

Secretary Outlines Defense Budget Request

Procurement funds for Shillelagh and Redeye, and continued research and development funding for Lance and TOW are listed in the Department of Defense budget proposed to Congress the past week by Secretary of Defense Robert S. McNamara.

The budget request for procurement of Army Missiles for fiscal year 1966 showed a \$19 million increase over the past fiscal year procurement funds.

Secretary McNamara's request for procurement and R&D monies covered the broad field of land combat and air defense missile systems managed by the U.S. Ar-

my Missile Command.

Following are direct statements made by the Secretary, as excerpted from his budget message:

"Army procurement of missiles, including spares, will increase by \$19 million from \$235 million in FY 1965 to \$254 million in FY 1966.

"The FY '66 procurement of Pershing missiles would bring the Army's inventory to 100 percent of its total inventory objectives and provide for annual service practice and tests. During FY '66 we will again be sharing the Pershing missile production with the Federal Republic of Germany.

"We have not yet finally decided on the deployment of Lance, a light weight missile designed to replace Honest John and possibly Littlejohn. Further development effort will be required before the system is ready for procurement. Funds have been included in the research and development request to provide for this development effort in FY '66.

"The funds requested in FY '66 for Lance will substantially complete system development.

"About \$2.7 million is included for the procurement of the SS 11 anti-tank missile.

"A new heavy assault anti-tank

weapon, the TOW missile, is presently under development. Scheduled to replace the Entac missile and the 106 mm recoilless rifle, this wire-guided, crew portable weapon system will provide greater range, accuracy and killing power than its predecessors. Research and development funding for this missile will be required in FY '66.

"The FY '66 budget also provides \$61 million for the first major procurement of Shillelagh missiles for use on the General Sheridan armoured reconnaissance assault vehicle.

"An additional \$4.7 million will be required to complete develop-

ment and testing of this command guided anti-tank missile with the General Sheridan vehicle.

"In a related operational development project, we are requesting \$3.5 million for further work on a new stabilized sight for Shillelagh and certain modifications to extend its range.

"With respect to Redeye, we are proposing, if the appropriate committees approve our reprogramming request, to use available funds to initiate procurement in FY '65 in order to get this missile into the hands of troops as soon as possible.

(See SECRETARY on Page 3)

Arsenal-Wide

Spot News

Dial 112

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 24, 1965

PERSHING HAS BIRTHDAY

Eradication Of Disease Is The Goal

Research, information, service for better health for all Americans. This is the appeal that goes out to all Americans in the spring of the year by the National Health Agencies.

This year there are eight individual agencies banded together for this nation wide appeal that is a part of the Federal Service Joint Fund drive. Also included in the four-week campaign is the Federal Service Joint Crusade.

The voluntary Joint Fund drive on Redstone Arsenal will be conducted from Mar. 15 through Apr. 16.

Agencies included in the National Health drive are: the Muscular Dystrophy Association of America; the National Cystic Fibrosis Research Foundation; the National Foundation — March of Dimes; the National Multiple Sclerosis Society; the United Cerebral Palsy Association; the American Cancer Society; the American Heart Association; and the Arthritis Foundation.

Each is engaged in a continuing program to eliminate some dreaded disease from the American way of life. Some have made great strides in recent years and may soon join several other agencies which were able to attain their objectives through voluntary contributions.

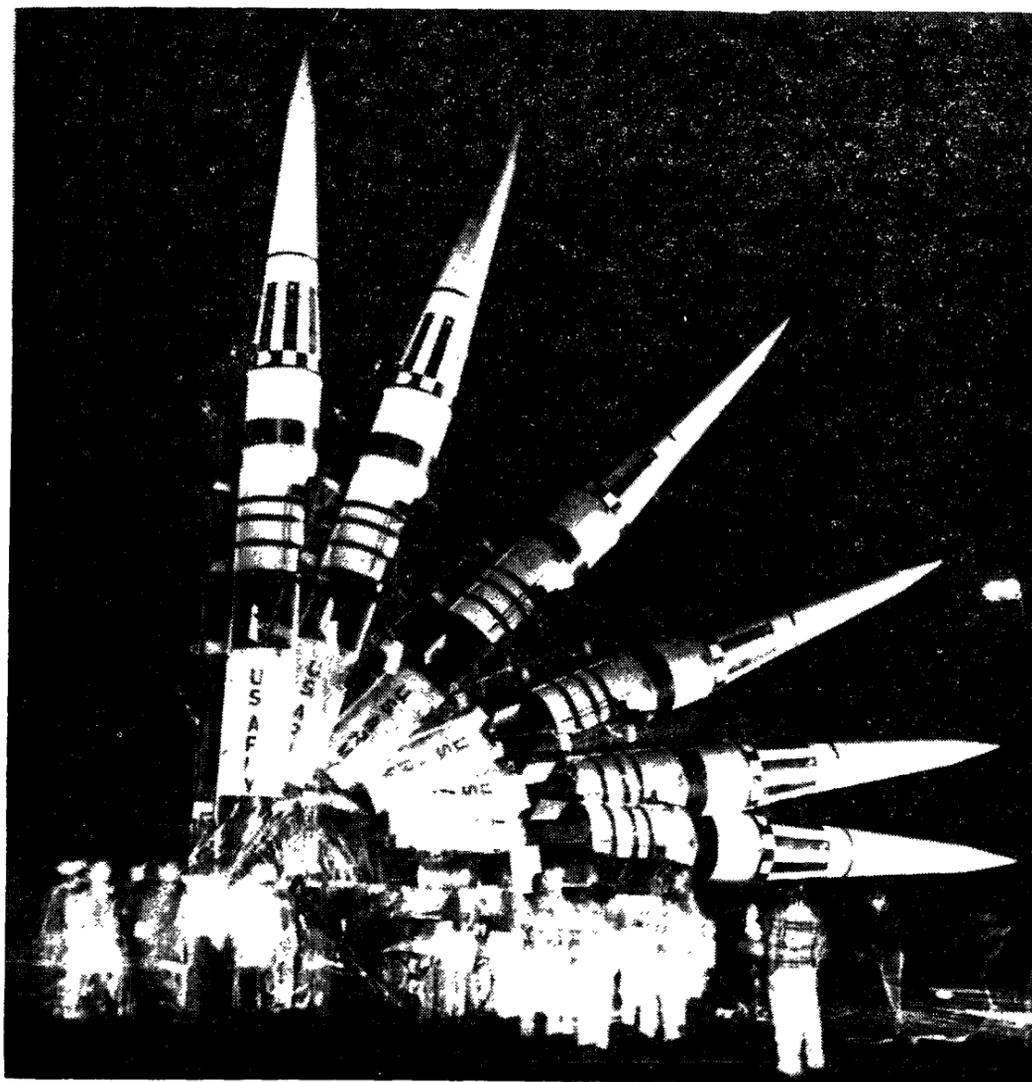
But whether the agencies are near a final breakthrough or not, their ability to continue their work is entirely dependent upon the generous contributions of the American people during this annual appeal.

Here is a brief description of the aims and objectives of the agencies to which contributions are made during the Joint Fund drive.

Muscular Dystrophy Association of America leads the fight against dystrophy, a disease that is as yet incurable. Afflicted children rarely reach maturity.

Through worldwide research, a nationwide network of clinics and direct services to patients, MDAA brings hope and comfort to millions who are afflicted by dystrophy and related neuromuscular diseases.

(See ERADICATION on Page 3)



ON YOUR MARK—Multi-exposures show the progress of a Pershing missile being readied for firing on its mobile launcher.

One sunny Florida day five years ago a plume of smoke rose from a launch pad at Cape Canaveral and the newest member of the Army's growing family of missiles rode it 30 miles out in the Atlantic.

It was Wednesday, February 25, 1960, and the Pershing was being fired for the first time. The sleek 32-foot surface-to-surface missile was introduced to the people of the United States that day as one destined to replace the bulkier Redstone missile.

The hopes of a lot of people at the Army Ballistic Missile Agency rode with the bird and as the countdown neared zero a vacuum was sucked in more than one stomach. Among those at the Cape for that first launching were Brig. Gen. J. A. Barclay, ABMA Commander, and Dr. Arthur Rudolph, Project Director for Pershing within ABMA. Dr. Kurt Debus, director of ABMA's Missile Firing Laboratory, directed the launch operations.

Only the first stage of the two-stage missile was fired that day. The firing was a success. Many more research and development firings followed at the Cape before Pershing was put on the line with United States and allied troops for defense of freedom.

The past five years have been good for the highly mobile Pershing. It has been developed into a mature and seasoned missile system, with Martin Company, Orlando Division, the prime contractor.

Col. E. I. Donley is Project Manager of the Pershing project at the Army Missile Command.

Pershing has been subjected to (See TOMORROW on Page 3)

Nike-X Proposed Budget Is Whoppingest To Date

The proposed Nike-X Project budget this coming year—a whopping \$400 million—would top last year's budget by some \$55 million and make it for the second straight year the nation's highest funded missile project.

Secretary of Defense Robert McNamara last week told Congress the Redstone-based project would need that much to continue development of missile defense system on its present urgent basis.

Nike-X is being developed by

the Army to provide a defense against intercontinental and submarine launched ballistic missiles. Col. I. O. Drewry is the Project Manager.

The system purse this year was \$345 million—contrasted to the \$3 million budget passed to get its predecessor, the Nike Zeus anti-missile missile system, started in 1957.

Secretary McNamara in a statement prepared for the House Armed Services Committee said he was

not asking for production of the system this year but was including \$10 million for "preliminary production engineering."

The text of the Secretary's message as it concerned Nike-X was as follows:

"The major issue in the missile defense program concerns the production and deployment of the Nike-X system.

"In my appearance before this Committee last year I described the (See NIKE-X on Page 3)

Two Generals Get Permanent Ranks

Permanent appointments in rank have been announced by the Department of Defense for the Army Missile Commanding General and the Deputy Commanding General for Air Defense Systems.

Maj. Gen. John G. Zierdt and Brig. Gen. Howard P. Persons, Jr., were notified of the permanent appointments Wednesday afternoon.

Gen. Zierdt was promoted to his present grade on Jan. 1, 1964, three months after assignment as Commanding General of the Missile Command.

Gen. Persons' promotion was made August 28, 1961, just before he was assigned to his present position at Redstone Arsenal, Ala.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 376-1400 or 876-1500.

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

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

Rocket Ruminations

There can be no defense like elaborate courtesy.
—Edward V. Lucas

Plus Five Years And Counting

It probably came as a shock to most of us—that story elsewhere in today's issue on the fifth anniversary of the first launch of a Pershing missile. The initial reaction for most of us who were around here when it happened was that it couldn't have been that long ago.

But it was, five years ago tomorrow, and the news release began:

"The Army today successfully fired its Pershing ballistic missile . . ."

We had hopes then but no real reason to know that the words "success" and "Pershing" would become synonymous. But they have. The credit belongs to a lot of people who were probably just as surprised as we were when we found out that five years had gone by since Pershing traced its first contrail in the sky above Cape Canaveral. Many of them are still active in the Pershing project, many more are at work here on other Army missile programs and some are now intimately involved in the space program.

All of them, and the contractor team headed by Martin Orlando as well, share a common pride in Pershing, and with good reason.

It proved the first time out that it was a good missile, it's been adding to that record ever since, and the book is far from closed.

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WELL TRAVELED—Forty-seven years ago when Army Missile Command employee Raymond B. Bates was in France with the AEF, his uncle in Massachusetts wrote him a letter. Bates got it the other day. Somebody named Fielding wrote on the envelope "Died of Wounds Oct. 28, '19." Finding that wasn't so after a check with grave registration, the letter went to Syracuse, N. Y. where Bates had been a student at Syracuse University when the war started. Finally it came back to the sender's address, but he had long since passed away. Somebody in the Post Office there recalled Bates had a sister in Bennington, Vt., and sent it to her. She sent it to Bates.

Bradley Tells Graduates We Are In Greatest Era

Missile technicians were told Friday that they stand "on the threshold of the greatest era of progress man has ever known."

This statement was made by Norman Bradley, associate editor of the Chattanooga Times who addressed about 100 U.S., Belgian, German and Greek graduates at the Army Ordnance Guided Missile School.

Bradley said breakthroughs in scientific knowledge and technical skills tax the imagination but cautioned that "despite all its promise, the future holds history's gravest threats to peace and even to survival."

He warned the identical forces that place untold power under human control can also "literally rip the world asunder if man's intelligence and courage and faith are not equal to the task."

The editor expressed the hope that thoughts of all-out nuclear attacks, combined with the possibilities of new bacteriological weapons, would relegate "major war to the realm of fantasy and usher in a long era of peace."

But Bradley contended that it devolves upon the "intellectual to lead us across the divide of the Sixties and onto a new stage. Upon him will fall, in large measure, the responsibility for exploring, mapping and mastering the new terrain of the Seventies; for accom-

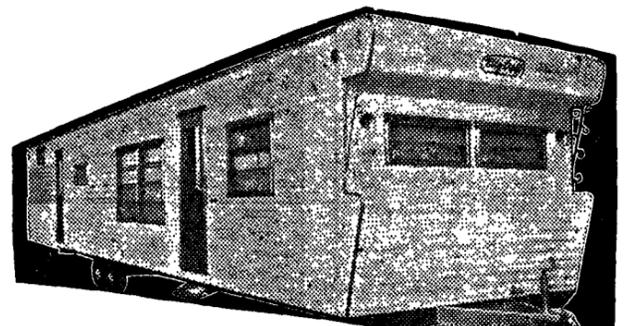
modating our techniques to its geography and our thinking to its climate."

At the graduation exercise in

the Redstone Arsenal Theater, two Association of the U. S. Army plaques were awarded to Pvt. Robert V. Komar of Stuben, Maine and Pvt. Jerald H. Mathews of Clymer, N. Y.

This is the highest academic award presented by the Army at the Missile School. Both Mathews and Komar made scores of 97 per cent in their guided missile courses.

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After that date, vehicles displaying the old type decal will be stopped at perimeter gates.

The new decals display the shield of the U.S. Army Materiel Command. The U.S. Army Missile Command is a sub-command of the Materiel Command.

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SMALL SUFFERER—Victims of cystic fibrosis, an inherited chemical disorder, often must use special breathing equipment a few times a day. The National Cystic Fibrosis Research Foundation is searching for a control for the disease. NCFRF is participating in the current campaign of the National Health Agencies.

ERADICATION

(Continued From Page 1)

The National Cystic Fibrosis Research Foundation, advances care and research on CF, a life threatening disease through a network of regional care, research and teaching centers and diagnostic and treatment centers.

Each year about 4,000 babies are born with CF, an inherited disorder of body chemistry, causing abnormal secretions of sweat, saliva and mucus.

The National Foundation — March of Dimes which supported scientific research leading to the Salk and Sabin polio vaccines and several Nobel prizes.

The foundation is currently fighting birth defects through an international research program, a nationwide network of clinical study and treatment centers, as well as a patient aid program available to every U. S. county.

The National Multiple Sclerosis Society supports national and international research seeking the cause, cure and prevention of MS.

Society chapters conduct local programs of patient service. MS is a disabling disease of the central nervous system, the brain and spinal column. It and related diseases afflict an estimated 500,000, mostly between the ages of 20 and 40.

The United Cerebral Palsy Association provides educational, vocational and rehabilitation services for more than 600,000 children and adults.

It finances a research program aimed at discovering means of prevention. Cerebral Palsy, which is caused by brain damage, can impair the ability to walk, talk, see or hear.

The American Cancer Society fights cancer on three fronts: research, education and service.

The educational effort is aimed at making the individual citizen aware of cancer's seven danger signals and the value of each person getting a yearly checkup. These individual actions can save the lives of 90,000 Americans who each year die of the disease needlessly, because their cancer was discovered too late.

The American Heart Association (Heart Fund) spearheads a nationwide program to combat heart and circulatory diseases which account for 55 per cent of all U. S. deaths.

The Heart Fund fights heart attack, stroke, high blood pressure, rheumatic fever, inborn heart defects and other disorders afflicting more than ten million Americans.

The Arthritis Foundation is devoted to providing help and hope to the 12 million victims of this crippling disease.

Professional education for phy-

SECRETARY

(Continued From Page 1)

"When Congress acted on our request last year, it deleted the entire FY '65 Redeye program . . . pending further R&D efforts and proper utilization of procurement funds remaining from prior years. Research and Development on the missile is now complete. All prior year funds have been used and a successful series of test firings performed. We now believe we are fully ready to produce the missile for both the Army and the Marine Corps. For the the Army we propose to reprogram \$21.8 million this year to start the production program and we request \$58.3 million to continue procurement in FY '66.

"Funds have been included in the FY '66 budget for the development of new components which would increase the capability of the Hawk. These improvements in the Hawk system are also needed to provide a better air defense capability for the forces in the field.

"No additional Hawk or Hercules missiles will be procured in FY '66. However we are proposing to reprogram \$34 million in order to procure Hawk equipment during the current year. Of this account \$14 million is required to build up stocks of equipment spares to more adequate levels. We are also requesting about \$8 million in FY '66 for current high value repair parts and for continuing modification of Hawk missiles presently in inventory.

"About \$16.7 million is requested for missile spares. Also included in the total for Army missiles is \$6 million for target missiles to be used in the training of surface-to-air and anti-aircraft battalions and in test of air defense weapon systems.

"The \$10 million requested for the forward area air defense will be devoted to the further analysis of the forward area air defense problem . . . As I have already indicated an interim program comprising Chaparral (a vehicle mounted Sidewinder), the Hawk and a 20 mm gun now under way are planned. The 10 million requested for this project for FY '66 will be devoted to the exploration of the longer term solution of this problem.

"Last year we included \$5 million in our FY '65 budget request to initiate advanced development on a new surface to air missile system for the 1970's which would provide good capabilities against high speed aircraft and short range missiles. This system is intended to have applications to the problem of air defense in the field but could also be used for Conus defense. We have increased the FY '65 program through reprogramming and we are requesting additional funds in FY '66 budget to continue advanced development . . ."

TOMORROW

(Continued From Page 1)

grueling environmental tests in the jungles of the Canal Zone, snow-covered mountains of Alaska, and hot, dry deserts of the Southwest. It stood up under them all, and still carries the banner as the Army's "shoot and scoot" missile, with a range of 400 miles.

sicians is stressed, along with public information to help patients and prevent the growth of quackery. At the same time, coordinated research seeks a cure.

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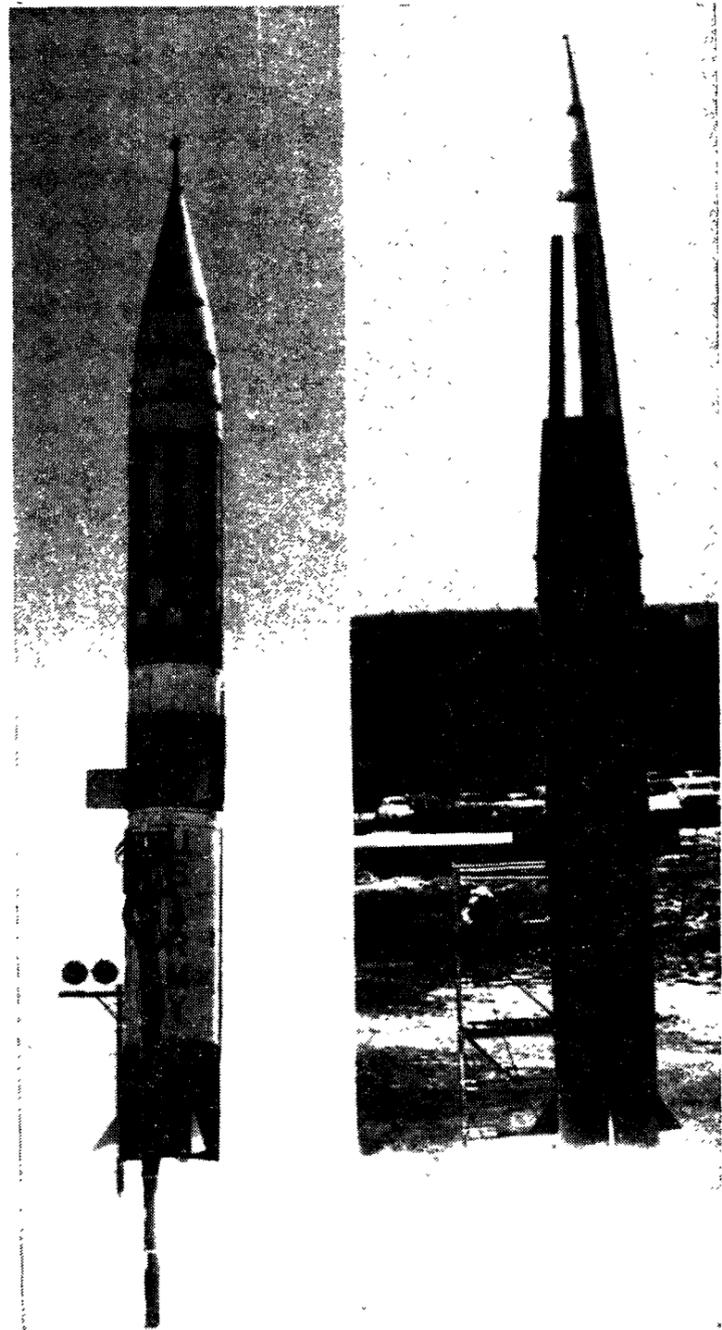
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PERSHING'S PROFILE CHANGES—Five years have passed since the first Pershing was fired, and the missile doesn't look the same today as it did in 1960. At left is the early test version, which was fired for the first time at Cape Canaveral on February 25, 1960. At right is the latest face of the surface-to-surface missile. Pershing has been deployed overseas with United States and Allied troops.

NIKE-X

(Continued from Page 1)

Nike-X System and its problems in considerable detail. Since that time we have greatly expanded our knowledge of missile defense with regard to both the relative cost and effectiveness of alternative deployments and the technical aspects of the system.

"Although the Nike-X Development is progressing satisfactorily there are many technical problems still to be solved and I believe that it is still premature to make any commitments to produce and deploy it at this time.

"Over and above the technical problems there are even greater uncertainties concerning the preferred concepts of deployment, the relations of the Nike-X System to other elements of a balanced damaging limiting effort, the tim-

ing of the attainment of an effective nation-wide fall-out shelter system and the nature and effect of an opponent's possible reaction to our Nike-X developments.

"Accordingly we propose to continued development of the Nike-X system on an urgent basis and a total of about \$400 million has been provided in the Fiscal Year 66 budget for that purpose, including \$10 million for some preliminary production engineering.

"We plan to re-examine the question of production and deployment of the Nike-X System again next year. Considering the vast amount of development test and evaluation work still to be accomplished, deferral of this decision to the FY 67 budget should not delay an initial operational capability by many months beyond what we can expect to achieve if we were to start production in FY 66."

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Smith Tells Personnel Managers About Aims

FORECAST OF PROGRAMS FOR FEDERAL EMPLOYEES was the topic presented by Hammond B. Smith, Regional Director, Atlanta, Region, U. S. Civil Service Commission, before the Huntsville Chapter, Society for Personnel Administration, last night at the Redstone Officers' Open Mess.

Brig. Gen. Charles W. Eifler, Deputy Commanding General, Land Combat Systems, Army Missile Command, introduced Smith to the 150 members and guests.

Mr. Smith reminded the audience that with the new Administration just sworn in, this was an opportune time to look at our present programs and to look to the future. He stated that President Johnson has two top priorities in areas of special concern—input of young able people, and quality at the highest levels of Government. The scope of the Presidential programs is varied and far reaching. He said that from his review of the President's State of the Union Message and his Budget Message, these facts are plain:

"Education is the keystone to the President's programs. This is reflected in the Economic Opportunity Act which extends educational activities to other than traditional education areas.

"Health is the next point of emphasis. This is in three principal areas—heart—cancer—stroke.

"Economic development is the third area of Administration concern. This is a modern day application of the TVA approach—attack chronic deficiencies on a regional basis. However, the important difference is the emphasis on human resources rather than on conservation of natural resources as in TVA.

URBAN PROBLEMS

"Under this heading would be included the URBAN PROBLEMS of blight and transportation and improving the quality of life for the lower 20% of our society. Financing of these new programs will come from scaled down defense and agriculture expenditures and tight management throughout government. Emphasis is on productivity. Overall the Federal workforce is expected to increase about 1 per cent in Fiscal Year '66, mostly in the post office to cut down overtime. Increases in staff will be very difficult to obtain—The President's Budget Message to Congress emphasizes management improvement and cost reduction and is a representative statement of the attitude throughout his Administration.

"The War on Waste, which is an expression of personal Presidential interest, puts greater demands on the Civil Service Commission.

STUDIES UNDERWAY

"Among those "systems" being studied are: EXTENSION of merit system principles to areas not presently covered. Attorney positions are a case in point, and there is a high degree of interest in a career system among attorneys. Interchange between the civil service and the foreign service. One facet of this is to develop a single foreign affairs personnel system embracing State—AID—USIA. The possibilities of personnel improvement through this is being studied.

"There is a continued need to devise ways to improve our techniques in recruiting. The objectives remain the same, quality intake at all levels.

"Great advances have been made in the pay area in the past few years. This now appears to be the time to stand back and look at the whole pay system. Perhaps an effort must be made to relate the

civilian and military systems in light of recent studies. The comparability findings must have an unquestioned valid approach and the measuring devices must be accurate. The comparability cost is so high, an average pay increase of 3% will cost about ½ billion dollars, therefore, there must be no weakness in the system.

AREAS OF EMPHASIS

"Review of all retirement systems—including the military, has been directed by the President to determine what, if any, changes are due. CSC is 37 billion in debt according to actuaries. Department of Defense is pay as go. There is some concern about the high cost of the civilian leave system, and the growing number of employees earning 26 days of annual leave per year. Complaints that leave taking "bunches-up" in December. A hard look at the whole package of retirement; health and life insurance, to see where they stand compared to other sectors in our society. We must study retirement vs other systems — public and private.

"Great progress has been made in executive development in the past few years as evidenced by Staff College at Kings Point. This emphasis will if anything increase, but calls for a continuing assessment of the program.

New programs with decreasing funds make tight management a matter of vital concern to all. Tight management is also reflected in continued controls on grade escalation and position management.

"Leadership by the CSC in the areas stressed this past year is expected to continue. There is a maturing approach throughout government to the labor management program. By and large the experience of the past three years shows the program is a sound one. Agency and Employee Organization Officials alike should be sensitive to future trends and their implications.

"Minorities present—A new and challenging period as evidenced by the Civil Rights Act. The President does not want any relaxation in the Equal Employment Opportunity program, including handicapped persons so there is continued emphasis on employment of the mentally retarded and mentally restored. Progress in the mentally restored area has been slower and is the more difficult of the two programs to promote. Evidence of the President's interest in the women's program is the fact that he frequently asks the results of

(See SMITH TELLS on Page 5)

Page 4 The Redstone Rocket — February 24, 1965

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CIVIL SERVICE DIRECTOR—Hammond B. Smith, Director of the Atlanta Region, U.S. Civil Service Commission, talks with Maj. Gen. John G. Zierdt, Commanding General, Army Missile Command, during a visit to Redstone Arsenal this week. While here, he was featured speaker at a meeting of the Huntsville Chapter, Society for Personnel Administration. Smith was appointed director of the Atlanta Region in 1954 and has approximately 240,000 Federal employees in his area.

SMITH TELLS PERSONNEL

(Continued From Page 4)

agencies efforts. Stimulus in this area must be kept alive.

SPECIAL INTEREST AREAS

"In the recruiting program the agencies in the field bear a major responsibility in attracting able students. More and more the emphasis is on quality and not on quantity. Federal relationships with college people have been cordial and productive and should help us achieve our goal of high quality intake. On-the-spot people have a responsibility to cultivate these high level relationships.

"In the inspections process, CSC will be including check points on how well are agency officials meeting national program directives. To an increasing extent CSC reports are of real value to top agency management in appraising their organization.

"Overall, agencies are now doing

a better job of handling adverse actions, but there is growing evidence of a need for better understanding and better handling of agency held hearings. Too much unnecessary and extraneous material is recorded.

IMPROVING THE BREED

"Training of agency personnel should be related to the new national substantive programs. To fully appreciate the dimensions of the Administration's proposals, managers need a much better understanding of the impact of economic, social, and educational forces on the accomplishment of mission.

"Supervisors are the people who will make or break any program. Supervisory improvement should be a matter of concern to all agencies.

"So far we have not moved ahead as much as we should have. It is important to us as an institution that we take the "high road" and that we provide the leadership for agencies in their efforts to take the high road. As the central personnel agency the Civil Service Commission has accepted the challenge for responsibility in improving the breed of personnel managers.

"These are indeed critical times. "I heard recently Billy Graham describe what he called the four crises of American History. He said that the first crisis was the Day of the Revolution; the second was the intellectual and parliamentary crisis that led to the formulation of our Constitution; the third crisis was the storm of dissent and distress that was represented in

Tool Engineers Schedule Installation, Ladies Night

Huntsville Chapter No. 171 of the American Society of Tool and Manufacturing Engineers will hold its installation of officers at dinner Tuesday, Mar. 2, at the Huntsville Country Club.

Grant Smedley, Chairman of Region V, will formally install the officers for the coming season. The newly elected officers are: chairman, A. J. Noellest, first vice-chairman, J. Jose'; second vice chairman, E. L. Thompson, Jr.; treasurer, M. Moiseev; secretary, J. D. Nichols.

Harry Little and his wife, Phyllis, will present a talk on their adventures in the Congo. This will be illustrated with slides which the couple photographed during their eight years stay in that region. There will also be a table of Congolese curios and artifacts which the Littles have collected.

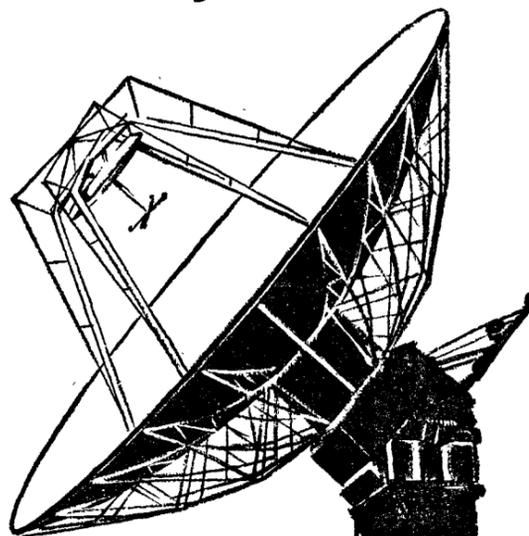
Social hour at 6:00 p.m. will be followed by dinner at 6:30 p.m. Reservations may be made by calling J. D. Nichols, 876-1894 or, in Decatur, E. L. Thompson, Jr. at 353-1310 Extension 343.

This will be Ladies' Night. Wives of members and guests are invited to attend.

the Civil War a century ago; and then he identified the present times as a fourth great crisis of American History. To meet this crisis we need to call upon all of our resources—material, intellectual, social, economic, and spiritual."

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HFC has 1400 offices ready to serve you—worldwide—whenever you need cash. Even if you're shipped overseas, you can use HFC's fast one-step air mail loan service. So never borrow money needlessly, but when you must—do as 150,000 servicemen do each year: Borrow confidently and repay conveniently at Household Finance.

Ask about credit life and disability insurance on loans at group rates

LOANS UP TO \$300 —with up to 24 mos. to repay
LOANS UP TO \$2000 —with up to 30 mos. to repay

Cash You Get	MONTHLY PAYMENT PLANS			
	6 payments	12 payments	18 payments	24 payments
\$ 50	\$ 9.23	\$ 5.02		
75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

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

Cash You Get	MONTHLY PAYMENT PLANS		
	12 payments	24 payments	30 payments
\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.



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1—3-BEDROOM BRICK on large lot approximately 1 mile off new Huntsville highway five miles south of Fayetteville in McDow Acres.

2—3-BEDROOM BRICK HOMES now under construction in the new "Greenwood Estates," also LOTS FOR SALE. This property is located on Huntsville Highway No. 231 eighteen miles from Huntsville city limits.

All These Can Be Purchased With A Small Down Payment And The Rest Financed.

Enlisted Ranks Will Be Recognizable To All

Many high-grade noncommissioned officers at the Redstone Arsenal will be affected by an Army ruling that will revise their grades and titles. The revision will create one rank, designate separate titles for the top supergrade of E-9 and change the insignia worn by approximately one third of Army personnel in three ranks. The announcement was made by the U.S. Army Command Information Unit in Washington on Feb. 17.

Effective Sept. 1, E-9's will be designated either sergeant major or chief master sergeant. Presently all personnel in pay grade E-9 hold the title sergeant major. The revision will retain the title for those sergeants in traditional sergeant major positions and will change the chevrons to include a wreath around the star in the center of the insignia.

For sergeants major now in top operations sergeant positions, the insignia will remain unchanged but the title will become chief master sergeant.

The Army has created the rank of lance corporal to permit recognition of the change in a soldier's status when he passes from recruit to the second pay grade. After Sept. 1 the E-2 private first class who at the end of four months, advances from recruit status will receive the single chevron now worn by privates first class. Present PFC's hold the pay grade of E-3 and there is no insignia for the second pay grade.

The rank of lance corporal will be assigned to present PFC's and the insignia will be the single chevron with the "rocker" beneath the stripe.

Insignia will not be changed for personnel in E-4 and E-8 positions. The E-4 pay grade is for corporals (two stripes) or specialists fourth class. Master sergeants and first sergeants hold the pay grade E-8.

Changes in insignia will affect some personnel in grades E-5 through E-7 whose rank does not correspond with their normal pay grade. This resulted from the reorganization of the Army in 1958 when many NCO's were allowed to keep their rank when the pay grade structure was revised. As a result many sergeants first class, normally E-7, maintained an E-6 grade; staff sergeants, now E-6, held E-5 grades; and some master sergeants hold only E-7 grades.

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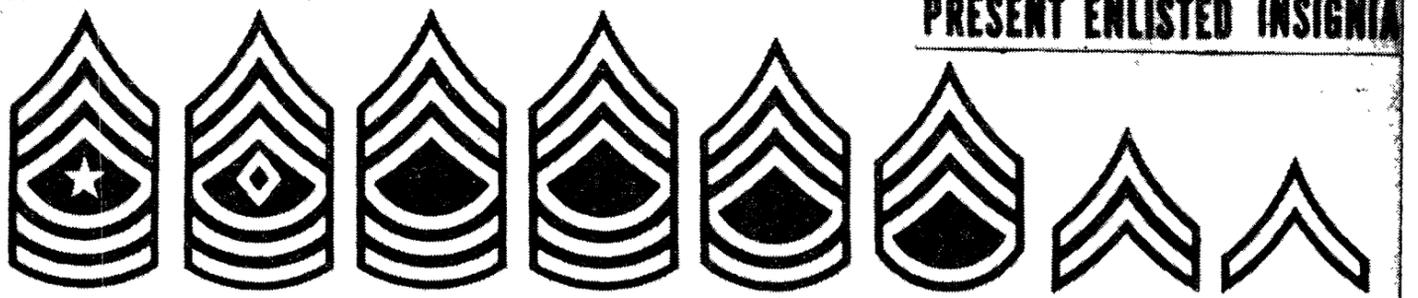
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E-9
Sgt
Major

1st
SGT

E-8

Master
Sgt

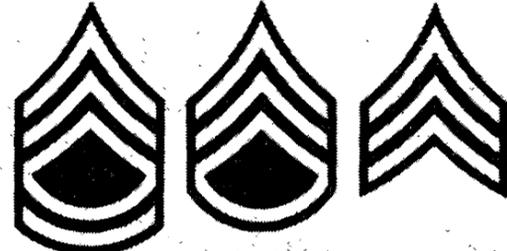
Master
SGT
E-7
SGT
First
Class

SGT
First
Class
E-6
Staff
SGT

SGT
E-5
SGT

E-4
Corporal

E-3
PFC



SPECIALIST (E-9) SPECIALIST (E-8) SPECIALIST (E-7) SPECIALIST (E-6) SPECIALIST (E-5) SPECIALIST (E-4)

REVISED INSIGNIA AND GRADE TITLES



Sgt
Major

E-9
Chief
Master
Sgt

1st
SGT

E-8
Master
Sgt

E-7
SGT
First
Class

E-6
Sgt

E-5
Sgt

E-4
Corporal

E-3
Lance
Cpl

E-2
PFC



SPECIALIST (E-7) SPECIALIST (E-6) SPECIALIST (E-5) SPECIALIST (E-4)

The new revision will bring these NCO ranks in line with pay grades. In other words, all E-5's will wear the three stripes of sergeant, all E-6's will be designated staff sergeants with three stripes and one rocker, and all E-7's will become sergeants first class with three stripes and two rockers. No demotions or changes in pay grades will result from the revisions. The move is being made to eliminate present confusion between rank and pay grade and to recognize precisely the advancement of enlisted personnel.

BUSCH BAVARIAN BEER

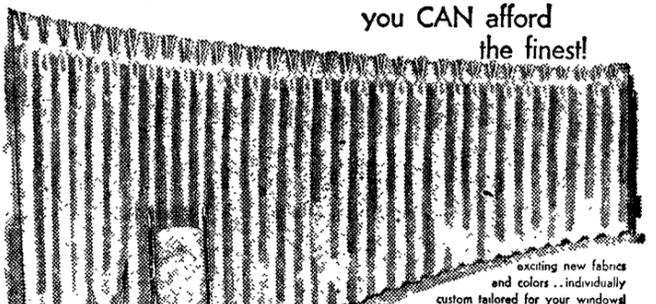


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Thiokol Develops Foam Motor Mandrel

Thiokol Chemical Corporation, Huntsville Division, has conducted the first successful static firing of a large solid propellant rocket motor cast with an integral, foamed plastic mandrel.

The Thiokol developed mandrel, which is used to form the center cavity configuration of the solid propellant, was made of polyurethane foam. The motor's ignition system is a part of the foamed plastic mandrel. The mandrel (or core) was retained in the motor until the motor was fired. Upon ignition, the mandrel was broken up and expelled through the exhaust stream. Conventional mandrels, which usually are made of metal, must be removed from the motor before it can be fired.

During the test, the foamed plastic mandrel was expelled as designed. The motor, an XM33 rocket

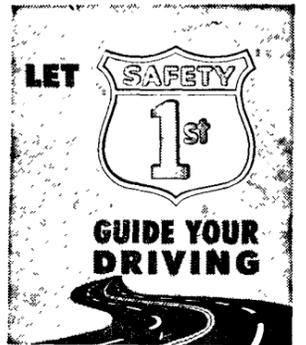
motor containing more than 7,300 pounds of propellant performed successfully meeting all design expectations.

The test was conducted on January 14, under a feasibility demonstration program funded by the National Aeronautics and Space Administration's Langley Research Center, Hampton, Virginia, and was an extension of earlier Langley foam mandrel studies in much smaller motors containing approxi-

mately 30 pounds of propellant.

Thiokol spokesmen say the integral mandrel offers important advantages over conventional mandrels. It makes possible the manufacture of solid propellant rocket motors containing intricate cavity configurations. It also prevents sagging of the propellant during storage, and therefore offers the possibility of using propellants heretofore considered unusable because of their tendency to sag.

March 20, 1962—A new electronic computer, BRLESC (Ballistic Research Laboratories Electronic Scientific Computer), was dedicated at the Ballistic Research Laboratories at Aberdeen Proving Ground, Maryland, now an Army Materiel Command installation. The machine was designed and fabricated entirely by BRL personnel. It is fast, accurate and capable of solving problems never before possible due to the excessive amount of time, space or precision required.



LT. COL. W. E. L. HAYWOOD

Lt. Col. Haywood Is New British Liaison Officer

Lt. Col. William E. L. Haywood is the newly-appointed liaison between the United Kingdom and the Army Missile Command and Ordnance Guided Missile School at Redstone Arsenal.

He is replacing Lt. Col. William Graham who will join the staff of the School of Electronic Engineering at Arborfield in England.

The two men are former classmates who received their Army commissions in the same ceremony on Dec. 13, 1941.

Col. Haywood, who officially took over the liaison duties on Feb. 8, is serving his first tour in the United States. He served in Northwest Europe during World War II and in Germany on two subsequent assignments.

The Colonel is a graduate from Braintree Country School and the University of Reading. He has a bachelor of science degree in chemistry, physics and mathematics. He is also a graduate from the Technical Staff Course of the Royal Military College of Science.

Col. and Mrs. Haywood have four children: Peter, 21, Nicholas, 15, Jacqueline, 10, and James 6. Jacqueline and James are attending Ridgcrest Elementary School.

Col. Haywood is a member of the Institution of Electronic and Radio Engineers. Among the sports he likes are sailing, fishing and shooting.

Movie Schedule

WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, February 24-27
 "It's a Mad, Mad, Mad, Mad World" (F)
 5:45 and 8:30 p.m.
 INCREASED ADMISSION:
 Adults 75c, Children 25c
 SUNDAY-MONDAY, Feb. 28-Mar. 1

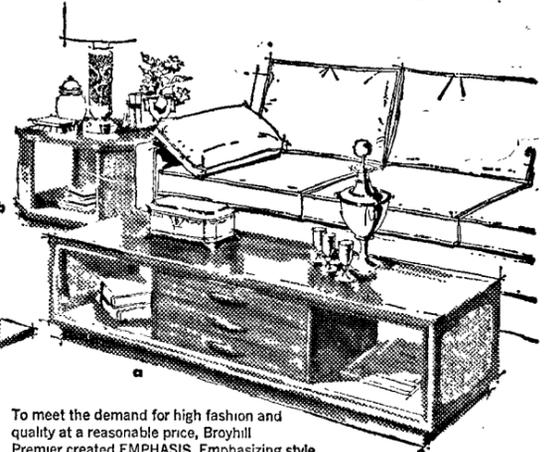
Walt Disney's "Emil and the Detectives" (F)
 TUESDAY, March 2
 "Hercules, Samson and Ulysses" (M-YP)
 Two shows nightly at 6:00 and 8:30 p.m. except as noted above.
 Saturday matinee at 1:00 p.m.
 Sunday matinee at 2:00 p.m.

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- c. Console..... \$99.95
- d. Mirror..... \$35.00
- e. Cigarette Table..... \$39.95



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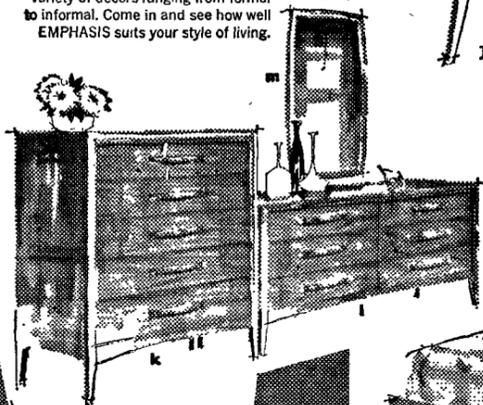
Unique features lend a new world freshness to an old world elegance.

- f. Breakfront Deck..... \$100.00
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- h. Dining Table..... \$79.95
- i. Arm Chair..... \$31.95
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- l. Double Dresser..... \$119.95
- m. Mirror..... \$45.00
- n. Cane Panel Bed..... \$89.95
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SOCIAL ^{and} CLUB EVENTS

Coffee Planned March 2

Mrs. Robert C. Hunt and Miss Helen Turner will be honored by the Madison County Chapter of Red Cross Volunteers at a coffee Mar. 2 at 10 a.m. in the Redstone

Officers Mess. Mrs. Hunt is Director, Office of Volunteers, Southeastern Region and Miss Turner is Executive Assistant Director. Headquarters is in Atlanta.

All volunteers in the area have been invited. Dress for the event is the Volunteer uniform.

The Coffee, with the Redstone Arsenal Gray Ladies and Volunteers as hostesses at the Mess, has become an annual event.

Mrs. Scott, Mr. Wilson Win At Bridge

Mrs. R. U. Scott and Mrs. B. A. Saholsky were winner and runner-up for the women in the Monday night bridge competition at the Redstone Officers Open Mess last week while O. W. Wilson and CWO A. V. Garrabrant held these positions for the men.

Thirteen tables of players competed during the evening.

Reservations to play with the group can be made with Mrs. R. U. Scott, 772-3273.

COFFEE SCHEDULED
The Wives of the Missile Support Command officers will have their regular coffee Thursday, Mar. 4 at 10 a.m. in the Redstone Officers' Open Mess.

Hostess and co-hostess will be Mrs. Robert Hall and Mrs. Ralph Lawson. Reservations must be in by Friday, Feb. 26, cancellations by Monday, Mar. 1. For reservations call Mrs. R. L. Lees, 877-4757 or Mrs. E. J. Kidd, 877-5061.

Technical Art Show Entries Being Received In Huntsville

Entries for the 1965 Technical Art Show sponsored by the Huntsville Chapter of the Society of Technical Writers and Publishers may be submitted from Feb. 24 through Mar. 10. It has been announced by STWP Seminar officials.

Invitations and rules were mailed last week or can be obtained from STWP-Huntsville, Civic Arts Center, 311 Clinton Avenue, West in Huntsville.

In two previous years, judges sifted through more than 1,000 entries from 30 states to select pieces for exhibit and to name award winners. More than 300 individuals from governmental, industrial and educational organizations received awards.

STWP's show is designed not only to give the individual technical illustrator and artist an opportunity to exhibit and gain recognition, but to acquaint the general public with the ultimate potential of graphic presentation of technical information.

Judging is scheduled Mar. 18 and 19. All entries will be judged by a panel of eminent in their respective fields.

The identity of the judges is not disclosed until after the judging. This year's panel will include representatives from the Smithsonian Institute, Technical Illustrator's Management Association and National Association of Industrial Artists.

Selected entries will be exhibited at the Huntsville Utilities Building from Mar. 29 through Apr. 5, at the George C. Marshall Space Flight Center Apr. 5-12 and at the Huntsville Civic Arts Center for the remainder of April.

Winners will be announced at an awards banquet Apr. 2 during STWP's Fifth Technical Communications Seminar in the Rocket City.

WIVES COMPETE FOR TOP HONORS

The bridge group sponsored by the Redstone Arsenal Officers Wives Club had eleven tables in play Thursday morning at the Redstone Officers Mess.

Winners for the day were Mrs. C. H. Johnson, first; Mrs. Lloyd Deppensmith, Mrs. Don R. Davis, Mrs. J. A. Davis, was low.

Reservations are handled by Mrs. A. J. Matthews.

Births At Post Hospital

April Dawn Campbell, 6 lbs., 1½ ozs., Feb. 15, daughter of SN and Mrs. Charles W. Campbell.

Christina Margareta Rosmarie Prell, 7 lbs., 12 ozs., Feb. 14, daughter of 1/Lt. and Mrs. Johann J. Prell.

Cynthia Marie Wittne, 6 lbs., 4 ozs., Feb. 12, daughter of 1/Lt. and Mrs. Alton B. Witten.

Matthew Blair Benjamin, 7 lbs., 8 ozs., Feb. 9, son of 1/Lt. and Mrs. Jerry Christopher Benjamin.

Karin Berndl, 7 lbs., 3 ozs., Feb. 11, daughter of SFC and Mrs. Wolfgang E. Berndl.

At The Service Club

By BETTY HAYES

Talent is needed tonight! At 7 p.m. a rehearsal will take place for our big show in March. If you would like to participate in the show, come out for the rehearsal. The Third Army Show, "Merrily We Roll Along," which was scheduled for tonight, will be here next Wednesday evening at 8:15 p.m.

On Thursday evening, at 7:30 p.m. card kapers is our theme program. All card games will be played. Why not come out and enjoy your favorite game in a comfortable, relaxed atmosphere.

Attention pool sharps and I know that many of you fall in to this category. A pool contest will be held Friday evening at 8 p.m. If we have enough interest in the contest, a post-wide pool tournament will be planned for the near future.

What is scheduled for Saturday afternoon? You guessed it—coffee time. at 3:30 p.m.

Pinochle is becoming a popular card game at the Service Club. Since many of you have requested a pinochle contest, your request has been granted. Saturday evening at 8 p.m. a contest will take place. Don't forget to tell your friends about it.

Coffee and donuts will be served on Sunday morning at 9 a.m.

Like to dance! You have the opportunity to do so at the record dance, "Tops in Pops," Sunday at 8 p.m.

Monday evening, March 1 at 8 p.m. has been designated as an evening of games.

If you would like to learn to play bridge, Molly will give you instructions Tuesday evening at 7:30.

We have three big shows in March. Check this column each week for these three events and other events.

See you at the Service Club.



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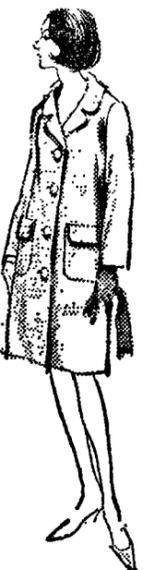
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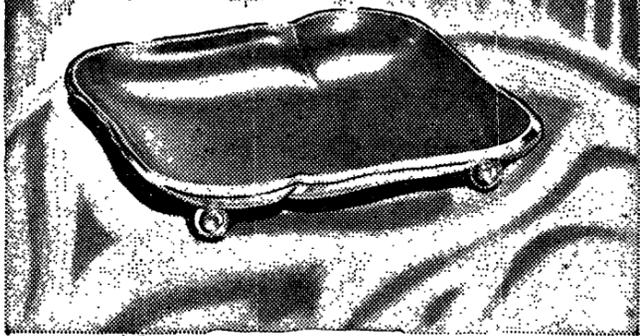


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'Merrily We Roll Along' Set Wednesday

The cast of "Merrily We Roll Along," is projecting across the footlights in a new way this year. Using a scenery projection system, the cast of 33 is backed up in their professional performance by scenery in the mood of the act.

The Third Army Showmobile production will feature songs from each of the 50 states in a two hour musical variety program which will be presented in the Service Club on Mar. 3.

The show is touring Third Army military installations during a two month period.

The cast is composed of talent assigned at Third Army installations. The cast includes three enlisted WAC.

Instrumental in the production of the show will be Gilbert Gross, director; Robert Shaw, tour supervision, musical coach and technical director; Robert Nuttall, musical director and arranger, and Sp4 Raymond Lacetti, art director and costume designer.

Gross is a graduate of the Philadelphia Musical Academy, New York City's Hunter College and the International Opera Studio in Zurich. Shaw is a Juilliard School of

Music graduate. Nuttall studied at Ralph Wolfe Conservatory of Music in New Rochelle, N. Y., and the Leonard School of Music in

Charleston, S. C. Lacetti is a fine arts graduate of New York University and New York City's Parson School of Design. He also attended



FINAL TOUCHES—One Zeus missile that will never get off the ground is this one being installed at the Nike-X Project's Kwajalein Test Site in the Pacific. A replica of many Zeus missiles that have been fired at Kwajalein, it will be joined later by other missiles launched there. Col. Glenn Crane (in pith helmet) former Commanding Officer of the Test Site, gets help here in adding final touches to the full scale model.

Hallmark Changes With New Landlord

When the Navy operated Kwajalein Island and the Army's Nike-X Project was a tenant, a five-ton anchor reposed in front of the administration building like a statue on a courthouse square.

But when the Nike-X tenant became the landlord on July 1 of last year, the anchor disappeared overnight leaving only the impressions of its massive flukes in the coral earth.

Now Kwajalein, a tiny island 2,000 miles southwest of Hawaii, has a new statue. It is a full-sized, 48-foot long, model of the Nike-X Project's Zeus missile; a replica of the many Zeus missiles that have been fired a mile and a half away on the western tip of the island.

Later it may be joined by a Sprint missile, companion interceptor to the Zeus in the Nike-X system.

Putting up a Zeus on Kwajalein is like erecting a monument to the tuna on Fisherman's Wharf. For more than five years, nearly the sole purpose of the island has been development and testing of the missile and other components of the Army's missile defense system.

A Zeus fired from Kwajalein be-

came the first known missile to intercept an ICBM in flight.

To steady the upright missile model in the tropic winds that sometimes rake Kwajalein, it has been mounted on a solid concrete base.

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The Special Services Division under Lt. Charles E. Baker is responsible for bringing the show to Redstone Arsenal.



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TRAVELING PLAQUE TO BE RESEARCHED AND FURTHER DEVELOPED—Maj. Gen. John G. Zierdt presents Lt. Col. S. W. Josephson with the Army Missile Command Traveling Suggestion Award Plaque for the R&D Directorate. R&D personnel won the honor during the last quarter of 1964 by having the highest suggestion submission rate of principal Command elements. It was R&D's first time to win the plaque in the four years it has been traveling at Redstone. The R&D suggestion submission rate was 100 suggestions per 1,000 employees. Department of the Army objective submission rate is 69 suggestions per 1,000 employees. In presenting the plaque General Zierdt said that the R&D Directorate had presented other Command elements with a real challenge by obtaining such an excellent submission rate.

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Auditor—GS-11		O, K
Auditor—GS-9		O, K, A
Automotive Design Engr, Supv—GS-12		J
Budget Analyst—GS-9		O
Cartographer—GS-11		MN, BO, HO, Brazil
Cartographer (Photo)—GS-12		ES
Cartographer (Photo)—GS-11		CH
Cartographer (Photo)—NM-7		CZ
Chinese Translator—GS-7		J
Civil Engr (Bldg & Gr), Supv—GS-12		G
Clerk Stenographer—GS-4		K
Communications Specialist—GS-12		G
Contract Specialist—GS-11		K
Contract Price Analyst—GS-9		K
Cost Accountant—GS-9		K
Digital Computer System Analyst—NM-12		CZ
Digital Computer System Analyst—GS-9		K
Digital Computer Programmer—GS-9		K
Distribution Facilities Spec—GS-12		H
Electrical Lineman—WB-11		A
Electronic Engr (Wire Comm)—GS-12		H
Electronic Equip Insp Foreman—S-9		K
Electronic Mechanic—M-12		CZ
Electronic Technician (Gen)—GS-12		G
Engineering Technician—GS-11		G
Engineering Techn (Mech), Supv—GS-11		J
Equipment Specialist (Auto)—GS-12		J
Equipment Specialist (Elec)—GS-12		G
General Engineer—GS-12		K
General Engineer, Supv—GS-13		A
General Engr (Bldgs & Gr), Supv—GS-13		K
General Engr (R&U), Supv—GS-13		K
Geodetic Technician—NM-5		CZ
Housing Project Manager—GS-9		A
Laundry & DC Plant Manager—GS-12		G
Laundry Plant Supt—NM-8		CZ
Librarian (Admin)—GS-9		K
Librarian (Admin)—GS-8		J
Librarian—NM-7		CZ
Management Analyst, Supv—GS-12		K
Mathematician—GS-12		F
Mechanical Engineer—GS-11		A
Medical Off (Gen Practice)—GS-12		O
Office Appliance Repairer—W-9		A
Production Controller—GS-9		K
Recreation Leader (SA)—GS-5		A
Recreation Specialist (SA)—GS-7		A, J
Recreation Spec (D&M), Supv—GS-10		K
Real Property Util Spec—GS-9		O
Research Meteorologist—NM-13		CZ
Secretary (Steno)—GS-5		K
Staff Accountant—GS-11		F

KEY TO LOCATION OF POSITIONS

A	Alaska
BO	Bolivia
CZ	Canal Zone
CH	Chile
F	France
G	Germany
H	Hawaii
HO	Honduras
I	Italy
J	Japan
K	Korea
MN	Managua, Nicaragua
O	Okinawa

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Lonnie
Smith
Salesman

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Good
Delivery!

Good
Quality!
SAM K. TATE
Store
Manager

Mrs. Layton Receives Junior Executive Award

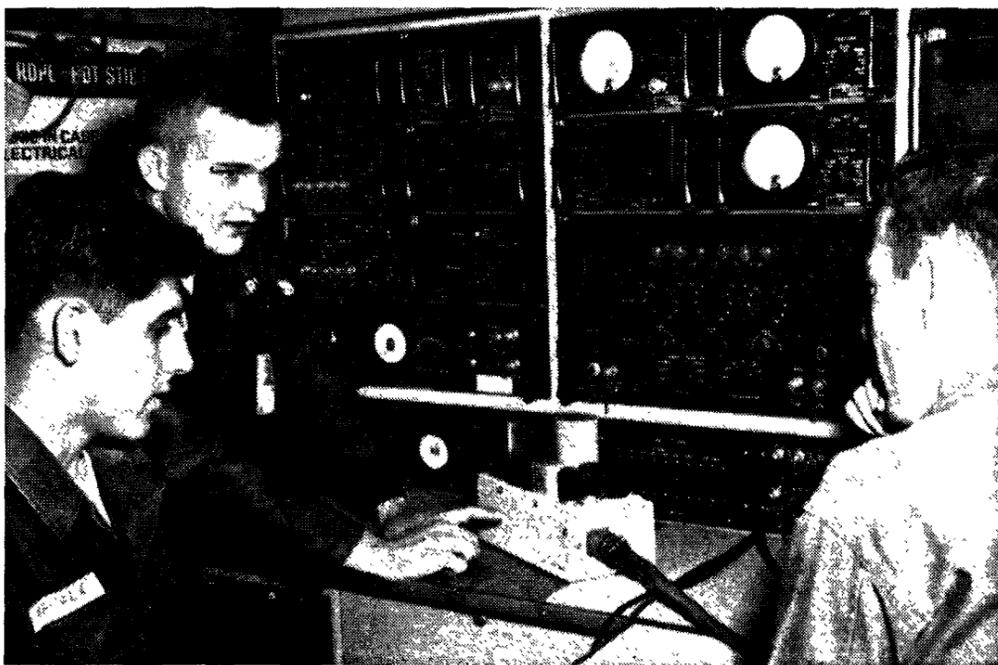
Mrs. William M. Layton of Humbolt, Tenn., has been awarded a plaque for outstanding performance of duty to the Army.

Col. Thomas W. Cooke, Commanding Officer of the Army Missile Support Command, Redstone Arsenal, presented the award at a special ceremony.

The commendation inscribed on the plaque reads: "Betty M. Layton is officially commended for being selected to receive the Army Missile Support Command 1964 Junior Executive Award. Since her assignment to this Command, she has devoted herself to developing and implementing innovations and

approaches which materially assisted in advancing this Command's Automatic Data Processing Program. As Chief of the Data Systems Branch, she has accomplished her mission in a superior manner with considerably less resources that is normally required. She is extremely active in a professional society and is recognized by her colleagues as an authority in her field. Her many outstanding accomplishments are recognized by selecting her for this honor and awarding her this plaque."

Mrs. Layton, the former Betty McCain, graduated from Humbolt High School and attended Union University, Jacksonville, Tenn. She is the daughter of Mrs. Charles B. McCain who now resides in Trenton, Tenn.



SOLDIER OF MONTH—An instructor in the Hawk Division, Ordnance Guided Missile School, Sp4 Paul M. DaPrato, (center), has been named Post Soldier of the Month. Two students, Pvt. Lewis Breaux (left) and SP4 Joe Campbell, receive a guidance component checkout procedure from DaPrato. Following basic training at Ft. Dix, N. J., Sp4 DaPrato was assigned to the school in November 1963. His hometown is New Bedford, Mass.

Welcome Mat

The ROCKET extends a welcome to the following named Federal employees who have recently accepted positions with Army organizations at the Arsenal.

ARMY MISSILE COMMAND

Virginia C. Baysinger, Hettie A. Burnett, George W. Eilers, III, Coolidge Needham and Alice Serfoss, all with the Supply & Maintenance Directorate; Joseph E. Smith, Lynnes Y. Taylor, Jonelle P. Ward and Alice E. Butler, Procurement & Production Directorate.

William A. Friday, and David S. McNeil, Research & Development Directorate; Mary M. Burroughs, Management Science & Data Systems Office; Jerys E. Fields, Personnel & Training; Roy A. Hall, General Counsel; Jo R. Holt, Chief of Staff; Phillip K. Lloyd, ADFC/DSO; Laura P. Steakley, Mauler Project Office; and Lillian F. Youell, Missile Intelligence.

ARMY MISSILE SUPPORT COMMAND

Tessa D. Barnes, Dolores A. Duncan, George T. Hasty, Martha A. Slaten, Fred A. Smith, Jr., Helen H. Spragins and Joan B. Van Ness, all with Finance & Accounting; Luther V. Harrison, Walker L. Land and Benny J. Matthey, Post Engineer; Janice B. Capley, Maintenance Support; Albert R. Fortunk and James H. Mowl, Reproduction; Dora L. Hewlett, Patent Center; James R. Jones, Computation Center; William C. Trice, Consolidated Supply; and Himon Miller, Hospital.

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CERTIFICATE OF ACHIEVEMENT—Maj. Gen. John G. Zierdt, Commanding General of the U. S. Army Missile Command presents an Army Certificate of Achievement to Lt. Col. William Graham, Liaison Officer to the Missile Command from the United Kingdom. The Colonel and Mrs. Graham are slated to return to England this month. He has been liaison officer for all elements of the Army at Redstone Arsenal for almost three years. His next tour will be on the staff of a military school in England.

Koreans Form First Nike Hercules Unit

The first detachment of the Korean Army to be trained on the Nike-Hercules air defense missile is concluding its instruction at the U.S. Army Ordnance Guided Missile School.

Commanded by Maj. Ei Hwan Park, the unit of 40 officers and soldiers will soon transfer to Fort Bliss, for additional training. This will conclude with actual firing of tactical missiles which can intercept enemy targets at altitudes above 100,000 feet.

The Koreans have been studying here for the past year and a half. Another Korean unit was previously trained on the Hawk missile which is designed to destroy low-flying targets.

The Nike-Hercules and the Hawk are also being maintained in Asia by Japanese and Nationalist Chinese forces.

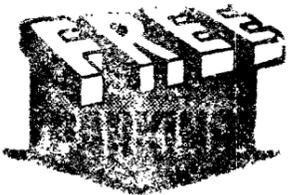


BRIEFED ON PLASMA JET—Dr. Thomas A. Barr, Jr., left, describes functions of the Plasma Jet to Dr. Ralph Siu, Scientific Director Research Division, U. S. Army Material Command, Washington, D. C. Dr. Siu was a visitor at the Army Missile Command and received a briefing and tour of facilities of the Directorate of Research and Development. Dr. Barr is Chief of the Plasma Physics Branch of the Physical Sciences Laboratory.

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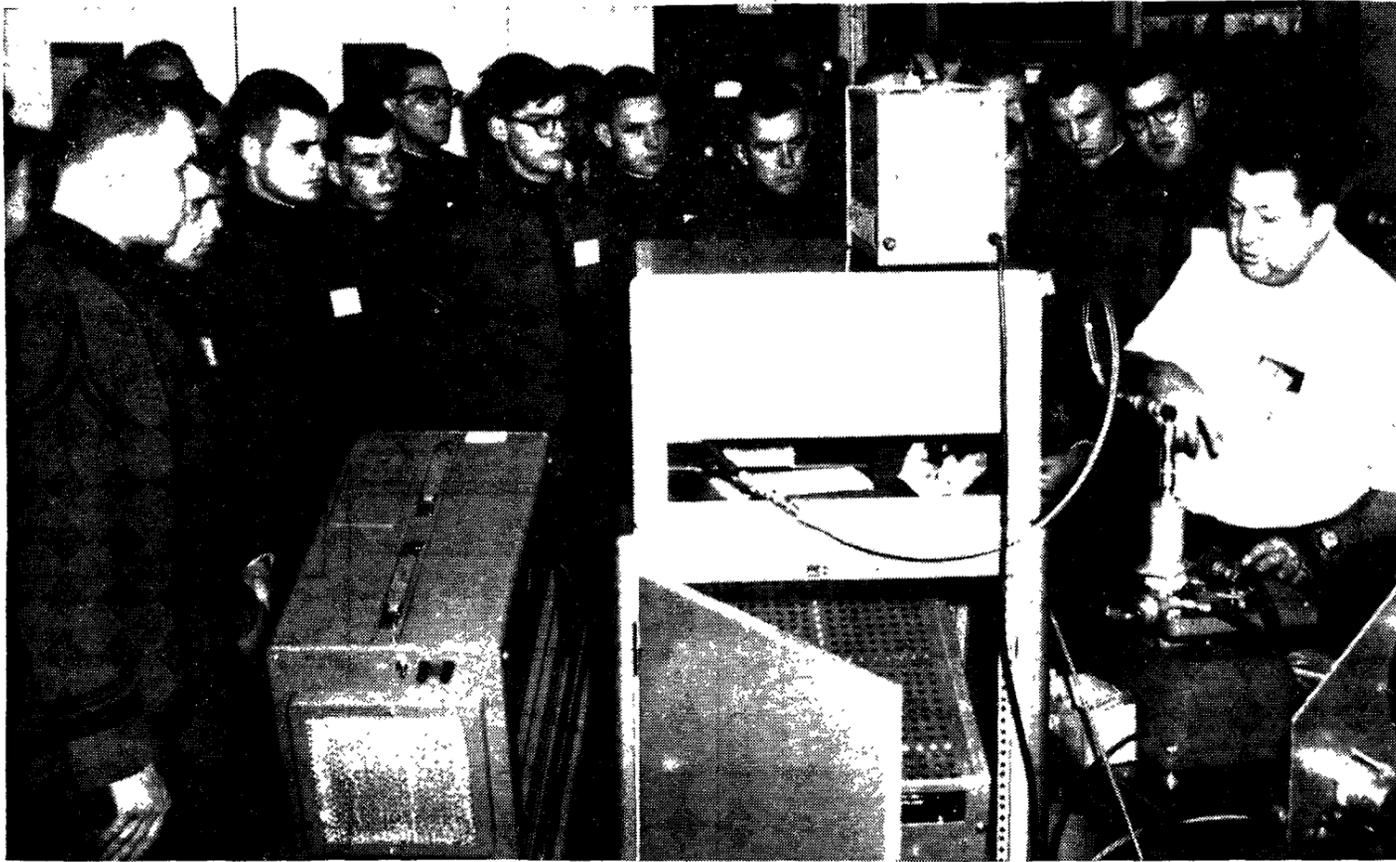
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WEST POINT CADETS AT REDSTONE—Thirty-two cadets from the United States Military Academy returned to West Point following a three-day visit to Redstone Arsenal. Here, they are touring the Army Missile Command's Inertial Guidance and Control

Laboratory. They also spent some time at facilities of the Army Ordnance Guided Missile School and NASA's Marshall Space Flight Center. The cadets are members of the Academy's Rocket Society.

Noble Is Tops As Instructor

Capt. George A. Noble of 214A Dyer Circle, has been named instructor of the month for January by the officer training department of the Department of Individual Training at the U. S. Army Ordnance Guided Missile School.

Capt. Noble is an instructor with the nuclear weapons division where he has been assigned for 16 months.

He is a graduate of Lafayette College, Easton, Pa., and is a native of Granby, Conn.

Approximately 100 problems will be completely worked out by the course instructors. Class will be limited to 30 students in order to provide for individual attention.

Persons interested in attending these non-credit review sessions should have a bachelor's degree in engineering or at least seven years of engineering experience. Classes will meet on Monday and Wednesday evenings from 6:00-8:00 p.m.

Anyone wishing to enroll in this course must complete an application for a special non-credit course (including students enrolled in the regular credit program). Application blanks may be obtained at the Office of Student Records, Room 108, Morton Hall, during weekday office hours. Deadline for application is Mar. 23.

University Will Offer Engineering Refresher

The University of Alabama in Huntsville is offering in the spring quarter, a 40-hour, non-credit review of engineering fundamentals which will furnish a review of basic principles of engineering to all participants as well as aid those persons planning to take the engineer-in-training portion of the

Alabama Professional Engineers Examination this year.

Because Alabama gives the same examination to all persons regardless of the branch of engineering in which they seek professional registration, this refresher course will also be of help to individuals who contemplate taking the en-

gineer (2 day) state examination.

The course is designed to complement the 10 categories of engineering fundamentals covered in the current Alabama examination. Students will be provided with state registration forms and examination instructions. Information will be provided on state registra-

tion laws, reciprocity practices, and eligibility requirements. Ap-

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This home was built with the large family in mind. 4 good size bedrooms, living room, dining room, paneled den, built-in kitchen with eating area, wood burning fireplace, double car garage and large playroom in basement. One acre lot with trees. Conventional or VA financing.

908 WOODALL LANE

Three bedroom home in University Place School district, large living room, nice kitchen with dishwasher, central air condition. Only \$18,000.

1608 W. MARKET ST., ATHENS, ALA.

3 bedroom, living room, dining room and den with attached garage. Fenced in yard. This home can be financed on conventional loan for only \$13,000.

SMALL FARM

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3901 VOGEL DRIVE

Near Davis Hills School, 3 bedroom, living room, dining room, combination built-in kitchen with family room, 2 baths, large lot with trees, purchase G. I. Equity for only \$2000.00 and assume payments of \$119.40 including taxes and insurance.

POPLAR DRIVE IN MERIDIANVILLE

Lovely Brick split-level with 3 bedrooms, sunken living room, dining room, family room, sliding glass doors, patio, situated on 1 acre lot with trees. 100% financing to veteran plus closing only \$26,000.00

ARDMORE HIGHWAY

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4-wheel drive. \$1995.
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Page 14 The Redstone Rocket — February 24, 1965

1. For Rent

FOR RENT—to single lady private bedroom and bath with kitchen privileges in modern furnished central air conditioned home of single lady convenient to Arsenal. Phone 881-1819 after 6 p.m.

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

FOR RENT—TV's portables, UHF-VHF, by day, week or month 1964-65 models. Ph. 536-9761 Central TV and Stereo Co., corner Governor's Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. tfc

OFFICE SPACE FOR RENT—Parking located 2008 Triana Blvd. Call 539-7421. t-f-c

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tfc

2. Cars For Sale

FOR SALE—1960 Pontiac, 4 door, radio, and heater, whitewall tires. Better than average condition. Phone 732-4315, or 232-4864. 3-10-c

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4. Mobile Homes

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FOR SALE—4 bedroom frame house, garage apt. on double lot, garden, storm basement, 411 7th Ave. N.W., Arab, Phone 586-3172. 2-24-p

FOR SALE—Three bedroom brick home with 1 1/2 tile baths. In Tanner Heights, Hartselle. Phone 773-6043 after 4 30 p.m. 3-3c

6. Pets

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March 17, 493—St. Patrick's Day. According to Church authorities, St. Patrick was born at Kilpatrick, near Dumbarton, Scotland, in the year 387. Commissioned by the Pope to work in Ireland, he preached and taught there until his death on March 17, 493. He was buried in the place on which in later years the Cathedral of Down was built.

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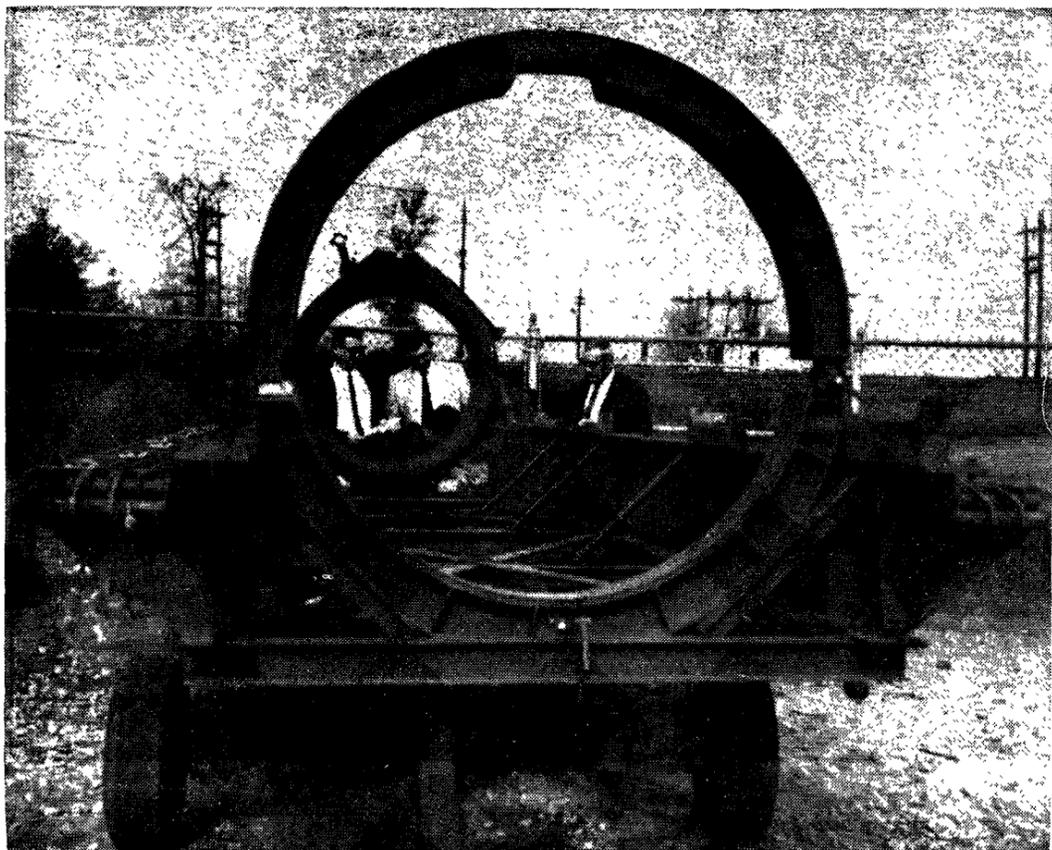
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VERIFICATION—Whenever a new modification kit is received at the Pershing modification shop, a pilot installation is performed by personnel from the Pershing Project Managers maintenance branch. The technical writers are alerted to verify the kit hardware, procedures and technical manual changes. (Left to right) Carl L. Perry, Cecil Schrader, Dudley Green and William G. Toole consult after modification of the Pershing launcher. Perry is a technical writer in the Supply and Maintenance Directorate, Green a maintenance engineer in Pershing; and the other two are employees of the Pershing prime contractor, Martin Company, Orlando.

Shop Personnel Practice What Safety Preaches

Safety inspectors carefully inspect a place like the Pershing Project's modifications shop.

The work entails machinery and electronics devices which, mishandled, could result in serious injuries; but after more than two years of operation and 186,624 manhours later, the men in the shop called in the safety people

for a special inspection to be certain there were no hidden hazards not revealed in the routine safety checks.

After the inspection, William F. Sheeran, shop supervisor, received a citation from the Safety Division for himself and his men through the Pershing Project Manager, Col. E. I. Donley. Most of the men work-

ing on modification are contractor employees who work hand in glove with the Civil Service and Military personnel assigned in the area.

All of them work closely with the technical writers who supply the publication men from the Directorate of Supply and Maintenance with all changes in the equipment so that the teams of Pershing missilemen from Europe to Asia will keep abreast of the state of the art.

Four men from the Maintenance Division of the Army Missile Support Command also are assigned in this area to keep up with modifications to the missile system. Their chief is Nelson McGahee.

The shop maintains a central supply for all Pershing modification kits which are shipped from the manufacturer. These are installed as pilot models at Redstone and verified correct before shipment is made to other locations in the United States and Europe.

Another responsibility of Modification shop personnel is updating and maintaining all equipment at the Ordnance Guided Missile School at Redstone.

The two-shift operation employs 40 men, a total that has fallen as low as 25 and fluctuated as high as 80.

Samuel Cowell is chief of the Maintenance Branch in the System Support Division of the Project and Charles Rogers is chief of the

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Hospital Supply Chief Promoted To Major Roy

It is now Major Edward E. Roy of the U. S. Army, a native of Bristol, Conn.

The promotion came on Jan. 21, 1965, at the Redstone Arsenal Army Hospital, where Maj. Roy has been stationed since August, 1962, as Chief of the Supply and Service Division.

A member of the Medical Service Corps of the Army, Maj. Roy entered military service in 1948. His service has included a tour at Bay Kreuznach Army Hospital, Germany, and Rodriguez Army Hospital, Puerto Rico, which was his last station before coming to Redstone Arsenal.

Maj. Roy will graduate in May from Athens College, Athens, Ala., with a BA degree in English. He

has also attended University of Maryland in Germany, University of Georgia, University of Puerto Rico and University of Alabama.

He is a member of the Knights of Columbus and the Reserve Officers Association.

Mrs. Roy is the former Oritia Figueroa de Riveria of Puerto Rico. The couple are parents of six children: Thomas, 12; Mark, 10; John, 9; Ann Marie, 7; Mary Theresa, 4; and James, 2.

Maj. Roy's mother is Mrs. Eliza Roy of Forestville, Conn.

PILOTS NEEDED

The U.S. Board of Civil Service Examiners has announced openings for aircraft pilots on announcement AT-35-4(65). The grades and salaries range from GS-9 at \$7220 a year to GS-12 at \$10,250 a year.

Modification Section of the branch.

PUBLIC AUCTION

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| 1 CHD12TM No. 131 Dairy Case—F20A5931 Comp. | 1 Block brush |
| 1 CV12TM No. 580 Prod. Case—E75CA-741415 Comp. | 1 Block scraper |
| 1 CP8TM107 Dry Prod. Case | 1 Dexter boning knife |
| 1 CF8TEM No. 439 F. F. Case—F-151AL-59P Compr. | 1 Gustave German boning knife |
| 1 8x8 Neadham Cooler—F75CA74-505 Compr. | 1 Butcher stall |
| MT45 Coil. | 1 Green River knife |
| 1 Meat block (army surplus) | 1 No. 32714 Dexter knife |
| 1 Sanitary Prod. Seale 30A60—No. 250521 | 1 Hamburger lug |
| 1 Toledo Meat Scale No. 548456 | 1 Aluminum hamburger ladle |
| 1 Sanitary 1275 Meat Chopper 05000 | 1 set produce tags |
| 1 Sanitary Tenderizer No. 9070 | 1 Set Meat tags |
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Illustrator's Holiday Is Similar To That Busman's

A busman's holiday is riding a bus. Singers and musicians often relax in jam sessions, and an illustrator's greatest pleasure appears to be painting what he pleases.

John W. Norris, a staff member of the Visual Communications Branch at the U.S. Army Missile Command is an example.

He recently completed the Famous Artists Course as a part of his career development under the sponsorship of the Civilian Personnel Office's Training and Development Division, a component of the U.S. Army Missile Support Command. Now, Norris is preparing sketches for a painting which eventually may hang on the

walls of the new Huntsville City Hall.

Norris has gained limited fame at the Missile Command for his pointed cartoons illustrating the foibles that crop up in industry and government. Mayor Glenn Hearn of Huntsville saw some of these and asked Norris if he would be willing to devote his time and effort to a painting of the Mayor and his Council.

By the time Norris finishes the painting, the face of the Mayor and his Council, will be as familiar to Norris as the configuration of missile systems he paints on the job. The next decision: oil or watercolors?

Norris has been at the Missile Command for five years. Before that he worked for an auto manufacturer in Detroit, as an illustrator. His original training was at the College of Art in Toronto, Canada.



JOHN W. NORRIS



TO RECEIVE DEGREE—James C. Herring, 1715 Ballard Drive S.E., Huntsville, has completed requirements for a Master of Business Administration degree from the University of Alabama. He will receive the degree at the May 30 Commencement. Herring is employed in the Directorate of Procurement and Production as a commodity logistics specialist. He is an Army Reserve lieutenant colonel.

School PIO Has Talks On Hand

Military personnel who would like to address civilian or military groups on military topics can obtain tailor-made "slide talks" at the OGSMS Public Information Office.

The slide talks are part of the Speechmaker Series prepared by the Troop Information Support Unit to help military personnel to the Army story. It is designed for delivery by any Army spokesman to adult military and civilian groups.

The speech manuscripts reflect current and official Department of the Army doctrine, and all material has been cleared for public release by the Office of the Assistant Secretary of Defense. The speeches are approximately 25 minutes long.

The slides accompanying the speeches are designed to supplement and highlight the presentation. The Speechmaker package deal includes questions typical of those asked by audiences following the address. The accompanying answers again reflect Department of the Army doctrine.

Speechmaker topics include "The Soldier — Key to Landpower"; "The Army and Military Assistance"; "The Army As a Career"; "Army Reserve Components"; "The Army — Ready for Any Mission"; "STRAC, Strategic Army Corps"; "National Defense and the Army"; "The Army's Missile Family"; "The New Look in Logistics"; "The Army—Partner for Progress," "Army Heritage," and "A Progressive Army."

The series is a project of the DA Chief of Information. Further information concerning the series may be obtained from the Missile School Public Information Office.

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