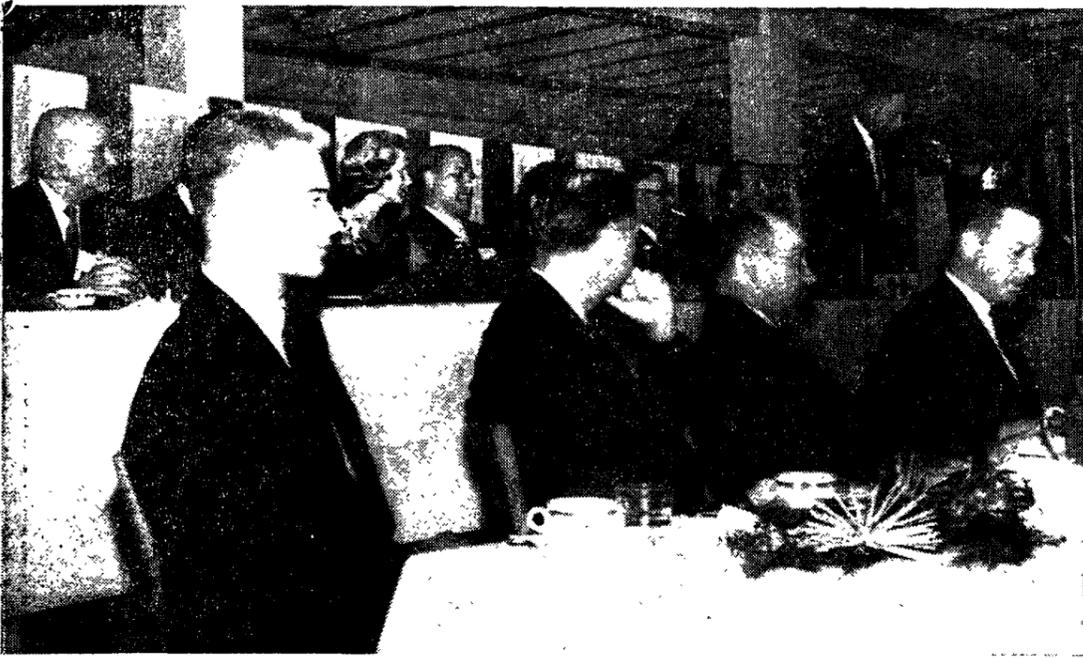
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HONORED AT BANQUET—PFC Ward C. Peterson (left, foreground), the Post Soldier of the Month for November, has a seat of honor at the annual Huntsville Chamber of Commerce banquet. The banquet was held at the Russel Erskine Hotel last Friday night. PFC Peterson is a student at the Ordnance Guided Missile School. He was studying electrical engineering at Iowa State prior to entering the armed forces. He joined the students at OGMS after completing courses at the Signal School, Ft. Monmouth, N. J.

(Photo by Bill Keller)

The Army is equipped and trained to apply military power with discretion, to discriminate between friend and foe, and to temper its application of force to fit the degree and scope of aggression.

The American Army today is one of the largest businesses in

The next bloodbank scheduled for the Arsenal is February, 1958.

the world, with property worth some \$52 billions.

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**Chanukah Services Are Scheduled Today**

at 8 p.m. today at the Temple B'Nai Shalom. Games, prizes, and refreshments are scheduled afterwards.

**RECORD**

(Continued From Page 1)

Outstanding unit was Hq. and Hq. Detachment, USAOA, composed of a cross-section of all Arsenal positions - medics to vets, chemists to clerks, including those in between. The detachment, com-

manded by Capt. John P. Dabravalskas, volunteered 100%, with 93% of those available on "B" day donating blood. First Sgt. James A. Andrews said that their posting a daily count-down of days to bloodmobile day, "B" day, assisted materially in their recruitment.

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12-oz. glass jar

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- HEAD LETTUCE, LARGE, 2 HEADS ----- 29¢
- SWEET POTATOES, LB. ----- 10¢
- BRAZIL NUTS, LB. ----- 39¢
- RED GRAPES, 2 LBS. ----- 35¢

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| DOMEDARY PITTED DATES 8-oz. Pkg. ----- 25¢                 | MARTHA WASHINGTON GREEN ASPARAGUS 303 CAN ----- 43¢      |
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| HUNT'S PRUNE PLUMS 2 1/2 Can ----- 25¢                     | ALLEN'S ALL GREEN & WHITE LIMA BEANS 2 300 CAN ----- 25¢ |
| HI-C ORANGE DRINK 46-oz. Can ----- 29¢                     | WHOLE KERNEL - KOUNTY KIST CORN 2 12-oz. CANS ----- 29¢  |
| BUSH'S MEXICAN BEANS 300 Can ----- 10¢                     | SACRAMENTO TOMATO JUICE 46-oz. CAN ----- 33¢             |
| BUSH'S PORK & BEANS 2 - No. 1 Cans ----- 15¢               | DELICIOUS HAZEL TEA 8-oz. PKG. ----- 45¢                 |
| Delmonte - Pineapple GRAPEFRUIT DRINK 46-oz. Can ----- 33¢ |  |

- Blue Plate STRAWBERRY PRESERVES, 12-oz. jar 32¢
- Chef Boyardee PIZZA PIE MIX, 15 oz. pkg. 49¢
- Sunshine HI-HO CRACKERS, 1-lb. box 37¢
- Sunshine PRETZEL STIX, 6-oz. pkg. 21¢
- Sunshine MARTINI CRACKERS, 10 1/2-oz. pkg. 39¢
- Sunshine CHEEZ-ITS, 6 1/4-oz. pkg. 19¢

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## 'RADIAC' GI'S BECOME REPAIRMEN FOR ATOMIC RADIATION INSTRUMENTS

FORT GORDON, Ga. — You can't see it, taste it, feel it, smell it. But it's there. And it can be dangerous. Thanks to the training given selected students at the Army's Signal Corps Training Center here, you may never fall victim to it.

It is atomic radiation and very much a part of our lives. It is used in industry, in curing certain diseases, and may be employed as a weapon.

Students taking RADIAC training here are learning how to operate and service the sensitive instruments that warn of radiation.

RADIAC stands for "radiation detection, identification and computation." The subject is taught as a one-week phase of the six-month field radio repairman's course here.

The 25 students begin with an orientation on the theory of atomic energy. Then they learn to use the Geiger counters and ion chambers. Finally they learn to service and repair these instruments.

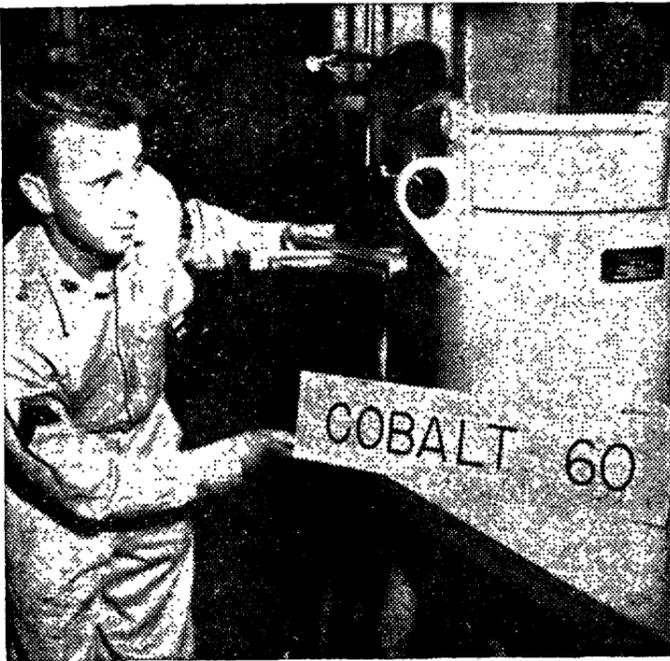
these devices will be the province of the Army Chemical Corps in use, but it will be the responsibility of the Army Signal Corps to keep them in working order.

There are at present about 25 different types of radiation detection instruments. Since the Army relies principally on Geiger counters and ion chambers, the students become proficient with these and have a working knowledge of the others.

Future plans call for lengthening the RADIAC phase to two weeks under the school's electrical instrument repairman's course. This will allow time for more detailed studies of the other detectors.

The RADIAC training will stand the soldiers in good stead in civilian and in military life. In addition to the need for radiation detection and control in civil defense and warfare, there are many industrial uses.

The manufacture of steel is now being controlled by utilizing atomic radiation. Where an exact thickness of a sheet of steel is



"HOT" COBALT—Protected by a lead shield, Corporal Robert E. Swensen of Zumbrota, Minn., uses the radiation to calibrate a Geiger counter. He is an instructor in the RADIAC course at the Army Signal Corps School, Fort Gordon, Ga. "RADIAC" means "radiation detection, identification and computation."

required, a source of radiation is placed below the sheet. As it passes over the "hot" material below, a counter above it reads its thickness as changing absorption of radiation. Variances too small to be spotted and corrected, thus assuring uniformity. This holds true in a growing number of industries.

The men in RADIAC are tutored by veterans in the field. Fred Noegel, civilian phase chief, holds bachelor and master degrees in physics from the University of Georgia.

Sergeant First Class Raymond H. Chapman of (1912 Rozella Rd.) Augusta, Ga., has spent a great deal of time working with atomic energy during his service career, and was at Eniwetok during A-bomb tests.

Corporal Robert E. Swenson of Zumbrota, Minn., was a television repairman and plans to study electrical engineering after his discharge. Private First Class Renato Burzio of (91 S. River St.) San Jose, Calif., studied physics and electricity in his native Italy.

Charley Noble has just discovered that bill and coo is NOT a dance team.

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**SOLON SAMPLES SOUP**—Sampling Army chow at the main troop mess hall is Rep. William G. Bray, Republican Congressman from Indiana who was recently assigned for one day to Redstone Arsenal to acquaint himself with Army missiles as part of his week's active duty as a National Guard lieutenant-colonel. Awaiting the solon's verdict on the soup is a fellow "Hoosier," Pfc. James R. Youngman, of the kitchen personnel at the Ordnance Guided Missile School. Pfc. Youngman hails from Batesville, Ind. Rep. Bray received briefings on activities at Redstone, OGMS, and ABMA before leaving for Ft. Bliss, Texas, where he was to continue his duty tour.

## 'Working Partnership' in Weaponry Is Described by Gen. Barclay

The "working partnership" between the Army and U. S. industry in the development and production of modern weapons was described by Brig. Gen. J. A. Barclay, ABMA deputy commander, in an address before the National Security Industrial Association in Washington, D. C., last Thursday night.

Referring to "critical appraisals of weapons development," Gen. Barclay declared this can be helpful "if well-informed and well-directed."

"Criticism alone is not enough," he added. "If it generates responsible and well-planned action, then the country will profit."

"While some may chafe at the delay in initiating an aggressive and imaginative satellite program, and demand that we not tolerate unnecessary delays due to indecisiveness, any program having such profound effect on our national security should not be undertaken precipitously nor without an objective. At the same time, I would stress that the hour of decision is at hand."

Speaking of the part industry plays in the Army's rocket and missile programs, Gen. Barclay explained that "we bring industry into our laboratories while a project is in the design stage. We depend upon industrial counsel to translate the designer's ideas

into producible hardware. We look to industry for the tooling and the facilities for production to assure the phased deliveries of components and assemblies which meet the high standard of performance required by automatic weapons systems."

As a case in point, Gen. Barclay cited the accelerated deployment of the Redstone Missile System "due in large measure to the fine teamwork and coordinated effort of our development personnel who work closely with the prime contractor, Chrysler Corporation."

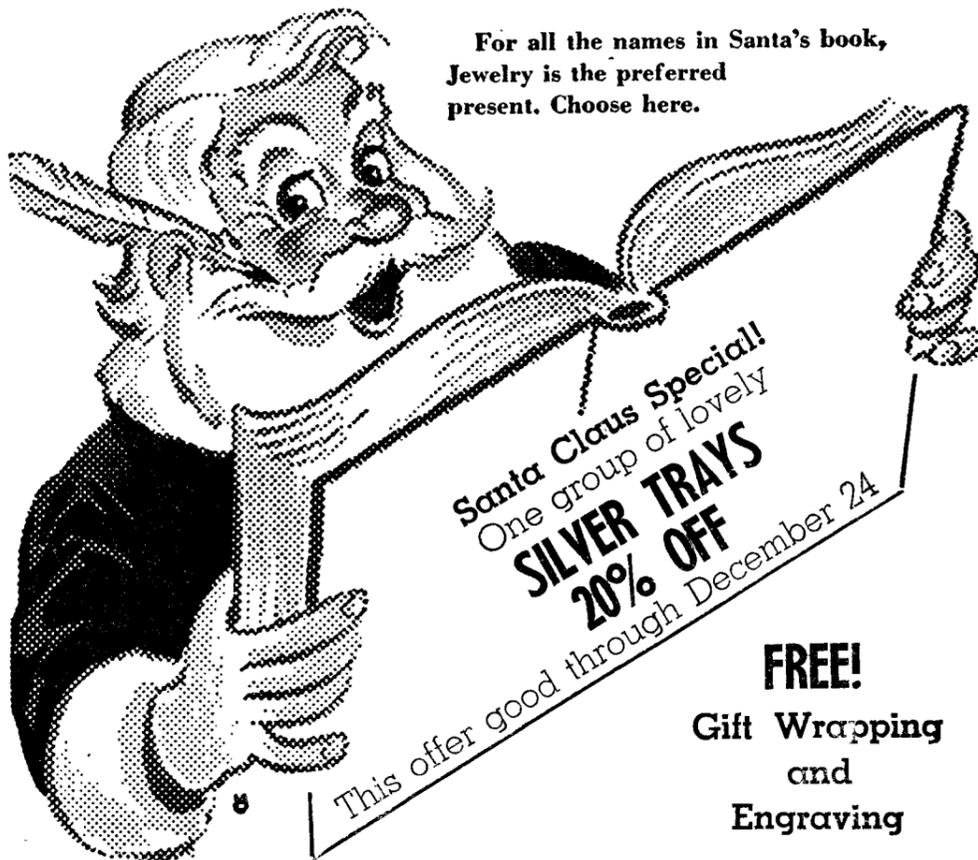
"This same kind of military-industry partnership, he went on, brought to "early maturity" other Army systems including the Dart, Hawk, Little John, Honest John, Corporal, and Nike.

"This nation has been the unchallenged leader in the progressive employment of production technology for the best interests of mankind," he concluded. "It must retain that leadership in all the sciences and go forward unafraid into the Space Age. Now as never before, we must keep our eyes on the stars and our feet on the ground."

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Ray Bradbury, "Dan-ielion Wine."

Max Brand, "Blood on the Trail."

Martin Caidin, "Vanguard! The Story of the First Man-Made Sat-ellite."

Charles Codman, "Drive."

Ursula Curtiss, "The Stairway."

Clyde Brion Davis, "Unholy Uproar."

Robert Doyers, "My Friends, the Huskies."

Maurice Druon, "Poisoned Crown."

Bergen Evans, "Dictionary of Contemporary American Usage."

Charles Fenton, "Best Short Stories of World War II."

Jack Finney, "Third Level."

MacKinlay Kantor, "Lobo."

Andrew Lytle, "Velvet Horn."

Rene Maine, "Trafalgar; Na-poleon's Naval Waterloo."

Ved Parkash Mehta, "Face to Face."

Ashley Montagu, "Man: His

First Million Years."

Farley Mowat, "The Dog Who Wouldn't Be."

Bjorn Nyberg, "Return of Co-nan."

Richard O'Connor, "Bat Mast-erson."

Frank O'Rourke, "Legend in the Dust."

Jean Potts, "Man with the Cane."

Mary Roberts Rinehart, "Mary Roberts Rinehart Crime Book."

Dale Van Every, "The Voyag-ers."

Gore Vidal, "Visit to a Small Planet; a Comedy Akin to Vaude-ville."

Evelyn Waugh, "Ordeal of Gil-bert Pinfold."

Patrick White, "Voss."

Frank Yerby, "Fair-oaks."

Curtis Anders, "Price of Cour-age."

Charlotte Armstrong, "The Al-batross."

Constance Babington Smith, "Air Spy."

Robert Buckner, "Sigrid and the Sergeant."

Otis Carney, "When the Bough Breaks."

Warwick Charlton, "Second Mayflower Adventure."

Winston Churchill, "Age of Re-volution."

Paul Clemens, "Little Black Book."

Borden Deal, "Dunbar's Cove."

Inglis Fletcher, "Wind in the Forest."

Norman Fox, "Valiant Ones."

Erle S. Gardner, "Case of the Daring Decoy."

Henry Gellermann, "How to Make Money Make Money."

"International Photog r a p h y Year Book."

Eric Larrabee, "American Pan-orama."

Charles E. Mercer, "Drum-mond Tradition."

Catherine Moore, "Doomsday Morning."

Richard Morenus, "Dew Line."

Joe Morris, "Deadline Every Minute."

William Morris, "It's Easy to Increase Your Vocabulary."

Walter O'Meara, "Devil's Cross."

Ayn Rand, "Atlas Shrugged."

Alexander Rose, "Pay the Two Dollars."

Robert Ruark, "Old Man and the Boy."

Frank Slaughter, "The Map-maker."

Nora Stirling, "Treasure Under the Sea."

Rex Stout, "If Death Ever Slept."

Elleston Trevor, "Killing-ground."

William Turner, "War Coun-try."

Neill Wilson, "Earth Changers."



THEY RECEIVE PROMOTIONS—The latest promotion list at Redstone Arsenal in- cludes the men above. They represent Hq. and Hq. Det., 9330; Det. A of the same outfit, and the 283rd Ord Det. Left to right they are: SP2 James M. Sullivan, Sgt. Virgil W. James, SFC Oscar D. Austin, SP2 Howard S. Hunter, SP2 Milton Tennerstadt, John B. Del- bagnio, and Charles W. Recka. The promotion ceremony was held in the office of Col. Keith T. O'Keefe, RSA deputy post commender.

**Rather Play Golf Than Sleep?—Join Army, Go to Alaska**

FORT RICHARDSON, Alaska — Around - the - clock golfing is one of the believe-it-or-not at- tractions of life for military and civilian personnel working at this Army Headquarters and at near-

by Elmendorf Air Force Base.

There's a joker to it, though. The season is short if the hours are not. While it is hoped that the weather will permit opening the course next week, last year play couldn't get under way un- til June 22, the time of year when it's light enough to play all night long. During most of the summer season inveterate golf- ers give up about 11 p.m., but can resume the game about 2

a.m. Fort Richardson is America's northernmost course with grass greens, and its narrow fairways flanked by heavily wooded for- ests make it a challenge to the longest and straightest hitters.

Experts or duffers, about 150 of them pay the 50-cent greens fee each weekend day and the long evening hours allow some hun- dred players to tee off on a work- ing day.



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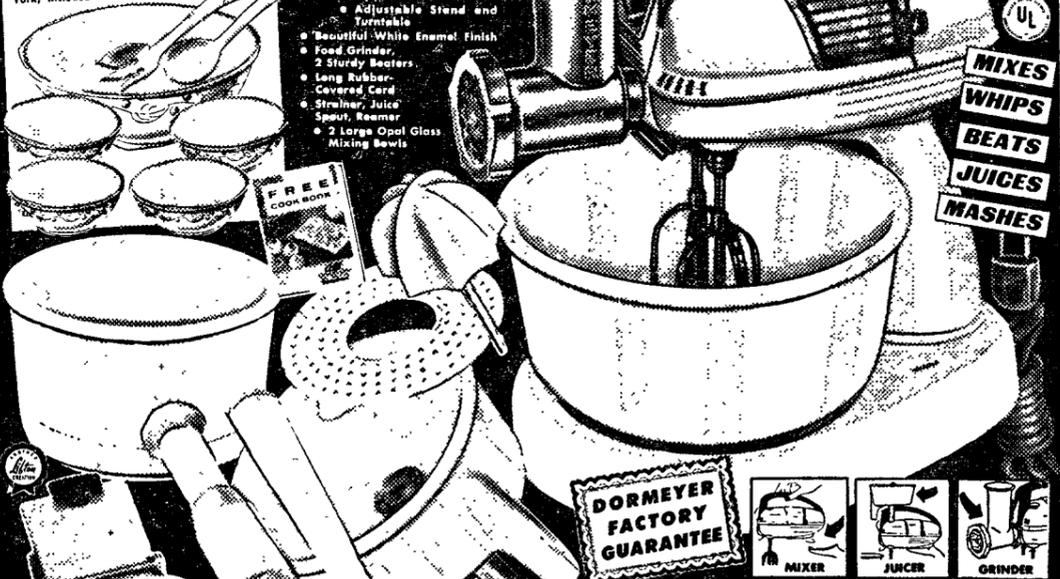
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**HOUSE FOR SALE** in Guntersville, 3 bedrooms, 2 baths, large dressing room in master bath, dining room, kitchen, utility, living room with fireplace and large playroom overlooking lake. Phone JU 2-3501 from 8-11 or 1-4 every day except Thursday and Sunday or write Box 427. 12-18p

**WOODY & CAMPER SEWING Shop** has moved from Nyle Shop to No. 9 East S. Square, Huntsville Sewing Machine Co. Phone JE 4-4918. Dressmaking, buttonholes, monogramming, and alterations. 12-30c

**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, schools, business district. Five blocks south of river bridge on Highway 31. Modern laundry facilities. Wiring adequate for any kind of electrical appliance. For reservation write P.O. Box 239, Decatur, Ala. ttc

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**FOR SALE** — Registered Beagle hounds. Phone JE 4-4456 or see at 1413 McClung Ave. S.E. 1tc

## When Army Truck Fails — It's Music

**SCHWEINFURT, Germany** — If the people of the German town of Trunstadt are heard humming American tunes these days, the simple explanation can be given by any member of the 86th Infantry Regiment's band. Fourteen members of the band gave an impromptu concert for the Trunstadters recently when the truck in which they were riding broke down in the town. The local populace immediately surrounded the truck and the 36th's musicians wasted no time in seizing the chance to entertain the Germans.

Use the Wantads to Buy



**CHIEF OF STAFF INSPECTS SATELLITE**—The Army's Chief of Staff, Gen. Maxwell D. Taylor, visited the Army Ballistic Missile Agency and Redstone Arsenal last week. Left to right, above, are, Maj. Gen. J. B. Medaris, Agency commander; Gen. Taylor; and Dr. Wernher von Braun, director of development operations in the Agency, looking at an Army prototype of a scientific satellite. The Army has been assigned the mission of launching a satellite in support of the International Geophysical Year.

## MOVIE SCHEDULE

Wednesday, Dec. 18 — "Band of Angels" starring Clark Gable and Yvonne DeCarlo (Mature) Time 1830 and 2030.

Thursday and Friday, Dec. 19 & 20 — "Bombers B-52", starring Natalie Wood, Karl Malden (Family) Time 1830 and 2030.

Saturday, Dec. 21 — "Jail Busters" starring Leo Gorcey, Huntz Hall, and the Bowery Boys (Family) Time 1800.

Saturday, Dec. 21 — "Paths of Glory" starring Kirk Douglas (Mature) Time 1830 and 2030.

Sunday, Dec. 22 — "Man in the Shadow," starring Jeff Chandler, Orson Welles, and Colleen Miller (Mature) Time 1400, 1830 and 2030.

Monday, Dec. 23 — "Return to War Bow", starring Phil Carey, William Leslie and Catherine McLeod (Family) Time 1830 and 2030.

Tuesday, Dec. 24 — "The World Was His Jury", starring Edmond O'Brien and Mona Freeman (Mature) Time 1830 and 2030.

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Saturday and Holidays 0800-1630

Sunday 1230-1930  
Monday and Tuesday —Closed

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# SCIENTISTS', ENGINEERS' PAY HIKE AFFECTS NUMBER OF POST PERSONNEL

An unknown number of installation personnel will be affected by the pay raise granted Government physical scientists and engineers last week.

The Civil Service Commission voted pay raises totaling \$25,500,000 for the 48,000 employees in these categories. The raises take the form of step increases to the top step in present pay grades.

Local personnel offices have received no official notification of the action, and therefore do not know exactly how many arsenal personnel are involved, or when the pay raises will become effective. It is thought to be effective soon after the first of the year.

The following is extracted from a Washington Post story of Dec 11:

The increases, ranging from \$135 to \$1080 a year in individual cases, will be effective in about two weeks to give agencies time to adjust their payrolls.

CSC said it took the step "on the basis of evidence the Government is unable to obtain critically needed scientists and engineers in sufficient supply at present rates." Officials say Government pay rates are a minimum of \$1000 a year behind those paid by industry.

The higher rates, CSC estimates, will enable the Government to hire 4000 additional scientists and engineers within the next year to work on the enlarged scientific and development program.

### Maximums to Be Paid

The CSC directive will have the effect of paying flat salaries to all physical scientists and professional engineers in Grades 5 through 17. These employees will be paid the maximum rates of their respective grades. A new employe will be paid the same rate as the employe with years of service.

The new pay rates follow: GS

Things have a way of working out for the best. Other people's troubles are never as bad as ours, but their children are always a lot worse.

5, \$4480; GS 6, \$4890; GS 7, \$5335; GS 8, \$5780; GS 9, \$6250; GS 10, \$6725; GS 11, \$7465; GS 12, \$8645; GS 13, \$10,065; GS 14, \$11,395; GS 15, \$12,690; GS 16, \$13,760, and GS 17, \$14,835. GS 18 remains a flat \$16,000, the maximum salary that can be paid classified employes.

These larger and flat salary rates, CSC explained, will apply

to employes in all professional engineering jobs such as civil, mechanical, electrical, highway, electronic, etc. Also, all building architects, physical science administrators, mathematicians, metallurgists, physicists and electronic scientists.

Chemists and bio-chemists will get the bigger pay checks but not aides, technicians or bacteriologists. Biologists aren't included in the higher pay order.

### Raises for Technologists

But technologists in aviation, survival equipment, industrial, radiology, packaging and preservation, photographic equipment, plastics and rubber will get the higher pay as will geo-physicists in seismology, geo-magnetics and

earth physics.

CSC suggests that you check with your personnel office if you are in doubt about the coverage of your job.

The proposal to pay the top step of the grade to scientists and engineers in grades GS 5 through 17 was first made a year ago by the National Advisory Committee for Aeronautics. Later, the NACA plan was endorsed by the Bureau of Standards, Navy and the Air Force.

The Defense Department stopped the plan temporarily last July when it asked for time to restudy the proposal in view of its tight budget and plans to reduce its civilian staff.

But two weeks ago Defense

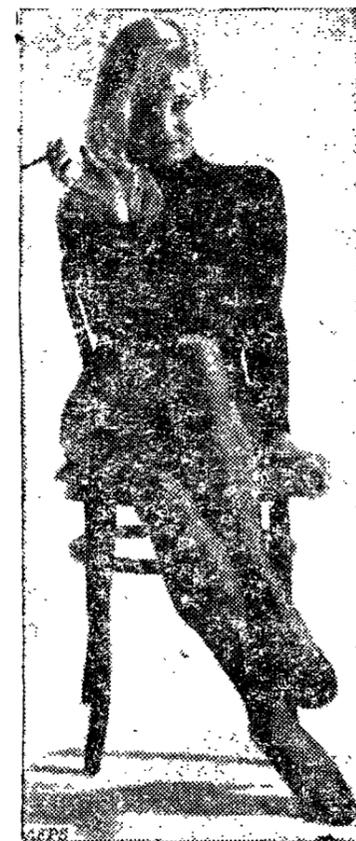
cleared the proposal and removed all doubts about its approval since Defense employs about 75 per cent of the Government's scientists and engineers. A Budget Bureau sub-official checked the cost of the plan but his interest didn't delay issuance of the CSC order.

A day or so after Sputnik, CSC and other Federal officials flatly predicted higher salaries would have to be paid to the key employes to man the Government's expanded scientific and development program.

Agriculture, Interior, HEW and the National Science Foundation are among the other agencies that have employes who will benefit by the order.

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BLONDE — Here is a picture of a very pretty girl named Susan Oliver. She's a green-eyed blonde and works as a movie actress in Hollywood, Calif.

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