

The Redstone Rocket

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VOL. VII; NO. 37

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 21, 1959

ABMA TO MARK THIRD BIRTHDAY

Open House Event Is Slated Feb. 7

The Army Ballistic Missile Agency will observe the third anniversary of its formation with an Open House Celebration on Saturday, Feb. 7, it was announced by Brig. Gen. J. A. Barclay, Commander.

All ABMA employes, their families, and the general public will be invited to attend.

Lt. Col. N. I. Reiter, chief of the Operating Services Office, is chairman of the planning committee.

Displays and demonstrations throughout the Missile Agency will be designed to inform the public of the vastness and complexity of the organization's operations.

Particular emphasis will be placed on the accomplishments of the past year and the Agency's role in the nation's space exploration program.

In addition to the exhibits, distinguished visitors will attend a luncheon at the Agency headquarters. A social affair is being planned for the evening.

"This will be the one big opportunity of the year for our families and the public at large to see what we are doing at ABMA," Col. Reiter said. "We have a full schedule planned, lasting most of the day, and are preparing for a capacity turnout."

Details of the event will be announced in next week's Redstone Rocket.

Second Redstone Fired by Troops At White Sands

The second in a continuing series of tactical test firings of the Redstone missile by U. S. Army troop units at White Sands Missile Range, N. M., was conducted successfully by members of the 209th Field Artillery Missile Group (Redstone) Monday.

The first tactical firing of a Redstone missile by U. S. Army troop units at the White Sands Missile Range was conducted on June 2, 1958 by the 40th Field Artillery Missile Group (Redstone) which is now deployed with NATO Shield Forces.

A surface-to-surface ballistic missile, the Redstone is capable of delivering an atomic warhead over a range of about 200 miles. It is 62 feet long and weighs more than 22 tons when fueled. It extends and supplements the range and firepower of conventional artillery in the hands of combat troops.

(See SECOND on Page 2)

CHANCE-VOUGHT TEST VEHICLE FIRED AT ARGMA

Two rocket-propelled surface-to-surface guided test vehicles developed by Chance-Vought Aircraft of Dallas, Texas, were fired on the ranges of the Army Rocket and Guided Missile Agency Sunday.

A Chance-Vought spokesman termed the first firing conducted Sunday morning as "successful." A later firing was termed "90 per cent effective."

Because of the nature of the tests, both Army and company officials declined further information on the operations' results or specific details of the test vehicle.

The battlefield vehicle, a new concept designed and developed by Chance-Vought, is being subjected to evaluation by the Army Ordnance Missile Command in furtherance of Army policy to give full consideration to all promising development.

Additional firings are scheduled during February and March.



INVENTORS—Brig. Gen. J. A. Barclay (right), Commander of the Army Ballistic Missile Agency, congratulates six ABMA employes upon their receiving the first awards to be given at Redstone Arsenal under a new Department of Defense Invention Award Program. The inventors are (left to right) Josef Boehm, Robert C. Martin, F. K. Mueller, Oscar C. Holderer, A. L. Herrmann, and Dr. Walter Haeussermann.

* * * * *

Six ABMA Employees Get Post's Invention Awards

Inventions by six employees of the Army Ballistic Missile Agency have earned them the first awards to be presented at Redstone Arsenal under a new Department of Defense Invention Award Program.

Awards in the amount of \$50 were presented last week by Brig. Gen. J. A. Barclay, ABMA Commander, to Dr. Walter Haeussermann, F. K. Mueller, Josef Boehm, A. L. Herrmann, and Robert C. Martin, all of ABMA's Guidance and Control Laboratory and Oscar C. Holderer, of ABMA's Aeroballistics Laboratory.

Under the recently organized program, a \$50 award is presented after the invention is reviewed by the U. S. Patent Office, determined to be patentable (i. e., useful and novel in the art), and an application for patent prepared and filed.

If a patent is later granted, an additional \$100 award is automatically approved for the inventor.

In addition to these award based on patents, if the invention is determined to be money-saving to the government it goes into the Invention Awards Program for evaluation and the inventor

may be eligible for a Suggestion Award. (Whatever amount has already been received granted under the Invention Award Program is deducted from the sum of the Suggestion Award.)

Dr. Haeussermann's inventions concern a system for control of the attitude of satellites and other space vehicles and an electric motor adapted for use in space. The invention would make it possible to control the attitude of vehicles in space with transportation from the earth of only a small amount of fuel through utilization of solar or atomic energy in connection with Newton's Third Law of Motion, Dr. Haeussermann's citation stated.

An invention made jointly by Mueller and Martin concerns a system for maintaining a missile's inertial guidance platform before take-off.

Boehm's invention consists of a set of jet motors especially adapted for control of the attitude of a satellite or other space vehicle.

Herrmann has invented a crank (See SIX ABMA on Page 2)

864th Strategic Missile Squadron Celebrates its First Anniversary

The 864th Strategic Missile Squadron (IRBM-Jupiter) celebrated its first anniversary Thursday as the Strategic Air Command's first IRBM Squadron in training at the Army Ordnance Missile Command at Redstone Arsenal.

More than 300 airmen and officers have been under intensive training with the Jupiter-IRBM liquid-propelled ballistic missile capable of delivering its nuclear or conventional warhead at supersonic speeds against targets 1500 miles away. The 864th which is commanded by Col. William C. Erlenbusch, is scheduled for early deployment overseas.

Recently, the Squadron graduated 74 Officers and Airmen from courses in Jupiter individual training, launch control training, guided missile operations, and missile maintenance.

Select officers and airmen of the squadron were chosen by the Strategic Air Command on the basis of technical ability, retentive capability, and top proficiency in fields adaptable to the missile field.

Squadron members have gone to school in two shifts, the first beginning at 7 a.m. and the second ending at midnight. Most of the men volunteered to enter the missile field and all were chosen

Patton Road Speed Limit to Be 35 MPH During Bad Weather

In an effort to reduce the number and seriousness of accidents, the speed limit on Patton Road will be reduced to 35 M.P.H. during inclement weather, the Provost Marshall Office announced.

Signs will be posted to warn drivers when the lower speed limit is in effect.

on the basis of past training and skills which could be converted quickly and easily to missile maintenance and operation.

(See 864TH on Page 2)

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AT 864TH BIRTHDAY PARTY—Col. William C. Erlenbusch, Commander of the 864th Strategic Missile Squadron in training at the Army Ordnance Missile Command, cuts a birthday cake in celebration of the Missile Squadron's first anniversary. The 864th has undergone intensive training in the past year with the Jupiter IRBM at AOMC and the Ordnance Guided Missile School. One of the Strategic Missile Command's missile units, the 864th is scheduled for early deployment overseas.

Dr. Von Braun Receives Top Civilian Award

Dr. Wernher von Braun yesterday received the highest honor the government can bestow on career civilian employes.

President Eisenhower presented him with a gold medal for distinguished Federal civilian service. The ceremony took place in the White House.

Dr. von Braun is Director of Development Operations, Army Ballistic Missile Agency.

OGMS to Graduate Turkish Classes Fri.; Honors Set

The first missile classes of the Turkish Army and Navy will graduate from the Ordnance Guided Missile School Friday and will be honored by a top-ranking U. S. government official and representatives of the Turkish Embassy in Washington.

Frank H. Higgins, Assistant Secretary of the Army for Logistics, will arrive here by special plane Thursday afternoon.

He will be accompanied by Col. Mueyyet Erdine, Technical Attache of the Turkish Embassy.

Higgins will speak at the Turkish graduation ceremony at the Redstone Arsenal Post Theater at 10 a.m. Friday.

After a tour of the OGMS facilities, he will fly to Birmingham to address a meeting of the American Ordnance Association, that evening.

USSR CHALLENGE NOT CONFINED TO MISSILE RACE

Von Braun Address Cites Other Areas

The American people "have not yet fully awakened to the breadth and depth of the Soviet challenge," Dr. Wernher von Braun told a meeting of the General Contractors Association of the U. S. in Miami Monday.

"There seems to be an illusion that this is a kind of race between competing teams of rocket builders," the Army missile and space expert said. "The notion that we must catch the Russians in this race, but have nothing (See CHALLENGE on Page 2)

President of Institute Of Radio Engineers Will Address Local Chapter

Dr. Ernst Weber, President of Brooklyn Polytechnic Institute, and recently elected president of the Institute of Radio Engineers, will speak at a meeting of the Huntsville Chapter of IRE Thursday, Jan. 22.

The dinner meeting will be at 6:30 p.m. at Dale's Restaurant.

Dr. Weber's address will be entitled "Scientific Engineering and IRE."

Dr. Weber is a native of Vienna, Austria. He received his Ph.D. degree from the University of Vienna in 1926 and a Sc.D. degree from the Technical University of Vienna in 1927.

In 1930 he accepted a post as visiting professor at the Polytechnic Institute of Brooklyn. He was recently named president of the Institute.

Dr. Weber will visit Redstone Arsenal during his stay in Huntsville. He will be accompanied by Mrs. Weber.

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 Redstone Arsenal, Alabama. In accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, 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 any organization at Redstone Arsenal, Alabama. 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 any organization at Redstone Arsenal, Ala.

The publisher will receive editorial content for publication in the Rocket only through the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama, Bldg. 4488, Extension 2722. All advertising copy and payments therefor are received by Mrs. Zillah Newsome, 308 E. Holmes St., Huntsville, Ala., P. O. Box 346, telephone JE 4-4701, as representative of the publisher.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.00 a year, or \$2.75 for six months. Mailing arrangements may be made with the publisher.

864th

(Continued From Page 1)

Airmen and officers of the 864th have been trained at the Ordnance Guided Missile School and at the Army Ballistic Missile Agency in launch site procedures which included the checking of components and simulated flight testing using ground support equipment.

Since last October, when contractors and Air Force officers from bases throughout the U. S., witnessed the handling, erection, rapid fueling and firing sequence conducted by personnel of the 864th, the Squadron has performed repeated simulated count-downs. Conducted at the Systems Support and Equipment Laboratory Jupiter Launch site and the Squadron Launch site, these count-downs include fueling but stop short of a live firing.

The past year has seen the young and select Jupiter launch crews become adept in the assembly and erection of the giant ballistic missile. They have also been trained in the procedure for the removal and installation of components including the guidance and control systems, the rocket engine, and pneumatic components accessible to the crews.

To meet such requirements, the Army Ballistic Missile Agency fabricated the tactical missile so that each of its operating systems or sub-systems could be functionally checked out, pneumatically, hydraulically, or electrically.

In August of last year, ABMA, commanded by Brig. Gen. J. A. Barclay, delivered to the Air Force the first tactical Jupiter IRBM ahead of schedule. The Jupiter was fabricated at the Missile Agency which has produced all Jupiter versions launched to date. Two research and development prototypes equipped with full-scale nose cones were successfully launched and both cones were recovered in undamaged conditions. In December the first successful flight of the Jupiter IRBM incorporating the tactical ballistic shell configuration. The on-target firing also as a secondary mission carried a primate over IRBM distance and contributed highly useful data for Army and Navy medical research into space.

The Army-NASA space probe, which was launched at Cape Canaveral, Fla., recently employed the Jupiter as a first stage for the JUNO II configuration which penetrated 65,000 miles into space and gained valuable data concerning cosmic radiation.

Highly mobile and capable of being launched from any terrain likely to be encountered in the field, the Jupiter Squadron, will be equipped with sufficient missiles to wipe out a large target complex.

During each eight-hour shift,

Second

(Continued From Page 1)

Redstone was developed by the Army Ballistic Missile Agency. The Army Ballistic Missile Agency and White Sands Missile Range are elements of the Army Ordnance Missile Command.

Planning for the Redstone firings at White Sands Missile Range began nearly two years ago. Military and civilian personnel underwent intensive schooling at the Army Ballistic Missile Agency and the Michigan Ordnance Missile Plant near Detroit, operated for the Army by Chrysler Corporation, where Redstones are produced. This training was under the direction of the Missile Agency's Training Division.

The Field Support Division of the Missile Agency is coordinating the Redstone test firing program at White Sands Missile Range through its Missile Systems Evaluation Office, which has a liaison office at the Missile Range for this purpose.

As a coordinating agency, the Evaluation Office is serving as a central clearing house for equipment requirements, test requirements, allocation of equipment and materials, gathering of information as a result of firings and evaluation of this information. The Office is supporting all agencies interested in the program including the Army Ballistic Missile Agency, White Sands Missile Range, Ft. Sill, and the Continental Army Command.

Troop firings of the Redstone missile are being conducted at White Sands Missile Range since that Range affords the opportunity of using tactical equipment under simulated tactical conditions. Due to the limited length of the White Sands Missile Range, however, firings over a greater distance will be conducted at the Atlantic Missile Range (Cape Canaveral).

Six ABMA

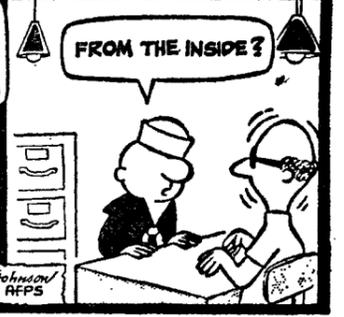
(Continued From Page 1)

accelerator by means of which missile components may be easily tested under rapidly varied accelerations that simulate those of a missile in flight and another assembly of elements facilitating the testing of missile precision instruments.

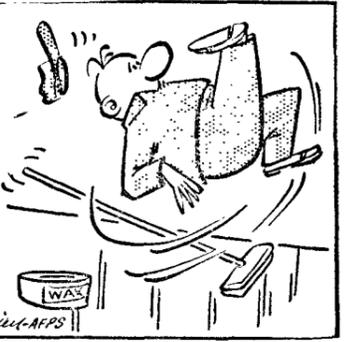
Holder's invention is a versatile clinometer, which may be quickly varied for efficient measurement of the inclination of different types of models in a wind

the launch crews on duty will insure that the missile is in perfect working order and ready for the final countdown which, if necessary, would send it blasting off toward a target 1500 miles away.

Charley Noble



STUFFY



Challenge

(Continued From Page 1)

else to worry about, is completely fallacious. A determined and able rival has challenged us in many areas—political, scientific, ideological, cultural, economic, and educational as well as technological.

The test therefore is not confined to the abilities of Tom Jones, American rocket engineer, and Ivan Podbrosky, Russian missile designer. Dr. von Braun pointed out. "This is a test of stamina, ingenuity, courage, and faith between every man who operates a lathe, who lays brick, who pours steel, who mixes concrete, who sews cloth, who analyzes chemicals, who solders connections, who resolves mathematical equations, who writes editorials, who comments about news, who delivers babies, who teaches children, who grows crops, who manages industry, who engages in trade and commerce—and his Soviet counterpart . . . It is a fight in which all of us are directly involved and the stake is our and our children's future. The result will demonstrate to all the world whether we are in fact, as we still have every reason to believe, the greatest nation on Earth and the shining hope of men everywhere."

There can be no possibility of mistake in evaluating Soviet intentions so far as outer space is concerned, said Dr. von Braun, who is Director of Development Operations for the Army Ballistic Missile Agency in Huntsville, Ala. "The objective is to master the spatial environment, certainly for peaceful, scientific purposes initially, but with the long-range motive of putting the capability of manned travel through outer space to use for the same overriding goal of expansion of their sphere of influence which is the ultimate purpose in all Communist endeavor."

The speaker declared that "the times call for sober realization" and for "a resolution . . . to get to work."

"I would not have you think that nothing has been done by this country since the Russians made their opening bid," he stated. "A great deal has happened

tunnel. In making the presentations, Gen. Barclay said the inventions "will advance" our country's drive for world peace and the exploration of outer space." He also stated that Dr. Wernher von Braun had advised him the inventions will "greatly aid" the success of missiles and space vehicles. Dr. von Braun is Director of Development Operations for ABMA.

The awards were processed by the Patent Branch of the AOMC Legal Office, in cooperation with the Redstone Arsenal Incentive Awards Office.

Last summer at a Wyoming dude ranch a guest from the city came upon Jack shaving in the open air behind the bunkhouse:

Guest: "Do you always shave outside?"

Jack: "Of course, . . . do you think I'm fur-lined?"

in the last 12 months . . . Out of these projects we have derived a wealth of data about the spatial environment."

No one accustomed to earth-bound concepts can possibly visualize all the wonders which may be the fruits of exploration into the far reaches of the universe, Dr. von Braun concluded. "But I believe that enough can be visualized to justify the assertion that we are on the verge of a truly golden age of discovery, one that yield manifold benefits if we can proceed in peace and without the menacing possibility of employing space technology for aggressive ends. The only sure guarantee of eliminating that threat is to advance our space exploration programs with redoubled vigor to the end that we establish, beyond all doubt and question, the supremacy of free peoples in this most challenging of all fields."

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LONG-DISTANCE SPEECH—Dr. Wernher von Braun's speech to a group of educators and businessmen in Chicago last week turned out to be in the form of a long-distance telephone call, instead of a personal appearance as planned. Severe weather conditions forced cancellation of his flight to the Windy City. But the address was delivered anyway—from his office via phone, to his audience in Chicago which listened in over an amplified hook-up.

*** * * * ***
CHALLENGE FACING U. S. EDUCATORS IS SPELLED OUT BY DR. VON BRAUN

CHICAGO — The challenge which American educators face in preparing youth for the stern responsibilities and vast opportunities to the Space Age was spelled out by Dr. Wernher von Braun in an address Friday morning to top educators and businessmen from the Chicago area.

Dr. von Braun, Director of Development Operations at the Army Ballistic Missile Agency in Huntsville, Ala., spoke on the topic "Youth Faces Tomorrow" as part of a Student Science Fair being held in Chicago.

"In company with many thousands of parents, I am aware of the wave of harsh criticism which has engulfed education in the past year," Dr. von Braun stated. "It stemmed from the sudden realization that a totalitarian state had managed to steal a march on us in technology, a field of endeavor which we had jealously prized as

our private preserve. The breast-beating which followed has undoubtedly caused some injustices, but it has also produced beneficial results, including the recognition by the Congress that Federal support must be more liberally provided in educational areas if we are to pull abreast of our competition and eventually forge ahead."

The Army missile and space authority pointed out that the Soviet Union has caught up to the United States numerically in the number of scientists actively engaged in State-approved programs, and is graduating twice as many engineers annually — 70,000 of them in 1958 compared to 32,000 in this country.

"The quick and easy assumption that public education in the U. S. is somehow to blame for all our ills does not square with the facts and does great injustice to the dedicated men and women who try their best to prepare youth for tomorrow's world," Dr. von Braun said. "If the schools were as inept as some critics assert, how can they explain our preeminence in so many fields of human endeavor? How do they explain the existence of cities like Chicago, or our national transportation systems, our great industrial complexes, our high standard of living which moves upward each year?"

However, such recognition of excellence does not answer the question bothering many who are deeply concerned about the nation's future at this point in history, he declared. "The rapid progress of science and technology demands not only that we have more Salks and Wrights and Ketterings, but that more intensive training be provided to more numbers of students than ever before. We must recognize individual abilities at the earliest possible ages and then cultivate and encourage them through the years of preparatory education to make it possible for them to achieve their greatest potential in adult life."

Should we devote more effort and attention to the slow child who needs it, or to the bright child who can put that extra attention to better use? Dr. von Braun asked the question and

'Old Acquaintance' Of 2 Years Ends for 8 ARGMA Engineers

New Year's Eve was especially significant for eight men of Det. A, ARGMA, as they celebrated nearly two years of "Old Acquaintance" at Redstone Arsenal. Their "togetherness" was terminated officially last week, when they

then answered: "The heart dictates that we spend more time with the slow child—every mother does it. But it is a question of national survival that we provide better opportunities for the exceptional child. For it is the gifted child of today that will be tomorrow's leader in our fateful struggle for scientific and technological superiority."

The speaker said he wished every city in the U. S. would follow the example of Chicago in encouraging high school students to study science and mathematics throughout their four-year courses. "What is even more praiseworthy," he added, "is your policy of making available five years of study in these fields for advanced students who have shown they can handle more difficult work."

The future of America in an age dominated by technology will depend largely upon the quantity and quality of engineers and scientists available to carry the nation forward, Dr. von Braun stated. "Thus we must face up to the situation and ensure that adequate recognition and reward are provided to them and to the teaching profession which prepares them."

It is not financial reward or personal recognition which should be the prime motivator for tomorrow's scientists and engineers, however, he declared. Rocket developers, he said, are constantly asked, "Why do we do these things? Will they ever pay off?"

Dr. von Braun answered, "Can you imagine anyone asking that of an Einstein or a Pasteur? There will be payoffs, of course, as we advance into space, but the most important, the reward of greatest lasting value, is our increased understanding of the spatial environment and of its influence upon our earthly existence . . . Here is the tomorrow which youth wants to embrace and for which we must provide whatever guidance and preparation we can."

Engineering Students From U. of Alabama Guest of Command

Thirty-five engineering students from the University of Alabama saw a long-run static test of a powerful Jupiter engine while

were separated from active duty. SP-4 Barney Rae, electronic engineer, and Pfc. Charley Despain, chemical engineer, were the first to leave on 3 Jan. They left together for Indiana State University where they will work towards Master's Degrees in Economics.

SP-5 Joe Worth and SP-5 Tom Yingling, both industrial engineers, were the next to leave together on 7 Jan. They are joining their wives in Pennsylvania and plan to obtain jobs in industry, although they had not decided where.

SP-5 Bob Cherry and SP-4 Paul Hansen, both industrial engineers, were separated on 8 Jan. Their plans were not definite. SP-5 Dick Smith, electronic engineer, and SP-4 Pete Fallo, chemical engineer, were separated 9 Jan. Dick plans to work for Commonwealth Engineers Incorporated in Jackson, Mich.

visiting the Army Ordnance Missile Command last week.

The firing was the climax of a day's tour of the laboratories of the Army Ballistic Missile Agency by the Student Chapter, Institute of Aeronautical Sciences at the University.

The students, accompanied by James O. Nichols, faculty advisor, saw how the nose cone and body of the missile are formed from aluminum and magnesium sheets at the Fabrication Laboratory.

At the Aeroballistics Laboratory they saw a test of a missile model at hypersonic air speeds in one of ABMA's wind tunnels.

Computation Laboratory personnel showed the visitors probably the South's largest assembly of digital and analog computers, used around the clock in missile and space research.

Test Area engineers carried the students on a tour of the blockhouse and the huge test tower after the firing of the Jupiter engine.

Rhymes of the Times

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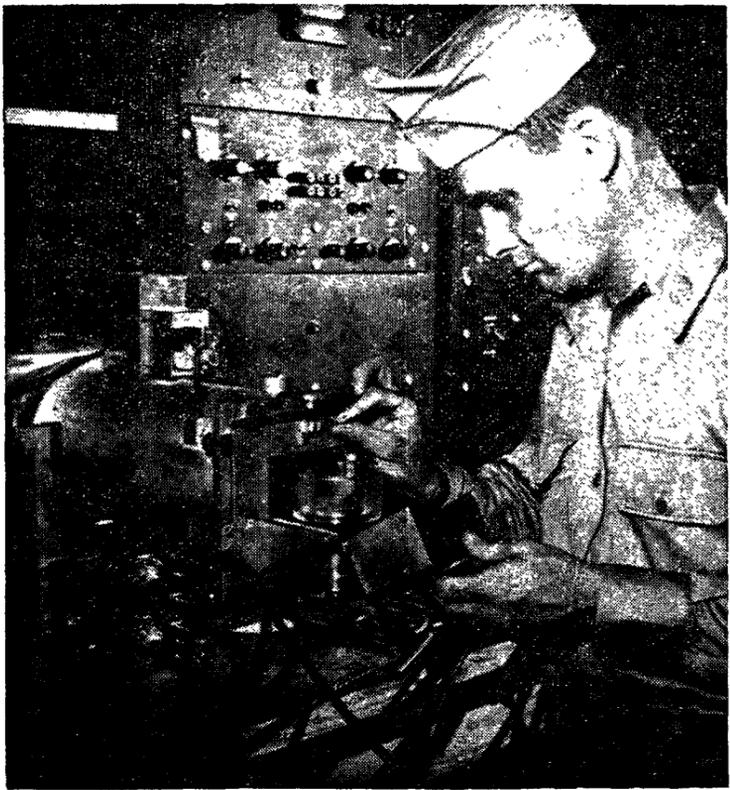
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ment Station participates, in an active or advisory capacity, in most of the major construction projects of the Corps. In addition, other Federal agencies, and occasionally state, local, and foreign governments and private firms, utilize its facilities. All studies or tests are conducted on a reimbursement basis, with the sponsoring office paying all costs involved, plus a general overhead charge to cover installation operating costs. Scheduled work for this year will run around \$5,750,000, equally divided between military and civil projects. The end result of all studies is a written technical report available through purchase or on loan.

To accomplish its primary function of contributing to the attainment of maximum effectiveness and economy in the civil and military construction programs of the Corps of Engineers, the Waterways Experiment Station is divided into three technical divisions, two supporting divisions, and administrative offices. The director is a commissioned officer of the Corps of Engineers, U. S. Army. At present, one additional officer and 10 enlisted men are assigned to assist on specific investigations. With these exceptions, the staff is made up of civil service employees, numbering about 150 engineers and scientists and 575 supporting personnel.

The Waterways Experiment Station consists of two reservations. The original reservation at Vicksburg, Miss., with an area of about 500 acres, houses the administrative headquarters, the hydraulics, soils, and flexible pavement offices and laboratories, and the technical and construction services. The offices and laboratory of the concrete testing facility and a 220-acre hydraulic model of the Mississippi River Basin are located on an 820-acre tract 40 miles east of Vicksburg near Jackson.

The Hydraulics Division is active in all phases of hydraulic engineering including analysis to establish design criteria, field testing of structures, flume and water-tunnel investigations into hydraulic fundamentals, and model studies of proposed works. Small-scale working models of rivers, dams, locks, harbors, and tidal waterways are used to improve methods of flood control; develop better and safer harbors and waterways; conserve our natural water resources; design hydraulic structures; protect coastal areas from hurricane waves; and determine the effects of military explosions on shore installations and structures.

Activities of the Soils Division fall into three principal categories. Soils are tested for suitability of use as construction materials and as foundations for massive engineering works. Geological investigations are conducted from an engineering viewpoint. Design criteria and construction methods are developed for flexible airfield pavements. Allied programs of military research and development work include design of prefabricated landing mat, foundation conditions are related to prefabricated piers and missile launching sites, evaluation of the effects of environmental factors on military operations, stabilization of soils for military purposes, and ability of natural terrain to support off-road movement of military vehicles on soils, sand beaches, and snow.

Since the Corps of Engineers is one of the largest users of concrete in the world and since its concrete structures are of many different sizes and types for use under widely different conditions of service and exposure, the scope of the concrete investigation-waterways experiment gallery 2. tions is very broad. The Concrete Division develops information to insure that the concrete made and placed by the Corps is of adequate quality to give the service

Joint Supply Support Seminar Is Held on Post

The Army Ordnance Missile Command Thursday completed a three-day Joint Supply Support Seminar which was designed to brief representatives from Ordnance agencies on the responsibilities of AOMC with respect to

intended and that it is obtained at the lowest cost consistent with the required quality.

The Construction Services Division includes shops for the fabrication of test elements and special equipment; facilities for the maintenance of buildings, utilities, and test installations; light and heavy equipment for field construction; and a crew skilled in model construction.

The Technical Services Division includes the Research Center with its special engineering library, technical information, and translating functions; the Reproduction Branch with its photographic, editing, and drafting facilities and its fully equipped printing plant; an Electronic Computer Branch to provide computation and punched-card data processing services; a Technical Liaison Branch to operate the film lending service, conduct the public relations program, and conduct guided tours for the general public; and an Instrumentation Branch to design, develop, and construct special equipment.

Since much of the work at the Waterways Experiment Station is pioneering into uncharted fields of engineering knowledge, there is a continuing need for new and unusual instruments to measure and record the results of experiments, in both the laboratories and the field. Among the special instruments devised and constructed here are cells for measuring changing earth pressures, water pressures, vibration, and temperature; electronic equipment for measuring blast pressures created by explosions; instruments to measure currents and velocities in ship channels; mechanisms to automatically produce tides in estuary model studies; machines to simulate wave action in harbor models and instruments for measuring and recording wave heights; sonic apparatus for determining strength of concrete; automatic flow programmers and water-level recording devices.

Since its establishment in 1929 as a hydraulic laboratory, the Waterways Experiment Station has gradually enlarged in scope to become the Corps of Engineers' principal research, development, and testing facility in hydraulics, soil mechanics, concrete research, and flexible pavement design.

missile and rocket units slated for overseas deployment.

Seventy-five representatives from Ordnance agencies throughout the nation attended the joint seminar which outlined the procedures concerning the initial equipping of missile and rocket units either activated or reorganized and scheduled for deployment to U. S. or NATO Forces.

The management philosophy and the degree of control that will be exercised by AOMC and the Ordnance Ammunition Command in fulfillment of the newly assigned responsibilities were also outlined at the Seminar. AOMC is responsible for the coordination of all Ordnance Corps supply, maintenance and technical assistance activities in support of the activation, organization and deployment of Army missile units and training cadres. Types of units are as follows: Field Artillery Units (including Missile Commands), Air Defense Missile Units, some Ordnance Missile Support Units, Signal Missile Support Units and Engineer Missile Support Units.

Presentations were made by personnel of the Army Ballistic Missile Agency and the Army Rocket and Guided Missile Agency during the seminar. Personnel from the following agencies were represented at the seminar: Office, Chief of Ordnance; Ordnance National Inventory Control Points; Distribution and Key Depots; Overseas Supply Agencies; Ordnance Districts; Fort Bliss; White Sands Missile Range; Fort Sill and the Continental Army Command.



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WATERWAYS EXPERIMENT STATION EQUIPMENT—
 Shown above is rotating-drum camera and housing for high-speed measurements of explosion parameters, designed and constructed by the Instrumentation Branch of the Waterways Experiment Station, U. S. Army Engineers, Vicksburg, Miss. This equipment was devised for use in developing basic data relative to the effects of explosions in shallow harbor areas. Determinations are made of the effects of possible damage of explosions from varying sizes of charges in earth, water, and air. Data are obtained on shock wave phenomena occurring in the air near the blast point, the characteristics of waves developing in water, and the cratering effects in shallow harbors.

* * * * *

WATERWAYS EXPERIMENT STATION IS KEY MEMBER OF INTERSERVICE COMMITTEE ON TECHNICAL FACILITIES

Editor's note: The following article begins a series on organizations which comprise the membership of the Interservice Committee on Technical Facilities (ISCTF). Southeastern U. S. Chairman of the committee is Charles L. Northrup, Chief of the Systems Test Branch, Test and Evaluation Laboratory, Ordnance Missile Laboratories Division, Army Rocket and Guided Missile Agency.

The mission of the committee, organized in 1955, is to promote cooperative use of facilities and interchange of scientific knowledge among member agencies in order to facilitate accomplishment of their technical programs, and to minimize duplication of equipment and effort. To implement this aim, the committee provides for: direct exchange of knowledge at technical sessions; familiarity of all concerned with the operations, facilities, and capabilities of participating agencies through the media of special publications and physical inspections; direct inter-

laboratory or inter-service assistance such as equipment loan, fabrication services, calculation or computer services, translation services, and the like.

Membership of the committee includes: U. S. Navy, Underwater Sound Reference Laboratory Orlando, Fla.; U. S. Navy, Mine Defense Laboratory, Panama City, Fla.; Army Rocket & Guided Missile Agency, Redstone Arsenal, Ala.; U. S. Army Engineer, Waterways Experiment Station Vicksburg, Miss.; U. S. Air Force, Air Proving Ground Center, Eglin AFB, Fla.; and Tennessee Valley Authority, Chattanooga, Tenn.

In the following article, the first of a series, the facilities and functions of U. S. Army Engineer's Waterways Experiment Station at Vicksburg, Miss.)

The U. S. Army Engineer Waterways Experiment Station at Vicksburg, Miss., is a laboratory installation of the Corps of Engineers. Its mission is to undertake experimental studies in the general fields of hydraulics, soil mechanics, flexible pavements, and concrete in cases where model studies, laboratory tests, and analyses are applicable. It also provides a research service to assemble, analyze, and disseminate experimental data of importance to the Corps of Engineers. Investigations include not only the analysis and resolution of problems connected with specific projects but also fundamental studies for general application and work of a purely developmental nature.

Operating under the direct supervision of the Chief of Engineers, the Waterways Experi-

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HANDSHAKE FROM THE MAYOR—Huntsville Mayor R. B. Searcy (center) exchanges a double handshake with Maj. Ejvin Larsen (left) of Denmark and Maj. George Morck of Norway during farewell party held Jan. 13 by 20 officers of the Royal Danish Ordnance Corps and the Royal Norwegian Air Force on Jan. 13 at the Redstone Arsenal Officers Club. The foreign officers have been students at the Ordnance Guided Missile School for the past several months, and are being transferred to the Army Air Defense Center at Ft. Bliss, Texas.

DANISH, NORWEGIAN OFFICERS ENTERTAIN AT FAREWELL PARTY

About 20 officers of the Royal Danish Ordnance Corps and the Royal Norwegian Air Force entertained at a farewell party held Jan. 13th at the Redstone Arsenal Officers Club.

Guests included 30 officers of the Ordnance Guided Missile School and citizens of the community, with whom the foreigners had close contact during their stay here.

Maj. Ejvin Larsen, Senior Danish officer, read a letter of thanks to Huntsville Mayor R. B. Searcy in which he asked the mayor to convey the thanks of the Danes and Norwegians for the hospitality shown them.

Maj. George Morck of Norway presented a letter of appreciation to Col. H. S. Newhall, Commandant of OGMS, thanking him and his staff for special training given the first missile units from the two countries.

The Danes and Norwegians, 80 officers and men, were transferred last week to the Army Air Defense Center at Fort Bliss, Tex., for training in anti-aircraft missiles.

Newcomers' Coffee Slated for Tuesday

Newcomers to the Redstone Arsenal Officers Wives Club will be feted with a Newcomers Coffee on Tuesday, January 27, from 10 a.m. until 11:30 a.m. at the

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Fashion Show Will Feature Golf Togs

"Fashion Tips for the Tee-Off" will highlight the monthly luncheon to be held by the Golf Group of the Redstone Arsenal Officers Wives Club on Wednesday, January 28, at 12:30 p.m., Squirrel Hill Officers Club.

Marking the opening of the

Results Announced For Officers Wives Club Bridge Group

The Redstone Arsenal Officers Wives Club Bridge Group met Thursday for weekly competition with the following results:

PARTY BRIDGE: 5 tables, first, Mrs. John Palsrok; second, Mrs. J. C. Scholtz, third, Mrs. T. T. Fisher; low, Mrs. S. J. Dobbs.

DUPLICATE, 7 tables, North-South, first Mrs. Norman Ricker and Mrs. Pierre Tisdale; second, Mrs. Thomas Reed and Mrs. C. C. Young; East-West, first, Mrs. J. J. Fagan and Mrs. Bruce Pierce; second, Mrs. Cleves Howell and Mrs. R. W. McNamee, Jr.

The Canasta Group of the Officers Wives Club will begin weekly competition on Thursday, 22 Jan., meeting at 12:30 p. m. at the Squirrel Hill Officers Club. All members interested in this activity are invited to participate. For reservations, call Mrs. R. C. Roberts, ext. 7345.

Squirrel Hill Officers Club.
All officers' wives who have arrived on the Post during the past six months are invited to attend the event, which is being sponsored by the Club's Hospitality Committee. Group activity chairmen will be present to acquaint the newcomers with the Club's wide variety of activities. For reservations call Mrs. E. J. Kloos, ext. 8246. The Post Nursery will be open.



100 PER CENT MEMBERSHIP — The 96th Chemical Group (U. S. Army Reserve) in Huntsville recently received a citation for having 100 per cent membership in the Reserve Officers Association. In photo above, Lt. Comdr. John H. Graham (USNR) (right) president of the Huntsville Chapter of ROA, presents citation to Lt. Col. William C. Benton (USAR), commander of the 96th Chemical Group and vice-president of the Huntsville Chapter of ROA. Looking on are members of the 96th Group (left to right): Capt. George C. Travis, Jr., Capt. Paul R. Bungard, Maj. Harvey H. Mossawir, Lt. Wesley A. Parker, Lt. Jimmie L. Hinton and Lt. Col. William P. McNutt.

Heroes of '76 Plan Meeting Jan. 30

A meeting of Monte Sano Camp of the Heroes of '76, an adjunct of Redstone Chapter 353, National Sojourners, will be held at 7 p.m., Jan. 30 at the Yarbrough Hotel.

Members planning to attend should contact Capt. Gerald E. Watkins, ext. 5142, prior to Jan. 28.

Group's new season, the luncheon will feature a fashion show showing the latest styles in golf sportswear and equipment.

Fashions will be furnished by Harold's of downtown Huntsville and Parkway Center. Sports equipment will be courtesy of Kinsey Estes, pro-shop, Municipal Golf Course.

Mrs. T. H. Crommer is in charge of the fashion show and ladies of the Golf Group will model. In addition, golf events for the coming season will be discussed by Mrs. George Koebbe, tournament chairman.

All members of the Redstone Arsenal Officers Wives Club who would like to join the Golf Group are invited to attend. Reservations should be made or cancelled by noon, Monday, January 26, by calling Mrs. O. O. Roundy, JE 4-7851, or Mrs. H. H. Northington, ext. 8649.



It's nearing the end of the season
When rooters are swarming
like bees on
The stadiums, and
The seats in each stand
Are something they shiver and
freeze on.
Cheerleaders will lead their last
cheer,
The players will soon
disappear,
And the fans will again
Get pneumonia, and then
They'll do it all over next year.



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BASKETBALL SCHEDULE
(21-27 Jan)

Jan.
21—Officers -vs- Hq & Hq Det 2—1800
291st MP Co -vs- 9615 Sig Det—1930
"A" Det OGMS -vs- "B" Det OGMS 2—2045
22—Hq & Hq Det 1 -vs- Hq & Hq Det UTC—1800
3rd ETD -vs- "B" Det ABMA—1930
1st ETD -vs- 864th A. F.—2045
23—228th Ord Plt -vs- Hq & Hq Det—1800
2nd ETD -vs- Medical Det—1930
Officers -vs- "B" Det OGMS 1—2045
24—"B" Det OGMS -vs- 3rd ETD—1800
2nd ETD -vs- Officers—1930
Hq & Hq Det 2 -vs- ETD—2045
26—228th Ord Plt -vs- Medical Det—1800
Hq & Hq Det 2 -vs- "B" Det OGMS 1—1930
2nd ETD -vs- 864 A. F.—2045
27—Officers -vs- "B" Det ABMA—1800
1st ETD -vs- Hq & Hq Det UTC—1930
3rd ETD -vs- 9615th Sig Det—2045

BASKETBALL SCOREBOARD
291st Mp Co—50 - "B" Det OGMS 1—42
9615th Sig Det—39 - Hq & Hq Det UTC—35
"B" Det ABMA—63 - "B" Det OGMS 1—34
864th A. F.—41 - "A" Det OGMS—35
Hq & Hq Det 196 - Medical Det—36
3rd ETD—44 - Hq & Hq Det 2—40
Hq & Hq Det 1—63 - "A" Det OGMS—41

STANDINGS IN REDSTONE ARSENAL UNIT LEVEL BASKETBALL LEAGUE

	WON	LOST
Hq & Hq Det 1	9	0
291st MP Co	8	0
"B" Det ABMA	8	1
1st ETD	6	2
Officers	6	2
3rd ETD	5	4
Hq & Hq Det 2	4	5
"B" Det OGMS 1	4	5
2nd ETD	3	3
9615th Sig Det	2	6
"A" Det OGMS	1	8
Medical Det	1	8
"B" Det OGMS 2	0	8

Accountants Group Is Rated High in National Competition

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

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SPORTS QUIZ

- Two of the NFL's top kicking specialists tied for the league scoring title last season with 77 points each. Name them.
- Give these schools' nicknames: Clemson, Princeton and Auburn.
- Of the eight times the Yankees have been in the World Series under Casey Stengel, they have faced four NL foes. Name them.
- Which of these golfers can't play in the National Amateur—Frank Stranahan, Julius Boros, Billy Joe Patton or Harvie Ward?
- Cy Young holds the lifetime record for most big league victories with 511. What pitcher lost the most games?

(Answers)

RSA MIXED BOWLING LEAGUE
as of 12 Jan.

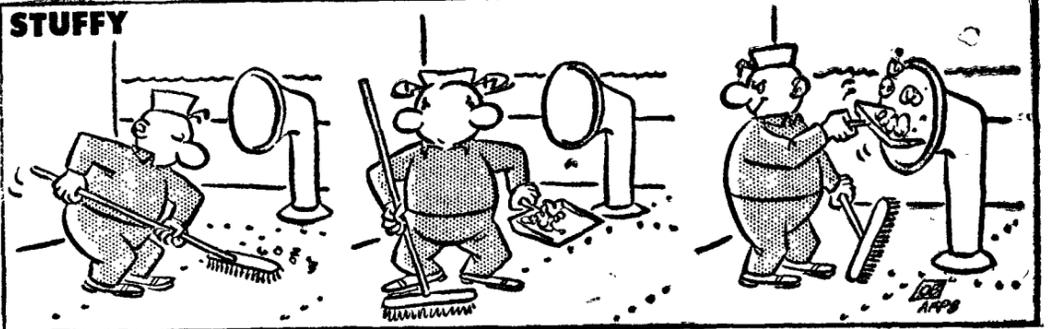
Name	Won	Lost
Peapickers	36½	30½
Bombers	65½	51½
Pindroppers	60	57
Hi-Counts	57	60
Bowlweevils	55	62
D-Yanks	53½	63½
HolyRollers	49½	67½
Blindmice	42	75

200 Games (Men): Rabinowitz 205, 215-609; Usinger 222, 202, 611; Hess 202; Middleton 206; Raffety 219.
180 Games (Women): Rabinowitz 182-514; Wood 181, 181, 527.

Special Services Activities

POST SERVICE CLUB OPERATING HOURS
Monday thru Saturday 1000-2200.
Sunday and Holidays 0900-2200.
LIBRARY OPERATING HOURS
Monday thru Friday 0900-2200.
Saturday and Holidays 1000-2200
Sunday 1200-2200
CRAFTS SHOP OPERATING HOURS
Monday and Tuesday—Closed.
Wednesday thru Friday 1400-1630 and 1730-2200.
Saturday and Holidays 0800-1630
Sunday 1230-1930.
RSA BOWLING LANES OPERATING HOURS
Mon., Wed., and Sun., 1300-2300
Tues., Thurs., Sat., Hol., 1000-

Decatur.
James Thomas of Redstone Arsenal announced that the chapter was in fifth place in National Stephenson Trophy Competition. The chapter's outstanding work to earn fifth place among the 150 chapters throughout the country can be attributed to the industrial growth of the area.
J. Grady Shaw, of Chemstrand Corp., Decatur, reported that plans had been made for the chapter to visit the Chemstrand Acrilan plant in February.
The board approved two new applications for membership: Gerald W. Whitehead, Ford Motor Co., Sheffield, and Mrs. Olene S. Davis, National Pool Equipment Co., Florence.



Edward L. Hopper Heads Legal Office For Redstone Arsenal

Edward L. Hopper has been named as Chief of the recently established Redstone Arsenal Legal Office.
The new RSA Legal Office is located in Bldg. 7132 on the post.
Hopper served as Acting Staff Advocate for AOMC Headquarters until recently, as captain in the Regular Army. He was separated from military service in Oc-

2300.
Friday 0900-2300.
League Play:
Friday 1300-1600 and 2000-2300
Monday thru Thurs., 1745-2200
GOLF DRIVING AND ARCHERY RANGE OPERATING HOURS
Sun thru Sat., 1300-1830.
POST GYMNASIUM OPERATING HOURS
Monday thru Friday 1030-2130
Saturday 0930-1700
Sun. — 1300-1600.
The Gym will be reserved for ladies of the post Tuesday and Thursday mornings from 0930-1130 hours.
The Gym will be reserved for ladies of the post Tuesday, Wednesday and Thursday mornings from 0915-1115 hours.

E. L. Lawrence Voted Top Speaker at Meet

E. L. Lawrence, Firestone, representative at Redstone, was voted best speaker at the Red-

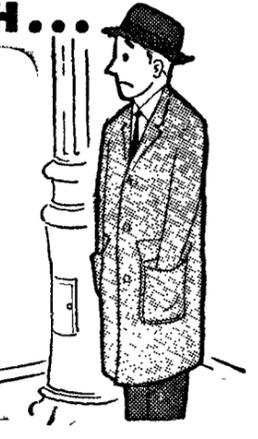
stone Toastmasters meeting on Jan. 6th.
Other speakers on the program were Al Ginzberg, Frank Sutherland, and E. C. Roberts.
Presiding officer was Maj. Jack Cary, who also served as Toastmaster of the evening. Bob Smith was the Topic Master. General Evaluator was Roy Pugh. Grammarian was Henry Clifford. "Ah Counter" and joke-master was Web Mayfield.
During the business session Frank Cameron was voted into active membership and the application for membership for Dave Holden was read.
The announcement was made that Feb. 3rd would be the runoff for the best speaker contest. The winner will represent Redstone 1932 in the area contest.
Guests for the evening were C. W. Hess of ABMA, Miles Hardinberg of AOMC, and Maj. Charles Herbs, stationed at Ft. McClellan, Ala.
Persons who are interested in joining the Redstone Toastmasters Club may contact the Club president, Maj. Jack Cary, at ext. 5143.

tober.
A native of Carbon Hill, Ala. he holds AB and LLB degrees from the University of Alabama. He also attended Alabama Polytechnic Institute at Auburn.
He entered the Army as a private in 1942, and later received a battlefield commission in Germany when he was serving in an Ordnance unit commanded by the officer who is now Commanding General of the AOMC, Maj. Gen. J. B. Medaris.
Hopper was separated from military service in 1946 and attended college until he re-enlisted in the Army in 1951 as an officer in the Judge Advocate General Corps. He has been at Redstone Arsenal since March, 1957.
He is the son of Mr. and Mrs. William L. Hopper, Sr., of 1925 Portage Ave. N., Birmingham. He is married to the former Ann Elizabeth Wells, a daughter of Mr. and Mrs. Henry W. Wells of Caledonia, Miss. They reside at 1424 Brook Hollow Circle, Country Club Gardens, Huntsville. They have two children, Michael Edward, 9 and Rebecca Ann, 5.

There are the drivers who can make an appointment with death—for anyone—by purposefully sacrificing their better judgment for a foolish whim.—The Philadelphia Inquirer

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At the Service Club

Happy days are here again because Thursday night, Jan. 22, George Doerner's Orchestra will be here for a dance. The music will begin at 8 o'clock and continue until 12 o'clock. The Huntsville and Birmingham Hostesses will be guests for the dance. Get your dancing shoes ready and keep your spirits gay!

One of America's finest "live" talent road shows, the National Show, will be at the Service Club on Jan. 27. The Dave Rice Trio will start the music playing at 8 o'clock, the floor show will be presented at 9 o'clock, and dancing will continue until 12 o'clock. Outstanding performers will appear in the floor show. Jack Pyle is the master of ceremonies, Lillian Holland singer and dancer, Al Montan the "Virtuoso of the Lariat," and the Dave Rice Trio plays music for listening or dancing. You'll find the trio a hard combination to beat. Get here early so you will not miss the first dance.

Something new for Friday night. Arrangements for a special HOLLAND night, with European ballroom dancing, has been completed. John Phillip DeBoo, a member of the NATO group will be the dancing instructor. DeBoo is a member of the Imperial Dancing Association of England. Junior Hostesses and any other young ladies on the post are invited to attend and to receive instructions. Transportation will be provided for the young ladies by calling Leon Van Leeuwen, JE 6-8910 or Capt. Van Dan at his residence, JE 6-4665.

Thursday night is the big night for the POOL enthusiasts. Anyone who is interested in playing in the pool tournament Thursday night contact William Gallucci or the Service Club office soon. The qualified team members are: John Leary, Bill Kaufman, John Maher, Ted Clark, Tom Barry, Bill Moore, David Kanter and James Zeonik. These team members are urged to attend the meeting this week and participate in the tournament. The tournament will be a ladder type elimination and a prize will be awarded to the winner.

BINGO is still the high light on Monday night. Molly starts the ball rolling every Monday night at 8:15. Ten games are enjoyed every week and the prizes are very useful. The GRAND PRIZE is fabulous. Join in the fun of the ten free games every week because you might be one of the luck winners.

NOW is the time to make reservations for the next dance classes which begin on Feb. 18. Only a limited number can be accommodated in each class so make reservations soon.

Tuesday is the night for the Chess and Bridge enthusiasts. All members of the groups are urged to participate in the weekly activities. New members are always welcome to the club activities.

Jan. 31 is the date of the Birmingham Tour and Dance. Hulusi

Ozkilg and Sabri Ozagac will accompany the group to Birmingham and show their Turkish films to the Birmingham Hostesses and Guests at the YMCA. Paul Groover will be projectionist for the group. Make reservations today for the tour.

The talented enlisted men are urged to participate in the 1959 All-Army Entertainment Contest. There are "Live" and "Recorded" classes of competition. Make arrangements soon with the Service Club to participate in the contest.

FRANCIS

Movie Schedule

Wednesday, 21 Jan. "I Mobster" starring Steve Cochran and Lita Milan. Time 1315, 1745 and 1945.

Thursday and Friday, 22 and 23 Jan. "Separate Tables" starring Rita Hayworth, Burt Lancaster, Deborah Kerr and David Niven. Time 1315, 1745 and 1945.

Saturday, 24 Jan. SPECIAL MATINEE, "Gun Duel in Durango" starring George Montgomery. Time 1000.

Saturday, 24, "Gideon of Scotland Yard" starring Jack Hawkins and Dianne Foster. Time 1745 and 1945.

Sunday and Monday, 25 and 26 Jan. "Rally 'Round the Flag, Boys" starring Paul Newman, Joanne Woodward, Joan Collins and Jack Carson. Time Sunday 1400, 1745 and 1945. Time Monday 1315, 1745 and 1945.

Tuesday, 27 Jan., "Two-Headed Spy" starring Jack Hawkins and Gia Scala. Time 1745 and 1945. NO MATINEE.



JAMES W. BEDDINGFIELD

James Beddingfield Is 'Safety Supervisor'

James W. Beddingfield, flame cutter foreman, TM&E Br., ABMA, has been selected by the RSA Safety Division as the "Safety Supervisor of the Week".

As flame cutter foreman, Beddingfield supervises the pre-cutting of various metals such as stainless steel, low and high carbon steel, and aluminum for use in the various laboratories.

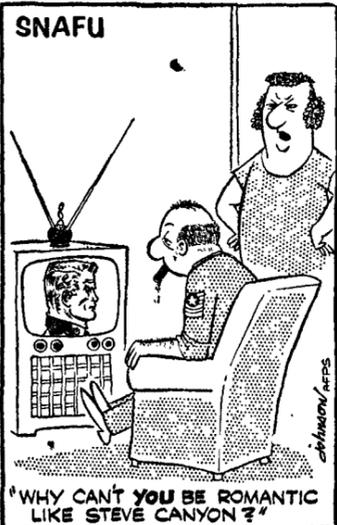
In addition to supervising the cutting of metals, this job involves the constant handling of these materials. He has been on this job for eight years, and for a period of slightly over a year, he has been the safety coordinator for the TM&E Branch.

Beddingfield lives in Fayetteville, Tenn., and has four children, James Earl 12, Joyce 10, Michael 7, and Carolyn 4. The three oldest children attend school at Bellview. Before coming to ABMA to work, he was in business for himself in the manufacturing of concrete blocks.

When off the job, one of his hobbies is using his newly acquired home movie equipment. He is especially enjoying making movies of his children.

Living on a budget is the same as living beyond your means except that you have a record of it.

Men are funny—pat them on the back and their heads swell.



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SATURDAY



Plus



STARTS SUNDAY

4 Big Days



PARKWAY

WEDNESDAY & THURSDAY



Plus



FRIDAY & SATURDAY



Plus



STARTS SUNDAY



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Huntsville Army Reserve Unit to Take Part in Ft. Gordon Exercise

The Hq. & Hqs. Det, 411th Ord. Group, Huntsville, has been selected as one of a group of regular Army and Reserve units to participate actively in the annual Command Post Exercise (CPX) conducted by the 3rd Army at Ft. Gordon, Ga., on Feb. 7-8.

The CPX, known as "Lucky Delta," is a tactical type exercise conducted to provide training for commanders and staffs in tactical, intelligence, logistical, and administrative operations under assumed conditions of extensive atomic, CBR, (chemical-biological-radiological) and electronic warfare. It is established especially to train Active Army, Reserve, and National Guard officers in newly adopted concepts, organization, doctrine, procedures, and techniques.

"Lucky Delta" is a continuation of CPX "Lucky Bravo" and "Lucky Charlie" previously conducted in March, 1957, and February, 1958, respectively.

The 411th Ordnance Group approaches "Lucky Delta" after having extensively prepared for the exercise. The group has devoted a large portion of its training time to carrying out Third Army Orders concerning the exercise. Twenty-two officers and enlisted personnel from the unit will take the trip to Fort Gordon.

The Hq. & Hqs. Det, 411th Ordnance Group, was organized in March, 1957, and has an authorized strength of 10 officers, four warrant officers, and 34 enlisted men. At present there are no officer vacancies, but some few vacancies do exist in the warrant officer and enlisted categories. Any individuals interested in



"Some men itch for success when they should be scratching for it." —Old Peruvian Proverb

A football game is one place where it pays to kick when things aren't going well.

It generally takes about five years for a tree to produce nuts—that is, all but the family tree.

joining this unit should personally contact Clifton Davis at the U. S. Army Reserve Center, 1214 Meridian St., or call JE 6-5631.

WHITESBURG DRIVE-IN

LAST TIMES TONIGHT



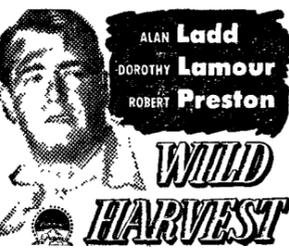
THURSDAY & FRIDAY



plus



SATURDAY



plus



SUNDAY & MONDAY

"WILD IS THE WIND"

Anthony Quinn
Anna Magnani

TUESDAY & WEDNESDAY



GRAND THEATRE

WED., THURS., FRIDAY

"MONSTER ON THE CAMPUS"

Arthur Franz - Joanna Moore and The Beast

Plus

"BLOOD OF THE VAMPIRE"

Donald Wolfitt
Barbara Shelley
in color

SATURDAY

"I MARRIED A MONSTER FROM OUTER SPACE"

Tom Tyrone
Gloria Talbot

Plus

"WHEN HELL BROKE LOOSE"

Charles Bronson
Violet Rensing

STARTS SUNDAY

The loudest laugh round-up in years!

DANIEL M. ANGEL presents
KENNETH MORE
JAYNE MANSFIELD



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7 DAYS STARTING TODAY

The Day A Boy Became a MAN!



STARTS WEDNESDAY
FRANK SINATRA • DEAN MARTIN
SHIRLEY MacLAINE



122 Key Personnel Begin Hawk New Equipment Training at ARGMA

Curtis B. Williams, Chief of Technical Training Branch, R&D Div., ARGMA, welcomed 122 key military and civilian personnel in an address on 7 Jan. when key personnel began courses in the fifth class of the Hawk New Equipment Training Course being conducted under the provisions of a Research & Development Division, ARGMA, contract.

Williams informed these students that the purpose of this training was to provide for the initial transfer of the essential knowledge and skills pertaining to the inspection, maintenance, modification, repair, operation, storage and supply of new equipment, e. g., Hawk guided missile, from the developer (Raytheon Mfg. Co.) to key military and civilian personnel to carry out their assigned missions in the HAWK missile program. It is an interim phase of instruction, conducted prior to the establishment of appropriate resident courses at the NSA Ordnance Guided Missile School, U S Army Air Defense School, Ft. Bliss, to provide replacement training and training of personnel for initial unit activations, as appropriate.

The following five special courses of instruction on the HAWK missile system are being conducted by using Raytheon instructors, under the monitorship of the Technical Training Branch, R&D Div, ARGMA:

- I Illuminator-CW Acquisition Radar.
 - II Pulse Acquisition Radar
 - III Battery Control Center
 - IV Missile Guidance & Launcher Electronics
 - V Mechanical Systems
- The above sub-courses are each of nine (9) weeks duration and are taught concurrently at Blg 5671.
- Class five of the Hawk New Equipment Training Course is comprised of 20 officers, 44 enlisted personnel and 58 civilians from the following installations:
- 1. USA Ord Guided Msl 23
 - 2. USA Air Defense School (CONARC) 18
 - 3. White Sands Missile Range 12
 - 4. US Marine Corps 9
 - 5. Canada 5
 - 6. Redstone Arsenal (FMO) 4
 - 7. ARGMA (FSD) 5
 - 8. Mt. Ranier Ord Depot 1
 - 9. Erie Ord Depot 5
 - 10. Letterkenny Ord Depot 10
 - 11. Benicia Arsenal 2
 - 12. Anniston Ord Depot 7
 - 13. Aberdeen Proving Ground 3
 - 14. Ft. Meade 3
 - 15. Raritan Arsenal 4
 - 16. Pueblo Ord Depot 10
 - 17. Rossford Ord Depot 1
- TOTAL 122
- This class will be completed on 10 March 1959 and students will return to their respective stations to carry out assigned missions. The HAWK Training Courses

started 1 April 1958 and the previous four classes graduated 75 officers, 132 enlisted personnel and 110 civilians for a total of 317. Certificates of training were issued these key personnel, as satisfactorily completing Hawk New Equipment Training Courses.

Maurice Jennings, Director of the Hawk Key Personnel School, and Raytheon Mfg. Co. Field Engineers have conducted an "Open House" at the New Equipment Training Center, ARGMA, at the completion of each of the four classes. The R&D engineering model equipment, which is used in conducting the HAWK courses was on display and an indoctrination on the Hawk battery was given to approximately 500 visitors during 1958.

In charge of monitorship of the Hawk Key Personnel Training Program and representing the Research and Development Division, R&E Staff, ARGMA, are Curtis B. Williams, Chief of the Technical Training Branch, and George W. Wilde, Hawk Project Training Officer and 1st Lt R. A. Rutledge, Operations Officer.

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 TV Room 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.

1830 — Christian Youth Fellowship — Jr. High Young People and Senior High

Tuesday — 1630 hours — Junior Choir Rehearsal.

Wednesday — 1845 hours — Chancel Choir rehearsal.

JEWISH — Temple B'Nai Shalom (corner of East Clinton and Lincoln)

Friday — 2000 hours — Regular service, O'Neg Shabbot (Sabbath Social) at Temple Annex following service.

Sunday — 0930 hours — Religious School at Temple Annex

CATHOLIC

Sunday — 0745 and 0845 hours — Mass.

1830 — Youth Religion Class. in Chaplains Office

Tuesday — 1930 hours — Novena in honor of Miraculous Medal.

Confessions — 1400-1600 hours and 1800-1900 hours.

DAILY MASS — 1130 Hours.

CHAPEL NO. 2 — Sunday — 1100 hours — Mass.



JAMES C. ROSSER

James C. Rosser Named 'Safe Worker of Week'

James C. Rosser, machinist, RSA Post Engineer Division, has been selected by the RSA Safety Division as the Safe Worker of the Week. This selection was based on Rosser's very fine and unusual safety record over a very long period of time, safety officials said.

Rosser came to Redstone Arsenal in 1945 from Camp Forrest, Tullahoma, Tenn., and has been employed since that time without a break in service. He is called a "jack-of-all-trades" in the shop and after 40 years of shop work has never had an injury serious enough to cause him to lose even one hour of work.

Rosser is also proud that in his 25 to 30 years of driving, he has never been responsible for even a bent fender and has never received a ticket of any kind. Also, he states that he is always trying to follow the traffic rules and he has never been involved in an accident, although he has left the road several times to avoid an accident.

Rosser and his wife live at 1210 Locust Avenue, SE, Huntsville. They still have one son at home, who works for Chrysler Corporation. Another son is in the Army, another in the Air Force. They have two married daughters; one lives in Houston, Texas, and the other lives in Hawaii with her husband, a master sergeant stationed there in the Air Force. Mr. and Mrs. Rosser have four grandchildren. Bird hunting and raising bird dogs and quail are his hobbies.

Rosser attributes his laudable safety record to keeping his mind on the job and especially his good traffic record to always being on the lookout for the other driver.

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CARTOON of the WEEK
SELECTED FROM
shipworker
NEW YORK NAVAL SHIPYARD
BROOKLYN, N.Y.

"NO SHOESHINE...NO SHOESHINE...NO SHOESHINE...NO SHOESHINE..."

COOKING SCHOOL

"AN' SARGE, HOW COME THEY HAVE 'TATERS SPELLED WITH A 'P'..?"

STRAC Call Nips Top-Kick Pitcher Off Uniform Base

FORT BRAGG, N. C.—Master Sergeant Charles Walker must have been a frustrated first sergeant recently. Privates were probably laughing at his appearance and there wasn't a single reason he could legitimately give for putting them on KP for disrespect toward a top-kick.

It happened during a recent alert of the Second Airborne Battle Group, 503rd Infantry, part of the 82nd Airborne Division. Walker is first sergeant of the group's headquarters company, also pitches on the company softball team. He was on the mound when the whistle blew and immediately jumped on his motorcycle to report to group headquarters. His uniform? Levis, T-shirt and red baseball cap.

Because the 82nd is part of the Strategic Army Corps, Walker is going to get used to this—as will the privates of Headquarters Company.

Organized last May, STRAC—Skilled, Tough, Ready Around the Clock—is the Army's answer to limited war anywhere in the world or for initial action in a general war.

Its four divisions, organized into the 18th Airborne Corps commanded by Major General Robert F. Sink, are operationally-ready on a moment's notice.

Neal sez: "If my roommate keeps talking in his sleep I'm going to send him home to mutter."

SNAFU

"GOT ANYTHING A LA TWO BUCKS?"

A man entered a Texas saloon brandishing a piece of paper. "It's a list of all the men I can whip," he told the hangers-on.

"Is my name on there?" demanded a burly ranch hand.

"Yup, it is," replied the man.

"Well, you can't whip me."

"Are you right sure?"

"I right sure am," the ranch hand answered as he rolled up his sleeve.

"Very well," said the man. "I'll take your name off the list."

A disillusioned professor urges that every student be compelled to basic course in English, "so he'll know another language besides his own."

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1957 BUICK, 2 door, fully equipped \$1995.00	1953 MERCURY 2 door, one owner, radio, heater, fully equipped \$695.00

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- J. H. (Preacher) Wade
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Of The

Redstone Federal Credit Union

WILL BE HELD AT

5:00 P. M. JANUARY 22, 1959

In the Rocket Auditorium — Building 7120
REDSTONE ARSENAL, ALA.

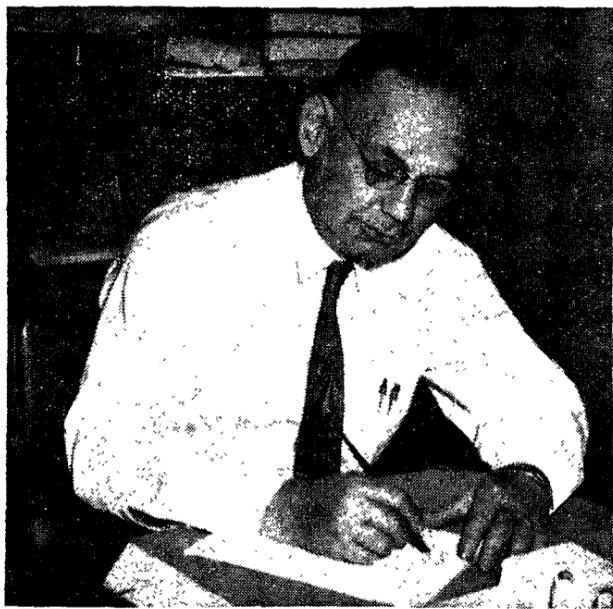
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RUSSELL ELLISON, veteran of service with the 250th Company, U.S. Army Engineers, during World War I, is Chief of the Tool Engineering Section in the Fabrication and Assembly Engineering Laboratory at the Army Ballistic Missile Agency.

Different Now for War I Vet

40 YEARS AGO, RUSSELL ELLISON'S PROBLEMS WERE THOSE OF SUPPLY

Forty years ago it was the problems of supply which commanded the attention of Russell Ellison as he served as Supply Sergeant for the 250th Company, Army Engineers, in France.

His problems to day are of quite a different nature, as he heads the Tool Engineering Section in the Fabrication and Assembly Engineering Laboratory at the Army Ballistic Missile Agency, developing tools for producing the Army's large ballistic missiles.

The Army Ordnance Missile Command gave special recognition to its World War I veterans in connection with Veterans Day last week.

Ellison entered World War I service in May 1918, and arrived in France two months later. He remained with the 250th Company for three months as it gave engineer support to the combat troops.

In his position as supply sergeant, he was responsible for securing all logistics and ordnance for the Company's 250 men, including such varied items as clothing, food, arms, trucks and cars.

"The supply system seemed pretty well organized," he recalled, "and we didn't have too much trouble getting what we needed. However, you had to learn fast where the supplies came from and how to get them, because there was a lot of competition."

The Company had eight pla-

toons of men that went out to perform the necessary engineering work, ranging from preparing trenches to building bridges

"At first," Ellison explained, "the men didn't carry rifles, since they did not enter combat. However, they soon learned that they needed arms to protect themselves from sniper raids, and rifles were issued so they could defend themselves."

In September 1918 Ellison left his assignment with the 250th Company and began a 90-day course at the Engineers Officers Training School, Langres, France.

He was in training to become an officer when the war ended. He returned to the United States in July 1919.

Following his discharge from the Army, Ellison began an engineering apprentice toolmaking course at Fort Motor Company, Highland Park, Mich. He backed up this training with a correspondence course in mechanical engineering and was assigned to tool designing before he left Ford in 1925.

In 1925 he went into the business of selling securities for a company in Detroit. Two year later he opened his own brokerage house in Detroit, which he operated until 1929.

With the coming of the depression he bought a wholesale tobacco and candy company at Dearborn, Mich., which he sold in 1933 when he returned to employment in tool engineering.

Ten years later he began working with General Electric Company at El Paso Tex. In six months he was promoted to chief tool engineer.

In 1950 General Electric began operating at Redstone Arsenal, bringing Ellison to Huntsville. When civil service employees took over that function in March 1951, Ellison continued in his position of chief tool engineer as a government employee.

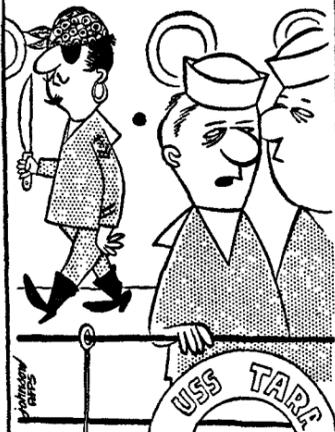
Today he has charge of designing all tools which make it possible to build the missiles under development by the Army Ballistic Missile Agency. He has 35

Rhymes of the Times

KEEP SECURITY.
REMEMBER THAT
SPIES
HAVE EARS
AS WELL AS
EYES.



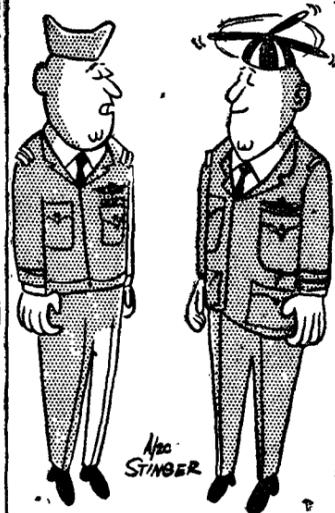
SNAFU



"EVER SINCE Cavanaugh finished reading 'TREASURE ISLAND' HE HASN'T BEEN THE SAME."

CARTOON OF THE WEEK

SELECTED FROM
Tiger & Talk
ENGLAND AFB
ALEXANDRIA, LOUISIANA



"I TAKE IT YOU'RE THE NEW HELICOPTER PILOT!"

Army MP's Must Prove Outstanding Skill Behind Wheel

FORT GORDON, Ga.—In the belief that Army military policemen should excel almost everyone in driving ability, and the knowledge that they will definitely have to in combat situations, the Provost Marshall General School here puts its future MPs through a stern pre-licensing course.

Before he ever gets behind the wheel of his training jeep, the student MP spends six hours learning how it works. He also takes vision and coordination tests and must prove his knowledge of traffic regulations and vehicle maintenance.

Only then does the trainee take to the road. In this instance the road is an unpaved two-mile course of sand and rough terrain, deep in mud after a rainfall, and cluttered with every type of road sign, each monitored for strict enforcement.

With this restricted course mastered, the student drives a cross-country trip over Fort Gordon's expanse of hills, sand and mud. Then comes a convoy or motor march by day and by night, when only a blackout or marker lights are used.

A special committee, rather than the driver training instruc-

men working in his section, most of them tool designers. Mr. and Mrs. Ellison reside at Route 4, Box 885, Huntsville. They have two sons, Russell H. Jr., a project engineer with Chrysler Corporation in Michigan and Wallace F., an experimental test engineer with Ford Motor Company, also in Michigan. Ellison is a member of the Masons and Elks at Huntsville, the Shrine at Birmingham, and the American Society of Tool Engineers.

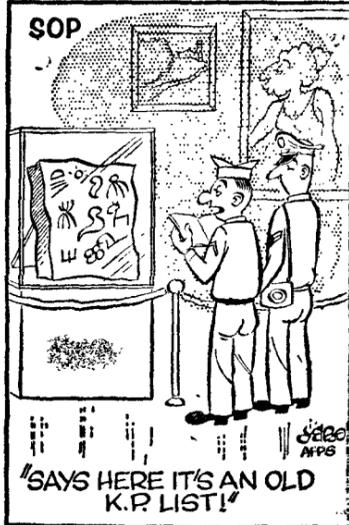


SUPPLY SERGEANT Russell Ellison (right) together with the other two top sergeants of his company, Sgt. Vanderveen (left), top sergeant, and Sgt. Dodge, mess sergeant, in a photo taken in 1919 at the beach at Biarritz, France, where they were on Class "A" leave while awaiting return to the U.S.

tor, presides during the final test, with the goal the issuance of the military driver's license.

WANTADS GET RESULTS

Then there was the fisherman who bought a glass-bottomed boat so he could see the ones that got away.



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In case of an accident ask for our new wrecker. Courteous operator, reasonable charges. Day Phone JE 4-4561, nights JE 4-0809.
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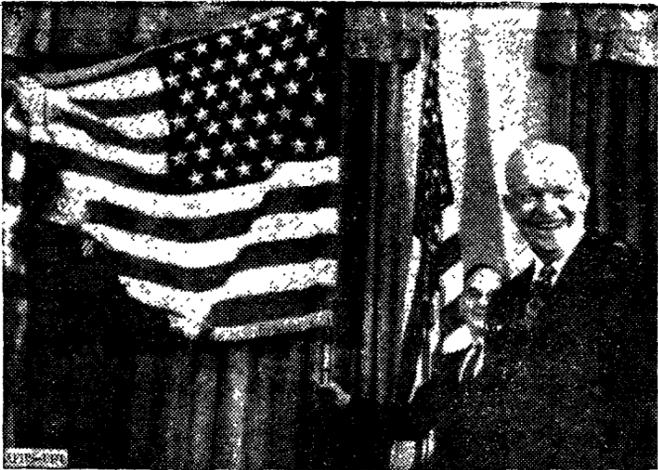
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UNVEILING — President Eisenhower is all smiles at White House ceremony after signing proclamation admitting Alaska as the 49th state and unveiling the new American flag. The flag, which becomes official July 4, contains a field of seven staggered rows of seven stars each. Holding the flag is Lt. Col. James Cook Jr., Army Heraldic Branch chief, and Waine Hendrickson, Acting Governor of Alaska.

Post Library

ANNA L. FARRAR, LIBRARIAN

With long Winter evenings ahead, remember that there's no companion like a good book. Come in and select books on your favorite subjects by your favorite authors. It's always book time—so visit your Post Library soon.

These are some of the new books available:

- Ermilo Abreu Gomez, "Leyendas Mexicanas."
- Samuel Adams, "The Pony Express" (Juvenile)
- Robert Baker, "An Introduction to Astronomy."
- Better Homes and Gardens, "Decorating Book."
- Vance Bourjaily, "The Violated."
- Mary Brandt, "Good House-keeping Book of Home Decoration."
- Pearl Buck, "Christmas Miniature."
- Pearl Buck, "Friend to Friend." "Career, 1959"
- Henry Castor, "America's First World War." (Juvenile)
- Marry Disston, "Riding Rhymes for Young Riders." (Juvenile)
- Alexandre Dumas, "The Count of Monte Cristo." (Juvenile adaptation)
- Paul Elmen, "The Restoration of Meaning to Contemporary Life."
- Fortune, "The Exploding Me-



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- tropolis."
- Peter Freuchen, "I Sailed with Rasmussen."
- John Galbraith, "The Affluent Society."
- Kenneth Gatland, "Space Travel."
- Aldous Huxley, "Brave New World Revisited."
- Storm Jameson, "One Ulysses Too Many."
- John Jennings, "The Golden Eagle."
- James Keller, "It's Your Day."
- Nelson Keyes, "Ben Franklin, An Affectionate Portrait."
- Emily Kimbrough, "And a Right Good Crew."
- Nancy Larrick, "A Parent's Guide to Children's Reading."
- Mary Lasswell, "I'll Take Texas."
- David Lavender, "Land of Giants."
- Norah Lofts, "Heaven in Your Hand."
- Stephen Longstreet, "The Burning Man."
- Terry Maloney, "Other Worlds in Space." (Juvenile)
- Julian May, "There's Adventure in Rockets." (Juvenile)
- Jason Mellon, "Super Duper Riddles." (Juvenile)
- Harry Meserve, "No Peace of Mind."
- James Metcalfe, "Poem Portraits of Inspiration."
- Haskell Miller, "Understanding and Preventing Juvenile Delinquency."
- Alfred Nawrath, "Eternal India."
- Howard Pease, "Shipwreck." (Juvenile)
- Christopher Rand, "The Puerto Ricans."
- Alastair Reid, "Fairwater." (Juvenile)
- Ayn Rand, "Atlas Shrugged."
- Emanuel Ringelblum, "Notes from the Warsaw Ghetto."
- Luise Rinser, "Rings of Glass."
- Dorothy Roberts, "Return of the Stranger."
- "Round the World With Famous Authors."
- Harrison Salisbury, "The Shook Up Generation."
- The Saturday Evening Post, "The Post Reader of Civil War Stories."
- Scientific American, "Atomic Power."
- Scientific American, "The Physics and Chemistry of Life."
- Scientific American, "Twentieth-Century Bestiary."
- Max Shulman, "Sleep Till

- Noon."
- Rex Stout, "Champagne For One."
- Jesse Stuart, "Plowshare in Heaven."
- Roger Vailland, "The Law."
- Anne White, "All About Great Rivers of the World."
- Anne White, "Prehistoric America."
- Shirley Barker, "Swear by Apollo."
- Evelyn Berckman, "No Known Grave."
- Max Brand, "Seventh Man."
- Don Carter, "Don Carter's 10 Secrets of Bowling."
- Justus Clark, "The King's Agent."
- Kate Coplan, "Effective Library Exhibits."
- Robert Duffus, "Williamstown Branch."
- William Ellis, "The Brooks Legend."
- Cecil Forester, "Admiral Hornblower in the West Indies."
- Raymond Fosdick, "Chronicle of a generation."
- Steve Frazee, "Rendezvous."
- Frank Freidel, "Splendid Little War."
- Oakley Hall, "Warlock"
- William Hardy, "A Little Sin"
- Ian Henderson, "Man Hunt in Kenya."
- Thor Heyerkahl, "Aku-aku."
- "Horizon, September 1958."
- Abbott Liebling, "Normandy Revisited."
- Alan Moorehead, "The Russian Revolution."
- "Never Underestimate the Power of a Woman."
- Boris Pasternak, "Doctor Zhivago."
- Helen Reilly, "Ding Dong Bell."
- Donald Robinson, "The Day I Was Proudest to be an American."
- Glen Sire, "Something Foolish, Something Gay."
- Ralph Sockman, "Mans's First Love."
- Robert Van Riper, "A Really

- Sincere Guy."
- Mikhail Vasil'ev, "Sputnik into Space."
- Robin White, "House of Many Rooms."
- Terence White, "The Once and Future King."
- American Society of Magazine Photographers, "ASMP Picture Annual, 1957."
- Simone de Beauvoir, "The Second Sex."
- Nikolai Borodin, "One Man in His Time."
- Arthur Constance, "The Inexplicable Sky."
- Douglas Browne, "The Rise of Scotland Yard."
- Ada Camehl, "The Blue-China Book."
- Harold Clunn, "The Face of London."
- Harold Clunn, "The Face of Paris."
- Alfred Duggan, "Devil's Blood."
- Kahlil Gibran, "The Procession."
- Marleine Harris, "Virginia Antiques."
- Raymond Jahn, "Concise Dictionary of Holidays."
- John Jordan, "Elephants and Ivory."
- Philip Joubert de la Ferte, "Rocket."
- Francis Jourdain, "T-Lautrec."
- Maurice La Fuye, "The Apostle of Liberty."
- Gerald Kennedy, "I Believe."
- Amedeo Maiuri, "Pompeii."
- William S. Maugham, "Great Novelists and Their Novels."
- Donald Moore, "Scramble Six Hurricanes."
- Filmer Northrop, "The Taming of the Nations."
- Andre Leroi-Gourhan, "Prehistoric Man."
- James Pickering, "1001 Questions Answered about Astronomy."
- Charles Robinson, "The Spring of Civilization, Periclean Athens."
- Vivian Rowe, "Chateaux of the Loire."

Safety Scoreboard

(As of 19 Jan.)

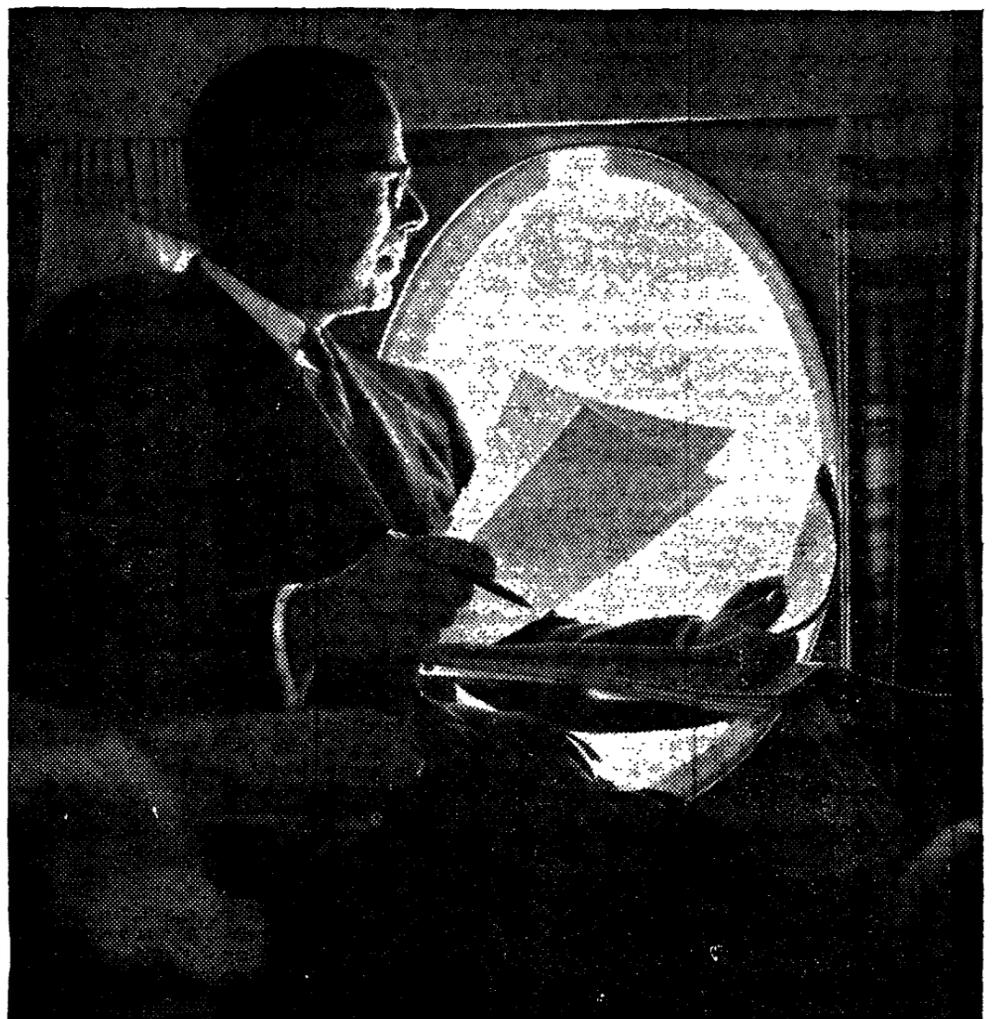
Days since last civilian disabling injury	54
Our Goal	60
Days since last military disabling injury	6
Our Goal	30
Days since last contractor personnel disabling injury	45
Our Goal	60
Days since last government motor vehicle accident	5
Our Goal	30

- Jack Scott, "All Outdoors."
- Wilhelm Stekel, "Compulsion and Doubt."
- Alpheus Verrill, "Strange Sea Shells and Their Stories."
- Arthur Joyce, "The Moscow Kremlin."
- Robert Wade, "Designing for TV."
- Ralph Whitlock, "Rare and Extinct Birds of Britain."
- "Who's Who in the Theatre."
- Angus Wilson, "Anglo-Saxon Attitudes."
- Francis Yeats-Brown, "Yoga Explained."

WANTADS GET RESULTS

Rhymes of the Times

RIDING OR WALKING
YOU'LL FIND IT'LL
PAY
TO THINK ABOUT
SAFETY
EVERY INCH OF
THE WAY.



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TWO FURNISHED BEDROOMS: 1002 Sherman St., Decatur, Ala., one double, one single, men only. Private bath, private entrance, electric wall heaters, in quiet home. Nice neighborhood, near town. 1tp

HOUSE FOR RENT — 6 rooms and bath, 12 miles north of Athens on old 31 Highway, 25 miles from arsenal. Robert Whitt, Phone 1164, Athens, Ala., or write Rt. 2, Athens. 1tp

FOR RENT — Brand new 3 bedroom brick veneer, unfurnished, located 5 miles west on Highway 72, first house on right of Memory Gardens Cemetery. Phone Ollie Sanderson, JE 2-3042. 1tp

LADIES — It's so easy to look your best with the right skin care. Your Luzier's representative is Mrs. Geneva Boyd, Ph. JE 4-4701. 1tc

JUST ARRIVED — HYDROFLITE water skis, one of the best known brands on the markets, all first line quality, several designs, one price, only \$20.00 adults, \$15.00 children now in stock. Warehouse Sales Co., 5013 Governor Drive, Ph. JE 6-2103. 1tc

FOR SALE — 1954 Ford with Cadillac motor and straight shift, also a 1942 Ford with balanced stroke and Olds motor. Call JE 4-7320 ask for Jimmie Ashbranner. 1tc

FOR RENT — 2 bedroom furnished house available immediately, electric heat, automatic washer, \$125.00 per month, located at 1008 Johnson St., S.E., Decatur, Ala. Phone EL 3-0418 after 5:30 p.m. or EL 3-1787 during duty hours. 1tc

FEDERAL and STATE income tax prepared, 1 day service, plenty of parking space. BUREAU OF SERVICES, 103 Elks Bldg., Eustis St. Hours 7 a.m. to 6 p.m. Monday through Saturdays. For night and Sunday appointments dial JE 6-9981. If no answer dial JE 6-9600. 4-15c

ROOM FOR RENT — Furnished bedroom to gentleman, private bath, 711 East Holmes Ave. 1tc

WE BUY — SELL OR TRADE— AUCTION HOUSE, W. Holmes St. Furniture sold off the floor each day of the week. Phone JE 6-2241. ttc

FOR SALE — 1950 Dodge limousine, 9 passenger, radio, heater, ideal for car pool, \$300.00 or best offer. Phone McCombs, at Redstone extension 3148 or JE 6-5403. 1tp

SCHOOL OF CHARM now open, courses in personality development, exercise, modeling, costuming and make-up. Classes begin Thursday, Jan. 15th. Night classes 7 to 9:30. 112½ Washington St., Phone JE 6-7841. ttc

CHARM BEAUTY SALON featuring personalized hair styling, body waves and tinting. Phone JE 6-0912 for appointments. Located corner Church and Canal Sts. ttc

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AUCTION SALE—Our next auction sale will be held tomorrow night, (Thursday, Jan. 22 at 6:30 p.m. 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

FOR SALE — Beautiful 112x145 ft. lot in Athens best section, \$2600.00 cash. Call J. B. Elliott, Redstone ext. 8428. ttc

HOUSE FOR SALE Four Rooms with 156 by 225 ft. lot. 2 wells. 5 miles from city limits of Decatur. \$3000.00. \$800.00 down, balance can be financed on easy terms. Contact ALFRED WYNN at Route 2, Hartselle, Ala. Or phone SP 3-9920 1-21-p

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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. ttc

LOT FOR SALE — Suitable for duplex, 100x150 ft. located on Jordan Lane and Highway 72. Phone JE 2-2652. ttc

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 ttc

FURNITURE REPAIR AND REFINISHING — Antique and modern. We now have full time custom repair and refinish service. CLINTON COLEMAN, well-known furniture repairman in Huntsville, is now with us. Call JE 6-2103 for estimates. Open 9 a.m. to 9 p.m. daily, free pick-up and delivery in city. WAREHOUSE SALES CO., 5013 Governor Drive. 2-18c

FOR SALE — 12 acres of good level land on Beaver Dam Rd., 5 acres in cultivation, rest in pine timber, \$2,500.00. Phone JE 6-9082 or JE 6-7386. 1-21c

FOR SALE — 42-ft., 1955 Model house trailer, 2 bedrooms, TV and air conditioning included. \$2,500.00. Phone MRS. SANDERS, at Redstone ext. 6266 or 6192. 1-21p.

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 Masseuse in charge. Phone JE 2-2444. ttc

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WANTED TO RENT—2 bedro- m house in southeast Huntsville with garage. Phone Redstone extension 5531. 1. t. c.

FOR RENT—New house in Gunterville in Sunrise Shores waterfront, 3 bedrooms, bath, utility room and carport, \$120.00 per month, unfurnished. Phone JU 2-4959. ttc

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. ttc

DO YOU NEED colored maid service? Let us help you with all your domestic help needs. Ph. JE 4-6437, Dixie Employment Service, 111½ Washington St., N. W. ttc

WAC RETURNS TO AAA DEFENSE JOB — BUT ON MISSILE MASTER, NOT GUNS

FORT MEADE, Md. — WAC Sergeant Mary V. Burch is back at her World War II job of manning the anti-aircraft defenses of the Washington-Baltimore area—with vast differences.

Now she is a tracking console operator here on the Missile Master, the first complete electronic system for the coordination and direction of a large number of Nike-Ajax guided missile firing batteries.

Then she was a height finder and chief of section for a duty shift of Wacs, first and only women in the U.S. ever to man an anti-aircraft battery. Their 90mm guns were located in a Department of Agriculture arboretum in Washington.

Now she tracks on a console in the "blue room," so called because the lighting, walls and consoles follow a color scheme restful to the eyes.

Then she wore field clothing for 24-hour shifts in a dugout that slept 17 women, always alert to jump to duty stations at the call of the alert siren.

The duty day is still 24 hours, broken into five "reliefs." On a scheduled relief, the men and women soldiers are either at their consoles or are manually plotting early warning targets still too distant for console tracking.

When off "relief," they remain in the "ready room," cat-napping, attending training classes, performing practice missions, and springing to augment the "blue room" staff when unidentified aircraft enter the defense area.

The wartime AAA duty was an experiment so hush-hush that the 200 women soldiers didn't know where they were going or why when they arrived by troop train in Washington early in 1943.

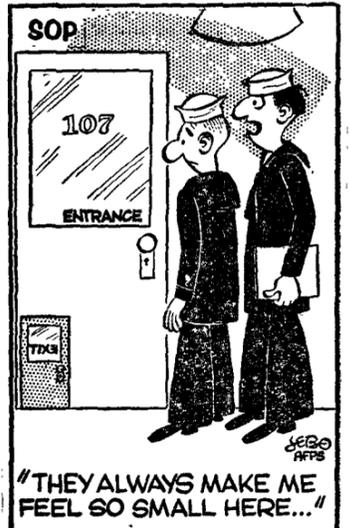
They served, when trained, as an experimental battery for determining the physical stamina of women should a manpower shortage require their assignment to coastal defenses.

With this background, no high-pressure salesmanship was needed to talk Sergeant Burch into attending the Army's first Missile Master School at Meade when she visited the Army Air Defense Command in Colorado Springs last year. With her recruiting duty assignment in Denver about to end, she was looking for AAA service again.

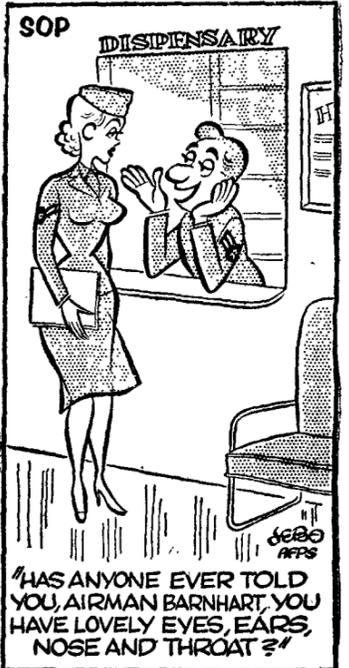
That put her and ten other Wacs in the first group of soldiers who started operating a Missile Master system last December 5. They will be the first to tie the system in to the firing of Nike-Hercules in June. When Hawk, the Army's guided missile

defense against low-flying planes, becomes operational, it too will be incorporated into the system.

Sergeant Burch, whose parents now live at (7350 Glenwood Extension) Youngstown, Ohio, received her high school education in Moundsville, W. Va., and Beaver, Pa. She was a pre-war telephone switchboard operator in Rochester, Pa., and in Akron, Ohio. A civilian again until 1951, she learned watchmaking at Bradley University, Peoria, Ill., and practiced that skill in Clifton, Ariz., and Farmington, N.M.



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"HAS ANYONE EVER TOLD YOU, AIRMAN BARNHART, YOU HAVE LOVELY EYES, EARS, NOSE AND THROAT?"

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 To Employed Men and Women
SIGNATURE AND FURNITURE LOANS
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220 Acres more or less of late S. J. Walls—Sold for division Thur., Jan. 29th, 2 P. M. on the premises 7 miles North of Gunterville, Ala. - On Highway 79 at Columbus City.

Ideal for Sub-division—Convenient to Gunterville lake and Sea Isle. Sold in 3 tracts of 60, 80 and 80 acres—Then as whole—Terms cash - Property will be delivered by abstract title on the grounds immediately following the sale.

For information see or call:
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 Gunterville, Alabama
G. J. WALLS, EXECUTOR
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13 ST. S.E. DECATUR—2 nice 3-bedroom homes, completely air conditioned with heat pumps, stainless steel GE dish washer, and sink, bath and half, very nice section. Move in for \$400 and pay \$800 at closing. No closing cost. If interested call JE 2-5311.

Ensor Real Estate And Insurance
 250 Governor Drive
 Phone JE 2-5311 or JE 6-0330



JACK PYLE
MC of Show

**Talent-laden Road Show
Due For Service Club**

One of America's finest "live" talent road shows, the National Show, will be at the Rocket Service Club on Jan. 27. The Dave Rice Trio will start the music playing at 8 o'clock, and the floor show will be presented at 9 o'clock.

In keeping with the best show business traditions, The National Show features some of the country's most outstanding performers, each with a speciality of his own.

No two acts are alike in the National Show. Variety and diversion are important to audiences thus the cast is comprised of artists who are especially qualified in their own branch of show business.

Jack Pyle is the Master of Ceremonies and will lead off the show. Jack dazzles the audience with his slight of hand tricks and buffoonery and then uses members of his audience in the act.

Lillian Holland is a lovely singer and dancer who has performed on Broadway.

Al Montan, the "Virtuoso of the Lariat," has been thrilling and astonishing his audiences from coast to coast, with his rope-tying tricks.

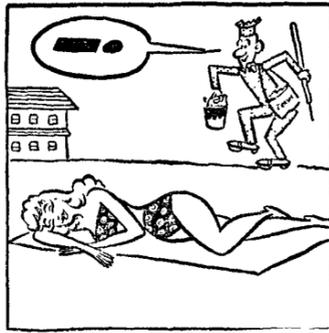
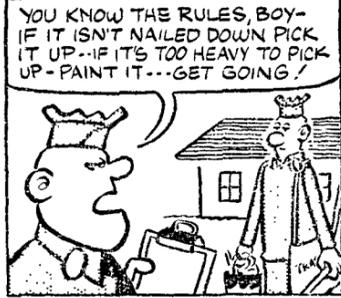
The Dave Rice Trio plays for listening or dancing.

All enlisted men and their guests are invited to the dance and National Show from 8 until 12 Jan. 27.

Ease up on the accelerator slightly when crossing asphalt pavement patches or strips in wet or hot weather, highway engineers advise. These thin surfaces can be slippery when wet or when they melt. A lighter touch on the accelerator will prevent possible wheel spin or skidding.

When entering an unmarked intersection, always look first to the left and then to the right before proceeding through, the National Safety Council suggests. The law requires you to yield to the car on your right, but a car on your left would cross your path

Operation Blonde



first and be the more immediate danger. Today's invention for next year's car: A transmission that will shift the blame.



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FROM CLOTHCRAFT**

WITH AN EXTRA PAIR OF TROUSERS

\$45.00

Extra Pants \$14.50

The dress of a business man tells the story of the man and will quite often give an impression that will last. Make the impression you give be a most pleasant one and an impression your friends and customers will long remember. You can do just that with one of our famed Clothcraft suits with two pairs of trousers. See them now in all the new patterns and shades. Longs, regulars, and portlys.

**HART SCHAFFNER & MARX
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Muted stripes, solids . . . select a shade to accent or contrast your sport wardrobe . . . you'll be glad you did.

\$47.50

NEW SHIPMENT FOR SPRING

**ARROW &
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Select a collar style, color or pattern . . . and we'll see that you get your correct size. You're sure to find just the dress shirts you'll want for now and spring in our gigantic collection.

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SPORT SHIRTS**

If you prefer the Ivy League style or the regular style . . . and regardless of pattern or color . . . we'll probably have just what you want. See them all now.

\$5.00

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