

Arsenal-Wide

Spot News

Dial 112

The Redstone Rocket

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VOL. XV; NO. 34

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 11, 1967



MAYOR PROCLAIMS CIVIL SERVICE WEEK—Huntsville Mayor Glenn Hearn has set the period of Jan. 16-21 as Civil Service Week, honoring the some 20,000 Federal employees in this area. The proclamation he signed marks the 84th observance of the establishment of the Federal Civil Service system. Looking on are, left to right: Arthur Sanderson, Chief, Personnel Office, Marshall Space Flight Center; Lt. Col. Zachary T. Huckaby, Defense Contracting Administration Office; Jack N. McConaha, Civilian Personnel Officer, Army Missile Command; Robert J. Seay, Executive Officer, Interagency Board of the U. S. Civil Service Examiners for North Alabama; and Everett Brouillette, President, Lodge 1858, of American Federation of Government Employees. Lodge 1858 will climax the week-long observance with a banquet on January 21.

Dr. Colburn Receives Patriotic Service Award

Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, went out of the Command last week to recognize an outstanding accomplishment by a contractor employee in support of the Army mission at Redstone.

Dr. Charles Colburn of the Rohm and Haas Co., was awarded a certificate of achievement for Patriotic Civilian Service in recognition of his leadership of that firm's Physical Chemistry Group.

In making the presentation, Gen. Zierdt said that Dr. Colburn's contributions during the past 15 years in the field of propulsion have provided a vital phase of

missile research and development.

The Rohm and Haas chemist is the fourth person to receive the Patriotic Civilian Service award at Redstone. The last such award was made last year to Dr. Henry Shuey, another Rohm and Haas scientist.

Dr. Colburn was cited specifically for his research and development efforts toward achieving significant increases in propellant performance, which in the mid-50s was a matter of deep concern to this country.

Under his leadership, the physical chemistry group furnished the necessary verification for the

(See DR. COLBURN on Page 3)

Contract Awarded For Lance Facility At Anniston Depot

MOBILE, Jan. 7 — A \$871,024 contract has been awarded by the Army Corps of Engineers for construction of an extensive fueling facility for the Lance Missile at Anniston Army Depot.

The contract went to Valley Construction Co. of Columbus, Miss.

It calls for construction of an office building, a shipping and receiving building, a shop structure, two storage buildings, two propellant loading buildings, a weld building and three concrete catchments.

Work will be completed by next September.

(See FUEL on Page 3)

Civil Service Week Will End With AFGFE Banquet

A labor relations expert from the Department of the Army and the General responsible for all army pilot training will be principal speakers during a banquet Jan. 21, sponsored by the Redstone Arsenal Chapter of the American Federation of Government Employees.

Benton G. Moeller, Chief of the Labor Relations Branch at the Secretary of the Army level, will discuss labor relations.

Maj. Gen. John J. Tolson, Commanding General of the Army Aviation Center at Ft. Rucker, Ala., will speak on the "Helicopter and Fixed Wing Pilot Training Programs and the role they play in the Viet Nam War."

Reservations will be limited to 500 persons for the banquet at the Sheraton Inn in Huntsville which is sponsored each year by Local Lodge 1858 of the American

Federation of Government Employees as a climax to the national Civil Service Week.

Union officials from over the state are expected to attend along with the National Vice-President of the American Federation of Government Employees Fifth District, Dennis Garrison.

Everett Brouillette, President of the Redstone Arsenal Lodge, said a number of other officials in the congress and government have been invited.

The banquet this year marks the 84th anniversary of the Civil Service Act and the 5th anniversary of Executive Order 10988 which was President Kennedy's directive on Labor-Management Relations that brought modified collective bargaining to federal employees.

Activities will start with a social period at the Sheraton Inn at 6:30 p.m., January 21, followed by dinner, the addresses, and a dance.



ADM. WILLIAM F. RABORN

Adm. Raborn To Be AOA Speaker

A former head of the Central Intelligence Agency, Vice Admiral William F. Raborn, Jr., USN, ret., will be guest speaker at the January meeting of the American Ordnance Association, Tennessee Valley Chapter.

Admiral Raborn, who was director of the CIA from April, 1965, to July, 1966, will discuss "The Role of Intelligence in National Affairs" at the AOA dinner meeting to be held on Thursday January 19 at the Redstone Officers Open Mess.

Immediately prior to his retirement after 39 years of active duty, Admiral Raborn directed the Navy's Polaris Fleet Missile Program earning for himself the title "father of the Polaris."

At the present time, Admiral Raborn is a vice president of the Aerojet-General Corporation.

ALIENS MUST REPORT

The Immigration and Nationality Act requires that aliens in the United States report their addresses to the Attorney General during the month of January each year. Cards for making the report are available at all Post Offices.

Contractors Will Receive Handier Bid Solicitations

Contractors who do business with the Army Missile Command will receive a handier package when they are solicited for bids on doing missile work, starting April 1.

The Command's Procurement and Production Directorate, in cooperation with the Department of Defense, plans to use 35 mm microfilm aperture cards of engineering drawings and technical data in procurement packages to cut costs and improve service.

Conversion to aperture cards will be on a phase basis beginning with individual components and progressing to all items by July 1.

This means that contractors will receive a small package of tab-size cards rather than the heavy stack of paper that is distributed when the Missile Command goes out to industry asking for bids on furnishing Army missiles, repair parts and related equipment.

Procurement officials pointed out that the cards are easier to handle than the conventional paper prints previously used, that the cards do not fade with time

and may be kept in a permanent file requiring very little storage space. Yet the cards will contain exactly the same information that appeared on the paper copies.

Also this method will permit contractors to reproduce as many copies as they may require for quotations, manufacturing purposes, or in soliciting from sub-contractors.

The Procurement and Production Directorate is sending letters to each of the 5,000 contractors on its bidders list, explaining the new system.

Various types of devices for viewing the cards are available on the open market, and micro-filming services may be obtained by looking in the telephone directory or by contacting the Missile Command.

H. D. Patterson, Engineering Documentation Division of the Directorate, 876-8773, may be called on questions about technical aspects of the change-over. For general information about the new system, call Jeff Darwin, Missile Command Small Business Office, 876-3567.



PATRIOTIC CIVILIAN SERVICE—Dr. Charles Colburn, of the Rohm and Haas Co., is shown accepting the Certificate of Achievement for a Patriotic Civilian Service from Maj. Gen. John G. Zierdt, Commanding General of the U. S. Army Missile Command. Dr. Colburn was recognized for his outstanding leadership of the Physical Chemistry Group at Rohm and Haas that has made significant contributions over the past 15 years in propellant research. He is the second employee of the company to receive the coveted honor in less than a year.

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., 35809 Bldg. 5250, Room A-136, Extension 876-1400 or 875-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, 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. 35804.

Rocket Ruminations

The state, in choosing men to serve it, takes no notice of their opinions. If they be willing faithfully to serve it, that satisfies.

—Oliver Cromwell

The Honored Profession Of Arms

A professional is defined as a person engaged in an occupation requiring a high degree of training and proficiency. More often than not, the term is applied to those engaged in law, medicine, education, theology or athletics.

By the very definition of the word, we in the Armed Forces are in a calling requiring a high degree of training and proficiency.

We also meet other qualifications as members of a profession. The military profession requires specific technical knowledge, has an identifiable doctrine, a complex of institutions peculiar to itself, educational patterns adapted to its own needs, a career structure of its own and a place in society.

The military professional is comparable to other professions in many ways. In the performance of his duties, the military man often needs the dedication of a doctor, the faith of a clergyman, the stamina of an athlete, the knowledge of an educator, the judgment of a lawyer and a patriot's unshakable belief in his country.

Every member of the Armed Forces, whether serving for two or 30 years, is a professional in every sense of the word.

He is a descendant of the Roman Legions that helped bring civilization to the world, the gallant Greeks at Marathon, the stalwarts of Valley Forge, the men of the Meuse-Argonne, the defenders of Wake Island and the embattled heroes of frozen Chosin.

The profession of arms, and the men who follow it, have shaped nations and changed the history of the world. Those who follow that profession in today's troubled world hold not only the fate of our nation in their hands, but that of the free world as well.

As a doctor can help heal the sickness of men, a lawyer or educator the illness of society and a member of the clergy the hurts of the heart, the military professional can help heal the sickness of nations.

Walk proudly, for you, too, are a member of an old and honored profession. (AFNB)

Opportunity Knocks

The biggest bargain in education today is the armed forces' education program. It gives almost any individual on active duty a chance to continue his formal academic education, regardless of his present educational level or duty location.

The program is one of the finest tools available to build a solid foundation for a career, either military or civilian.

What are you doing to take advantage of the program? Are you using your free time to earn your high school diploma or college credits?

Or, are you one of the many who have fallen prey to procrastination and talk about "enrolling in that course next month" or "starting that class next semester?"

The armed forces' education program affords the opportunity to further your education at a fraction of what it would cost as a civilian.

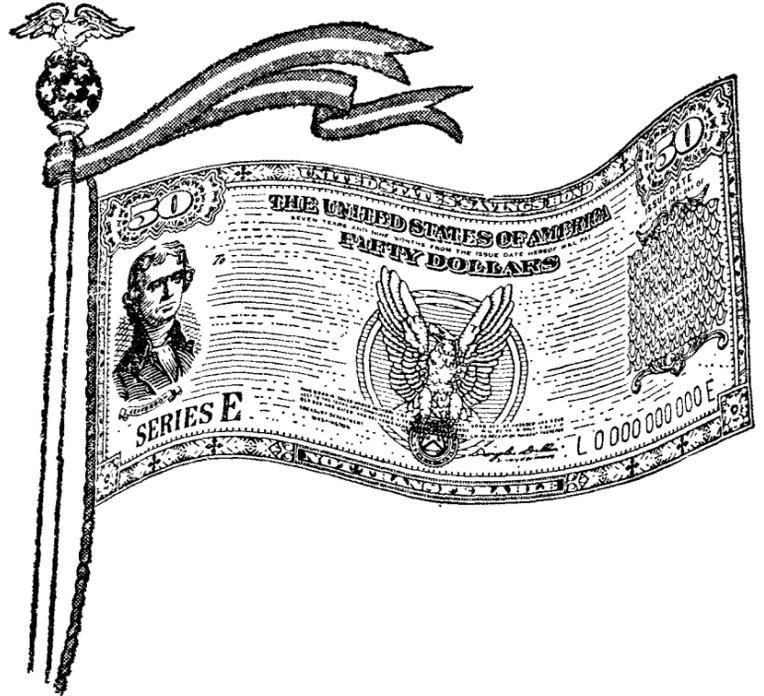
No matter where you are in the world, United States Armed Forces Institute (USAFI) courses are available. On-campus classes are available at colleges and universities near many military installations. High schools offer adult education during the evening hours, making it easier for you to get your high school diploma.

Talking about the educational program won't get you your high school diploma or earn college credits. An interview with your education officer, class enrollment, hard work and long hours of study can get you that diploma.

The opportunity is there. It's yours for the doing. (AFNB)



FIFTH DISTRICT AFGE MEETING—Huntsville members of the American Federation of Government Employees are shown together at the recent mid-winter staff meeting of the Fifth District. Seated, from left, are Earnest Jackson; Dennis Garrison, National Vice-President, and Eleanor Garrison, Fifth District Secretary. Standing is Burlin Hicks. Six other national representatives joined the Huntsville group to review past accomplishments and to plan future objectives.



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Missilemen Became Inventors When Need Arose



FLAMING BABES—W. H. Kleiber, Fire Marshal, Arsenal Support Operations Directorate, displays two flammable dolls, one badly burned, which were given to him by residents of Redstone Arsenal. Both dolls were marked A. B. Sutton & Son, Import, style 555. Kleiber urged all residents who have dolls suspected to be a fire hazard to turn them into the Arsenal Fire Department for determination.

James M. Henley didn't build a missile head puller with the idea of getting his invention patented. He just had a need. But the United States Patent Office has awarded him a patent as a result of investigation by the Army Patent Center for the U. S. Army Missile Command.

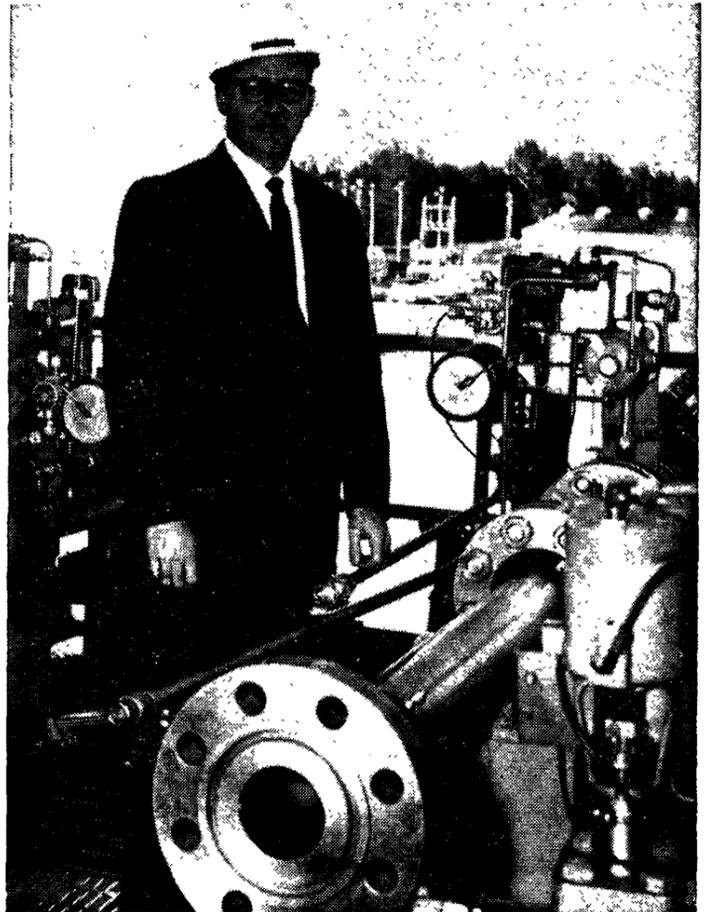
Henley, an engineering technician who has been on the job since the days of the never-flown experimental missile Hermes, has helped with tests on the whole Army family of missiles and one or two Air Force models to boot.

Before he had a family, Henley liked to play golf; but now the clubs are hidden in a closet and he and his wife, Monya, are spending a great deal of time learning new math and phonetic reading. Their oldest daughter, Karen, 7, is bringing her homework with her when she leaves the Whitesburg school each afternoon. Jimmy, 4, and Scott, 3, will have three heads to help them if they get stuck on a problem.

Henley was in Korea in the Army in 1951 as a member of a national guard unit which was activated soon after he graduated from Huntsville high.

When his outfit was deactivated in Huntsville, he came to work with the Test and Reliability Evaluation Division of the Research and Development Directorate. He has watched the Test Complex grow up with the advances in technology. He remembers the original test area as an open pit. Now, steel and concrete bind the missile motors to keep them from running amok during tests.

Henley, who hasn't given up his bowling despite his baby sitting, is waiting for the children to grow into enthusiastic sportsmen who will join him on the golf course and at other sports.



JAMES M. HENLEY

Gen. Lambert To Head Roll Call Exercise

HEADQUARTERS, THIRD US ARMY, Fort McPherson, Ga. — Headquarters IV United States Army Corps in Birmingham, Alabama, commanded by Maj. Gen. Joe C. Lambert, will conduct the Third Army Mobilization Command Post Exercise (CEX), nickname "Roll Call", during March and April 1967. Gen. Lambert has been named by Lt. Gen. Louis W. Truman, Commanding General, Third US Army, Fort McPherson, Ga., as Deputy Director for the Exercise.

IV Corps is responsible for the administration and training support for all US Army Personnel and units within the Corps Area which includes the states of Alabama, Florida and Mississippi.

This exercise is one of a continuing series of exercises on mobiliza-

DR. COLBURN

(Continued From Page 1)

superiority of certain nitrogen flourine compounds in chemical propulsion.

His research resulted in the development of a previously unknown compound, tetrafluorohydrazine, and enabled an entirely new approach to providing chemical propulsion systems for Army missiles.

The high increase in specific impulse thus afforded, together with a far greater degree of efficiency in performance completely erased all doubts as to the superiority of U. S. missiles over those of other countries.

Dr. Colburn has been issued a patent number covering his discovery as a composition of matter as well as a process for manufacture.

tion and in no way implies actual or contemplated call-up or Reserve Component Forces.

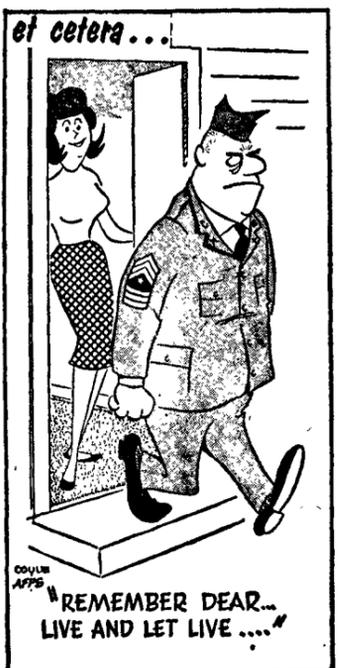
FUEL

(Continued From Page 1)

The Anniston Army Depot has been assigned to provide primary logistic support for the Lance missile system, a new surface-to-surface missile system developed by the Army Missile Command at Redstone Arsenal. Col. W. E. Mehlinger is Project Manager.

Awarding of the Contract was announced by Col. R. C. Marshall, Army district engineer at Mobile.

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SOCIAL ^{and} CLUB EVENTS

Officers Wives Club Helps Support American Indian

A little American Indian girl who has never seen Redstone Arsenal or any member of her sponsor, the Redstone Arsenal Officers Wives Club, is nevertheless very much aware that she remains a student in the Wahpeton Indian School at Wahpeton, N. D. through their help.

She is Sandra Mae Houle, a Chippewa, who has been partially supported by the Wives Club since she was ten. Now she is 13.

The Wives Club accomplished the adoption through the Christian Children's Fund, and each year after the Harvest Charity Ball, a percentage of the monies is set aside to be used for Sandra Mae. This year, they cleared \$729 on her behalf.

The Wives Club has other demands on goodwill and charity. Donations for needy families and other emergencies are brought to the attention of the Club's Post and Community Welfare chairman, Mrs. C. R. Cranford, Jr. Usually when the call comes, it is an emergency. Not all of the fund chairman's activities deal with welfare of the needy. Often some post activity needs the club's active support — and gets it!

NCO Wives Plan Election

The Redstone Non-Commissioned Officers Wives Club will hold their annual election of officers during a meeting tomorrow night in the Sportsman Club on the Arsenal. The meeting begins at 7:30 p.m. All members are urged to be present for the election.

Preparations are underway for installation of the 1967 officers on January 27.

Old Crows Meet Here

The Rebel Roost of the Association of Old Crows were hosts for the first time to National Officers Friday night at Redstone Arsenal.

The evening began with a dinner at Redstone Officers Open Mess and a welcome by the Director of Research and Development, Col. Nils M. Bengston, before it moved into secret session in a conference room to hear Navy Capt. Richard G. Wilson discuss Electronics Warfare in Today's Defense.

About 40 people attended the meeting — there were more at dinner. Among the guests were Danny Papp and Claude Pinson, National Directors.

Lloyd Root of the Research and Development Directorate for the Missile Command is Chairman of the Rebel Roost.

Electronics warfare for the most part is as classified as it was during World War II, and anti-jamming methods are only talked about behind closed doors with properly soundproofed walls and a need-to-know proof among the participants whether they are in industry or government.

Offer Boathandling Course

The Huntsville Power Squadron will begin registration for the United States Power Squadron free course in small boat handling on Jan. 12.

Registration will be in room 4 of the Naval Reserve Training Center at 7:30 p.m.

Wives Club To Sponsor Mardi Gras

The Redstone Officers Wives Club will hold a Mardi Gras ball on Feb. 4 in the Redstone Officers Open Mess with a costume theme of "Pages of History." The costumes will be judged.

The event begins at 6:30 p.m. with a social hour followed by a buffet dinner at 7:30 p.m. and dancing to start at 9 p.m.

Tickets are on sale in the business office of the Redstone Officers Open Mess.

Welcome And Farewell Set Jan. 27 At Mess

The Research and Development Directorate will host the quarterly Welcome and Farewell social Jan. 27 at 5 p.m. at the Redstone Officers Open Mess.

The event is a welcome for officers and wives who have arrived at Redstone for duty since October, and is a farewell for those who will be leaving from now until March. The events are informal.

Each organization is responsible for submitting the names of eligible honorees to Capt. K. D. Taylor, 877-2068 or Lt. H. E. Trout, 877-8596 by Jan. 18.

Archaeologists To Meet At Huntsville Library

Alabama Archaeological Society members will meet Jan. 17 at 7 p.m. in the conference room of the Huntsville Public Library.

Bob Tucker, a member of the State Board of Directors for the Society, will outline "An Introduction to Archaeology." Any one interested in archaeology or Indian artifacts will be welcome. Information about membership may be obtained from Bion Duncan, 534-0327.

IEEE To Hear Dr. F. A. Speer

Dr. F. A. Speer, Manager of the Mission Operations Office, Marshall Space Flight Center, will speak at the Jan. 11 meeting of the Institute of Electrical and Electronic Engineers, in the Redstone Officers Open Mess.

Dr. Speer's topic is "Operational Aspects of a Manned-Apollo Launch."

The meeting begins at 6 p.m. Dinner reservations can be made by calling 883-3661 or 883-3662. The meeting is open to interested non-members as well as guests.

Professor From Wisconsin To Speak At Local Meeting

Internationally renowned statistical expert, Dr. G. E. P. Box, will be the guest speaker for a joint meeting of the Huntsville Chapter, American Society of Quality Control, and the Alabama Chapter of the American Statistical Association, at the Officers Open Mess tomorrow evening.

Dr. Box will speak on "Design of Experiments" at the dinner meeting which opens with a social hour at 6:15. The speech will start at approximately 8:15.

Currently Dr. Box is professor and chairman of the Statistics Department at the University of Wisconsin and serves as a consultant to the Monsanto, Chemstrand, American Cyanamid and Arthur Little Companies.

He is a Fellow of the ASQC, the ASA, Royal Statistical Society, Institute of Mathematical Statistics, and is a member of the International Statistical Institute and the Biometrics Society.

The British scientist received his Ph. D., from the University of London. He served six years in the Royal Engineers of the British Army. In addition to his industrial experience, Dr. Box has served on the staffs of the University of North Carolina, Princeton University and Harvard University.

He has published 58 papers and has co-authored two text books in the field of statistics. He is probably best known for his part on the development of the optimization technique known as Evolutionary Operations.

Anyone in the fields of chemical engineering, design engineering, process engineering, quality assurance or reliability will find the talk technically rewarding and is cordially invited to attend.

Reservations may be obtained by calling Jerry Gibbs at 877-8598,

or Al Steinberg at 876-2905. Gibbs said that those persons who desire to attend for the talk only will be admitted at the conclusion of the dinner.

Mrs. Garrabrant Wins At Bridge

The Bridge Group sponsored by the Redstone Officers Wives Club on Thursdays had seven tables in play last week at the Redstone Officers Open Mess.

Mrs. Andy Garrabrant was the winner with Mrs. Charles Shields second, Mrs. Paul McDermott third, and Mrs. Roy Accardi low.

Gardeners To Study Terrariums, Birds

The Redstone Officers Wives Garden Club will meet from 9:30 a.m. until noon Tuesday at the Redstone Officers Open Mess when the program will be on terrariums and wild birds.

Reservations are not necessary. For further information about the meeting, call Mrs. Therman L. Richards, 877-5767.

RECEIVE AWARDS

Men of Army's 4th Infantry Div., 2nd Brigade, received awards from Premier of Vietnam Nguyen Cao Ky for actions in Operation Paul Revere IV. Topping list of awards was National Order Fifth Class Medal and Gallantry Cross with Palm presented to Maj. Gen. A. S. Collins Jr., division commander. Premier Ky presented 19 awards to men of the division.

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FREDERICK CARODINE (center), U.S. Army Missile Command employee, discusses a mathematics course he recently completed at the University of Alabama in Huntsville under the Missile Command's program for undergraduate and graduate level training. Carodine is a mathematician in the Test and Reliability Evaluation Laboratory of the Research and Development Directorate. He holds a BS degree from Alabama A&M College in Huntsville, and has done graduate work at California State Polytechnic College, San Luis Obispo, California. On the right is Carodine's supervisor, **James D. Waugh**, Chief, Data Analysis Section, Analytical Services Branch, and on the left is **John S. Hinkle**, Chief, Training and Development Division, Civilian Personnel Office.

DR. RALPH SWANN DIES AT RALEIGH

Ralph Swann 54, former technical director of the Ordnance Missile Laboratories at the Army Missile Command died last night in the Rex Hospital, Raleigh, N. C. He had been ill since early in December.

At the time of his death he was head of the Chemistry Department at North Carolina State University, Raleigh.

He came to Redstone in January 1953 and left in January 1960.

The remains will be cremated and a memorial service will be held Friday afternoon in the

Westminster Presbyterian Church, Raleigh. The family has asked that no flowers be sent. Those who wish may make a donation to the Chemistry Department Library at N. C. State to purchase books.

He is survived by his widow, Mrs. Winnie Swann of 2109 St. James Road, Raleigh, and three children, Randy, who is stationed with the Air Force in California, Mrs. Fuller Honeycutt, Chapel Hill, N. C. and Judith, a senior student at the Womens College of North Carolina at Greensboro.

Miniature Servo Actuator Will Aid Missile Accuracy

A new miniature servo actuator has been developed under a contract with the Army Missile Command by the Cleveland based Power Equipment Division of LSI. Prototypes will be evaluated by the Inertial Guidance and Control Laboratory of the Missile Command's Research and Development Directorate.

The servo unit is one of the smallest and most compact (fits in a 6-inch diameter envelope) electromechanical fin servos ever developed for guided missile application. Each actuator moves one of four fins on the missile to control its flight trajectory. The high level of accuracy and instant response time provided by the new unit offer new horizons for the smaller family of guided Missiles.

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Joint Symposium Scheduled On New Uses Of Computers

New uses of computer graphics in design and engineering will be highlighted at a joint Army Missile Command-Marshall Space Flight Center Symposium to be held in March.

Some 400 local engineers and scientists will be invited to take

part in the three day meeting from March 1 to 3.

Headline speakers announced so far include Prof. Steven A. Coons of Massachusetts Institute of Technology; Dr. Sullivan Campbell, vice president of Xerox Corporation; and W. L. Frank of Informatics, Inc.

Three major categories will be emphasized on the program:

Nationally-renowned scientist who spurred the breakthrough in new techniques which permit man-machine communications;

Engineers who are developing hardware and software necessary to apply the new techniques;

And pioneers in the development of applications.

One of the features of the symposium will be a day of displays and clinics conducted by manufacturers and service companies.

Co-chairmen of the Steering Committee for the Symposium are Dr. Helmut Hoelzer, Chief of the MSFC Computation Laboratory and Horace Lowers, Chief Engineer of the Missile Command.

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Early Record No Surprise To Coach

Bill Flynn and Bob Murphy are typical athletic coaches — they think their team is "number one." Flynn and Murphy are organizer and coach respectively of the Headquarters Company, STC basketball team.

They began bragging about their team long before the company-level season started at Redstone Arsenal in late November. They're still bragging — but now people are listening as Headquarters Company has powered to a 7-0 record to lead the "A" division of the 13-team league.

Flynn, a 6'5" ball-hawking center, doesn't pinpoint the reason for the team's early success. He claims they have what all coaches dream of — excellent overall balance. He said: "They can shoot, run and rebound."

The league leaders' won't be able to rest on their early laurels however. Breathing down their neck is Headquarters Company, Directorate of Arsenal Support Activities, who in turn are closely followed by the 6th and 2nd ETC's.

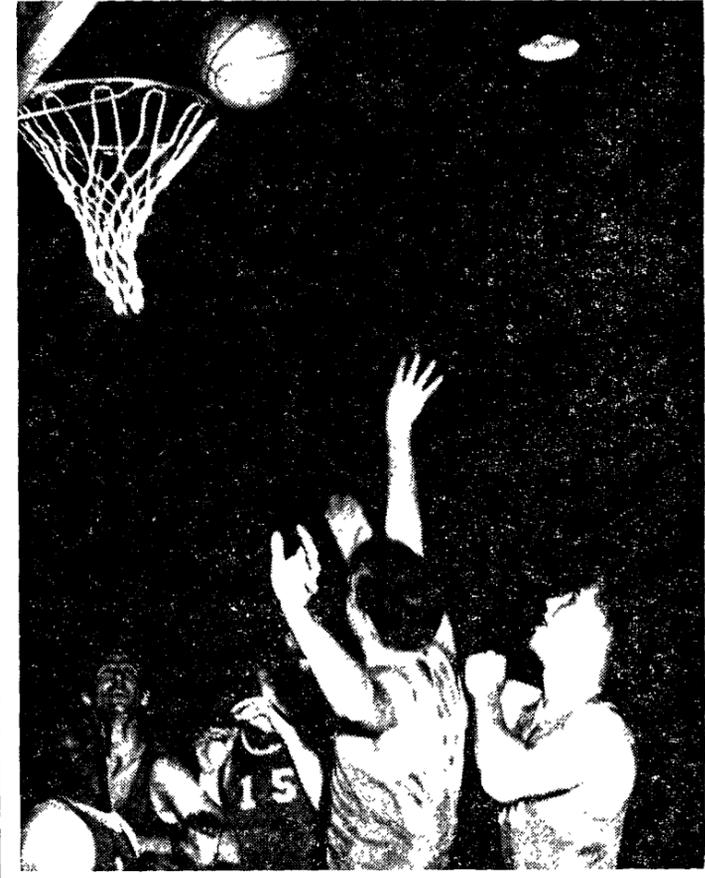
The 3rd and 7th ETC's along with A Company STC are leading in the "B" Division with 4-2 records. The league was divided into two divisions for scheduling purposes.

All teams will play an 18-game schedule concluding in February. A double elimination tournament matching the top three teams of each division is slated to commence February 21st.

Three games are played nightly, Monday through Thursday, starting at 6:00 p.m. in the Post gym.

"A" Division
 HHC STC
 HHC DASO
 6th ETC
 2nd ETC
 291st MP
 5th ETC
 1st ETC
 "B" Division
 3rd ETC
 7th ETC

7-0
 5-2
 3-3
 3-4
 2-4
 2-4
 1-5
 3-3
 4-2
 4-2
 4-2



DRIVES FOR LAYUP—Tom Swan, 7th Enlisted Training Company, scores on a first quarter layup as the Student Officer's Allen Miles, (23) desperately tries to block the shot in Thursday night basketball action at the Post Gym. Paced by guard Wayne Belew's 15 points, the 7th ETC went on to a 60-52 victory over the student officers which moved them into a first place tie in the 'B' Division.

Fogel Top Gunner In MMCS Action

A three out of four win over the Rocket Rollers boosted the Rounders into a three point lead in the MMCS Officers bowling league. The second place Black Jacks, trailing by a single point

Co. A STC 4-2
 Student Offs 3-3
 4th ETC 2-4
 8th ETC 0-6

going into last week's action, dropped three to the Bad Gnu's.

Two more 3 to 1 wins by the Swags and the Squirrel Hill Mob over the Hubs and the Satellites respectively, completed the weekly card.

Milt Fogel was the top gunner in the leader's attack and he grabbed all of the individual honors for the evening. Fogel shot a 231 game in the middle game of a 547 series.

Ed Olson was runner up with a 212 game and 541 set for the Mob while Karl Pasch led the Swags with a 533. Tom Wilkerson totaled 521 and Don Davis had a 210 game also for the Swags.

Faulkner Barnes Added To Civilian Honor Roll

Bramblets jumped over Banner TV last week in the Field Services League while the Ramblers saw their once imposing lead in the AMC League almost wiped out as the two civilian bowling leagues got back to business after a two-week holiday layoff.

The new Field Services leaders moved into a narrow half point lead by taking all four points in their match with the Misfits while the TV men were winning three out of four from the Keglers.

Ralph Sturgill led the new leaders with a 582 total, one pin better than his team mate, Jack Bailey, Bob Adams shot a 579 in leading the Banner five and Bill Lazewicz accounted for 561 more.

Individual honors for the evening were claimed by Troy Faulkner of the Crackers. He had

games of 203 and 227 in turning in a 623 Honor Roll count as his team downed 3003 sticks and won three out of four from the Guided Muscles.

Another hot Cracker shooter was Sam Boda who fired a 234 game and a 563 series.

The Expeditors showed up with a tough one-two punch of their own in Bon Sevingy and Al Sarge but it wasn't enough to stave off a sweep that was dealt out by the Loeb Barbecue five. Sevingy totaled 564, one more than Sarge.

Nate Barnes was down almost a hundred pins from his last previous outing for Baker Realty but still accounted for 553. He put together games of 221, 244 and 180 for a rousing 645 just before the layoff.

The Bombers almost got back at the Ramblers for an earlier sweep but settled for three out of four to move within a point and a half of the season-long leaders in the AMC loop.

Dick Gore did his best to keep the Ramblers rolling with a 551 while Tom Smith had a little better luck with his 533 for the Bombers.

Hugh Fees was runner up among the league individuals with a 537 for the Skippers as that team took all four from the Panthers. The only other clean sweep win of the evening was the Tigers whitewash of the TOW Boys. Dick Nutt was the chief instigator of the Tiger attack with a 533.

Angels Threaten Lead Of Spares

The Angels took a long stride toward catching the Rare Spares in the Thursday Morning Ladies league last week by taking all four points from the Do Nothings while the leaders were being held to a split by the Queen Pins.

In sweeping their set the Angels cut their deficit to two points and broke out of a second place tie with the Bowling Bags, a 3 to 1 loser to the Tipsters. The final match ended in a 3 to 1 win for the Splatter Pins at the expense of the Four Hopefuls.

Erna Metcalf set the pace for the Angel surge toward the top with a 198 game and a 536 series. Inge McCool topped the Do Nothings with 453.

The Queen Pin attack was led by Martha Trump with a 483 series and Peggy Campbell, who shot a 178 game. Mary Cramer led the Spares with 455.

Mercy Villanueva was the league runner up with a 495 for the Tipsters and Ann Wiener tossed a 435 set for the Hopefuls.

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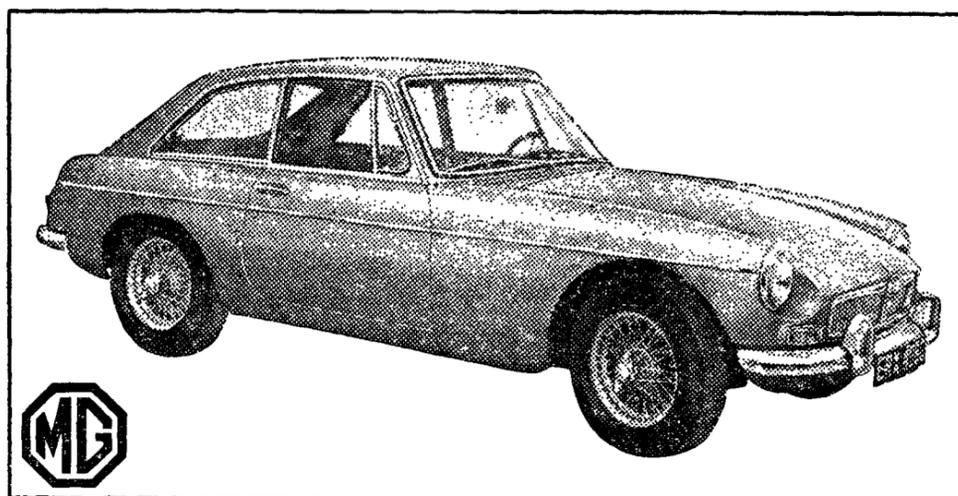
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CWF Basketball Season Underway

Supply and Maintenance got away fast and then held on to a 42-30 defeat on Logistics as the Civilian Welfare Fund basketball league got underway with a triple header at Councill Junior High last Thursday.

Finance and Accounting took the measure of the Metrology Lab, 53-31, and Data Processing handed the Computation Lab a 30-24 setback to complete the opening night card.

Four more quintets will break into action this week in the first civilian league in several years at Redstone. Three games are scheduled for each Monday and Thursday night with the single round of play continuing until February 23.

With Bill Bentley and Les Cunningham leading the way, the S & M five jumped off to an early 12-2 lead and was ahead 23-15 at the half. Bentley and Cunningham each tossed in 11 tallies for the winners while Al Maddox hit for 10 in the losing cause.

The Accountants indicated that they are going to present a high scoring attack for the rest of the league to contend with in racing to their win over Metrology.

Leading only 24-20 at the half, F & A broke the game open with 12 straight points as the second half got underway. Charlie Williams was the top scorer with 22 points, Danny Franklin hit for an even dozen and Elliott Agee added 10 more. Jim Parker led the

Metrology five with 9 points.

Ted Davis was the only one to hit in double figures in the final game as he led Data Processing to their win with 10 points while Dave Sellers was high for the Computation Lab with six.

Two Scouts Earn Eagle Award Here

Guy Fogel and John Hunt received Eagle Awards in the Court of Honor ceremony for Boy Scout Troop 308 at Redstone Arsenal.

Guy Fogel joined Scouting as a tenderfoot in 1962. He has earned his Life Guard badge, been a Den Chief, and was elected to the Kasanampo Lodge of the Order of the Arrow. Guy has participated in 15 conservation and Service projects, completed 93 days and nights of camping, and earned 26 merit badges.

John Hunt joined scouting at Redstone Arsenal in 1963 with Troop 203. He has completed his Star Rank, completed the Chickasaw District Junior Leaders Training Program, and earned his Life Scout.

Four times he has been elected to the office of assistant and Patrol Leader. John has participated in 13 conservation and Service projects, completed 35 days and nights of scout camping, and earned 22 merit badges.

Guy is the son of LTC and Mrs. William H. Fogel, and John is the son of SFC and Mrs. John J. Hunt.

Saturn, Strikes Sweep Into Lead

Picking up where they left off before the Christmas layoff, the Saturn bowlers opened the second half of the A-B-C Officers league with a four-for-four sweep over the War Hawks last week.

Saturn grabbed the first half title of the league race on the last night before the holiday, The Lucky Strikes also scored a sweep over the Pin Splitters, while the Wheezers and the Mixers won three apiece from the Hopefuls and the Black Jacks.

Trev Dumitru set the Saturn pace for their sweep with a 529 while Don Vanderheyden led the Strikers to their win with a 574. Tommy Thompson shot a 515 for the same team and Ray DeBolt chipped in with a 514.

The league's top scorer for the week was Bill Steinebach who shot a 576 series in leading the Wheezers against the Hopefuls. Tom Ellis helped the cause along with a 518.

The Mixers took their lead from Jerry Keefe with a 517 and Mill Jones, who ended with one less pin.



Capt. Earle Goes To School

PROMOTED, TRANSFERRED—Captain's bars and an unusual new assignment arrived simultaneously for George L. Earle, (center) for the past year the assistant information officer at the Army Missile and Munitions Center and School, Redstone Arsenal, Ala. Here Mrs. Earle and Col. Erwin M. Graham, commandant, pin on new insignia. The new captain is to head a 10-man public information detachment of news writers, photographers and broadcasters being activated at the Defense Information School, Fort Benjamin Harrison, Ind. The Army will send such PIO detachments to assist news correspondents in covering fast-breaking developments in Vietnam and elsewhere. A 1962 journalism graduate of Texas A. and M. University, Capt. Earle was commissioned in the Reserve Officers Training Corps and qualified as a missile instructor before assignment as an information officer. His mother, Mrs. George T. Earle, resides at Rte. 1, Humble, Texas.

Bowler Ruined By Too Many Maples

It isn't very often that a bowler knocks down too many pins but that was the fate of Will Wigham in the Comp Center league last week.

Will would have had a 191 triplicate except for one extra stick that toppled in the middle game. As it was he ended the evening with a 574 in leading the Skunks to a clean sweep win over the Alley Cats.

The league-leading All Sports Trophies stayed three points out ahead of the Skunks by winning three out of four from the Bad Gnus as Bobby Todd hit an even 500 and Peggy Rousseau topped the league's women with 458.

Bobby Beal shot a 205 and ended a distant runner up for individual honors with a 529 as the Spares took three from the Squares. Hershel Straw equalled Beal's single game effort for the losers.

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It's Never Too Late To Learn Some More

Redstone civilians will scatter across the country next week for the purpose of attending off-post training courses being offered by contractor plants and military installations in eight states and the District of Columbia.

Twenty-four Missile Command and Nike-X employees are enrolled for the graduate level training



NEW YEAR RESOLUTION—SGM Charles L. Sutey, Chief Signal NCO, resolved on New Years Day, 1967 to remain in the Army for three more years. With 23 years already on record, SGM Sutey began the New Year with a resolution and an oath, administered by the Assistant for Communications in the Army Missile Support Directorate.

through the Command's career development program. The program is administered by the Training and Development Division of Civilian personnel.

Several of the civilians will take their training here at the Arsenal or in Huntsville. Included are two R & D workers who will attend the Tustin Institute of Technology for Vibration Test Theory and Practise. They are Jimmy Merrell and John Jernigan.

Gus Caras and Maurice Graham (R & D), Julian Ross (Nike-X) and Vail Miller, (Qual & Rel) are enrolled for The Application of Statistics to Engineering Experiments at the Huntsville Campus of the University of Alabama.

John Hudson (S & M) will take the Combat Missile System Repair course at the Missile and Munitions Center and School.

Ethel Morgan (R & D) will study Logic Design at RCA Institute in New York City, and Phillip Welch (P & P) will be at the Naval Training Device Center, in Orlando, Fla., for the DOD Small Purchase course.

Six of the locals will go to Rock Island, Ill., for classes at the U. S. Army Management Engineering Training Agency.

Cecil Ogren (Nike-X) will take

Principles and Application of Value Engineering and Alf Larsen (P & P) is enrolled for Quality Assurance Appreciation.

The other four, John Tyson (DASO), Wickliffe Hendry, (Nike-X), Herbert Kelley (P & P) and Warren Sockwell (R & D) will attend the Top Management Seminar.

Kenneth Lenhard and Joe Holder (Civ Pers) are enrolled for Advanced Position and Pay Management with the Deputy Chief of Staff for Personnel in Baltimore, and Mildred Mohr, Ruby Flynn and Joseph Ferrell (Civ Pers) will take Recruitment and placement being offered by the same agency in Dallas.

Francis Hart (Inst & Svs) will go to Las Vegas, Nev., for the Occupational Radiation Protection course at the Southwestern Radiological Health Laboratory.

Joseph Bennett (Comp Ctr) is enrolled for the Defense Data Managers course at Wright-Patterson AF Base, Ohio.

Charles Bell and John McDade (P & P) and George Woodward (S & M) will spend the week in Washington where they will take the Defense Procurement Executive Refresher course offered by the Naval Materiel agency.



CONGRATULATIONS—Carl A. Pinyerd, left, Deputy to the Pershing Project Manager at the Army Missile Command, receives the Civilian Meritorious Service award for his service as deputy and acting Project Manager in the Pershing Project Office. The citation and medal were presented by Brig. Gen. E. I. Donley who has just left his position as Missile Command Deputy Commanding General, Land Combat Systems for assignment in St. Louis. Pinyerd has been working for the Army at Redstone since 1953.

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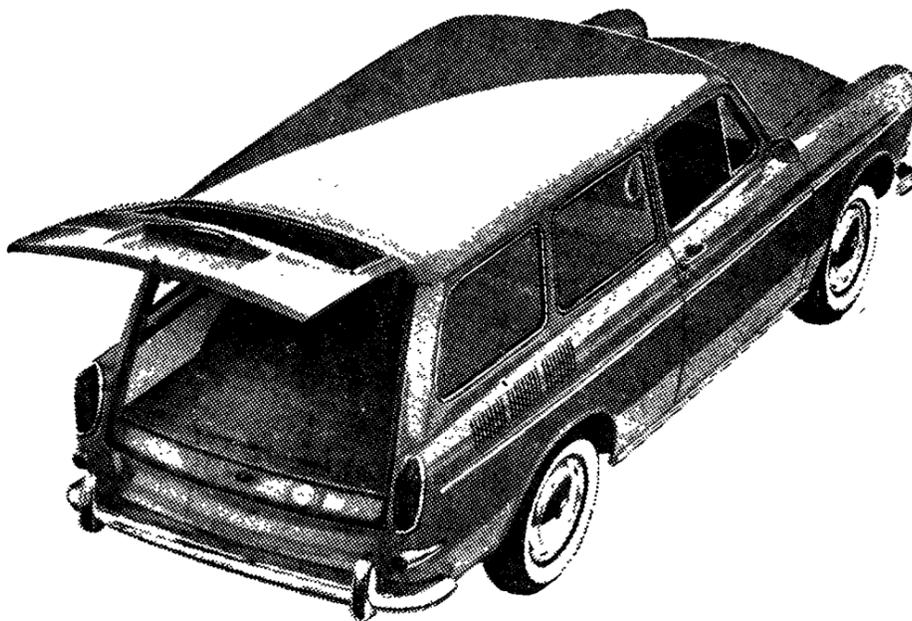
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SAM-D May Be Joint Development Effort

The Redstone Rocket — January 11, 1967 Page 9

EDITOR'S NOTE: This is one of a series of updated facts about the Army's missile arsenal and the missiles still in the research stage of development that promise to strengthen the Nation's defense capabilities. Improvements, modifications and even silhouettes change the capabilities and increase the accuracy of this arsenal as technology advances. Department of Defense has approved each of these facts for public release.

TYPE: Surface-to-air;
 SPEED: Supersonic;
 PROPULSION SYSTEM: Solid propellant, single stage;
 GUIDANCE SYSTEM: Command and semiactive homing;
 WARHEAD: Nuclear or conventional;
 STATUS: Under development;
 WEAPON SYSTEM MANAGER: Col. Edward M. Dooley, SAM-D Project Manager, U. S. Army Missile Command;
 SAM-D (Surface-to-Air Missile—Development) is a new air defense missile system under development by the U. S. Army with Navy participation.

It is designed for battlefield and continental air defense role in the 1970's, against low, medium and high flying aircraft and short range missiles.

Development is proceeding toward a weapon system that will be fully acceptable for the Army and will contain components of a

system that could measure up to the environmental conditions found aboard a ship at sea.

Plans are for SAM-D to eventually replace the Nike Hercules and a portion of the Hawk air defense systems, both deployed in the United States and overseas.

A SAM-D battery in the field will be a highly mobile firing unit mounted on either tracked or wheeled vehicles. Mobile launchers each will carry several of the

single-stage, solid-propellant missiles in launching-shipping containers. A multifunction phased array radar will perform all of the functions for which several radars have been required in other missile systems. Under normal operations, a single radar will detect targets, track the targets, and then issue guidance commands to the defense missiles in flight. A Battery Control Center will coordinate firing operations within

the battery and serve as a communication center.

Preliminary development of components for SAM-D has been going on since 1964, with two contractor teams, one headed by Hughes Aircraft Company and the other by Radio Corporation of America, doing the work. Several contractors will be asked for proposals to develop the missile sys-

tem when SAM-D goes into a Contract Definition Phase.

The SAM-D Project Office, responsible for technical supervision of the System, is located at the Army Missile Command, Redstone Arsenal, Ala. Col. Edward M. Dooley is Project Manager. His two deputies are Navy Capt. William A. Arthur and Charles A. Cockrell, representing the Army.

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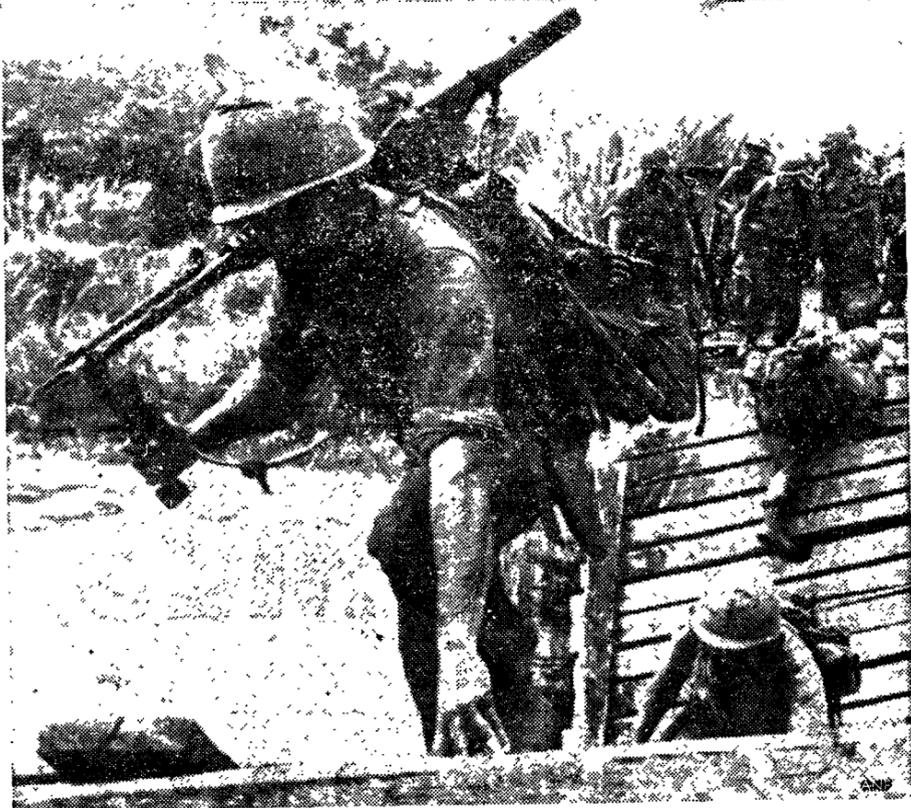
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RESCUED AIRMAN—These C-123 crewmembers meet Maj. Joe Robertson, right, the search chief who directed their successful rescue within 25 minutes after their Provider was downed by ground fire in the Iron Triangle northwest of Saigon. The crewmembers, left to right, are SSgt. Hlijah R. Winstead, Capt. Thomas Davie, and Capt. Joseph Dougharty.

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 WED., Jan. 11
 "Boeing Boeing" (M)
 THUR.-FRI., Jan. 12-13
 "The Defector" (M-YP)
 SAT., Jan. 14
 "Carry on Spying" (F)
 SUN.-MON., Jan. 15-16
 "Return of the Seven" (M-YP)
 TUE., Jan. 17
 "40 Guns to Apache Pass" (F)
 Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.
 Theater No. 2
 FRI., Jan. 13
 "Return of the Seven" (M-YP)
 SUN., Jan. 15
 "The Defector" (M-YP)
 TUE., Jan. 17
 "Modesty Blaise" (M)
 One show only at 7:00 p.m.

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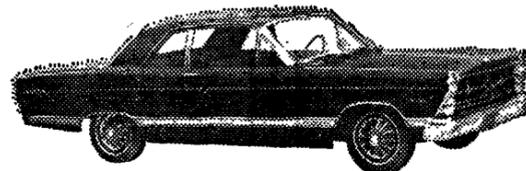


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TOW Missile Developed For Use By Infantry

TOW Missile Facts

EDITOR'S NOTE: This is one of a series of updated facts about the Army's missile arsenal and the missiles still in the research stage of development that promise to strengthen the Nation's defense capabilities. Improvements, modifications and even silhouettes change the capabilities and increase the accuracy of this arsenal as technology advances. Department of Defense has approved each of these facts for public release.

Tube-launched, Optically-tracked, Wire-guided anti-tank missile system)
MILITARY DESIGNATION: (Missile) XM-71-A, (Launcher) XM-151;
TYPE: Surface-to-surface;
TRAJECTORY: Boost-coast-boost;
GUIDANCE: Wire command link;
PROPULSION: Two-stage solid propellant;
WEAPON SYSTEM MANAGER: Col. James N. Lothrop, TOW Project Manager, U. S. Army Missile Command;
PRIME CONTRACTOR: Hughes Aircraft Company, Culver City, Calif.
 Tow is being developed for use by the infantryman as a heavy anti-tank assault weapon system. Combining a lethal warhead with high accuracy at both close and long ranges, TOW will be effective against both stationary and moving targets.
 Weighing about 160 pounds, TOW may be carried by troops and fired from a ground emplacement.



The system can be broken down into units for easy handling. Or it may be mounted on a variety of vehicles, including personnel carriers and helicopters.
 In operation, the gunner ob-

tains a telescopic sight picture of a target, then launches the missile which follows his line of sight. For moving targets, the gunner tracks the target with his sight, thus generating signals that correct the missile's course.

Now in advanced development, TOW uses two solid propellant motors. One ejects the missile from the launcher. To insure safety for the gunner, the missile coasts for a short period after leaving the launcher before the second rocket motor is fired.

Inclosed in its carrying case like a round of ammunition, the missile is never visible to the gun crew and is loaded with the container into the breech of the launcher.

Hughes Aircraft Company is prime contractor for TOW.
 The TOW system is managed by

the U. S. Army Missile Command, Col. James N. Lothrop, Project at Redstone Arsenal, Ala., under Manager.

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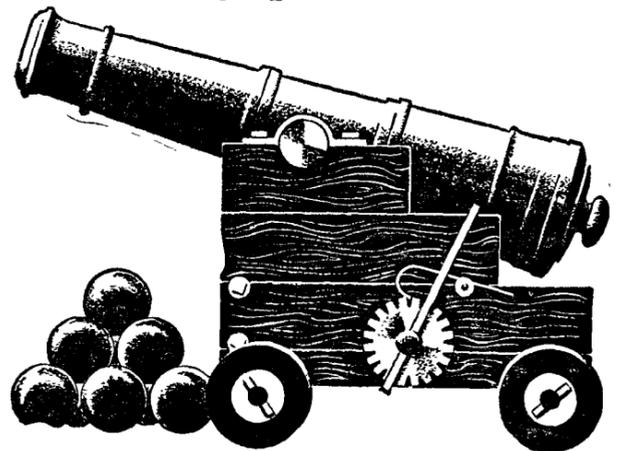
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TEAM WORK FOR IMPROVED OPERATIONS—Earl Clower and Peggy Willingham put their heads together to work on another idea that will improve the operations and decrease the costs in the Data Processing Office of Supply and Maintenance. The two data processing programmers have had two suggestions adopted for use during the past year saving almost \$90,000 and have split awards totaling \$1,420 for their efforts.

Programmers Cash Ideas, Save Money For Army

Operating on the theory that "two heads are better than one," a pair of data processing programmers in the Supply and Maintenance Directorate cashed in their second large suggestion award in less than a year last week.

The team of Peggy Willingham and Earl Clower pooled their knowledge of computer techniques in proposing improved procedures which have netted savings to the Army of almost \$90,000 during 1966. They have shared equally in awards totaling \$1420 for their lucrative ideas.

Early in the year the two split a \$350 award for a suggestion dealing with procedures for maintaining macro control cards. Adoption of the proposal resulted in first year savings estimated at \$5,000.

The second joint effort was even more rewarding for the Wil-

lingham-Clower team and enabled the Data Processing Office to realize far greater savings.

Each received a check for \$535 for suggesting a change in the control of computer sorts when processing the Maser system. They proposed a conversion from disk sorting to tape sorting when the former's capacity is exceeded.

The tangible savings to be realized from adoption of the second suggestion is estimated at \$83,700.

"And we're not through yet, either," commented Clower. "We have submitted another idea for an improvement in operations and are kicking around a couple more promising ideas."

Clower is a veteran of 15 years in the data processing business. He came to the Missile Command two years ago after having worked for the Air Force in Memphis and New Orleans.

All of Miss Willingham's computer experience has been gained with the Data Processing Office of Supply and Maintenance. She was employed as an EDP trainee in 1960 and has progressed rapidly to her programmer position.

"I guess we are lucky to be in the computer field," Peggy said after cashing in on her only two suggestion proposals. Her partner had three earlier suggestions

Captain Suggests Continued Study

Graduates of the U. S. Army Missile & Munitions Center & School Friday were told that they should regard their training as "a guide post, not a hitching post."

Captain James E. Taylor, branch chief of the Ammunition Maintenance Branch, Technical Ammunition Division, told 33 graduates,

adopted by the Air Force.

"Data processing is still a relatively new field," she added, "and the operating procedures are more flexible than in other areas. This gives programmers a greater opportunity to suggest changes."

that "Your abilities acquired through formal training will be taken for granted. You must prove that the money, time, and effort devoted here, in the past weeks, is a distinct asset to America's arsenal of democracy.

"The fact that you have been training in one particular field of endeavor does not mean that you will not be required to learn other skills. The knowledge that you have recently acquired should be the beginning. . . not the end."

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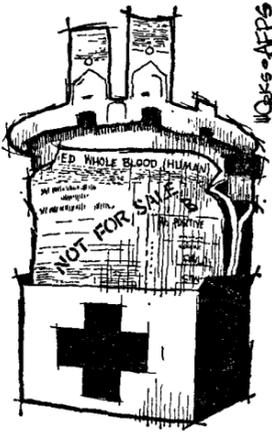
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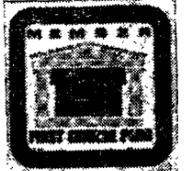
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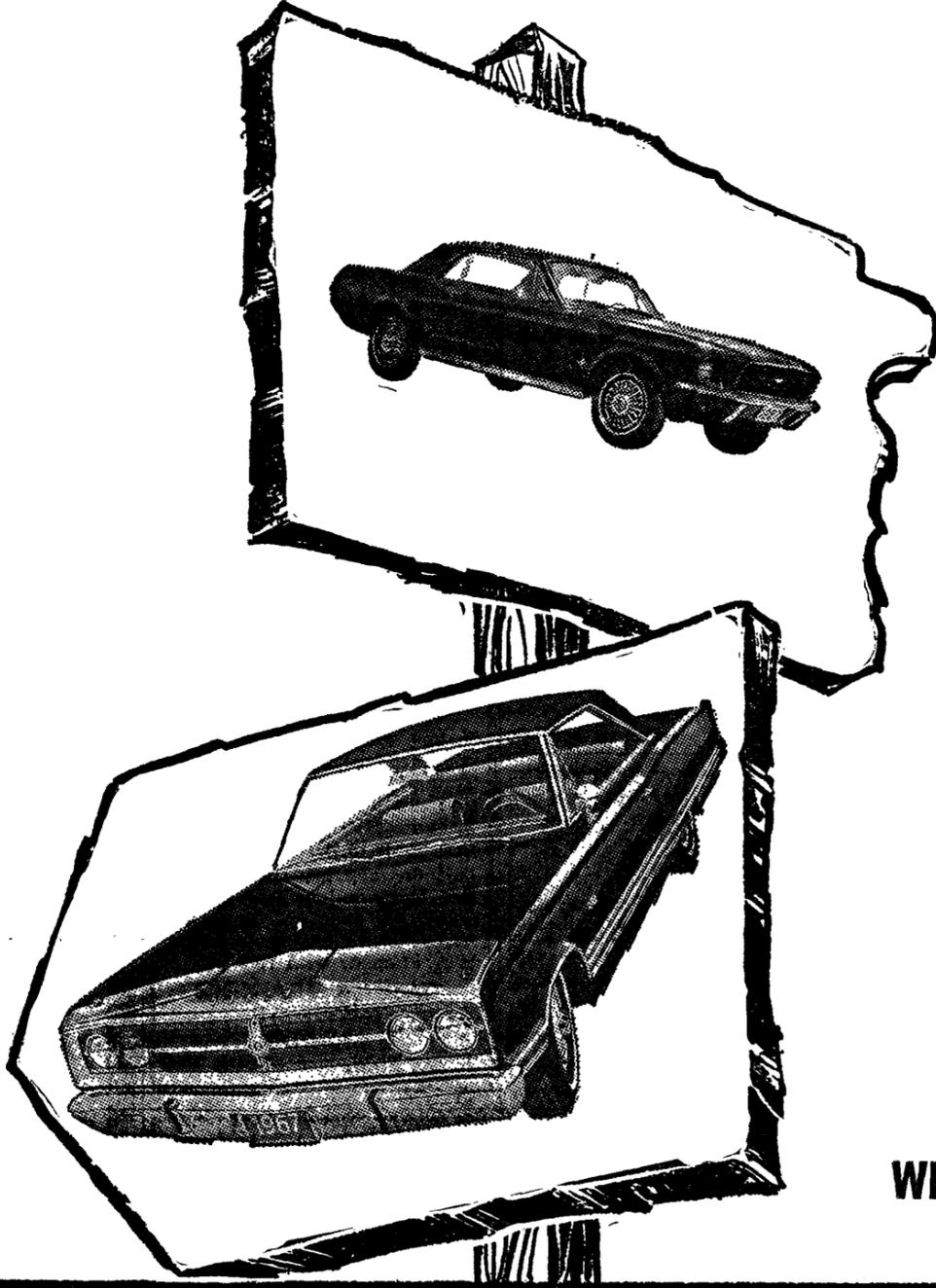
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Page 14 The Redstone Rocket — January 11, 1967

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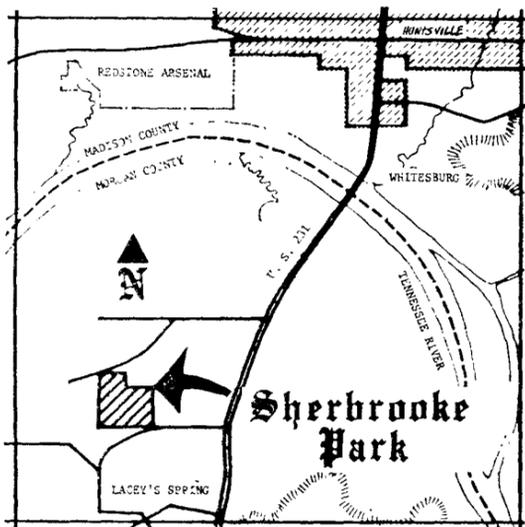
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After 28 Years, Barrineau Retires From CS

Charles L. Barrineau, a 28-year career personnel officer, has retired from Federal Civil Service at the U. S. Army Missile Command.

Barrineau started his career in 1938 at now defunct Ft. Barrancas near Pensacola, Fla. When the base was deactivated, he moved to Milan, Tenn. to work at the Arsenal there. Sixteen years ago he took his first position here as chief of the Employee Utilization Division for Redstone Arsenal.

During the various changes in programming and management at this missile and rocket center, Barrineau's job title has changed. He has been Deputy Civilian Personnel Officer and Chief.

Barrineau finds coincidence is a prankster with benign intent. For 19 of his 28 years, Barrineau has worked for Maj. Gen. John G. Zierdt, the Commanding General at the Missile Command. When they first met the General was a Lieutenant Colonel commanding Milan Arsenal. Later he was Chief



CHARLES L. BARRINEAU

of Staff and Commanding General of the Army Rocket and Guided Missile Agency here. He had a tour in Washington, D. C., before returning to the Missile Command. The General presented a commendation to Barrineau on his retirement.

Mr. and Mrs. Barrineau can almost pick their climate with a visit to one of their three children: twin sons, one living in Dallas, Texas, and the other at

Pensacola, and a daughter in Greenwich, Connecticut. They will continue to make their home in Huntsville.

Col. Whittemore Heads Ammunition Department

Col. K. S. Whittemore Jr. has assumed the Directorship of the U. S. Army Missile & Munitions Center & School's Ammunition Department.



COL. K. S. WHITTEMORE

A veteran of 24 years service, he came to MMCS from the Republic of Viet Nam where he was the Commander of the 29th G. S. Group. Col. Whittemore has served in varied assignments including duty as a Maintenance Service Officer in the European Theatre during World War II; as Service Company Commander, European Command; as Brigade Ordnance Officer in Korea, and as the Ordnance Supply Advisor, Ordnance Division, MAAG-Taiwan.

He has a Bachelor of Science degree from Oklahoma State University and has attended the Ordnance School, the U. S. Army Command and General Staff College, the Military Assistance Institute, and the Armor School.

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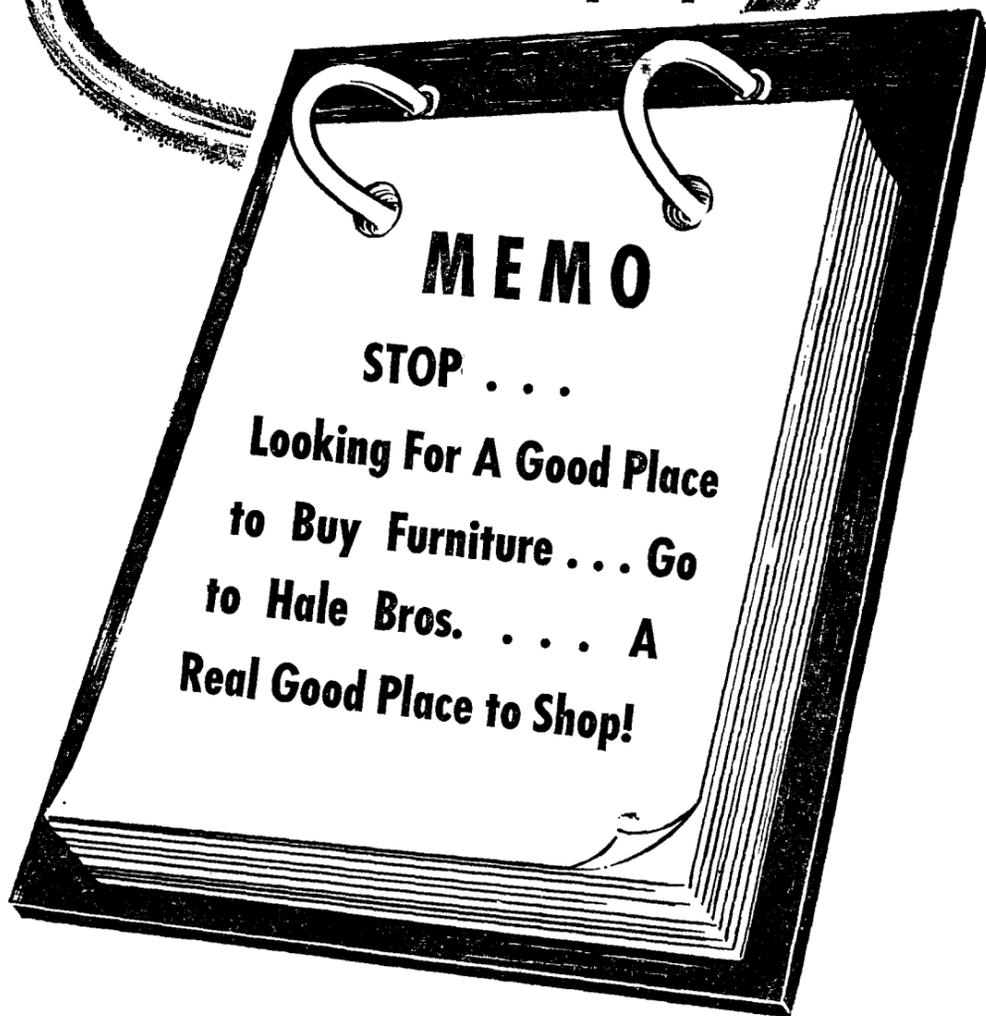
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Accounting Techn (Cost Acct) GS-525-7	GS-525-7	K
Administrative Officer, GS-341-9	GS-341-9	K
Architect, Supv., GS-808-11	GS-808-11	O
Architect, GS-808-11	GS-808-11	O
Auditor, GS-510-11	GS-510-11	K, A, O
Auditor, GS-510-9	GS-510-9	Vietnam, I, O, G
Biologist, NM-401-12	NM-401-12	CZ
Budget Analyst, GS-560-11	GS-560-11	K
Budget Officer, GS-560-11	GS-560-11	G
Budget & Acctg Analyst, GS-504-9	GS-504-9	K
Cartographer, GS-1370-9	GS-1370-9	Bogota, Col
Civil Engineer, GS-810-12	GS-810-12	H, O, K
Civil Engineer, GS-810-13	GS-810-13	Thailand
Civil Engineer, GS-810-11	GS-810-11	K
Civil Engineer, GS-810-9	GS-810-9	K
Civil Engineer, GS-810-7	GS-810-7	O
Central Off Tele Equip Inst Fmn, S-2502-8	S-2502-8	Vietnam
Communications Spec (Gen), GS-393-12	GS-393-12	Vietnam, O
Communications Specialist, GS-393-11	GS-393-11	O
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Communications Spec (Tele) GS-393-11	GS-393-11	O
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Computer Programmer, GS-334-11	GS-334-11	G
Computer Programmer, GS-334-9	GS-334-9	K, O
Contract Price Analyst, GS-1102-9	GS-1102-9	K
Contract Specialist, GS-1102-11	GS-1102-11	Taiwan
Contract Specialist, GS-1102-9	GS-1102-9	J
Crypto Equip Inst & Rep Ld Fmn, WS-2513-6	WS-2513-6	K
Digital Computer Systems Admn, GS-330-12	GS-330-12	G
Digital Computer Programmer, GS-331-9	GS-331-9	G
Digital Computer Systems Oper, GS-332-5	GS-332-5	G
Distribution Facilities Spec, GS-2030-12	GS-2030-12	Vietnam
Education Officer, GS-1710-12	GS-1710-12	K, O
Education Officer, GS-1710-11	GS-1710-11	K
Education Officer, GS-1710-9	GS-1710-9	G
Educ Spec (Religious Educ) GS-1710-9	GS-1710-9	K
Electrical Engineer (Gen) GS-850-12	GS-850-12	H
Electrical Engineer (Util) GS-850-12	GS-850-12	K
Electrician (Power Plant) M-2808-11	M-2808-11	CZ
Electronic Engineer (Gen) GS-855-12	GS-855-12	O, H, Thailand
Electronic Engineer, GS-855-12	GS-855-12	Thailand
Electronic Engineer, Supv, GS-855-12	GS-855-12	G
Electronic Engineer (Gen) GS-855-11	GS-855-11	H
Electronic Engineer, GS-855-9	GS-855-9	G
Electronic Technician, GS-856-11	GS-856-11	O, G
Electronic Techn (Wire) GS-856-11	GS-856-11	O
Electronic Technician (Gen) GS-856-9	GS-856-9	K
Electronic Technician (Instru) GS-856-11	GS-856-11	K
Employee Development Officer, GS-235-11	GS-235-11	Vietnam
Entomologist, GS-414-12	GS-414-12	Vietnam
Estimator (Gen) GS-1601-11	GS-1601-11	Vietnam
Equip Spec (Aircraft), Supv, GS-1670-12	GS-1670-12	G
Equip Spec (Electronic) GS-1670-12	GS-1670-12	H
Equip Spec (Electronic) GS-1670-11	GS-1670-11	G
Equip Spec (Machinery) GS-1670-12	GS-1670-12	J
Equipment Specialist (Gen) GS-1670-12	GS-1670-12	K
Equip Spec (Aircraft) GS-1670-11	GS-1670-11	K
Equipment Specialist (Gen) GS-1670-11	GS-1670-11	K
Equipment Specialist (Ord) GS-1670-11	GS-1670-11	K
Equip Spec (Railroad) GS-1670-9	GS-1670-9	G
Facility Manager, GS-1601-11	GS-1601-11	C
Fiscal Accountant, GS-501-11	GS-501-11	F
Foreign Info Off (Audio) GS-1085-11	GS-1085-11	K
Freight Rate Spec, Supv, GS-2131-7	GS-2131-7	A
Gen Commodity Quality Control Repr, GS-1901-10	GS-1901-10	Taiwan
General Engineer, Supv, GS-801-12	GS-801-12	K
General Engineer, Supv, GS-801-11	GS-801-11	I
General Engineer, GS-801-12	GS-801-12	K
General Engineer, GS-801-11	GS-801-11	Vietnam
General Supply Supv, GS-2001-8	GS-2001-8	G
General Supply Specialist, GS-2001-11	GS-2001-11	G, Vietnam
General Supply Assistant, GS-2001-7	GS-2001-7	K
General Supply Specialist, GS-2001-7	GS-2001-7	K
Geodetic Technician, NM-1374-5	NM-1374-5	CZ
Historian, GS-170-9	GS-170-9	K
Industrial Engineer, Supv, GS-896-12	GS-896-12	O
Industrial Spec (Gen), Supv, GS-1150-12	GS-1150-12	J
Industrial Engineer, GS-896-12	GS-896-12	H
Industrial Specialist (Gen) GS-1150-11	GS-1150-11	J
Industrial Specialist (Gen) GS-1150-9	GS-1150-9	Vietnam
Installation Service Spec, GS-301-11	GS-301-11	O
Laundry Plant Manager, GS-1658-10	GS-1658-10	H
Logistic Specialist, GS-301-9	GS-301-9	T
Management Analyst, Supv, GS-343-12	GS-343-12	O
Management Analysis Officer, GS-343-12	GS-343-12	A
Management Analysis Officer, GS-343-11	GS-343-11	O
Management Analyst, GS-343-11	GS-343-11	O
Management Analyst, GS-343-11	GS-343-11	K, O
Management Analyst, GS-343-9	GS-343-9	K, A, J, O
Management Analyst (MURC) GS-343-9	GS-343-9	G
Management Technician, GS-344-8	GS-344-8	K
Management Technician, GS-344-7	GS-344-7	K
Mechanical Engineer, GS-830-11	GS-830-11	H
Military Personnel Analyst, GS-301-11	GS-301-11	Vietnam
Mobile Industrial Equip Insp Fmn, WS-5801-9	WS-5801-9	G
Operating Accountant, Supv, GS-510-11	GS-510-11	H
Operating Accountant, GS-510-9	GS-510-9	H
Packing & Processing Gen Fmn, S-7001-9	S-7001-9	J
Packing & Processing Fmn, S-7001-6	S-7001-6	K
Payroll Clerk, GS-544-6	GS-544-6	Vietnam
Personnel Officer, GS-201-13	GS-201-13	Vietnam
Personnel Management Spec, GS-201-13	GS-201-13	Vietnam
Personnel Management Spec, GS-201-12	GS-201-12	Vietnam
Personnel Management Spec, GS-201-11	GS-201-11	K, O
Personnel Staff & ER Spec, GS-212-9	GS-212-9	O, Vietnam, Thailand
Personnel Staffing Specialist, GS-212-11	GS-212-11	O, Vietnam, Thailand
Port Controller Foreman, S-5425-6	S-5425-6	K
Photographer, Supv, GS-1060-9	GS-1060-9	J
Physical Science Techn, S-pv, GS-1311-11	GS-1311-11	K
Pier Superintendent, GS-2101-3	GS-2101-3	J
Position Classification Spec, GS-221-11	GS-221-11	K, O, Thailand
Promotion Analyst, Supv, GS-1102-12	GS-1102-12	Vietnam
Production Controller, S-pv, GS-1152-11	GS-1152-11	K
Production Controller, GS-1152-9	GS-1152-9	K

Sanitary Engineer, GS-819-12	GS-819-12	K
Secretary (Steno) GS-318-4	GS-318-4	Vietnam
Security Specialist, GS-080-11	GS-080-11	H
Shipment Asst (HHG), Supv, GS-2134-7	GS-2134-7	Vietnam
Steamfitter, WB-4207-10	WB-4207-10	A
Storage Specialist, GS-2003-9	GS-2003-9	K
Supply Clerk, Supv, GS-2040-9	GS-2040-9	K
Supply Liaison Repr, GS-2001-12	GS-2001-12	J
Supply Mgmt Systems Analyst, GS-2001-12	GS-2001-12	H
Supply Officer, GS-2001-7	GS-2001-7	K
Supply Systems Analyst, GS-2003-12	GS-2003-12	H
Supply Systems Analyst, GS-2003-11	GS-2003-11	H
Technologist (Textile & Packag ng) GS-1390-12	GS-1390-12	J
Traffic Manager, GS-2130-11	GS-2130-11	F/G
Yard Master, S-6006-5	S-6006-5	I

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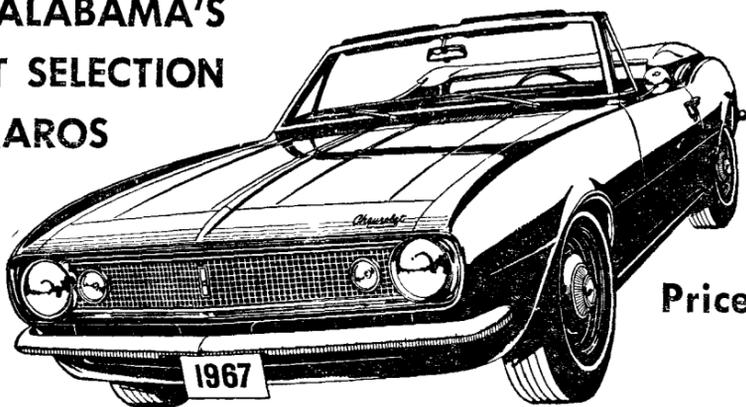
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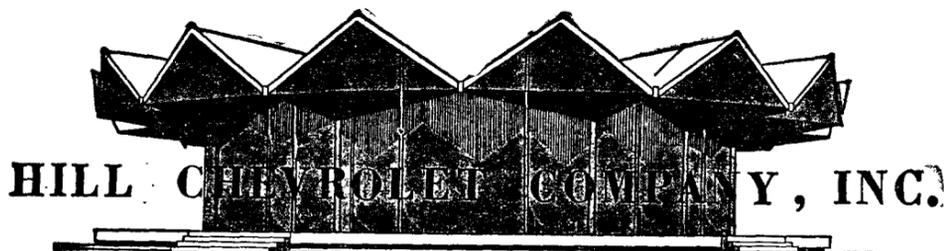


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