

The Redstone Rocket

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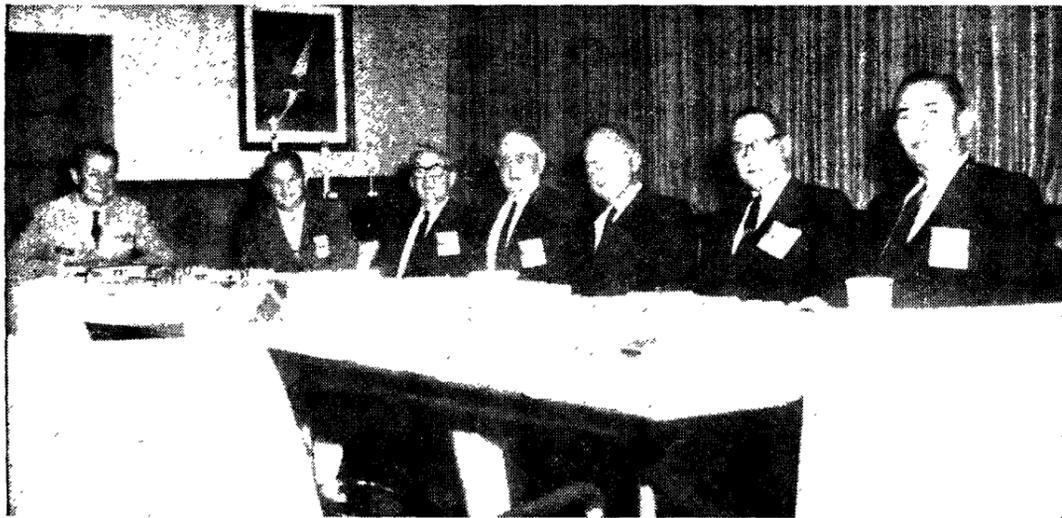
REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

OCTOBER 7, 1964

Arsenal-Wide

Spot News

Dial 112



ADVISORY COMMITTEE—The Missile Command's Scientific Advisory Committee convened Monday for a two day meeting to review missile projects and research and development activities. The committee advises Maj. Gen. John G. Zierdt (left) Commanding General of the Missile Command. Members of the Committee are, left to right, Dr. Antonio Ferri, Dr. Maurice Zucrow, Dr. C. S. Draper, Dr. Alvin Graves, Martin Goland and Wilbur Hinmann.

MAW Missile And Contract Announced Simultaneously

The Army has announced it has under development two versions of a man portable and shoulder fired anti-tank missile system which is expected to provide a major boost in firepower for infantry units.

The announcement came with the award of a \$2.72 million contract to the McDonnell Aircraft Co., by the Army Missile Command for exploratory development effort on a Medium Assault Anti-tank Weapon (MAW).

Like the Army's TOW anti-tank missile, the McDonnell MAW is planned as a tube launched, wire guided missile. In a tactical situation, the MAW would cover a shorter range than the tripod mounted TOW. However, it will have a longer range than any other man portable anti-tank weapon.

The Missile Command's Directorate of Research and Development is developing a second ver-

sion of the weapon.

The MAW will feature a unique control system which is accurate, simple and rugged.

The new weapon system, as envisioned by the Army, will complement the TOW missile which is also in development.

DC-MAW was conceived in the laboratories of the Missile Command's Directorate of Research and Development and is now under exploratory development by the laboratories.

Management of both of these exploratory development programs is centered at the Army Missile Command's Anti-tank/Aircraft Weapons Commodity Office. Col. Cyril D. Sterner is Commodity Manager.

Technical Supervision of the McDonnell MAW program is under Allan Platt and the DC-MAW under John Pettitt, both of the Missile Command's Directorate of Research and Development.

Scientific Group Meets At Redstone

A blue ribbon group of scientists and engineers met at Redstone Arsenal Monday and Tuesday to discuss the Army Missile Command's research and development programs and future missile projects.

The group is the Missile Scientific Advisory Committee formed to advise Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, on scientific and technical matters.

The Committee is composed of Dr. Antonio Ferri of the Department of Aeronautics and Astronautics, New York University; Dr. Maurice Zucrow, Professor of Mechanical Engineering at Purdue University; Dr. C. S. Draper, Department of Aeronautical Engineering (See SCIENTIFIC on Page 3)

P & P Directorate Leads 1964 United Givers Drive

Duplicating their performance of a year ago, the personnel of the Procurement and Production Directorate have jumped off to an early lead in the 1964 Redstone Arsenal United Givers Fund campaign.

In setting the pace among the larger Arsenal organizations, P and P agency chairman, W. C. Cleveland, has already banked 91 per cent of the Fair Share goal of the directorate. Contributions to the fund have been made by 94 per cent of the personnel assigned.

Among the smaller agencies the early lead, and one which could hold throughout the drive, belongs to the Quality and Reliability Management Office, another Building 4488 organization.

Claud Hopkins, agency chairman for the latter unit, has completed his campaign on a highly successful note. His first and final report indicates 100 per cent participation among 29 assigned personnel, with 102 percent of the Fair Share

goal having been attained.

Another outstanding initial report was turned in by Lt. Col. C. D. Neilson on behalf of the Nike X Project Office. Ninety per cent of the personnel assigned to X have contributed 86 per cent of the Fair Share goal.

The initial chairman reports indicate that a concerted effort has been extended toward completing the drive as soon as possible. All but four of the 14 reporting agencies have passed the half way mark toward attaining their goal.

Much of the credit for the fast start in the drive is due to the efforts of Executive Chairman M. C. Taylor and his committee in educating campaign workers prior to the official opening.

Mr. Taylor, his assistant, Sam Moyers, and the Reports Chairman, Al LaGrone, conducted training sessions in every building that has a large number of workers.

These sessions included the aims and purposes of the drive, briefings on the agencies included in the UGF, a report on the budget, and a presentation covering the banking and reporting procedures.

Reserve Officers To Hear The Boss

Members of the Huntsville Chapter of the Reserve Officer's Association will get the chance to hear their boss speak Friday, Oct. 16.

Lt. Gen. W. H. S. Wright, Chief of U.S. Army Reserve Components, including the National Guard, will be guest speaker for the chapter's dinner meeting at the Redstone Officer's Club.

A special hour beginning at 6:30 will open the night's activities, according to Lt. Col. John L. Edgar, president of the Huntsville Chapter.

Tickets may be purchased by calling Col. Edgar at 876-7104, Lt. Col. Ben Keyslerling at 876-8914, Lt. John Harris at 534-7304 or Lt. Col. Pete Redding at 876-1410.

FROM OTHER LANDS

Foreign students at the Ordnance Guided Missile School are voluntarily participating in the annual United Givers Fund drive at the School.

The first preliminary report shows that several foreign units have combined to contribute \$469 to the drive. No solicitation is made to the foreign students.

Ion Microscope Enables Men To See Metal Atoms

A new microscope acquired by the Army Missile Command's Directorate of Research and Development will enable Army scientists to look at metal atoms for the first time.

By looking at these basic blocks of matter, scientists of the Structures and Mechanics Laboratory hope to find out a number of reasons why metals behave as they do. And after they find out, they hope to find methods to change some of the characteristics into a more desirable channel.

The study group includes three physical metallurgists, headed by James T. Davidson. He will be assisted by Julian Bynum and William McClane.

Operation of the new field ion microscope is simple and the cost is low compared with some of the equipment required to keep the Army ahead in the missile race.

The ion microscope is priced at approximately one-sixth the cost of an electron microscope and is about four times more powerful. The electron microscope magnifies up to 300,000 diameters, while the ion microscope magnifies in excess of one million diameters.

Davidson said that one of

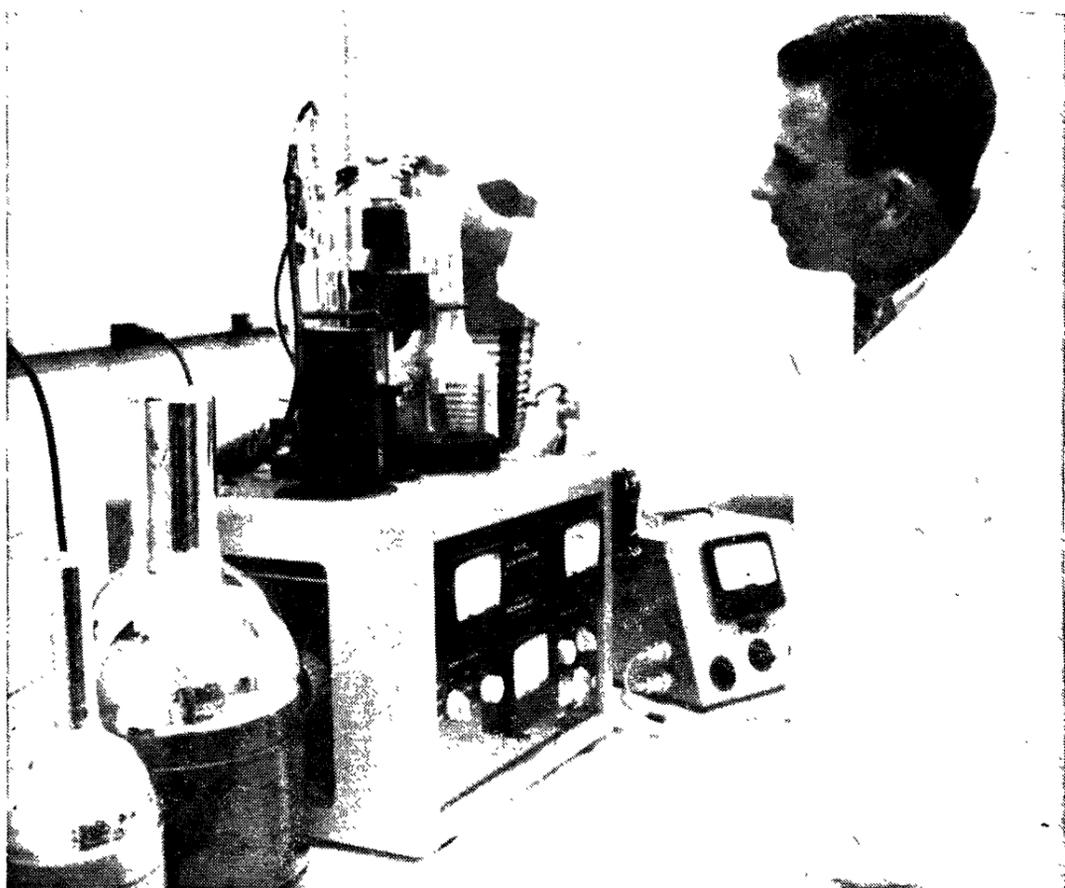
the first projects for the new instrument will be a study of pure tungsten and molybdenum. When heated and cooled slowly, the metal is brittle. But when heated and cooled fast, it is ductile. The group hopes to find a means to retain the metal's hardness and eliminate the brittleness.

First step will be to obtain special specimens of the metal to be studied. The specimen is a small wire with a point which must be perfectly round, but is too small to be seen except with an electron microscope.

The specimen is inserted in the microscope, inside a glass jar with the air removed and helium substituted. When a high voltage is applied between the specimen tip and a phosphor-coated screen, helium ions are formed at the tip and are accelerated radially from the tip to the screen. The bright and dark pattern created on the screen is the image of the atomic pattern on the tip surface.

Studies with the ion microscope are limited for technical reasons to metals that have a higher melting point than iron.

(See MICROSCOPE on Page 3)



SUPER SCOPE—Physical Metallurgist Julian Bynum checks the vacuum hose on an ion microscope just purchased by the Army Missile Command's Directorate of Research and Development. Scientists from the Directorate's Structures and Mechanics Laboratory will, for the first time, be able to look at the atoms of several metals. The instrument magnifies more than one million diameters, about four times more than was possible before.

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-130, Extension 876-4161.
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Rocket Ruminations

My country is the world, my countrymen mankind.
 —William Lloyd Garrison

CONSERVE

Most week's only one national "pointer" is declared to bring certain conditions to the minds of thinking men and women, but this week in October marks two national observances:

The Federal Government, on a smaller scale, conducts a year-round campaign to hire the handicapped—both the physically handicapped and the mentally retarded for jobs in which both categories fit. But this is the week declared to emphasize this program, not only in government but in private small business and in large industry.

The second campaign the Government is endorsing this week is Fire Prevention. Last year at Redstone \$20,000 damage resulted from six fires. Safety experts point out that most fires are the result of carelessness.

But the \$20,000 that went up in a blaze would have more than paid the tab for additional clerks and typists, or missile parts or just general everyday services.

Both observances have one thing in common: Conserve Our Resources.

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LIBRARY DISCUSSION—Dr. Edward G. Roberts (seated), an assistant professor of information science from the Georgia Institute of Technology, discusses a course in scientific and engineering literature just completed by 23 librarians from the Redstone Scientific Information Center. Roberts came to Redstone Arsenal to teach the three-week course, with details coordinated by John Heath of the Civilian Personnel Office. Some of the RSIC supervisory personnel who took the course are, left to right, Clara Rogers, Claude Martin and James Clark.

University Brings Class To Arsenal Librarians

A university class was brought to Redstone Arsenal recently to save sending 50 or more employees of the Army Missile Command away to school.

Dr. Edward G. Roberts, assistant professor of information science at the Georgia Institute of Technology came to Redstone to teach a three-week course in scientific and engineering literature for the Civilian Personnel Office Training and Development Division.

The condensed course was modeled after one taught to seniors and graduate students at Georgia Tech and was designed to provide a working knowledge to indexing approaches of the literature of science and engineering.

The first course was completed by 23 employees of the Technical Library Branch of the Redstone

Scientific Information Center. Since all employees needing the course could not be away from normal duties at the same time, another course is planned for the future.

The Center serves both the Army Missile Command and Marshall Space Flight Center operating with joint funds from both agencies. They also serve government contractors at Redstone and in the Huntsville area.

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Astronautics Group, Families To Tour

A tour of the U. S. Army Missile Command and Marshall Space Flight Center will be made by members of the Tullahoma and Alabama Sections of the American Institute of Aeronautics and Astronautics on Saturday, Oct. 10. Families will accompany members.

The tour will begin at 9 a.m. from the parking lot at the main gate of the Arsenal. From there the tour will be conducted in buses supplied by the Army and NASA.

Featured on the tour will be the facilities of the Army's Francis J. McMorro Research and Development Laboratory and the Ordnance Guided Missile School as well as the Manufacturing Engineering Laboratory and Test Laboratory of the Marshall Space Flight Center.

Members desiring to make the tour can have further details by calling Max Murray, 881-0711.

Coming Events

AIAA—Tullahoma/Alabama Sections family tour USAMCOM and MSFC, Saturday, October 10, 9:00 a.m. Main Gate parking lot. Further information call Max Murray, 881-0711.

SNT—Plant tour of Wyle Laboratories, 12 October. Social hour and dinner 6:30 p.m. Pin Palace. Further information 876-0214.

NOTE: All technical societies are urged to contact Dr. T. H. Pratt, 876-9056, to make arrangements to be included in this column.

GIVE THREE MINUTES A DAY The UNITED WAY

UGF Scoreboard

	% Participation	% F. Share
Office, Commanding General incl, Chief of Staff and supporting staff officers	68	39
DCG, Air Defense Systems incl, Project and Commodity Offices of ADS	78	72
DCG, Land Combat Systems incl, Project and Commodity Offices of LCS	73	70
Comptroller & Dir of Pro.	62	47
Qual & Rel Mgme Office	100	102
Dir, Proc & Prod	94	91
Dir, Sup & Maint	86	81
Dir, Res & Dvmt	79	75
Missile Intelligence	21	14
Nike X Project Office	90	86
Missile Support Command	63	58
Ord Guided Missile School	77	73
Thiokol Corp.	24	22
Rhom & Haas	42	54

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Six Fires Cause \$20,000 Damage

Six reportable fires causing property damage estimated at close to \$20,000 were recorded on the Arsenal during Fiscal Year 1964.

Col. Thomas Cooke, Post Commander, made reference to these figures early this week in calling on Redstone personnel to rededicate themselves to the practice of good fire prevention habits.

In his annual Fire Prevention Week message, Col. Cooke stated, "This is the time when we should remind ourselves of the precautions we should have been taking all year."

Fire Prevention Week is annually observed during the first week of October throughout the Federal complex, under Presidential proclamation. Its purpose is to renew in the minds of all personnel the devastating fire losses that can result from a thoughtless act, and to instruct them in good fire prevention habits.

In citing the FY-64 record, Col. Cooke called it a good record, considering the size of the installation and the many complexities of our mission.

He said these statistics, "Reflect the conscientious efforts on the part of Redstone personnel in the removal of fire hazards."

He went on to congratulate the personnel of the Arsenal for their efforts during the past year, but cautioned them against becoming complacent in the months to come.

In breaking down the statistics, the six reportable fires were divided equally between Army fires and non-Army fires. The three Army fires resulted in property damage estimated at \$13,385. The non-Army fires during the same period caused an estimated \$5,950 damage.

William H. Klieber, Installation Fire Marshal, in commenting on the Arsenal observance of Fire

Prevention Week, said that the theme for the celebration would be, "Don't give fire a place to start."

He added that, "We have an unfortunate habit of dismissing most fires as 'accidents', a sort of visitation of bad luck which somehow was unavoidable.

"But how unavoidable, or unpredictable," Klieber added, "is a fire that was started by a carelessly discarded cigarette, or an overloaded and defective electrical outlet?"

Yet studies have consistently in-

dicated that these and similarly uncomplicated causes are responsible for the great majority of fires.

Both Col. Cooke and Mr. Klieber called attention to the fact that all personnel must acknowledge the fact that fires are wasteful, but avoidable, and then reform their habits so as to remove those potential causes of fires.

When each person has made this adjustment the risk of our lives, and possessions to the destructive forces of fires will be greatly reduced.

Good Samaritan Helps Save Life, Disappears

Sometimes a simple act of aid reveals a story with all the elements of a television drama.

Such a story happened the past week on Redstone Arsenal.

A young mother-to-be, her station wagon afire and filled with smoke, plunged into a deep ditch when her brakes failed. She was dazed and in danger of asphyxiation. The doors of the car were locked except for the one at her side which was wedged against a bank.

Had it not been for two men — one of whom remains still unidentified — investigators believe she may have suffocated or burned when the fire reached the gas tank.

As it is Mrs. Sue Sharman has a small cut on her forehead and "is sore but otherwise okay."

The accident occurred when Mrs. Sharman, a clerk-stenographer in the Nike Hercules Project Office at the Army Missile Command, was on her way home after work. She told Military Police investigators she smelled and noticed smoke in the car and started to pull off the shoulder. Beyond the pulloff area was a 12-foot deep ditch.

She applied the brakes and was horrified when they did not hold, sending her into the ditch head first. Later her rescuer said the smoke in the station wagon was so thick that if she had fallen to the floorboard under the dash, I'd never been able to see her." Immediately in front of Mrs.

Sharman was Ralph Augg, a branch chief also in the Nike Hercules Project Office. He was alerted by the unidentified man who blew his horn and motioned Augg to pull off the road. Together they ran back to the wrecked car and Augg climbed into the ditch.

He managed to get the door on the driver's side open "about 18 inches" and found Mrs. Sharman groping for the door handle.

Augg helped her out of the car and handed her up the bank to the second man. An ambulance was called and Augg went with Mrs. Sharman to the post hospital where she was treated and then sent to the Huntsville Hospital for further examination by her private doctor.

The unknown Samaritan who spotted the wreck and helped, safety officials believe, rescue Mrs. Sharman from the possible death left before anyone got his name.



MARS Moves To Missile School Area

Amateur ham operators at the Ordnance Guided Missile School, are finding it easier to pursue their hobby at the Military Affiliated Radio System (MARS) and Amateur Radio Station.

The station has moved operations to building 3463 in the OGMS area. Before the move, it was located on Squirrel Hill. The station is the responsibility of the Assistant for Communications, Army Missile Support Command.

Personnel at the station have invited holders of valid amateur licenses to make use of the facilities.

World-wide "Marsgram" service is available to Redstone personnel, according to the radio station. The service allows Marsgram senders to dispatch messages to friends and relatives anywhere for a nominal cost.

SCIENTIFIC

(Continued From Page 1)
neering at the Massachusetts Institute of Technology; Dr. Alvin C. Graves, Director of the Test Division, Los Alamos Scientific Laboratory; Wilbur S. Hinmann, former Deputy Assistant Secretary of the Army for Research and Development; and Martin Goland, President of the Southwest Research Institute at San Antonio, Tex.

Lloyd Lively, a member of the Missile Command's Directorate of Research and Development Technical Staff, is executive secretary of the committee.

MICROSCOPE

(Continued From Page 1)
One theory which Davidson and his group hope to prove or disprove is the belief that atomic imperfections in metals tend to "pile up," which means that a weakness too small to be detected by present means will form a troublesome flaw in the future.

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DIAMONDS ARE FOREVER—First Sgt. Charles J. Miller had a diamond added to his master sergeant chevron this past week. He will serve as first sergeant for the 3rd ETC at OGMS. His CO, Lt. D. M. McClellan (left) and STC Commander Col. C. E. Chapman show him how the insignia should be worn.

Post Library

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Librarian

NON-FICTION

Berlitz Schools of Languages of America, Inc., The Berlitz Complete handbook of Effective English.

Bernstein, Jeremy, The Analyt-



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ical Engine.

Daniels, George, How to Use Hand and Power Tools.

Feis, Herbert, Foreign Aid and Foreign Policy.

Kennedy, John F., The Burden and the Glory.

Kleinman, Forrest K., The Modern United States Army.

Moore, Patrick, A Survey of the Moon.

Peissel, Michel, The Lost World of Quintana Roo.

Salinger, Pierre, ed., A Tribute to John F. Kennedy.

White House Historical Association, The White House: An Historic Guide.

FICTION

Angelo, Valenti, The Merry Marcos.

Knight, Damon, ed., A Century of Short Science Fiction.

Lambert, Darwin, Gold Strike in Hell.

Le Carre, John, The Incongruous Spy.

Miner, Lewis S., King of the Hawaiian Islands.

Pladgemann, Bentz, Father to the Man.

Saxe, John Godfrey, A Blind Man and the Elephant.

Sears, Hank, The Pilgrim Project.

Swayze, Beulah Garland, Father Gabriel's Cloak.

For Relaxing Time:...

Working Dog Is Howard's Companion

Charley, a Labrador Retriever, is the newest member of the household of the William Howard family on Greencove Road in Huntsville.

Howard, a specialist in technical camera repair in the Maintenance Support Division of the Army Missile Support Command, has been working at Redstone Arsenal for the past eleven years.

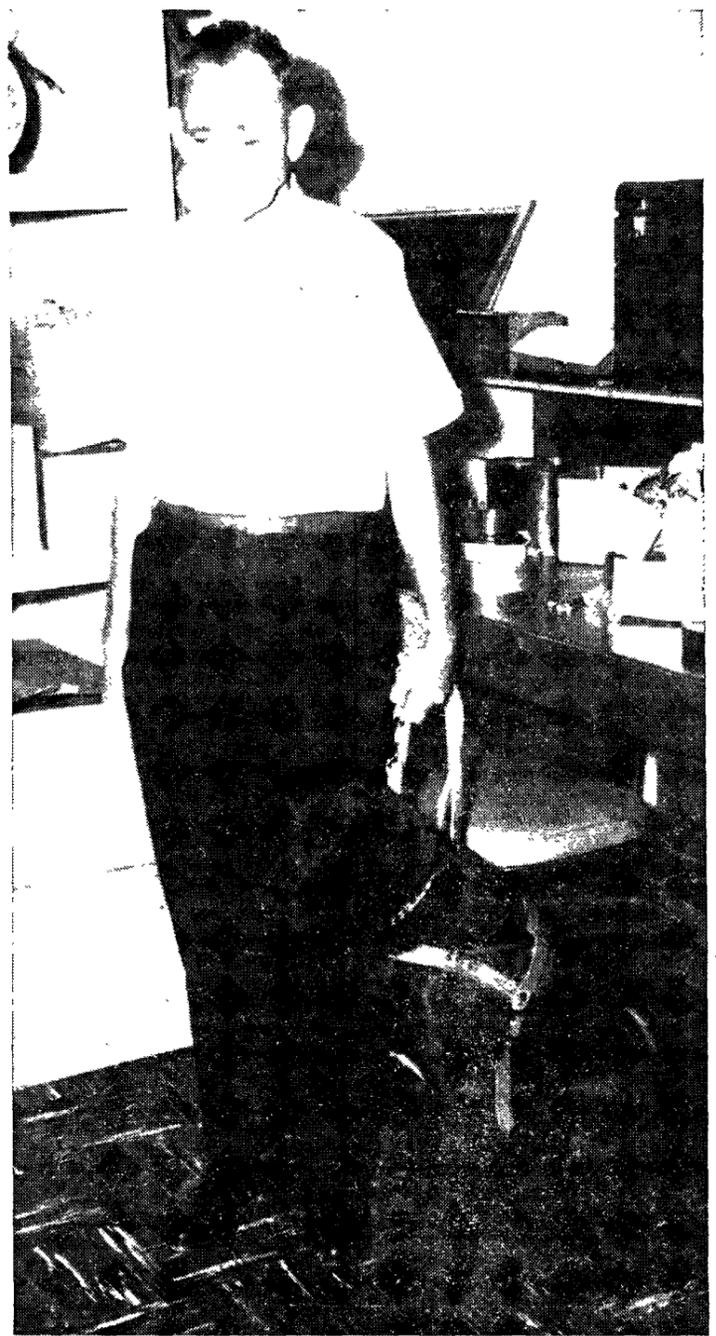
Charley and his master stand out whether they are alone or in a crowd. Howard has been blind since he had a bicycle accident as a teenager and Charley is a trained leader dog. On the job, Howard doesn't need Charley. He gets around the test flight range and the maintenance shop without any problem. Some of the tools he uses daily he designed and fabricated himself.

Charley and he were introduced to each other at the School for the Blind at Rochester, Mich. When the instructors at the school were satisfied that dog and man had the proper rapport, they flew to Huntsville together. Charley is 14-months-old and sometimes flaunts his puppyish ways according to his master, but when he puts on his working harness he is all business.

He is a big dog and his black fur is shiny sleek. Like all Labradors he has a white mark on his chest. Already he is a familiar sight in the neighborhood because now Howard is not confined to his own front yard. He can go visiting with Charley as his guide to keep him out of the path of tricycles, bicycles, and other traffic impedimenta.

Around the house, Howard keeps his mind occupied by doing the odd jobs and maintenance needed. About camera repair he says, "I like one that gives me a run for my money. If it gives up too easy, it's no challenge."

To complete his high school studies, Howard attended the Talladega Institute for the Blind. He went to work as a small arms repairman at the Anniston Ordnance Depot and met and married his wife, Floda Mae, while he was living in his hometown of Bynum. They have a teenage son, Larry, attending Huntsville high school. Larry is a member of the track



FRIENDS FOREVER—William Howard, technical camera repairman, and his leader dog, Charley, leave the work bench where Howard has "ailing" cameras used to track missiles being tested. The cameras, when working properly, record a wealth of data for the engineers and scientists at the U. S. Army Missile Command. Howard, who has been blind since he was a teenager, usually leaves Charley home during working hours and uses him to get around when he wants to relax.

team—an endurance runner. Meanwhile, Howard earned a diploma by correspondence from the National Radio Institute in Washington, D. C. A friendly man, liked and respected by his fellow workers and neighbors, the Howards like Huntsville. They also like to visit in Anniston and Jacksonville where Howard's parents, Mr. and Mrs. N. T. Howard, live at 42 B Street.

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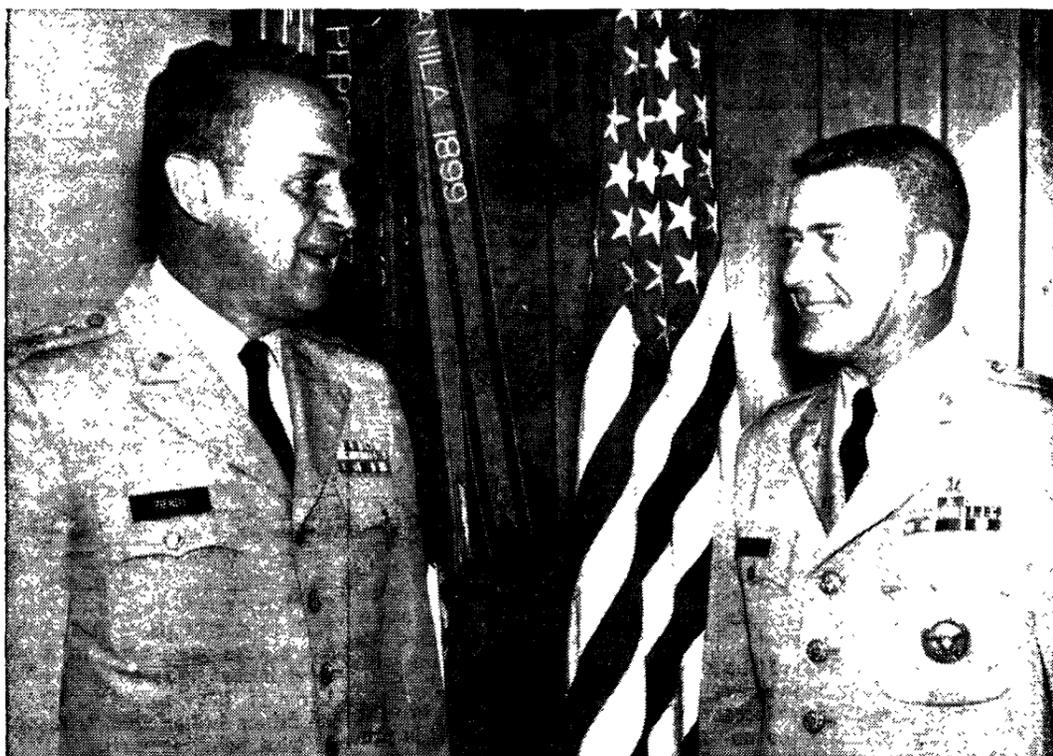
A private survey bureau recently queried a number of Missile Command personnel regarding capabilities of various contractors. Some of these queries have come to the attention of supervisors and appropriate staff chiefs. The bureau apparently intends to furnish any information received to its clients.

These queries have been directed to individuals both at home and office addresses and might seem to constitute personal opinion.

However, if answered, they would contain information which could be interpreted as an official position for the Missile Command.

Persons qualified to reply necessarily would have formed their opinions in the course of official duty.

Release of such information is interpreted to fall within the category of the Command's Public Information Policy and all such queries should be referred to the Information Officer.



AMC OFFICIAL—Col. Carl S. Leidy, a Deputy Special Assistant for Project Management at the Army Materiel Command, visited the Missile Command last week for a talk with all Project Managers. Col. Leidy (right) started his discussions with a visit to Maj. Gen. John G. Zierdt (left) Commanding General of the Missile Command.

Redstone Benefit Insurance To Have Open Season Soon

Army employees at Redstone have the chance to fire questions at company representatives of the group life insurance program during special information sessions being conducted.

The sessions mark the opening of a special enrollment period during which an employee not now in the program may enroll without the usual physical examination requirement. Employees located at the Ordnance Guided Missile School will attend sessions during the last week in October, specific dates to be announced later.

The group life insurance for employees is sponsored by the Redstone Benefit Association. Home Life Insurance Company underwrites the program.

Company representatives will conduct the sessions and answer employee questions. Representatives are D. W. Starnes, Jr., local representative; Harold Potts, and Bill Rose, group sales; and Johnny Packal, sales representative.

All sessions will occur from 11 a.m. to 1 p.m. in the locations and on dates which follow:

MICOM Hq., 5250, Room A-115, Oct. 7, 13, 16, Chandler, 876-5144. Comp Center, 5201, Room 204, Oct. 12, Bennett, 876-6259; R&D, 5400, Room C-109, Oct. 14, Hall, 876-4522; R&D, 4505, Room 200A, Oct. 12, Hall, 876-4522; P&P, Calib C., 4500, Room 118, Oct. 9, Collins, 876-1213;

P&P, Proj. Managers, 4488, Room A-206, Oct. 8, 9, 14, Collins, 876-1213; S&M, Director, 5681, Conference Room, Oct. 7, 15, Burnett, 876-2358; S&M, 5687, Conference Room, Oct. 8, Seaton, 876-7707; AMSC and P&P, 3749, (Tin Village) S&M Conference Room, Oct. 13, 14, 15, Weidman, 876-7920;

INTERNATIONAL INCIDENT

Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School, managed to keep his Metropolitan Kiwanis Club attendance up even though he recently spent a fortnight in Europe.

Entering the dining room of the Metropole Hotel in Brussels, Belgium, in civvies with his Kiwanis button in his coat lapel, Col. Macpherson was advised that Kiwanians of the Belgium capital city were meeting upstairs. He attended, was given a hearty welcome and meal and a club banner as a souvenir—and proof of his attendance.

Room, Oct. 13, Collins, 876-1213; AMSC Headquarters, 7101, Control Room, Oct. 7, 8, 12, 16, McKinney, 876-8112; Consolidated Supply, 7417, Conf. Room, Oct. 7, Minor, 876-3043; F&A, 8027, Room 1, Oct. 9, Fusch, 876-5971.

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Mail Handlers Are Enthusiastic, Resourceful

Ten resourceful people in the two mail distribution branches of the Army Missile Command's Mail and Records Division are kept hopping to move almost 100,000 pieces of mail every month.

They have to be resourceful to figure out where to route the complex variety of mail that descends on the Missile Command headquarters. Reorganizations, personnel changes and office moves are just some of the problems that demand their constant attention.

A piece of mail addressed simply "Commanding General, Army Missile Command" wouldn't get to its intended destination if some alert clerks and messengers didn't have a lot of highly technical information tucked away in their heads.

Reniva L. Patrick, chief of the classified mail branch, says they process more than 32,000 pieces of mail monthly, and that the un-

classified mail runs to more than 63,000 items.

She has been at Redstone 15 years, and started on Line 4 in the old Ammunition Division when the mission was assembly of explosives. She had a break in service between 1945 and 1950, the year she came back to work on the lines again. Following that she worked in the Reproduction Branch, then started in the mail room.

Reniva grew up in Hazel Green, lives in Huntsville now. A little lady with sandy colored hair, she speaks knowlegably and enthusiastically of her experience. "Some days I can't wait to get back to work," she said. "This job is always interesting because something new happens every day. It's the ideal place to keep up with everybody and everything."

Working with Reniva in the room where classified mail is pro-

cessed are Faye Timberman, Betty Windsor, Ralph Lancaster and Cephus White.

Faye, a tall, slender girl from Fayetteville, Tenn., has been at Redstone six years since her graduation from high school. She says whenever she thinks of the possibility of trying another kind of work, she always backs out because she likes what she is doing, and she is sure of her ground. She and her co-workers in the classified mail branch move the material as quickly as they possibly can so they won't have a problem of storing stacks of classified papers overnight.

Betty Windsor of Huntsville, and a Butler High graduate, says she has tried various kinds of work in her 11 years at Redstone, but always goes back to a mail room because she likes that best. A petite blonde, Betty, like all the others in her area, is fascinated with handling mail.

Another ardent fan of mail processing is blonde, slender Ralph Lancaster from Gadsden who attended the University of Alabama two years, taking a general course. Ralph pointed out that some offices get the largest percents of the classified mail because of the nature of their work. He likes working for the government.

His hobby is ceramics, an activity both he and his wife enjoy. They don't take their hobby seriously, but make small objects of art for decorative use in their home and to give to friends.

The tall, distinguished and quiet gentleman whose visits to offices all over 5250 is an almost daily occurrence in Cephus White. He strides in with a bundle of classified mail under his arm.

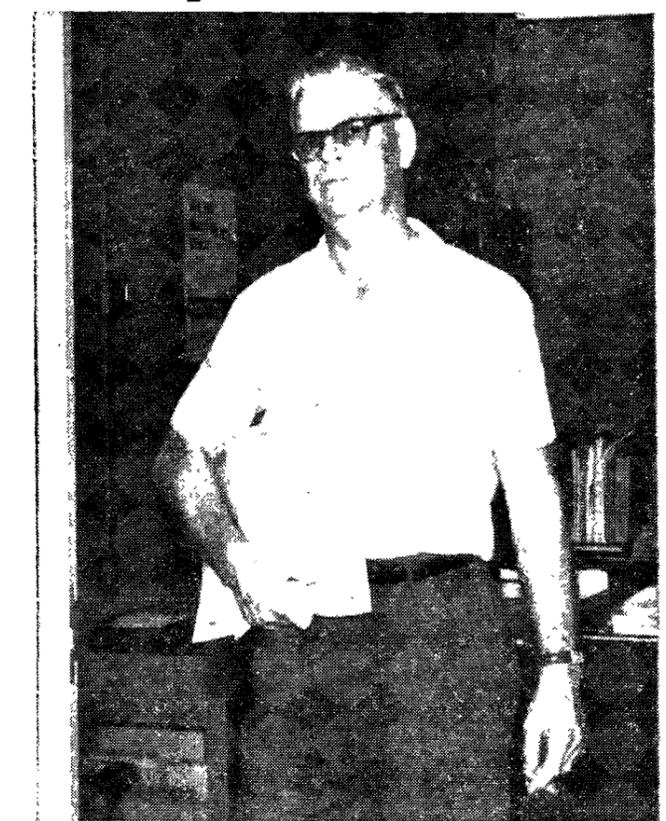
Originally from Talledega County, Cephus worked at Ft. McClellan and Anniston Depot before coming to Redstone five years ago. He was in the fire department both places, and it took him a while to shake off the urge to jump whenever he heard fire engines screaming down a highway.

He estimates that he walks at least five miles every day as he makes two regular runs daily, and extra ones when necessary.

The Whites have a cabin on Whitaker Lake where they spend weekends, and Cephus goes fishing. He's the grandfather of a two-month-old-boy, his son's child.

Out where the unclassified mail is sorted and routed, Ray Thompson rides the supervisor's desk. Ray, from Decatur, used to work in the Ammunition Division here, and came to the mail room when the ammo lines were closed. He tried his hand at several other occupations before coming to Redstone. For five years he was in a Decatur hoisery mill, then worked as a watch repairman in a jewelry store. He finished two years in the Decatur Trade School where he learned the watch repair business, but he likes work with the mail better than anything else.

Ray, a tall, cheerful man, reviews an average of 400 teletypes which come in daily, and marks



HERE COMES THAT MAN—Cephus White, messenger from the classified mail section, starts on his rounds in Bldg. 5250 where he walks about five miles a day delivering mail and getting "snow-flakes" signed to keep a record of where the material goes.

them for proper routing. He says most of them come in during the night and his aim is to get all of them out of the mail room by 10:30 a.m. During each day, his people check the message center every 30 minutes or so to pick up any that have come in.

A little hunting and fishing are Ray's recreations, but with a big yard and garden to care for, he doesn't have a great deal of time to "play."

Few people would guess that Lawrence Lemley, the slight friendly man who brings the mail four times a day, is a pastor on Sunday. He didn't feel he could make a ministerial career his sole calling, but for 12 years has served in different pulpits and done evangelistic work.

Lemley is now the pastor of the Gum Springs Missionary Baptist Church 12 miles east of Fayetteville, Tenn. on Rt. 64, with a congregation of 75 to 100 people.

The Lemleys live at New Hope, and always have a big vegetable garden. Lawrence says he likes best to raise potatoes, and with more time would follow rose culture.

He has been in the mail room since 1960, was on the Guard Force from 1956 until then, and before that he had worked in the Ammunition Division five years assembling artillery and mortar shells and rockets, or renovating them.

Lawrence is a veteran of World War II when he served as a Marine with most of his duty in the southwest Pacific. He was with the occupation forces in North

China when released from service.

Ted McDonald who routes teletypes and mail, has a leaning toward various types of communications. He has been a State Trooper and radio operator with the Alabama Highway Patrol, and during the Korean conflict was with the Army Combat engineers doing communications repair work.

One of his hobbies is CB radio which he has been in for about a year. Another is water skiing, a sport everyone in his family can enjoy except his younger son who is only three. Ted likes fishing and hunting, but water skiing is the most fun.

Ted, an easy going, yet energetic man with dark hair and horn rimmed spectacles, has to read a lot of mail to see where it should go. He says the Information Office gets the most entertaining letters, those from children and others requesting information about missiles, rockets and almost anything where people think the Army would have the slightest interest.

He came to Redstone in 1956 to work on the Guard Force, then on to the mail room in 1960.

The messenger for the north side of 5250 is Redus Ball, a resident of Athens where he has lived all his life. This tall, handsome man has been at Redstone for 12 years, working first in Consolidated Supply, and transferring to mail in 1956.

Redus is a farmer at heart, and lives on a small farm now where he can have a big vegetable garden and raise a hog or two for butchering. He'd like to have a (See MAIL HANDLERS on Page 7)



OFF ON THEIR ROUTES—Redus Ball (left) and Lawrence Lemley, the "mail carriers" in Bldg. 5250, leave the mail room with loaded baskets on their way to all the offices with the unclassified mail. They make four trips a day.

Page 6 The Redstone Rocket — October 7, 1964

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GETTING IT IN THE RIGHT BOX—Buddy Martin (left) and Ted McDonald review incoming mail and put it in the right slots for pick-up and delivery in Bldg. 5250.

MAIL HANDLERS
(Continued From Page 6)

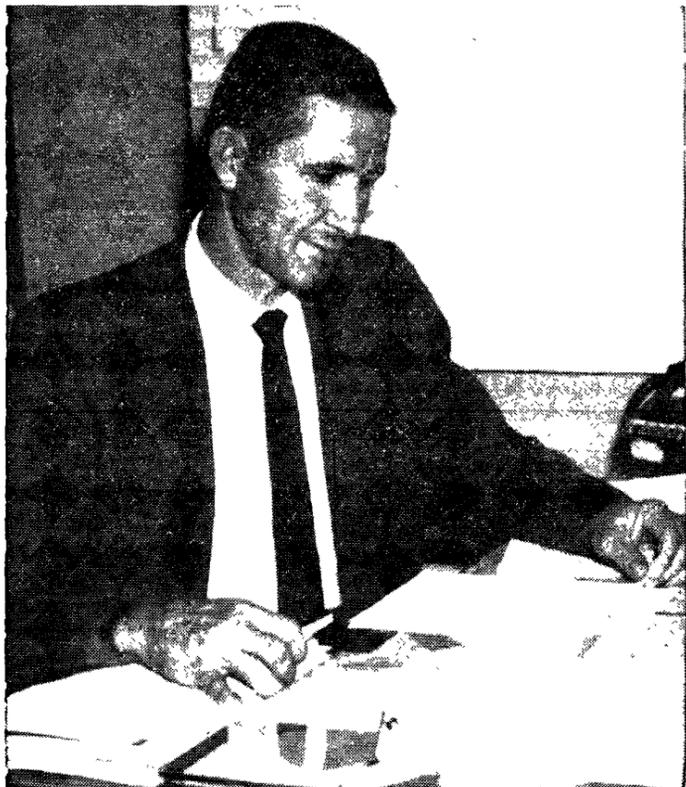
larger place where he could fatten some cattle and raise more hogs. He says country living has an ease and friendliness where one may have a lot of chores, but neighbors all share common problems and life is peaceful. A World War II veteran, he spent his time with the Quartermaster Corps all over the Pacific. Although he does some hunting and fishing, he doesn't care much about eating the game and fish he

brings home. With him, it's just a matter of sport, not a means for putting meat on the table. The man of many duties in the mail room is a lively, slightly built, brown-eyed Buddy Martin. Since 1954 graduation from high school in Huntsville, he's been a busy man. Four days after graduation, he went to Washington, D. C. to join the FBI, and stayed three years. He's been at Redstone a total of eight years working for both the Army and NASA. However, he's just starting work here again after two years at Howard College where he studied music.

His ambition is to be a minister of music, and he is now serving part time in that capacity for the Lincoln Memorial Baptist Church in Huntsville. Since he started "playing by ear" at age 5, his main interest has been music. He has been a part of musical groups every place he has been, and for a long time was a gospel singer. (He's a baritone, but says they tried to make a tenor out of him at college.) After years of gospel singing and cutting records in Nashville, he decided to devote his talents to

sacred music. While at Howard, he worked in a church, so he was constantly applying what he learned in college. Music is an interest he shares with his wife. He met her at the church where she was the pianist. They aspire to the time when Buddy has his degree in music and they can do evangelistic singing as a full time career. He quipped that they taught piano in school so he was finally

learning to play formally the same pieces he had been doing "by ear." Anytime someone is on leave in the mail room, Buddy fills in. He sorts mail, carries mail, logs in messages, does anything he's needed to do. The folks in the mail room aim to give good service to the best of their ability, and everyone of them remarked on the excellent cooperation they receive from people at the Missile Command.

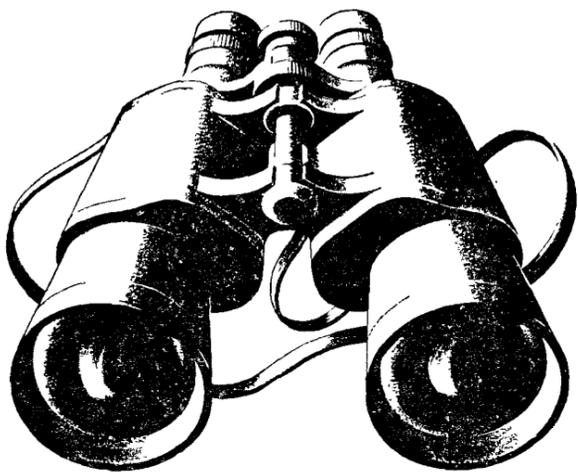


MORE THAN 63,000 PIECES OF MAIL A MONTH PASS HERE—Ray Thompson, supervisor for unclassified mail, reviews and routes about 400 teletypes a day in addition to overseeing the disposition of other unclassified material.



THAT PINK PIECE OF PAPER—Reniva L. Patrick (left) checks on "snowflakes," the pink slip on which classified mail is recorded, with Betty Windsor. Ralph Lancaster searches the files, and Faye Timberman processes incoming and outgoing classified mail.

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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 rates 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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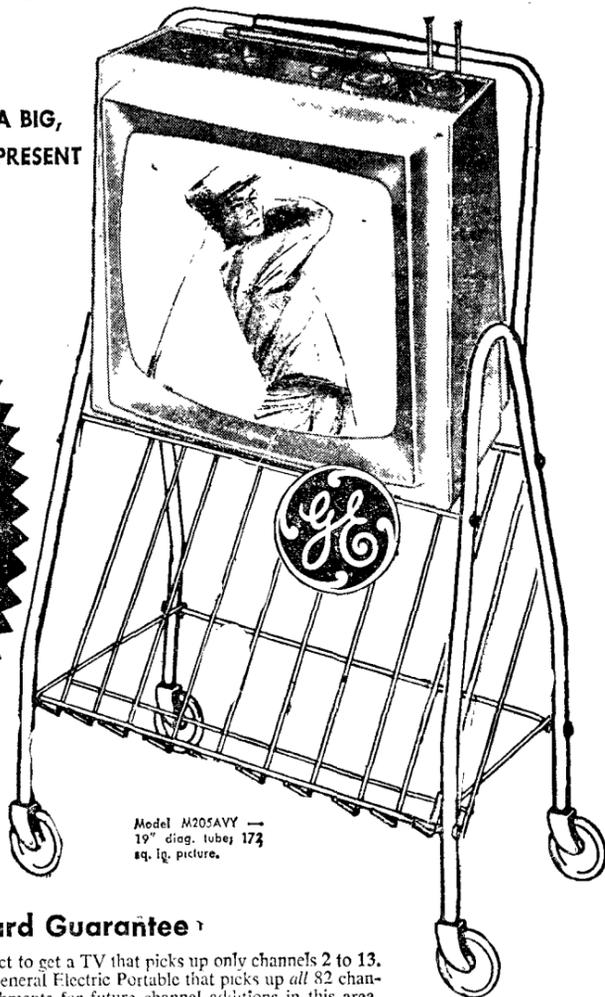
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SOCIAL ^{and} CLUB EVENTS

Mrs. Lewis Will Attend Greek Culture Symposium

Mrs. David T. Lewis, who resides at 1208 Nike Street, Redstone Arsenal, is part of an invited group who will embark on New York October 12 for Athens, Greece, to attend a unique international symposium of Greek culture.

Fifty Americans from 15 states plus the District of Columbia have been invited to attend the symposium on "Persons, Places and the Cultural Contributions of Greece."

The American group will be entertained by prominent Athenians and will conclude their trip with a cruise of the Greek Isles.

The symposium is being sponsored by the Greek Heritage Foundation and GREEK HERITAGE, the American quarterly of

Greek culture.

Leading scholars from Greece, the United States and other countries, will present lectures on ancient and modern Greece at the symposium, to be held in the Greek Parliament Building.

Mrs. Saholsky, Mr. Washburn Win At Bridge

The Monday Night Bridge Group had seven tables in play last week at the Squirrel Hill Officers Club.

Mrs. B. A. Saholsky was high for the women and Mrs. Robert Scott second. Among the men CWO A. V. Garrabrant was the winner with J. W. Washburn runnerup.

Reservations to play with the group are handled by Mrs. J. N. Crawford, 877-5763.

MRS. SAHOLSKY WINS AT BRIDGE

The Bridge Group sponsored by the Redstone Arsenal Officers Wives Club on Thursday morning drew nine tables of players last week.

Winner was Mrs. B. A. Saholsky with Mrs. E. Davis second, Mrs. E. E. Hayes, third, and Mrs. John Powell fourth.

Mrs. Arthur Matthews, phone 536-9958, handles reservations to play with the group. Meeting time is 10 a.m. on Thursday.

Thousands of families prepare for that dream vacation trip by making regular purchases of U. S. Savings Bonds. Join those who SAVE NOW, GO LATER — with U. S. Savings Bonds.

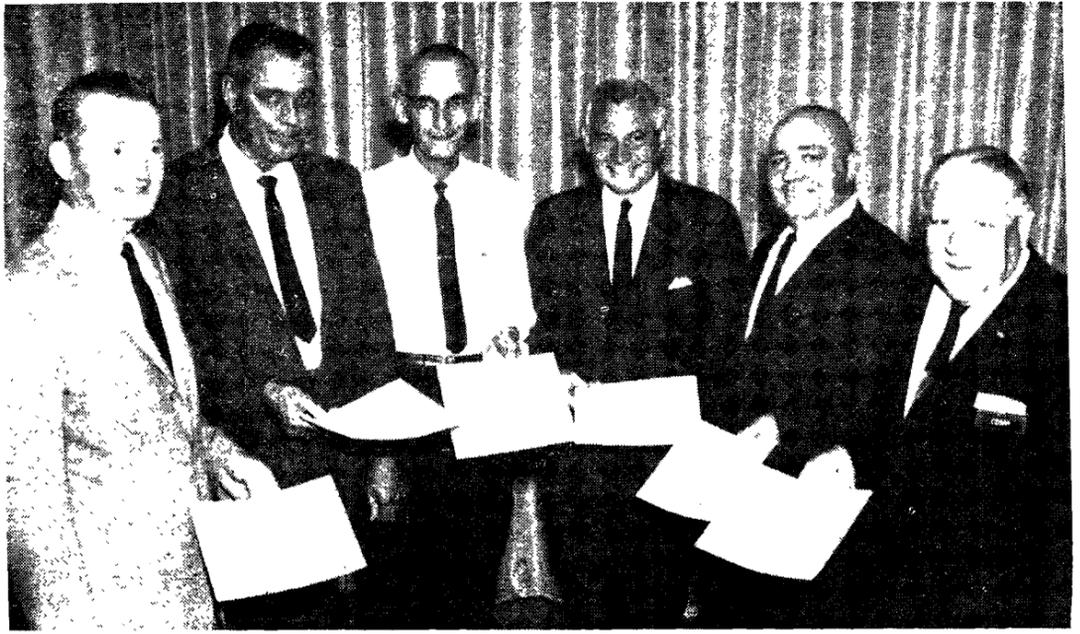
METEOROLOGISTS MEET TONIGHT AT UNIVERSITY

The North Alabama Chapter of the American Meteorological Society will hold its first meeting of the season tonight at 7 p.m. at the University of Alabama Huntsville Branch.

John R. Rogers, a space scientist with the Brown Engineering Co. will address the chapter.

Rogers' subject will be the "Lunar Environment." He will include topics such as the interpretation of large scale topographic features and features caused by impact, igneous action, erosion, and structure movement. These features will be illustrated by slides.

Rogers will also give an interpretation of lunar geology by region with topographic and geologic maps. Future plans for lunar environment study and geologic study will be discussed.



SIX TIMES THIRTY—Certificates for thirty years of Federal service were awarded recently to these six men at the Army Missile Command, Redstone Arsenal. They are, left to right: Earl C. Wade, Directorate of Research and Development; Edward L. Johnson, Directorate of Procurement and Production; James C. McSwain, now retired, Provost Marshal Division, Army Missile Support Command; Richard Hartig, Hawk Project Office; Latha L. Abbot, Directorate of Supply and Maintenance; and John L. Edgar, Finance and Accounting Office of the Support Command. Maj. Gen. John G. Zierdt, Missile Command Commanding General, presented the service awards.

At The Service Club

By Brenda Hanson

What does the word "recreation" mean? The major factor behind recreation is the desire of the individual and the group to achieve happiness. Security, recognition, response, adventure in new experiences, and creativeness, give happiness and satisfaction. The Service Club activities staff tries to satisfy this need.

We begin our packed schedule with the monthly meeting of the Enlisted Men's Council. These men will discuss and help the program for next month. Refreshments will be served.

Thursday night, the weekly meeting of the bridge club will occupy the Small Lounge. We are always looking for a fourth.

On Friday the 9th, in the Main Lounge, will be a Fall and Winter Fashion Show sponsored by the Rocket Service Club. The latest fashions and colors for both men and women will be modeled. Marja's Ladies Shop will furnish models and fashions for the ladies, and Bill's Men's Store will furnish fashions for the men. Before the show, bridge and other card games will be played. Buddy Curry will play organ music throughout the evening. Don't miss the big event.

Saturday, at 2:30 p.m. Coffee Call will be. At 8 p.m. a shuffleboard contest is on the agenda.

Sunday, the 11th, we begin the day by serving hot coffee and donuts at 9 a.m. The main attraction is the dance at 8 p.m. "Fall Fling." The "Rockin Ramblers" will play. This group of musicians are a local group and have proven themselves to be very talented. We have had many request for them, so we hope you will come out and dance to the "Rockin Ramblers" tunes.

Monday, we have another spotlight program. The Service Club, through Third Army Special Services, will present the "Ken Grif-

fin Thrill-Orama." This show will feature the world's most startling illusions. Millions have seen them on Ed Sullivan Show, on "You Asked For It", and other headline TV Shows. So mark your calendar and come to the Service Club for two hours of sparkling entertainment on the 12th at 7 p.m.

Tuesday, the weekly evening of games will be played in the main lounge.

That's all for this week. Keep an eye open. The rest of the month is just as packed as this one. Until then, see you at the club.

Brenda

Ladies Night Planned

Northeast Alabama Chapter of the Alabama Society of Professional Engineers will hold its annual Ladies Night Friday. Featured speaker will be David L. Langford, editor of the Huntsville News.

Reservations may be made by

Guest Lecturer

Joe Aschauer was a guest lecturer at the Naval Reserve Officers' School Wednesday night. He spoke on chemical, biological, and atomic warfare defense as it applies to our environment, and demonstrated the latest instruments designed for the detection of radiological substances. Contamination prevention and decontamination procedures were also discussed.

Aschauer is a civilian employee of the Office of Assistant for Operations and Security, Army Missile Support Command.

calling Bennie Shultz, 536-9828 or 881-4588. A social hour will begin at 6:00 p.m., buffet at 7:00 p.m. and program at 8:00 p.m. There will be dancing from 9: until midnight.

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VOTE—Lt. William R. Holmes, the executive officer in the Redstone Arsenal Troop Command, is also the voting officer. He conducted a special program in the Mess Hall last week to urge all soldiers in the Command to cast absentee ballots. Above he hands SP4 John Ingram an absentee ballot application. Ingram, a member of the 291st Military Police Company, is a voter in Rockingham, N.C. He graduated from Leak Street high school in that city.

Sergeant Major Is Not Specie Of Fish

Officials of the U.S. Army Ordnance Guided Missile School are having a difficult time proving that their four Sergeants Major are not a specie of fish.

With the recent promotion of two enlisted men to the rank of Sergeant Major, many of the "Missile Academy" suddenly realized that very little, if anything, is known about the relatively new cadre grade.

Those who resorted to the encyclopedias discovered that a Sergeant Major is "a small tropical fish of the demoiselle family,"

and that these fish are "abundant about coral reefs from Bermuda to Uruguay and have five dark vertical bands on their sides."

Every military man worth his rank knows that a real Sergeant Major wears a three-stripe chevron over three rockers and a star.

Outdated military texts gave others at the School a vague answer to the Sergeant Major question.

A Sergeant Major is an English military sergeant-at-arms, according to the texts, who was warned by something called the barry

council of 1634 not to "cutt or slashe shoulders with his swourde except on just occosiones."

But others found an almost satisfactory definition in an edition of Webster's Dictionary. The dictionary informs: "In the U.S. Army it is a position held by either

a master sergeant or a technical sergeant at a headquarters, to assist the adjutant and to supervise the enlisted men on duty at the headquarters."

School officials are content just to know the four Sergeants Major bear a large share of the work that must be done at OGMS. In addition to American G.I.'s, missilemen from 17 foreign nations train here in the maintenance of the Hawk, Nike, Sergeant and Pershing missiles.

The four Sergeants Major at the School include Roy White and Harry Keever. James H. Atherton and William Neil recently received their promotion to the highest enlisted rank.

Sept. 12, 1963 — U. S. AMC General Order No. 52 transferred the Automatic Data Processing Department from the U. S. Army Electronics Research and Development Activity, Arizona (USAERD-AA), Fort Huachuca, Arizona, to the Office of the Project Manager, Command Control Information Systems—1970 (CCIS-70).

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CONTINENTAL COIFFURES
University Shopping Center (University Drive, N.W.) — Phone 837-3418

FASHION TRESS BEAUTY SALON
3228 Bob Wallace Avenue — Phone 536-8584

NITA & DAVE'S SALON OF BEAUTY
Preston Bldg., Cor. Jordan Lane & Holmes — Phone 536-8841

Welcome Mat

The ROCKET extends a welcome to the following named officer personnel who have recently been assigned to positions with Army organizations on the Arsenal.

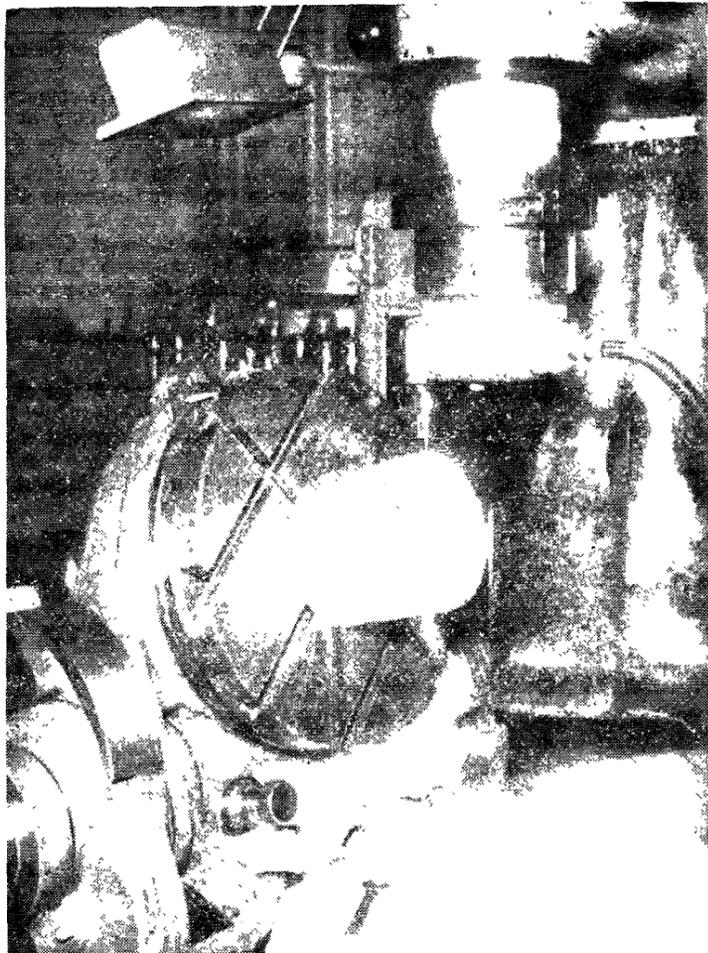
ARMY MISSILE COMMAND: Lt. Col. Robert M. Pearce, Shillagh Project Office; 1st Lt. Samuel P. McManus, Lance Project Office; Capt. Terry M. Carlton, Msl Intell; Capt. Charles D. Young, 1st Lt. Robert C. Mikolashek and 2nd Lt. Jan W. Matousek, all assigned to Procurement & Production Directorate;

Lt. Col. Almon R. Roth, 2nd Lt. Charles D. Whitener and 2nd Lt. Edward C. Manlove, Jr., with the Research & Development Dir.; 2nd Lt. Alan R. Edberg and 2nd Lt. Donald H. Esry, both with the Supply & Maintenance Directorate; W-2 William Giles, Hawk Project Office; and CWO Dale Marsh Graham, ADFC/DC.

ARMY MISSILE SUPPORT COMMAND: 2nd Lt. David C. Anderson, 2nd Lt. Thomas L. Koch and WO Frank L. Kirsopp, Jr., assigned to the Communications Center; Captains James A. Madura, John E. Hoar and Lawrence M. Freeman, with the Medical Detachment; 2nd Lt. Thomas F. Cleveland, Jr., Special Services; and 2nd Lt. Robert Stanley Ross, 291st Military Police Co.

NIKE V PROJECT OFFICE: Lt. Col. Terrence H. McCormick and Maj. Robert W. Specker (duty station, Kwajalein Island).

The ROCKET extends a welcome to the following civilian personnel who have recently accepted positions with Army organizations at Redstone.



TO A GNAT'S WHISKER—Charles Chaffin, an Army Missile Command Engineering Technician, keeps a close eye on his task of machining a component for fluid flow tests in the Inertial Guidance and Control Laboratory. Chaffin and a co-worker Jimmy Merrell rigged up an air motor to a jig boring machine to obtain the required accuracies of .0002 of an inch. (See story on Page 16)

ARMY MISSILE COMMAND Procurement & Production: Lloyd C. Alderman, Viola M. Blu-

menschlein, Deana L. Braden, Thomas K. Bradford, John J. Fitzpatrick, Doris S. Fleming, Sherry J. Greene, Celia S. Johnson, Russell J. Keeler, Bertha R. Lain, Ross B. Langston, Sallie J. Maulding, Helen Moffett, Hugh E. Nunneley, Howard W. Ramsey, William R. Rencher, William M. Schmidt, and John D. Shanahan.

Research & Development: Lee-Dell F. Bailey, Doris G. Click, Lewis W. Cresswell, Donald H. Dahlene, Cody W. Foote, Kathryn F. Gross, Marvin W. Hodges, Donald R. Johnson, Kimmy K. Justice, James C. Katechis, Harry C. Meyer III, Bobby Osborne, Jocelyn M. Perkerson, Johnny L. Prater, Stanley L. Pruett, Garvis E. Richmond, James R. Smith, Charles E. Sloan III, Lee E. Sumner, Jr., Veronica M. Totten and William D. Puckett.

Supply & Maintenance: George F. Arsics, Delbert E. Bailey, Joel E. Blanks, Linda H. Boster, Sara I. Canada, Daniel B. Cox, Carl P. Dunkel, Manuel H. Epperson, Darrell W. Fletcher, J. T. Gaither, Jr., Robert E. Hall, Mary E. Harvey, Sandra K. Hicks, Mitchell C. Hopper, Barbara G. Hundley, Russell H. Kinseth, D. June B. McCary, William J. McMillan, Betty K. Roth, Bertha J. Strong, James C. White, Marshall F. White and Wayne Williamson.

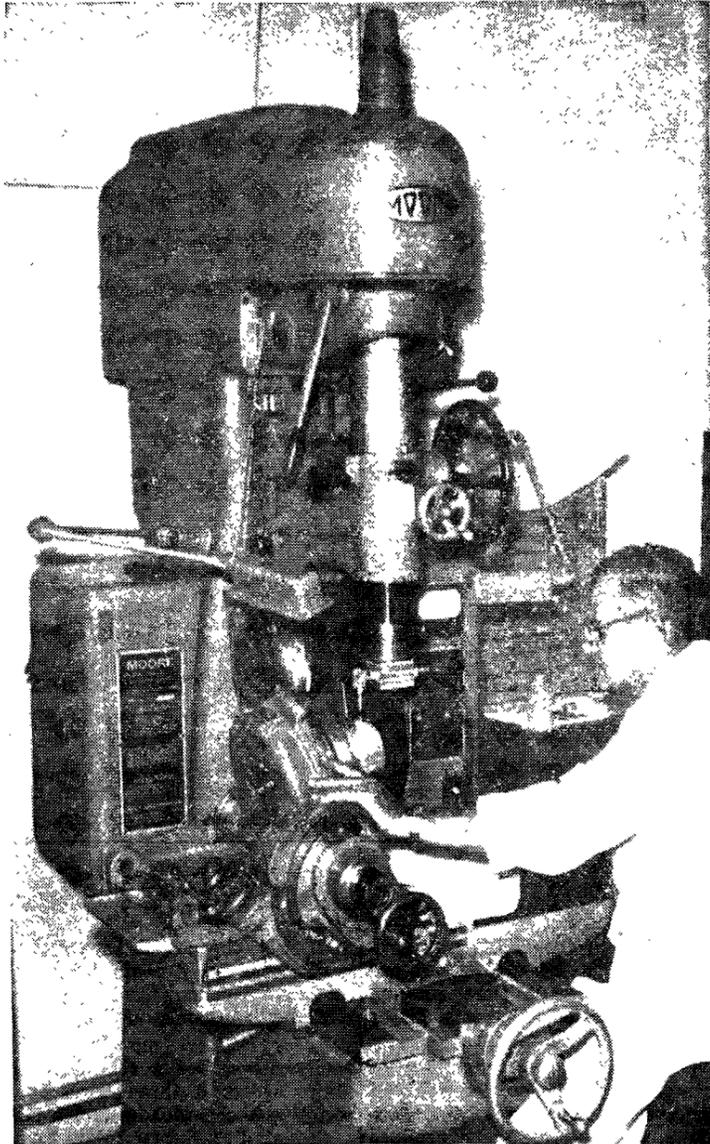
Project Offices: Ruby B. Carter, Sybil G. Cobb, **Pershing**; Donald W. Griffis, Gerald W. Hutchison, Glenda G. Jett, **Sergeant**; Donald F. Keeran, Emma Y. Strickland and Edgar K. Taylor, **Hawk**; Loretta T. Maher, Mauler; Jack P. Parish, **Lance**.

Others: Barbara S. Butler, Spec Asst, SPO; Joseph L. Camp and Mary G. Martin, Install & Sys; Byrd R. Latham and Shirley G. Sums, Gen Counsel; Fred G. Pera, Jr., and Evelyn S. Steele, ADFC/DSO; and Claud C. Ruthven, MS&DSO.

NIKE X PROJECT OFFICE
Karen J. Adams, Sue C. Cooper, Judith S. Grisham, Jean B. Johnson, John B. Joyner, Edward R. Kahrs, Edith M. Hollman, Thomas L. Moore, Helen Pounders and David Studebaker, Jr.

ARMY MISSILE SUPPORT COMMAND

Oswyn E. Brown, Spec Sys; Jeter E. Dollahite, Provost Marshal; Carol A. Freeman and Brenda J. Raynes, Civ Pers Ofc; Charles E. Harper, Wayne N. Nance, William E. Shelton and Rose S. Wiggins, all in Fin & Acctg; Gary James and Paul Linderman, Computations Center; Jack W. Jones, Asst for Comm; Scarlett R. Jones, Control Office, Kermit G. Lawrence, and Charles O. McMurray, Post Engineers; Johnnie S. Todd, Purchasing & Contracting; and Doris B. Toney, Patent Center.



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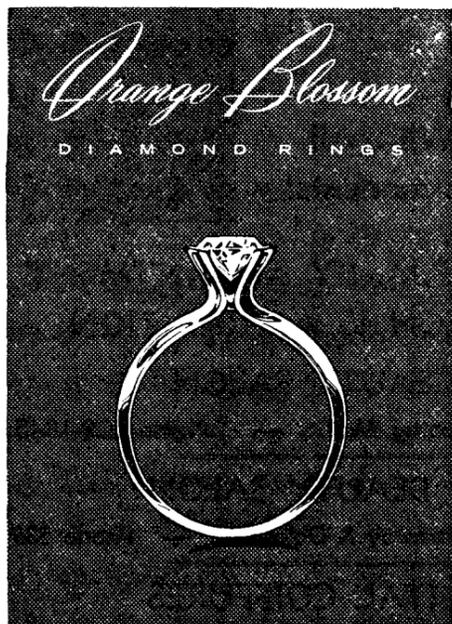
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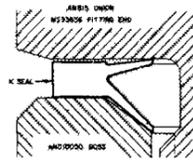
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Harold Speake To Address Local Bar Association

The Explorer Chapter of the Federal Bar Association has elected new officers for 1964-1965.

They are Harold L. Speake, president; John H. Lynch, Jr., vice president (executive); Robert Berman, vice president (delegate-at-large); Daniel B. Reece III, secretary-treasurer; and Leonard Flank, parliamentarian.

Speake, Director Finance and Administration of Thiokol Chemi-

cal Corp.—Huntsville Division, is a graduate of the University of Alabama School of Law and is licensed to practice in Alabama.

Lynch graduated from Cumberland University and is licensed to practice in Tennessee. He is an Attorney Advisor in the office of General Counsel, Army Missile Command.

Berman, a graduate of New York Law School, is licensed to practice in the State of New York. He is employed in the Chief Counsel's office at Marshall Space Flight Center.

Reece, a patent attorney at Marshall Space Flight Center, graduated from American University,

Washington College of Law, and is licensed to practice in Virginia.

Flank, licensed to practice in Illinois, graduated from DePaul University. He is employed by the Army Missile Command Patents Center.

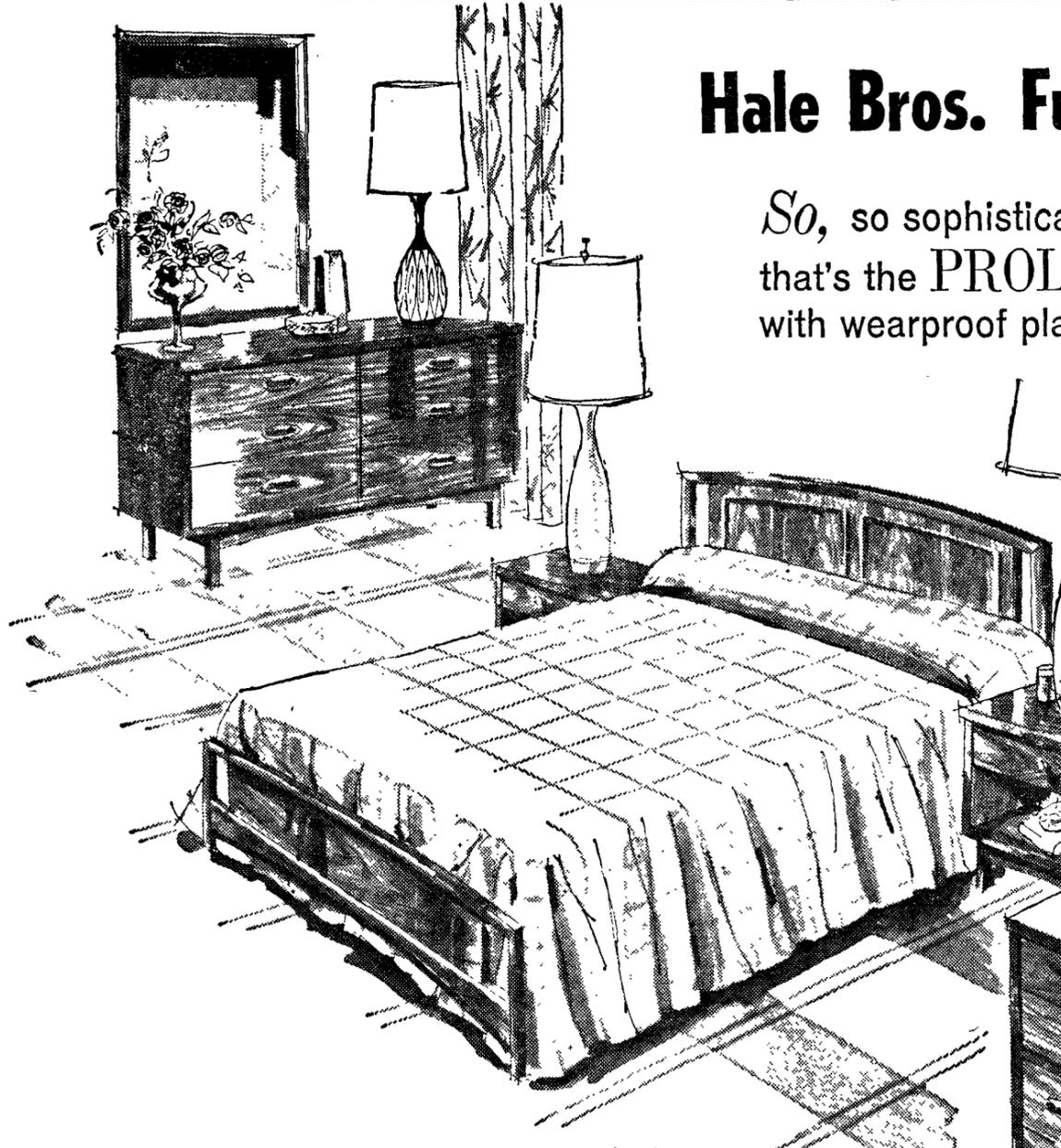
The Federal Bar Association, founded in 1920, is a professional organization for lawyers who are, or have been, employed in the service of the United States or the District of Columbia.

The purposes of the association are to advance the science of jurisprudence; to promote the administration of justice; and to uphold a high standard for the Federal judiciary.

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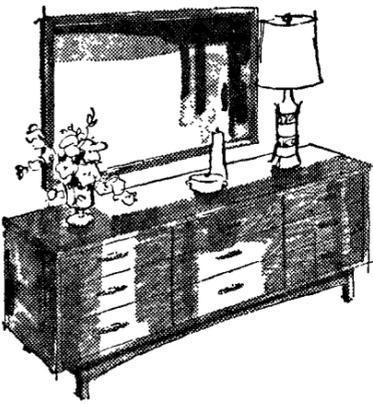
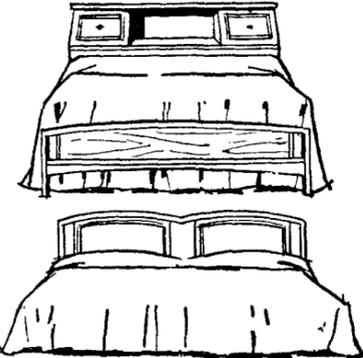
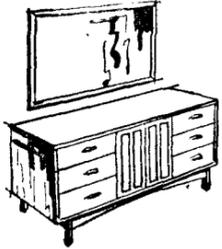


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Standards Of Conduct Modified By Defense

Limitations on DOD personnel accepting "any favor, gratuity, or entertainment" has been defined more precisely by a modification of the Department's directive on "Standards of Conduct."

The previously effective paragraph on the subject, in DOD Dir. No. 5500.7 dated May 1963, reads as follows:

"DOD personnel will not accept any favor, gratuity, or entertainment directly or indirectly from any person, firm, corporation, or other entity which has engaged, is engaged, or is endeavoring to engage in procurement activities or business transactions of any sort with any agency of the DOD, where such favor, gratuity, or entertainment might affect or might reasonably be interpreted as affecting, or give the appearance of affecting, the objectivity and impartiality of such personnel in serving the government."

Experiences of the past year have indicated that this discretionary language (boldface type in the paragraph above) used in this section of the directive has been variously interpreted by Defense personnel and in some cases has resulted in actions considered inconsistent with the spirit and intent of the directive. This section of the directive has been modified to read as follows:

"VI. Gratuities: A. DOD personnel will not accept any favor, gratuity, or entertainment directly or indirectly, from any person, firm, corporation, or any other entity which has engaged, is engaged, or is endeavoring to engage in procurement activities or business transactions of any sort with any agency of the DDOD except as provided in 1, 2, and 3 of this section. Favors, gratuity or entertainment bestowed upon members of the immediate family of DOD personnel are viewed in the same light as those bestowed upon DOD personnel. Acceptance of entertainment, gifts, or favors (no matter how innocently tendered or received) from those who have or seek business dealings with the Department of Defense may be a source of embarrassment to the Department and to the personnel involved, may affect the objective judgment of the recipient and impair public confidence in the integrity of business relations between the Department and industry.

1. In some circumstances the interests of the government may be served by participation of Defense personnel in widely attended luncheons, dinners and similar gatherings sponsored by industrial, technical and professional associations for the discussion of matters of mutual interest to government and industry. Participation by Defense personnel is appropriate where the host is the association and not an individual contractor. However, acceptance of entertainment or hospitality from private companies in connection with such association activities is prohibited.

2. In some circumstances the interests of the government may be served by participation of Defense personnel in activities at the ex-

pense of individual defense contractors. These activities include public ceremonies of mutual interest to industry, local communities, and the DOD, such as the launching of ships or the unveiling of new weapons systems; industrial activities which are sponsored by or encouraged by the U.S. Government as a matter of U.S. Defense or economic policy, such as sales meetings to promote offshore sales involving foreign industrial

groups or governments; and luncheons or dinners at a contractor's plant, on an infrequent basis where the conduct of official business within the plant will be facilitated and where no provision can be made for individual payment.

3. There may be a limited number of additional situations where, in the judgment of the individual concerned, the government's interest would be served by participation by DOD personnel in ac-

tivities comparable to those enumerated above. In any such cases in which DOD personnel accept any favor, gratuity, or entertainment directly or indirectly from any person, firm, corporation, or other entity which is engaged in business transactions of any sort with the DOD, a report of the circumstances will be made within 48 hours to the designee of the Sec-

retary of the military department concerned, or to the designee of the Secretary of Defense in the case of DOD personnel not within one of the military departments.

The amendment, signed by Dep. Secretary Cyrus R. Vance on Sept. 25, 1964, will be included in the reissue of the directive. All other sections of the basic directive remain the same.

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SAN DIEGO

Leave Huntsville 3:50 pm
Arrive San Diego 9:57 pm
Tourist Fare \$113.85

HOUSTON

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Evening service to Orlando/Cape Kennedy

Lv. 5:51 pm for Atlanta and one-stop DC-7 arr. at Herndon Airport at 10:29 pm

All Huntsville departure times shown are via Southern Airways to Atlanta

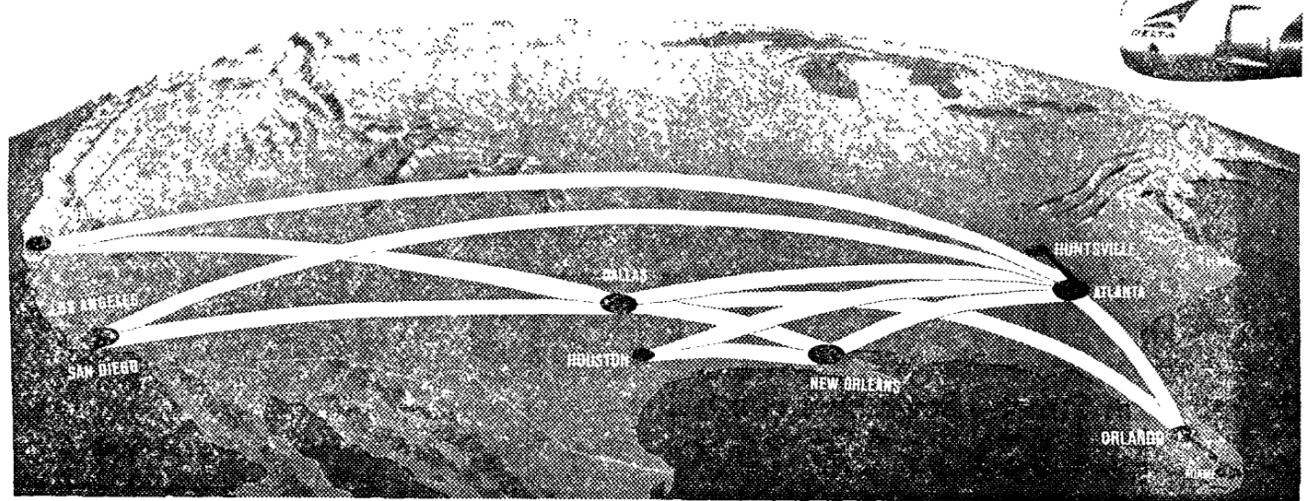
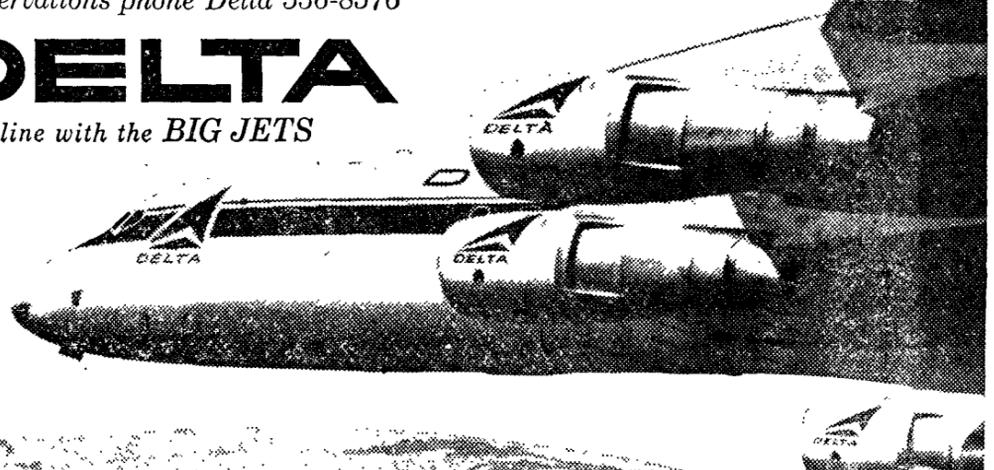
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Association Proves Lucky For Hensley

The paths of CWO Clay Hensley and Col. William J. Macpherson crossed again here Friday as they have at several fateful points in the career of the 45-year-old missile maintenance expert.

This time Hensley is to receive a second Army Commendation Medal as he winds up a tour at the Army Ordnance Guided Missile School and heads for a new assignment in Weisbaden, Germany.

Hensley and Col. Macpherson's orbits met first in 1960 when the colonel, then head of the Missile School's Research and Curriculum Department, as president of a Warrant Officer Selection Board that recommended Hensley for promotion upon completion of the Hawk missile system maintenance supervisor course.

A few weeks later, Col. Macpherson pinned warrant officer bars on Mr. Hensley who was then assigned to the Hawk foreign unit training program at OGMS for a short while, then sent to Korea.

Returning to OGMS in 1962, Hensley was assigned by Col. Macpherson, who by then had become Commandant, as Chief of the Hawk Branch of the school's Unit Training Command.

In November of that year, Col. Macpherson presented Mr. Hensley an Army Commendation Medal awarded by Army Headquarters in Korea.

Now, as he departs for Germany, Hensley is receiving a second Commendation Medal — again from (you guessed it)—Col. Macpherson. "Col. Mac seems to bring me luck," Hensley commented.

Hensley joined the Army in 1943 after living in North Carolina, Missouri and Idaho. His wife and son, a high school senior, will accompany him to Germany.

Raytheon Receives Contract For More Hawk Work

The Raytheon Co. will continue engineering services on the Army's Hawk anti-aircraft missile system under an \$8,929,175 contract announced Sept. 29.

The Hawk System, in operation with American and NATO troops, provides defense against low altitude, high performance aircraft.

The contract was signed with the Army Missile Command, which has technical management of the system. Col. George McBride is Project Manager.

Raytheon is the Hawk prime contractor. Work provided for in the cost-plus-incentive-fee contract will be performed at Andover, Bedford and Wayland, Mass., and White Sands Missile Range, N. M.

The contract was negotiated by the Missile Command's Directorate of Procurement and Production, Systems Contract Division. Col. B. A. Saholsky is the Missile Command's Director of Procurement and Production.



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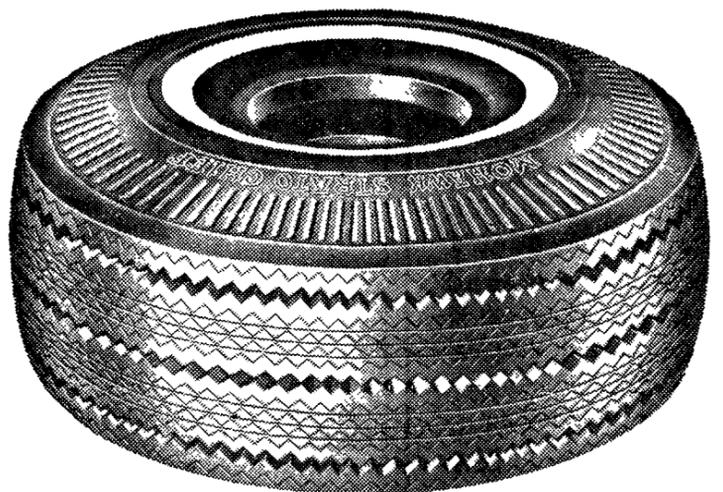
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Page 14 The Redstone Rocket — October 7, 1964

1. For Rent

FOR RENT—4000 sq. ft. workable area office space, second floor Quick Building. Available July 1. 117 Greens St., Downtown Huntsville. Phone 534-5127 or 534-4551. tfc

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

FOR RENT—2 bedroom Mobile Home, air conditioned, near Gate 3. Reasonably priced. 10-14p



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Pistol Team Continues To Bring Home Trophies

Redstone's pistol team returned from the Alabama State Pistol Championship matches with two of its members named to represent Alabama on the State team and one member the state team coach for the firing members.

They also brought home some trophies.

Lt. James Degen and SP5 Stephen Mihalak have been chosen to fire in national competition on the Alabama team—two of the top ten .22 calibre pistol shooters residing in the state; and Sgt. Maj. Roland Martin is the coach.

Degen has been firing approximately six months and has moved from marksman to master in that time. Mihalak has been firing with the Redstone team for approximately 18 months. Sgt. Maj. Martin was on the firing team last year.

During the State Pistol Championship matches, the Redstone shooters accumulated 13 first place awards, seven second place awards with Lt. Degen taking nine of the first places and four second places. He placed first in the overall grand aggregate in the expert class and has been reclassified a master.

SP5 Mihalak came home with two first places in the master class, SSgt. James Copeland had a first and second place in the expert class, and First Sgt. Francis Gurecki took one first place and two second places in the sharpshooter class.

The team was competing with teams from the Army, National Guard, Air Force and civilian shooters representing Alabama, Georgia, Florida and Tennessee.



CHAMPIONS—Winners of the championship and the first and second flights in the 54-hole medal play tournament for the Golf Group sponsored by the Redstone Arsenal Officers Wives Club are (left to right): Lella Mullins, first flight; Mrs. William Wachslar, champion and medalist; and Mrs. Tony Windell, second flight. Trophies were presented at lunch last week at the Squirrel Hill Officers Club.

Mrs. Wachslar Wins Golf Tournament At Post Course

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club came up with a new champion and medalist in the annual tournament at the Arsenal course last week.

She is Mrs. William Wachslar who won the championship flight and was medalist in the 54-hole medal play.

Runnerup was Mrs. Frank Napper. Winners and runnerup in the next two flights were: Lella Mullins, winner and Mrs. R. W. Mundy, runnerup in the first flight; Mrs. Tony Mitchell, winner and Mrs. Lloyd Deppensmith, runnerup in the second flight.

Twenty-four members of the golf group entered the tournament.

Trophies were presented during a luncheon at the Squirrel Hill Officers Club. Mrs. J. G. Zierdt made the awards on behalf of the group. The Golf Group chairman is Mrs. W. D. Lewis.



RUNNERS-UP—The second high women in the Golf Group Championship Tournament at the Arsenal Course last week were (left to right): Mrs. Frank Napper, championship flight; Mrs. R. W. Mundy, first flight; and Mrs. Lloyd Deppensmith, second flight. The tournament is an annual event.

WRIGHT IS TOPS

PFC John F. Wright of Montgomery, Ala., was named honor student Friday in his 12-man class of Hawk international guidance and launcher electronic repairs at graduation ceremonies at the Ordnance Guided Missile School.

Lt. Peter A. Miller, an instructor in the electronics division, Missile Components Department, addressed the graduates.

Wright is the son of Mr. and Mrs. Ervin R. Wright. He is a graduate of Auburn University and entered the Army in January 1964.

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Former Mayor Receives School's Coat Of Arms

Retiring Huntsville Mayor R. B. Searcy was given a plaque yesterday by the Ordnance Guided Missile School at a luncheon honoring Gen. Charles W. G. Rich at the Redstone Officers Club.

Col. William J. Macpherson, commandant of the Missile School, presented Searcy a school coat of arms in appreciation for outstanding military-community relations.

ing military-community relations.

Glenn Hearn, who was sworn in Monday as the new mayor, was also present at the luncheon.

Gen. Rich, commanding general of the Third U.S. Army, was visiting the Missile School on an orientation tour.

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Carl Culverhouse AND ASSOCIATES

Engineering Technicians Overcome Impossible

A recently completed piece of work by two Army Missile Command Technicians makes threading a needle look easy.

Charles Chaffin and Jimmy Merrell, of the Inertial Guidance and Control Laboratory in the Directorate of Research and Development were given the task of ma-

chining a piece of metal with slots in the top with measurements accurate to .0002 of an inch.

The biggest problem was the method in which the slots had to be cut. The slots had to be cut at an angle, both inside and outside the top of a cylindrical piece of metal, coming to a knife edge

where the slots met .1875 of an inch from the top of the cylinder.

Each slot on the outside had to be identical, as did all slots on the inside. In operation, fluid flows through the slots, and even a metal burr too small to be seen without magnification could affect the flow.

Chaffin said the normal procedure would be to use a slotter, which required removing the piece of metal to change angles between the inside and outside slot cuts. This reduced the chances for accuracy and the knife edges tended to curl where the slots met.

Both conditions affected the hot gas flow during the missile tests.

Chaffin and Merrell decided to use an air motor, which runs at extremely high speed without motor heat. The air motor was rigged to a jig boring machine, which made it possible to cut both the inside and outside slots without removing the metal from the machine.

The high speed eliminated the

tendency of the metal curl, and the absence of motor heat eliminated the possibility of thermal movement.

After the machining job was finished, Chaffin said the accuracy requirements were met, with .0001 of an inch or so to spare.

The component, or different sized copies, will be tested on the

Army's ranges at Redstone Arsenal. Melvin Crisco, head of the Laboratory's machine shop, said the shop had never been stumped but admitted that occasionally it takes time to figure out a new method.

Crisco said the working slogan of the shop was "Complicated jobs take time, the impossible takes a little longer."

Awards and Decorations

The award of the Good Conduct Medal has been made to the following named enlisted personnel in recognition of their exemplary behavior, efficiency and fidelity. The award covers the period indicated.

Good Conduct Medal (fifth award): SMAJ James E. Robinson, Hq & Hq Det, USAMSC, and SFC Carl Thomas, 291st Military Police Company.

Good Conduct Medal (fourth

award): SSGT John E. Bunch, USAMICOM.

Good Conduct Medal (third award): SSGT Junior L. Smith, Hq & Hq Det, USAMSC; SP5 Earl J. Wilson, Hq & Hq Det, USAMSC; and SFC Keith E. Brown, USAMICOM.

Good Conduct Medal (first award): SP5 Jackie M. Beverly and SP4 Vivian Bleyle, both assigned to USA ADFC/S Office.

Page 16 The Redstone Rocket — October 7, 1964

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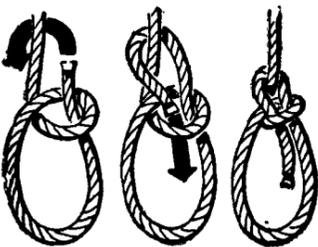
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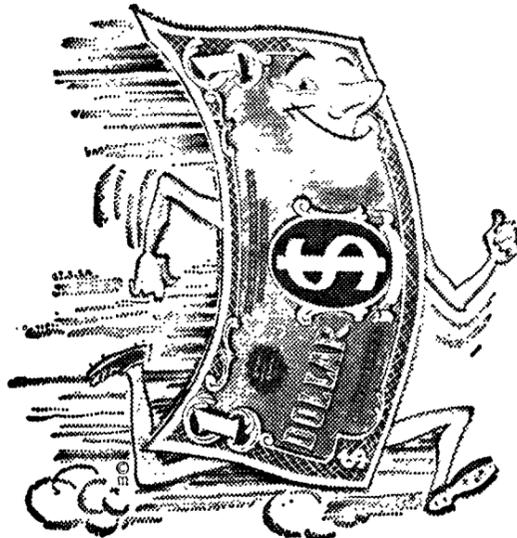


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