

Arsenal-Wide

Spot News

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The Redstone Rocket

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VOL. XII; NO. 40

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 19, 1964

GEN. BESSON TO DEDICATE LABORATORY

To Get Charter

Army Finance Group Meets Tonight

Redstone Arsenal's young chapter of the Army Finance Association will observe one of its first milestones tonight when the chapter is officially presented its charter at a dinner meeting in the Squirrel Hill Officer's Club.

Maj. Gen. Paul A. Mayo, Chief of Finance of the Army as well as



TO PRESENT CHARTER—Maj. Gen. Paul A. Mayo, Chief of Finance of the U. S. Army, will officially present a charter tonight to the Redstone Arsenal chapter of the Army Finance Association.

president of the Army Finance Association, will fly here to make the presentation.

Col. David A. Marcelle, Finance and Accounting Officer of the Army Missile Support Command, is president of the Arsenal chapter which was organized in November 1963.

Other officers include Seymour J. Farber, vice president, Josephine L. Smith, secretary treasurer; James D. Ratliff, assistant secretary treasurer; William Estes, and Joseph N. Beaver, members of the board of managers.

O. O. Roundy, program director, arranged the charter presentation and the dinner.

This chapter was the 24th and most recent to be granted a charter in the Army-recognized professional group. Membership is not limited to Army personnel alone, however, but is open to people in both government and industry.

While here, Gen. Mayo will tour Army Missile Command facilities, Nike-X Project Office, Ordnance (See FINANCE on Page 3)

ON ABC-TV

Kenneth Ritthaler, Upton, Wyo., High School National Science Fair winner, will appear on ABC Television's Science All Stars program Sunday with Maj. Gen. Frank H. Britton, Director Research and Development, Army Materiel Command. Young Ritthaler visited the Army Missile Command's Electromagnetic Laboratory to get help in souping up his LASER in late 1963. The program will be carried at 2:30 over Huntsville's channel 31.



CAMPAIGN STRATEGY—Gustavus Brown (seated) and Abner McNaron discuss the preliminary plans for the 1964 Joint Fund drive on the Arsenal. Brown was designated chairman of the drive by Gen. Zierdt and he in turn selected McNaron and Merlin Berg, to serve with him on the Executive committee. Brown works in Installations and Services, McNaron is in the Comptroller and Director of Program Office, and Berg, who was not available for the picture, is employed in Management Sciences. They have planned a four-week drive starting Mar. 15 in support of the National Health Agencies and the Joint Crusade.

Joint Fund Heads Named; Drive To Start March 15

Completion of the preliminary administrative details last week set the stage for the 1964 Joint Fund Drive on Redstone Arsenal over a four-week period starting March 15.

The campaign, covering Army elements at Redstone Arsenal, includes the U. S. Army Missile Command, the U. S. Army Missile Support Command, the Army Ordnance Guided Missile School, the Nike-X Project Manager and the Area Engineer Office. In addition, the firms of Rohm & Haas Company and the Thiokol Chemical Corporation participate.

Directing the drive for the third consecutive year will be Gustavus Brown, of the Missile Command's Installations and Services Office. Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, selected Brown to fill the assignment, and approved of his choice of Abner McNaron and Merlin Berg for other key posts. (See JOINT on Page 3)



STANLEY C. DONNELLY

Donnelly Is AFCEA Guest Tomorrow

Stanley C. Donnelly of Durham, N.C., and well known among older heads at Redstone Arsenal, will be guest speaker Thursday (Feb. 20) at the dinner meeting of the Huntsville Chapter, Armed Forces Communication and Electronics Association.

Subject of Donnelly's talk will be "Bosses." A social hour will be held from 6:30 until 7:30 p.m. with dinner following. This is the regular monthly meeting of the Association and will be at Squirrel Hill Officers Club.

Donnelly will be introduced by Maj. Gen. John G. Zierdt, Commanding General, Army Missile Command. They were closely associated in 1959 when the General was in the Nike Zeus program for the Army and Donnelly was manager of the project for Western Electric Co.

At the present time, Donnelly is Assistant Works Manager for (See DONNELLY on Page 2)

Ceremony Scheduled At Redstone March 12

The man whose job is to furnish the soldier with his fighting hardware will dedicate the Army Missile Command's new research and development facility on March 12.

He is Lt. Gen. Frank S. Besson, Jr., Commanding General of the U. S. Army Materiel Command in Washington, D. C.

Gen. Besson will dedicate the modern facility to the memory of Maj. Gen. Francis J. McMorrow, who was commanding the Missile Command at the time of his death on August 24, 1963.

Mrs. Francis J. McMorrow, widow of the late General, will also be on hand for dedication of the "Francis J. McMorrow Missile Laboratories."

In addition, several officials of the State of Alabama are expected to attend, as well as a number of dignitaries from the Huntsville area.

Plans for the dedication were disclosed by Maj. Gen. John G. Zierdt, who succeeded Gen. McMorrow.

The building which houses the Francis J. McMorrow Missile Laboratories is nearing completion at the home of the Army's missiles. A second building, designed to house the Research and Development Directorate's Inertial Guidance Laboratory will be located as a third wing to the new facility.

Events in the dedication, scheduled for 2 p.m. on March 12, will include brief remarks by Gen. Besson and other visiting dignitaries, to be followed by a brief tour of the building.

Gen. Zierdt has stated that a limited number of exhibits demonstrating the work done in the new facility will be on hand.

The building now nearing completion—valued in excess of four million dollars—is designed to house research and development laboratories as well as other personnel and equipment of the Command's Directorate of Research and Development.

The new buildings are sited on a low hill south of the Missile Command's headquarters building where Gen. McMorrow served until his death of a heart attack (See GEN. BESSON on Page 3)



WILLIAM J. HOWARD

Atomic Energy Secretary Will Address Engineers

The keynote speaker at the fifth annual Engineers' Week banquet and dance, Feb. 22, will be William J. Howard, Assistant Secretary of Defense for Atomic Energy.

Howard, who for many years has been engaged in activities dealing with some aspect of nuclear weapons, will speak on the subject: "Scientists and Engineers in Government."

The annual occasion, traditionally the climaxing activity of National Engineers' Week here, will be held at the Squirrel Hill Officers Club, according to Ben Keyserling, Engineers' Week chairman and master of ceremonies. The social hour will begin at 6 p.m., followed by dinner at 7 p.m.

A special feature prior to the guest speaker will be the presentation of distinguished service awards to outstanding local members of the following Engineers' (See SECRETARY on Page 3)

Col. Luczak Is New Mauler Manager; Smock Named Hercules Acting Head



COL. B. R. LUCZAK

A veteran of the Army's rocket and guided missile program has been named Project Manager of the Mauler Missile System, the Army Missile Command announced.

He is Col. B. R. Luczak who had been Project Manager of the Nike Hercules program since January, 1963.

Col. Luczak, who has more than 18 years of training in the missile business, replaces Col. N. T. Dennis who leaves for a new duty assignment as chief of the Cincinnati Procurement District.

E. L. Smock, formerly Deputy to Col. Luczak, has been named acting Project Manager of Nike Hercules pending the assignment of a new Project Manager.

Col. Luczak's first assignment with the Army Missile Command was in July, 1962 when he was named Deputy to the Commanding

General of Air Defense Systems. He served in this capacity until 1963 when he was assigned to the Nike Hercules Office.

A native of Pittsburgh, Penn., Col. Luczak holds a B. S. Degree in Industrial Engineering from the University of Pennsylvania and a Masters' Degree in Business Administration from Stanford University.

Early in World War II, he directed the firing training programs of more than 100 heavy gun battalions and some 80,000 officers and enlisted men. A later assignment was operations officer for a 22,000 man force to destroy German V-1 rockets fired at Antwerp, Belgium. At the end of the war, he was second in command of an anti-aircraft brigade on the German-Czechoslovakia border.

For these and other assignments, (See COL. LUCZAK on Page 3)

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

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Rocket Ruminations

Satire's my weapon, but I'm too discreet to run amuck, and tilt at all I meet. —Alexander Pope

Without Our Engineers?

Redstone Arsenal would not be much of a scientific center without its engineers and the Rocket takes National Engineers Week as a time to doff its hat to them.

Aside from the fact that the creative engineering accomplishments of yesterday, today and tomorrow would not be possible without the men and women who have the ideas and the technical knowhow to push their ideas from drawing boards to hardware, we take a down-to-earth viewpoint.

It is estimated that 15 per cent of the Army's work force at Redstone is composed of engineers and other scientific technicians. That means they justify jobs for the other 85 per cent of us.

Indeed we do salute Redstone Arsenal engineers during National Engineers Week! What can we do to help you?

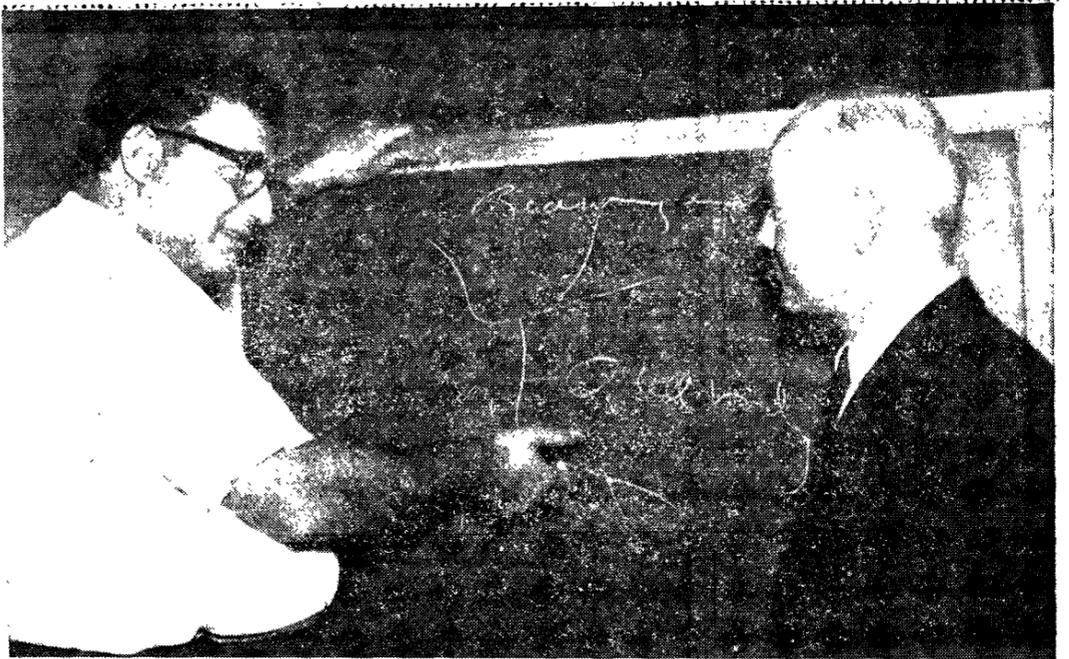


Just Another Holiday?

America owes much to George Washington and his faithful men of the first Continental Army. His farewell prayer to his troops in 1783 deserves to be reconsidered as we take note of the birthday of the first president of the United States.

"Almighty God, we make our earnest prayer that Thou wilt keep the United States in Thy holy protection; that Thou wilt incline the hearts of the citizens to cultivate a spirit of subordination and obedience to government; to entertain a brotherly affection and love for one another and for their fellow citizens of the United States at large."

The Rocket suggests that Friday, to be observed as an official Holiday since George Washington's birthday anniversary is on Saturday this year, should mean more than a day off with pay to us. It offers an opportunity to pledge anew our determination to protect the freedoms so dearly bought by our forefathers.



NERVES WORK THIS WAY—Dr. Jerome Y. Lettvin (left), neurophysiologist at the Massachusetts Institute of Technology, illustrates a point about the nervous system during a discussion with Harry F. Vincent, Project Director of the Army Missile Command's Directorate of Research and Development. Dr. Lettvin lectured to Missile Command scientists and engineers on the relationship of the nervous system with problems encountered in the world of technology.

Without Nerves Thinking Machine Can't Be Made

The miracles of nature cannot be mechanically copied in scientific hardware until after considerably more study, a visiting lecturer from Massachusetts Institute of Technology told scientists and engineers of the Army Missile Command in a morning lecture.

Dr. Jerome Y. Lettvin, a neurophysiologist with MIT's Research Laboratory for Electronics, said each tiny cell of the nervous system is affected by, and also affects, all other cells of the complete unit. This complicated network must be understood much more thoroughly before scientists can even hope to build a "thinking machine," Lettvin said.

The Research Laboratory for Electronics at MIT has made many studies of biological phenomena for possible contributions to science and technology, but Dr. Lettvin said biological discoveries always come after man's inventions.

As an example, Dr. Lettvin said that scientists invented radar, and biologists found out afterwards that the bat uses a similar system of sound waves for a guidance system. He challenged his audience to name an example where a biological discovery was made before a similar invention was made by man.

Dr. Lettvin lectured in the afternoon to Maj. Gen. John G.

Zierdt, Commanding General of the Army Missile Command, on the same subject. The afternoon lecture was also attended by Dr. W. W. Carter, Chief Scientist of the Missile Command, Col. D. F. Shepherd, Director of Research and Development, and other military and scientific advisors to Gen.

Zierdt. The audience also included Capt. Michael N. Silverman and Julian J. Ney from the office of the Post Surgeon, and Dr. Irene J. Roan from the Redstone Occupational Health Service.

GUITARIST RE-SCHEDULED
Jimmy Dempsey, guitarist, and his trio return to the Service Club Feb. 24 for a repeat performance. Jimmy has six records and two long playing albums to his credit. He has appeared with some of the top names in show business. Show time is 8:15 p.m.

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DONNELLY

(Continued From Page 1)

Western Electric's Greensboro-Burlington Operations.

In addition to participation in a number of civic activities in North Carolina, Donnelly is Chairman, Army Liaison, Maintenance Advisory Committee, National Security Industrial Association; Chairman Emeritus of the Guidance and Control Section of the Missiles and Astronautics Division of the American Ordnance Association; Director of the North Carolina State Engineering Foundation; member of the Advisory Council of the U. S. Army Junior Science and Humanities Symposia Programs.



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COL. LUCZAK

(Continued From Page 1)

Col. Luczak was awarded the Legion of Merit, Order of Leopold, Croix de Guerre and Fourragere of Belgium and the Croix de Guerre of France.

The post-war years have seen Col. Luczak serving many assignments in the Army's missile program, among them as Deputy Commander of the Pacific Missile Range at Point Mugu, Calif., and as Chief of the Integrated Range Mission at White Sands Missile Range, N.M.

In fact, his only assignment not connected to the missile program since 1945 was a 17-month tour he



COL. N. T. DENNIS

spent in Korea as an Ordnance Battalion Commander. He was awarded the Bronze Star for this assignment.

Col. Luczak is a graduate of the National War College and the author of a number of articles on the research, development and testing of missiles and rockets.

Smock, too, probably has as much missile experience as anybody on the arsenal.

Born in Louisville, Ky., and graduated from the University of Kentucky with a degree in electrical engineering, Smock began working on guided bombs back in 1943. He later went with the Naval Ordnance Test Station where the 2.75 rocket and Terrier missile were being developed. He came to Redstone Arsenal in 1952 and continued work on the Terrier. Later he became chief of a missile research

GEN. BESSON

(Continued From Page 1)

three days before his 53rd birthday.

Charged with responsibility for all Army missiles and rockets, the Missile Command looks to its research and development laboratories for advances in science and technology required to improve the rocket powered weapons it provides American soldiers.

Gen. Besson, who will be principal speaker at the dedication, is a graduate of the U. S. Military Academy. He received his Master of Science Degree from Massachusetts Institute of Technology.

SECRETARY

(Continued From Page 1)

Week Steering Council organizations: Alabama Society of Professional Engineers, American Society of Civil Engineers, American Society of Mechanical Engineers, Institute of Electrical and Electronic Engineers, American Institute of Chemical Engineers, American Institute of Industrial Engineers.

Dancing till midnight to the music of Charlie Lyle's Orchestra will close the week.



E. L. SMOCK

and development project.

He held two other deputy titles prior to becoming Nike Hercules deputy chief. He was Deputy Chief of Surface-to-Air Missile Systems and Deputy Chief of Technical Programs for the Army Ordnance Missile Command.

JOINT

(Continued From Page 1)

McNaron, of the Comptroller and Director of Programs Office, was named Executive Secretary. Berg, who works in the Management Science and Data Systems Office, will serve as Finance and Reports Chairman.

Vice-chairmen are to be selected in the immediate future to represent Directorates, Project Managers and Staff Offices of the Missile Command, the U. S. Army Missile Support Command, Nike-X Project Manager, Area Engineer Office, Rohm & Haas Company and Thiokol Chemical Corporation.

Col. Macpherson, Commandant of the Army Ordnance Guided Missile School, selected Maj. Leonard Stanley, to represent that organization.

In announcing his selection of Brown for the drive chairmanship, Gen. Zierdt called on Arsenal personnel to get behind the campaign in typical Redstone fashion. He added that the Command objective was to attain 100 per cent participation.

The Joint Fund Drive is one of two solicitation-type campaigns authorized for Federal installations under the Presidential fund raising directives. The second campaign is the United Givers Fund Drive which was completed a few months ago with great success.

Stanley Wilkins, Chief, Transportation Division, the Army Missile Support Command, has the role of maintaining continuity and direction of all fund raising drives from year to year in his position as Installations Coordinator for Fund Raising Campaigns.

It is a two-part drive in support of the National Health Agencies and the Federal Service Joint Crusade.

Unlike the United Givers Fund Campaign all contributions to the Joint Fund are made through the use of sealed envelopes. Each employee will be given two envelopes for their contributions, one designated for each of the supported campaigns.

The envelopes will be accumulated at the Arsenal and forwarded, unopened, to the appropriate bank designated by the national headquarters. There they are opened, certified and financial records made. The report made locally will account for the envelopes and reflect the percentage of participation.

The Executive Committee met

FINANCE

(Continued From Page 1)

Guided Missile School and Marshall Space Flight Center.

Among the more than 200 members and guests expected at the

meeting will be Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command; Brig. Gen. C. W. Eifler, Deputy Commanding General of Land Combat Systems; Col. H. J. Katz, Chief of Staff; Col. Thomas W. Cooke, Commander of the Army Missile Support Command; and Col. William J. Macpherson, Commandant of Ordnance Guided Missile School.

Other guests will include Huntsville area industrialists, bankers and public accountants.

Gen. Mayo has had a varied career since graduating from the Military Academy in 1931. He served for a time with the Air Corps in 1933 before going on duty with the infantry where he served as platoon leader of a rifle company, athletic and recreation officer and as company commander.

He received the Bronze Star Medal and Legion of Merit in connection with military operations in the Southwest Pacific Area from 1943 through 1945.

Gen. Mayo's career with the Finance Department began in 1950.

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Three Redstone Scientists Named For Goddard Award

Three U. S. Army Missile Command scientists have been nominated for the first Goddard Award to be presented by the American Institute of Aeronautics and Astronautics (AIAA) at its first annual meeting in June.

Named in honor of rocket pioneer Robert H. Goddard, the award will be presented annually by the AIAA and will carry a prize of \$10,000 donated by United Aircraft Corp.

Army nominees are Frank W. James, director, Propulsion Laboratory; Dr. Walter W. Wharton, chief, Chemistry Branch, Physical Science Laboratory; and Niles C. White, chief, Propellant Chemistry Branch, Propulsion Laboratory. All are from the Directorate of R&D at Redstone Arsenal, Ala. Navy and Air Force nominations have also been made and forwarded to Secretary of Defense Robert S. McNamara.

The award will recognize an aerospace engineer or scientist who has made an outstanding discovery, or a series of outstanding technical contributions, in the fields of propulsion or energy conversion. It may also be presented for accomplishments outside the fields of propulsion and energy research for outstanding scientific or engineering creativity.

In announcing the award, Dr. Pickering, president of AIAA said, "This award will be the highest honor bestowed by the Institute. It will give proper recognition to those who follow in the pioneering tradition of Dr. Goddard. It is fitting that this award should bear the name of the man who overcame financial restrictions, frustration and public skepticism to build the foundation for our present space flight program."

Selection of the recipient will be made by an awards committee headed by Dr. C. Richard Soderberg, Professor Emeritus at M.I.T. and former dean of the M.I.T. School of Engineering. Vice chairman of the committee will be Dr. Arthur E. Raymond, consultant to the Rand Corp.

A gold medal, financed by the AIAA Goddard fund donated by the rocket pioneer's widow, Esther Goddard, will accompany the cash award.

Dr. Goddard was the first to develop and fly a rocket motor using liquid fuels, anticipating the German V-2's by about 15 years; was the first to develop and fly a liquid fuel rocket faster than the speed of sound; first to develop gyro steering apparatus for rockets; first to patent the idea of a multi-stage rocket; and first to explore mathematically the practicality of using rocket power to reach the moon.

FRANK W. JAMES was nominated for his individual contributions and creative management to the formation of a nationally oriented R&D laboratory complex that has generated a large number of advanced liquid and solid propellants and propulsion systems.

He is credited with organizing the national scientific complement that has led to the unlimited ac-

ceptance of the Pershing motor, and for providing the engineering and scientific leadership for predicting the Arctic capability of solid-propellant rocket motors, generating redesigns and creating the handling procedures that assured reliable operation of Hawk motors used under Arctic conditions.

Mr. James led the team that discovered a new class of high-energy composite propellants that met the unique performance requirements of the Mauler rocket system, requiring higher burning rates with higher specific impulse



FRANK W. JAMES

than those previously known.

He instituted the research program which resolved the national safety problem of preignition resulting from stray radio frequency (RF) energy. His discoveries in this field have been applied to many current missile systems.

Graduated with an M.A. degree in chemistry from Columbia University, he is the recipient of numerous honors during his 24-years' service with the Federal Government.

DR. WALTER W. WHARTON's nomination is based on his individual contributions and guidance in the development of new and novel high-energy chemical propellants that have advanced the state-of-the-art in packaged liquid technology.

Recognized for his development of the only known hypergol for nitrogen fluorine propellants and discovery of a general desensitizer for the same composition, he is



DR. W. W. WHARTON

cited in the nomination for generating studies which produced successful evaluation of a nitrogen fluorine compound. His studies in energy conversion of mixed oxidizer systems have established for the Army a high level of confidence in packaged liquid propulsion technology.

Studies in variable thrust injection concepts, generated by Dr. Wharton, have provided invaluable specific data for the Army Lance Project. The data is also now being used by NASA and the Air Force. The Lance Development Program has been expedited as a result of his study data on liquid gas generators, positive expulsion techniques and nozzle erosion rates.

Dr. Wharton also has provided the national propulsion industrial complex with physical property data on nitrogen fluorine propellants for synthesis and production.

As a 1962 winner of the Army R&D Achievement Award, he was honored as one of a group of six scientists for achievements that resulted in discovery of a new monopropellant combination that has a higher specific and density impulse than existing bi-propellant packageable liquids.

Dr. Wharton received his Ph.D. degree from the University of Kentucky (1955). A magna cum laude graduate, he is listed in the 10th edition of AMERICAN MEN OF SCIENCE, has filed various patent applications, and has had significant technical papers published by the U. S. Government and through open literature.

NILES C. WHITE was nominated for his individual contributions and for directing the efforts of others in the research of composite propellants, ignition devices, ballistic-physical-stability properties of propellants and their ap-

plication to rockets and missiles.

As leader of the Propellant Chemistry Branch of the Propulsion Laboratory, he planned, established and directed research and development programs that resulted in the development of a new class of composite solid propellants based upon nitrocellulose. It was necessary to solve many problems to obtain the outstanding ballistic properties, physical properties and stability properties that have made the new propellant useful in new missiles now under development.

The nomination says he was the first to recognize the significance of polymer crystallization, under long-term low-temperature storage and its effect upon the military usefulness of solid propellant rockets.

The research and development program that he established and directed resulted in new tests of propellants that provided data required for the prediction of the low temperature usefulness of current and future missile systems.

Under his technical supervision of research and development in field of rocket motor ignition, a series of new electric firing squibs



NILES C. WHITE

possessing improved safety and reliability have been developed to meet unique Army requirements. The M-3 squib resulting from this work is in use in Honest John, Little John and Nike Hercules booster rocket motors.

Along with H. S. Williams of Redstone, he was a 1961 Army R&D Achievement Award winner, credited with formulation of a new propellant rocket fuel with inexpensive production technique suitable for use in Army facilities.

Mr. White is a 1950 graduate of



the University of Alabama with a B.S. in chemical engineering and has published many significant technical papers that relate to solid propellants.

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WAC-Corporal Celebrates Fifteenth Anniversary

WHITE SANDS MISSILE RANGE, N. M.—Monday was the fifteenth anniversary of a "marriage" at White Sands Missile Range that verified the key principle of successful space exploration and travel.

Two missiles—the 46-foot V-2 and the 16-foot WAC Corporal sounding rocket—were united on Feb. 24, 1949, and although their life together was short, it was highly successful.

Together—the V-2 firing first and then the WAC Corporal—they demonstrated for the first time

that a single rocket vehicle with more than one motor could reach previously unattainable altitudes and speeds if the motors were fired one at a time and the dead weight of the spent motors discarded.

Today this principle is exercised in virtually all this country's space endeavors, and it will be the key concept for space travel in the future.

When the three astronauts blast off on this country's first manned flight to the moon, they will be aboard an enormous moonship

weighing 3,000 tons. They will return in a segment of the moonship weighing only five tons. All the rest of the original vehicle will have been discarded enroute.

An Army officer, Maj. Gen. H. N. Toftoy, a colonel at the time, but later the chief of the Ordnance Research and Development Division, first suggested the firing of a two-stage rocket for increasing the possibilities of upper atmosphere research.

During the 1940's, the missiles that could be used in such an experiment were few and far between. The V-2 was chosen as the first stage because of its great weight-carrying capability and high performance. The WAC Corporal—smaller, reliable and capable of carrying 25 pounds of meteorological gear—was chosen for the second stage.

The program, called "Project Bumper," was initiated in October of 1946 and began with a thorough study of the problems at hand.

Design of the combination missile had to allow the smaller rocket to fit as deeply into the V-2 as possible without interfering with the V-2 guidance equipment. A means of activating the WAC Corporal's motor simultaneously with the V-2 cutoff had to be found. Guide rails and expulsion cylinders for the second stage had to be fitted within the V-2's instrument section.

The final combination missile, sitting on its launch pad amid sand and sagebrush terrain at White Sands, looked exactly like what it was—one missile adapted to fit atop another. But on May 13, 1948, technicians of the Army, General Electric (V-2 prime contractor) and California Institute of Technology (WAC Corporal prime contractor) were ready to see if their creation would work.

At first, success was limited. The first Bumper was fired on May 13, but only a short duration firing of the WAC motor was attempted, and total altitude was only slightly greater than that reached by the V-2 itself.

Bumpers 2, 3 and 4 were fired at White Sands at intervals throughout the remainder of 1948 and were beset with difficulties in flight, ranging from premature closure of an alcohol valve (Bumper 2) to an explosion in the V-2

(Bumper 4). None of these three firings were considered full successes.

However, the fifth Bumper, fired on Feb. 24, 1949, was historic.

The V-2 developed its maximum thrust of 52,000 pounds for a burning time of 30 seconds. At this point, WAC ignited and burned another 45 seconds, capitalizing on the 3,600-mile-per-hour speed and altitude already gained by the V-2 motor. As a result, the WAC Corporal achieved an altitude of approximately 250 miles above the desert floor and a speed of 5,510 miles an hour.

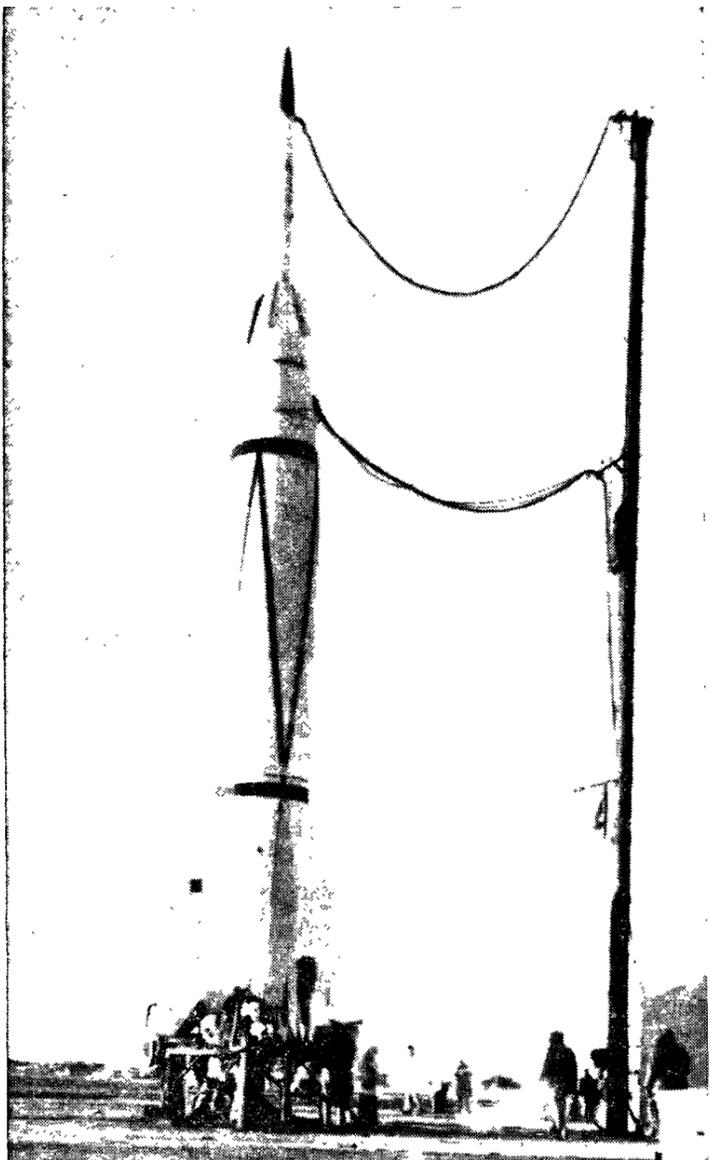
At the time, it was the greatest height and velocity ever reached by a man-made object. Instruments aboard the WAC transmitted data on its space environment to the ground during flight, man's first glimpse of space at such extreme altitudes. This telemetered data proved important, for the smashed body of the WAC was not found for over a year and the value of data recorded by recovered instruments was lost.

Bumper 6, fired in April of 1949, was unsuccessful due to excessive vibration in the V-2. Bumpers 7 and 8 were shipped from White Sands to Florida and fired at the Atlantic Missile Range. Their firings completed the Bum-

per series.

Bumper was the ancestor of today's high performance space vehicles, and as many as five stages in a single missile are no longer uncommon.

The "marriage" had worked, both parties having been proved compatible. At White Sands the Army had found the key for unlocking the door to outer space, although many more "stages" of the journey would follow.



FIFTEEN YEARS AGO — Technicians at White Sands Missile Range, N.M., prepare a "Project Bumper" missile for its historic flight on Feb. 24, 1949, which was the first demonstration that use of more than one rocket motor in a single vehicle can result in great altitudes and speed being achieved. Bumper was a combination of the V-2 and WAC-Corporal sounding rocket.

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Golf Group Will Lunch On Tuesday

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club will plan the 1964 season's schedule at a lunch and business meeting in the Redstone Room of the Squirrel Hill Officers Club next Tuesday.

The Group will meet at 12:30 p. m. for the "tee-off" and is extending an invitation to all members of the Wives Club to attend.

Mrs. W. D. Lewis is handling the reservations.

Pistol And Rifle Shooters Sought

The Ordnance Guided Missile School plans to form pistol, small bore rifle and large bore rifle teams to intensify marksmanship training. Col. William J. Macpherson, commandant, has announced.

Col. Macpherson has urged that every effort be made to discover new shooters and to encourage previous shooters to participate.

Interested personnel should contact the Office of Operations and Security, which is the responsible staff agency for the project.

German Air Force Outpoints U. S. Soccer Team, 2-1

The German Air Force soccer team of the U. S. Army Ordnance Guided Missile School journeyed to Montgomery over the weekend and defeated the Squadron Officers School of the Air University by a narrow 2-1 margin.

The game was played at Maxwell Air Force Base on a windy day, marked by occasional rain.

Cpl. Helmut Achilles and S/Sgt. Siegfried Schroeder scored for the Germans. This was the second win of the season for the German airmen over the Air University group. They won the first match here in November by a lopsided 8-1 score.

Lt. Jamieson Appointed Company B Commander

First Lt. Edward J. Jamieson has been appointed commander of Company "B," STC, at the Ordnance Guided Missile School replacing 1st Lt. Fred R. Pooeco who moved to the Project Office of School Troop Command.

Lt. Jamieson is the son of Mr. and Mrs. John Jamieson, of 1067 Forbes St., East Hartford, Conn. He is a graduate of the University of Connecticut. He formerly worked in the Pulse Acquisition and Battery Control Central Section at the Hawk Branch, Department of Individual Training.

Bowling School Troop Command

Team	Won	Lost
UTC Raiders	59	21
The Bisons	52½	27½
Co. "C" No. 1	44	36
Pop Tops	40½	39½
Pin Pickers	38½	41½
Five Aces	36½	43½
Co. "C" No. 2	29	51
Hq STC	20	60
High Team 3 Games:		
Raiders—2697 (Scratch)		
High Team Game:		
Raiders—937 (Scratch)		
High Ind. 3 Games:		
Kasper—638 (Scratch)		
High Ind. Game:		
Kasper—245 (Scratch)		

Redstone Arsenal Officers Mixed

Team	Won	Lost
D. Yanks	117	54
Bombers	99	72
Bowl Weevils	89½	81½
Pin Droppers	89½	81½
Redstones	84½	86½
Baby Splits	75	96
D. Dom	68	103
Hi Counts	62½	108½
High Team 3 Games:		
D. Yanks—3908 (Scratch)		
High Team Game:		
D. Yanks—739 (Scratch)		
High Ind. 3 Games:		
Mearhoff—633 (Men)		
High Ind. 3 Games:		
Lau—566 (Women)		
High Ind. Game:		
Mearhoff—259 (Men)		
High Ind. Game:		
Payne—217 (Women)		

American-British-Canadian Officers

Team	Won	Lost
S. Wonnors	129	31
Lucky Strikes	117	43
Wheezers	90	70
Black Jacks	82	78
Hopefuls	64	96
AF Jupilos	60	100
Pin Splitters	55	105
Maulers	44	116
High Team 3 Games:		
S. Wonnors—2755 (Scratch)		
High Team Game:		
Lucky Strikes—990 (Scratch)		
High Ind. 3 Games:		
Gulbranson—693 (Scratch)		
High Ind. Game:		
Gulbranson—264 (Scratch)		

Redstone Arsenal Officers

Team	Won	Lost
Spoilers	52	38
Mets	46	34
Robbers	44	36
Procure Mites	41	39
Bandits	36	40
Alley Cats	37	43
OGMS	32	48
High Team 3 Games:		
Spoilers—2600 (Scratch)		
High Team Game:		
Spoilers—951 (Scratch)		
High Ind. 3 Games:		
Drissel—634 (Scratch)		
High Ind. Game:		
Ailles—245 (Scratch)		

Enlisted Men Mixed

Team	Won	Lost
Draggins	54	30
Keglers	53	31
Hotshots	50½	33½
Dolittles	41	43
Brokenettes	36½	47½
Washouts	36½	47½
Unpredictables	34½	49½
Breaking Point	30	54
High Team 3 Games:		
Hotshots—2027 (Scratch)		
High Team Game:		
Draggins—728 (Scratch)		
High Ind. 3 Games:		
Taormina—644 (Men)		
High Ind. 3 Games:		
Arnold—561 (Women)		
High Ind. Game:		
Homer—244 (Men)		
High Ind. Game:		
Arnold—208 (Women)		

Thursday Morning Ladies

Team	Won	Lost
Splits	43½	24½
Roaring Trio	38½	29½
The U.N.	37	31
Old Timers	33	35
Terrific Trio	33	35
Tryettes	32½	35
Gutter Dusters	29½	38½
Youngsters	25	43
High Team 3 Games:		
Old Timers—1320 (Scratch)		
High Team Game:		
Old Timers—479 (Scratch)		
High Ind. 3 Games:		
J. Arnold—533 (Scratch)		
High Ind. Game:		
J. Arnold—222 (Scratch)		

Officers Wives

Team	Won	Lost
Merry Mrs.	43	33
Missers	42	34
Gamblers	40	36
Crazy Eights	40	36
Who Cares	40	36
Comets	38	38
Misfits	31	45
King Pins	30	46
High Team 3 Games:		
Comets—1839 (Scratch)		
High Team Game:		
Crazy Eights—691 (Scratch)		
High Ind. 3 Games:		
Lau—578 (Scratch)		
High Ind. Game:		
Webb—221 (Scratch)		



FROM LITTLE SEEDLINGS—State of Alabama forestry experts inspect a seedling during a "planting" session last week at Redstone Arsenal. Hundreds of seedlings were planted in a controlled dump area just off Patton Road. From left are Tim Lynch of Management Forestry in District 1; Paul Rodgers, Madison County Forest Ranger; and Jim Rice, Photographic Specialist of the State Conservation Department.

OGMS Officers

Team	Won	Lost
Rounders	50	22
Admin	40	32
Zeros	38	34
Bohunks	35	37
Bowl Weavils	31	41
Missile Comp. Division	22	50
High Team 3 Games:		
Rounders—2549 (Scratch)		
High Team Game:		
Rounders—888 (Scratch)		
High Ind. 3 Games:		
Hitt—623 (Scratch)		
High Ind. Game:		
Hitt—263 (Scratch)		

No. 3	28½	19½
No. 1	26	22
No. 4	23	25
No. 8	21	27
No. 7	18	30
No. 6	13	35
High Ind. Game:		
Handy—178 (Boys) (Scratch)		
High Ind. Game: (Girls)		
Graham—152 (Scratch)		
High Ind. Series: (Boys)		
Thompson—311 (Scratch)		
High Ind. Series: (Girls)		
Graham—249 (Scratch)		

AIRCRAFT MECHANICS

The U. S. Board of Civil Service Examiners has announced openings for aircraft mechanic (Announcement No. AT-35-5(64) in the grades of W-8, \$2.52 an hour; and W-11, \$3.01 an hour.

Bantam (8-12 Years)

Team	Won	Lost
No. 5	33	15
No. 2	29½	18½

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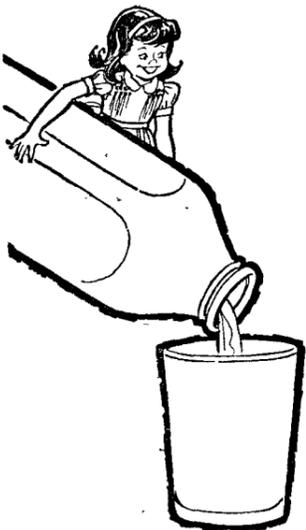
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NON-FICTION

Bedford, Sybille, "The Faces of Justice; A Traveller's Report."
Folliet, Joseph, "Man In His Environment."
Glover, Michael, "Wellington's Peninsular Victories."
Haggard, Reginald George, "A Dictionary of Art Terms."
Levitt, Israel Monroe, "Exploring the Secrets of Space."
Lissner, Ivar, "The Silent Past; Mysterious and Forgotten Cultures of the World."
Mehdevi, Mohamed, "Something Human."
Mifford, Hon. Jessica, "The American Way of Death."
North, Sterling, "Rascal, a Memoir of a Better Era."
Sainte-Beuve, Charles, "Selected Essays."
FICTION
Auchincloss, Louis, "Power of Attorney."
Best, Herbert, "A Rumor of Drums."
Cooper, Brian, "A Time to Retreat."
Cooper, Jamie Lee, "The Horn and the Forest."
Creasey, John, "The Edge of Terror."
Holt, Victoria, "Bride of Pendorric."
O'Hara, Kenneth, "Underhand-over."
Oldenbourg, Zoe, "Cities of the Flesh."
Schaefer, Jack Warner, "Monte Walsh."
Tully, Andrew, "Supreme Court."
Abbey, Edward, "Fire on the Mountain."
Aldridge, James, "A Captive in the Land."
Allen, Henry, "Mackenna's Gold."
Black, Gavin, "A Dragon for Christmas."
Marshall, James Vance, "A River Ran Out of Eden."
Monsarrat, Nicholas, "Smith and Jones."
Stern, Daniel, "Who Shall Live, Who Shall Die."
Sykes, John, "The Colonial."
Vonnegut, Kurt, "Cat's Cradle."
Wakeman, Frederic, "A Free Agent."
Coker, Elizabeth B., "Lady Rich."
Glasser, Ren, "Toujours Forever."
Lockridge, Frances Louise, "Murder by the Book."
Moyes, Patricia, "Murder A La Mode."
Murdoch, Iris, "The Unicorn."
Nathan, Robert, "The Devil with Love."
Saint, Dora Jessie, "Miss Clare Remembers."
Sutcliff, Rosemary, "Sword at

Religious Services

RELIGIOUS SERVICES—POST CHAPEL—BLDG. 3714

PROTESTANT

SUNDAY — 1000 & 1115 hrs, General Protestant Services. (Chapel Nursery open during both Services.)
SUNDAY EVENING WORSHIP

Sunset.
West, Kingsley, "Ride West to Pueblo."
Bergaust, Erik, Saturn Story.
Coxe, George Harmon, Mission of Fear.
Hanauer, Ethel R., Biology for Children.
Jackson, Charles Reginald, The Lost Weekend.
Jameson, Storm, A Cup of Tea for Mr. Thorgill.
Keen, Martin L., The How and Why Wonder Book of Wild Animals.
Lawrence, Josephine, I Am in Urgent Need of Advise.

O'Neal, Cothburn, Untold Glory.
Packer, Peter, The Love Thieves.
Robbin, Irving, The How and Why Wonder Book of Lost Cities.

—1830 hrs.
CHURCH SCHOOL — 1000 hrs., ages 3 years to adults. Classes for children and young people, grades 1 through 12, meet in Chapel Annex, Bldg. 3151. All military and civilian personnel, and their families are welcome.

CATHOLIC

SUNDAY — Masses — 0730, 0845, 1230 & 1700 hrs. Post Chapel, Bldg. 3714. (Chapel Nursery open during Masses at Post Chapel only.)

TUESDAY — Catechism classes from 1830-1950 hrs, in Chapel Annex, Bldg. 3151.

THURSDAY — Lenten Devotions (Stations of the Cross) 1930 hrs. Confessions — 1945 hrs. Choir practice—2000 hrs.

DAILY MASS — 1205 hrs, Mon thru Sat, at Post Chapel.

BAPTISMS — By appointment only.

SATURDAY — Confessions — 1800-1930 hrs.

GREEK ORTHODOX SERVICE: Sunday 2-4 p.m., Social Room, Post Chapel, Greek and American Languages.

REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday School. 1100 hrs. — Morning Worship Service. 1800 hrs. — Youth Fellowship for all young people,

age 9 or grade 4 and up. 1900 hrs. — Evening Worship Service. (Nursery is open for both Services.)

JEWISH SERVICES

Conservative Jewish services will be held weekly each Friday at 2000 hrs. and each Saturday at 1000 hrs. at 2333 Poincianna Street, SW, Huntsville, behind the Scottish Rite Temple which is located at 314 Bob Wallace Avenue, SW.

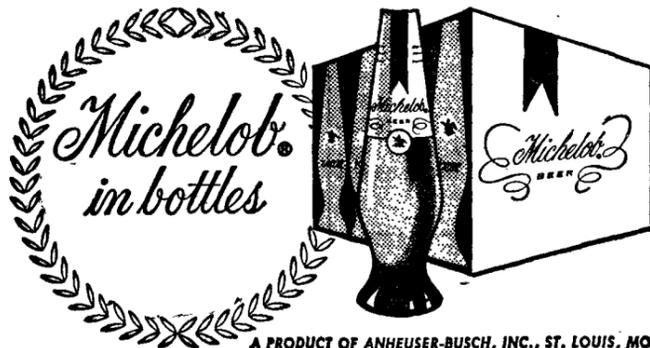
Reform Jewish Services are held at Temple B'Nai Sholom,

2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE, Huntsville. Sunday School at 0930 hrs.

For further information concerning these Services, contact Rabbi Stein, 536-4771.

CHRISTIAN SCIENCE SERVICES — SUNDAY — 1100 HRS.

Wednesday services are held at 2000 hrs. at S. White and Wells Avenue, Huntsville. For further information or transportation, call Christian Science Armed Services Minister, Collect 776-2791.



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Social

Coffee Scheduled

The Army Missile Command Officers' Wives Coffee will be held Tuesday, Feb. 25, at 10 a.m. in the Redstone Room of the Officers' Open Mess.

The program will be a costume jewelry exchange. The speaker, Mrs. Heike Stadler, is a goldsmith by profession. Everyone will bring a gift-wrapped piece of jewelry to exchange.

Reservations may be made with Mrs. Jonathan L. Holman, Jr., 877-4751 or Mrs. Theodore D. Felber, 877-4762, by noon Friday, Feb. 21. Cancellations will be accepted until noon Monday.

SHORTAGE OF MEN PLAGUES BRIDGE PLAYERS MONDAY

Too few men appeared for bridge last week on Monday night so three women were on the winners list at the Squirrel Hill Officers Club: Mrs. Eugene Krembs was high for the women and Mrs. Robert Edmonds was high on the men's side.

Runnersup were Mrs. Maurice Sands for the women and Col. Jesse Fishback for the men.

Mrs. Peter Iber, who handles reservations for the group, is inviting all members of the club who are interested in bridge to contact her. Mrs. Iber's phone number is 877-5235. She will accept reservations to play with the group until Sunday evening.

MRS. STERNER WINS AT BRIDGE

The Thursday bridge group sponsored by the Redstone Arsenal Officers Wives Club drew nine tables of players last week.

Winners were Mrs. C. D. Sterner, high; Mrs. R. P. Loshbough, second; and Mrs. S. J. Dobbs, third.

Mrs. Eugene Krembs, 877-5379, handles reservations to play with the group.



SAMPLING THEIR WARES—Girl Scouts from all troops at Redstone Arsenal launched their 1964 cookie sale Monday, which will continue through March 6. Girls from four of the troops got together and sampled the different kinds they are offering. Left to right are: Joanne Fellows, Brownie Scout; Sharon Graham, Cadette Scout; Loma Luczak, Senior Scout; and Sharon Gregory, Junior

Scout. The annual cookie sale is being conducted on a door-to-door basis, and proceeds will go to the local Sommajade Council of Girl Scouts for support of the Girl Scout camp. Mrs. M. J. Dooley at 877-4536 is the neighborhood cookie sale chairman at Redstone.

Births At Post Hospital

Hollis Paul Behannon Jr., 8 lbs., 7½ ozs., Feb. 5, son of Capt. and Mrs. Hollis P. Behannon.

Patricia Ann Faulkner, 7 lbs., 12 ozs., Feb. 5, daughter of Sp5 and Mrs. James H. Faulkner.

Linda Kaye Barnett, 8 lbs., 7½ ozs., Feb. 5, daughter of SSgt. and Mrs. Everett A. Barnett.

WIVES SEE FILM: GIFT OF KINGS; GAVEL GOES TO MRS. McDONNELL

February's luncheon sponsored by the Redstone Arsenal Officers Wives carried a triple-decoration theme: Valentines, patriotism and truth. The lunch was at the Squirrel Hill Officers Club Feb. 11.

It also heralded a "Hail and farewell" ceremony between presidents: Mrs. N. T. Dennis, whose husband transferred to the Cincinnati Procurement District, turned over the gavel to Mrs. J. M. McDonnell, who has been serving as vice president and now will complete the year as president.

The decorations committee was directed by Mrs. William J. Newman. Members of her committee included Mrs. David A. Marcelle and Mrs. Daniel R. Holt.

An oil portrait of George Washington was specially painted for the event by Mrs. W. E. Lockwood. It flanked the right side of the stage and was balanced by a cherry tree, complete with hatchet on the opposite flank. Special lighting effects were used to better highlight the displays.

The sherry table was centered by a lace frosted heart, highlighted by multi-branched candelabra and festooned with roses and greens at the base.

The lunch tables held similar centerpieces of lace-frosted hearts and the head table was lighted by hurricane lamps and the cloth was trimmed with ruby-hued hearts.

Climax of the program was a

film about manmade sapphires: "Gift of Kings."

Approximately 150 members and guests attended the lunch.

Pouring for the event were Mrs. Roy A. Tate, Mrs. F. C. Atkinson, Mrs. Clifford Wagner and Mrs. Edward R. Jamieson.

SAME To Meet

The Society of American Military Engineers will meet tomorrow night to hear Stanley L. Wilson talk on Einstein's relativity theory. SAME meets at 6:30 p.m. at the Squirrel Hill Officers Club.

In March they will be hosts to the student chapter of SAME from the Citadel.

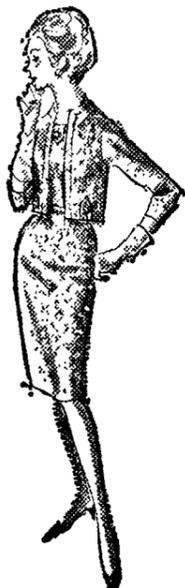
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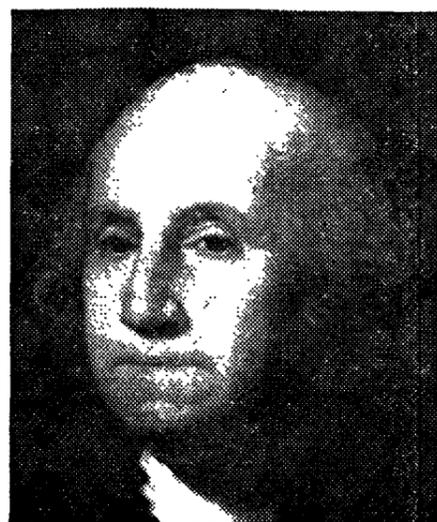
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Cub Scouts Hold Blue-Gold Banquet At Missile School

Cub Scout Pack 234 held its annual Blue and Gold Banquet at the Unit Training Command Mess Hall Friday night.

The ceremonies included addresses by guests and recognition of Cubs who had earned advancements and achievements.

Guests included Col. Harry C. McClain, Post Surgeon, Madison County Scout Executive; Spencer Ball and his wife, and Chaplain (Captain) William Condon.

The Pack, active at Redstone Arsenal for ten years, includes the following members: Kevin Hoban, Mike Williams, Pat Hand David Duke, Tommy Parker, Kenny Ryan, Leonard White, Ronnie Passero, Larry Justus, Roger Parrow, Dennis Pardue, Junior Wright, Mark Carney, Reid Brickley, Scott Carden, Ronnie Dunlap, Jimmie Lacey, Sal DeAngelo, Kirk Denmark, Hubert Parnell, Wayne Morgan, Bobby Manville, Jeff Scroggins, Alan Truitt, Jimmy Blancada, Alex Cubert, Bill Hollingsworth, Brian Atwood, Billy Lloyd, Jimmy Attaya, Ray Powell, John Thomason, Kieth Evans, Jack Susin, Eric Thomason, Stan Wojciechowski, Kerry Evans, John Neil and Robert Webb.

Unit leaders include Cubmaster Hubert Parnell, Assistants Troy Bowden and Paul Scroggins. Den Mothers Karen White, Rose Mary Denmark, Barbara Evans and Dorothy Parnell. Den Chiefs Mike Dooley, Ray Gradeck, John Donnelly, John Claterbos, Johnny Wal-

den and Ivan Cancel. Committeemen Wayne Morgan, L. C. White, A. L. Lacey, R. Powell, J. Susin, L. Justus, B. Carden, T. Parker and B. Atwood.

The banquet was served by SFC Stanley Wojciechowski, Mess Steward, and his staff.

At The Service Club

By: Brenda Hanson

The Junior hostesses meet tonight at 7 p.m. to plan the March program. There is room in the organization for more young women. Interested individuals may learn particulars by calling 876-4531 or 876-5492.

Thursday a Post-Wide Pool tournament begins. Trophies will be awarded at the tournament's end on Feb. 22. Also on the schedule is bridge competition.

A George Washington Birthday Party is planned Saturday night—to begin at 8 p.m.

Coffee and doughnuts begin the Sunday schedule at 9 a.m. The evening feature is a record hop with George Montgomery at the turntable.

Winners of the All-Army Entertainment Contest, the Astrionics will be at the Service Club Monday night.

Tuesday, Walter Titouick will teach dancing.

Need Stage Crew

The Service Club staff has issued an appeal for a stage crew to help produce "Only An Orphan Girl," a melodrama, by Henning Nelms.

The staff needs help with lighting, sound, illustrating, carpentry, and stage and prop design.

Information about this can be obtained by calling the Club, 876-4531 or 876-5492.

Nov. 4, 1943 — Combat infantry badge authorized to be awarded to those "whose conduct is exemplary, or whose combat action occurs in a major operation."

WASHINGTON'S BIRTHDAY GIVES FRIDAY HOLIDAY

The first of five "long week-ends" on the 1964 calendar will start on Friday for Redstone personnel when the Arsenal is closed in observance of George Washington's birthday.

The birth date of our first president is one of eight legal holidays celebrated in the Federal establishment and since it falls on Saturday this year, Federal employees are given Friday off. The same procedure will be followed for Memorial Day and Independence Day, both of which also fall on Saturday.

The other three-day week-ends on the 1964 calendar are Labor Day, Monday, Sept. 7, and Christmas, which falls on Friday this year.

Mid-week holidays this year, in addition to New Year's Day, which fell on Wednesday, are Veteran's Day, Wednesday, Nov. 11, and Thanksgiving Day, which is always celebrated on the last Thursday of November.

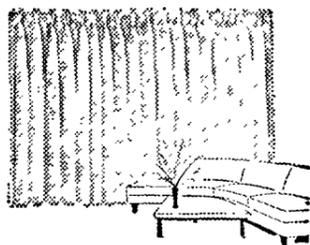
The American-Korean Foundation provides school buildings, equipment, textbooks, scholarships for destitute Korean children and orphans. Please contribute to the American-Korean Foundation through your Federal Service Joint Crusade.

Gen. Hiester Visits School

Brig. Gen. David W. Hiester, commandant of the Army Ordnance Center and School at Aberdeen Proving Grounds, Md., conferred here last Thursday and Friday with Col. William J. Macpherson, commandant of the Ordnance Guided Missile School.

Gen. and Mrs. Hiester were guests of honor Thursday evening at a dinner tendered by Col. Macpherson and members of the OGMS staff and faculty. They also assisted in receiving guests at the OGMS bi-monthly "hail and farewell" reception on Friday evening. Both events were held at the Squirrel Hill Officers Club.

Nov. 11, 1919 — Armistic Day anniversary was first celebrated.



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Secretary Proposes Adjusted FY Military Pay

(Editor's Note: This is the final article in a series the Rocket has run based on Defense Secretary Robert S. McNamara's testimony on the FY 65 Defense Budget).

Concerning an annual pay raise for members of the Armed Services, Mr. McNamara said the following:

"Last year in discussing the military pay raise, I stated that it was our conclusion that, in the future, military compensation rates should be reviewed annually and changes proposed when necessary to keep them in balance with increases in wages and salaries in the civilian economy. This conclusion was underscored by President Kennedy when he signed the pay bill last October:

"In supporting this legislation before Congress, this Administration pledged to use its best efforts to assure that in the future military compensation will keep pace with increases in salaries and wages in the civilian economy. I think that I speak on behalf of all of us when I say that is a pledge we intend to keep.

"In accordance with this pledge, we have adopted the following policy:

Annual Review of Military Pay of Active Duty Personnel

"Except for periodic reviews of the entire structure of military compensation which may be expected to take place approximately every five years, military compensation will be reviewed annually

and adjustments will be made according to the following formula:

"The Subsistence Allowance will be adjusted annually to ensure that it retains a constant relationship to the food element of the Consumer's Price Index, except that no adjustment will be made until this element moves three points.

"The Basic Allowance for Quarters will be adjusted annually to ensure that it retains a constant relationship to the housing elements of the Consumer's price Index, except that no adjustment will be made until these elements move three points.

"The basic pay of officers will be adjusted annually to ensure that it retains a constant relationship to an index based upon the BLS survey of the salaries of Professional, Administrative and Technical employees, except that no adjustment will be made until the index moves two points.

"The basic pay of enlisted personnel with more than two years of service will be adjusted annually to ensure that it retains a constant relationship to an index of technical, clerical and wage board

wages (the index shall be based on the BLS National Survey of Technical and Clerical Pay and the Army-Air Force Wage Board pay scales), except that no adjustment will be made until the index moves two points.

"The basic pay of enlisted personnel with less than two years of service will be adjusted annually to ensure that it retains a constant relationship to the Consumer's Price Index, except that no adjustment will be made until the index moves two points.

"The retired pay of personnel will be adjusted annually, effective April 1 for those personnel who were entitled to retired pay before Jan. 2 of that year, to reflect the increases in the annual average of the Consumer Price Index for the preceding calendar year over that for the calendar year for which the most recent adjustment was made, except that no adjustment will be made unless the index increases three percent or more.

"We should not again permit military pay to lag for so long a time behind compensation levels in the civilian economy.

"The application of these proposed policies to the present compensation scales would now require an increase in basic pay of three per cent for officers and 2.4 per cent for enlisted personnel with over two years of service. No increase would be required in any of the other categories of military personnel compensation. Accord-

Flight Test Fellowship Announced

The American Institute of Aeronautics and Astronautics is offering a two-year flight test fellowship at Princeton University leading to a master's degree or a doctorate in engineering.

The deadline for applications is

ingly, \$143 million has been included in the fiscal year 1965 Defense budget under proposed legislation, on the assumption that these increases in basic pay would become effective on Oct. 1, 1964. "Similar comparability adjustments for civilian career employees have been recommended by the President and provision has been made on a government-wide basis elsewhere in the fiscal year 1965 budget."

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March 1. Candidates must be United States citizens and have a bachelor's degree by June, 1964. The candidate may be employed or enrolled in an educational institution. Awards are made on a competitive basis.

The first year fellow receives a total of \$3600 and the second year \$4700. Applications must be accompanied by a transcript.

Information about the fellowship can be obtained from Max W. Stone, Associate Director for Education of the local chapter of AIAA, 876-9854.

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1961 CORVAIR — Monza 4-Dr. No. A-188-A \$1275.	1957 FORD—Wagon, No. R-41 \$575.	1960 RAMBLER—Wagon, No. A-54-A \$1075.
1961 CHEVROLET — Four-Door, No. A-168-A \$975.	1960 PLYMOUTH—Wagon, 2-Dr. No. A-177-A \$875.	1958 OLDS—Four-Door, No. A-210-A \$675.
1959 CHEVROLET — Four-Door, No. A-110-A \$875.	1962 LARK—Four-Door, No. A-181-A \$1075	1959 OLDS—Four-Door, No. A-166-B \$1175
1956 FORD — Hardtop, 2-Dr. No. A-133-B \$357.	1960 RAMBLER—Four-Door, No. A-202-A \$975.	1960 FALCON—Two-Door, No. A-201-B \$875.
1962 FALCON — Ranchero, No. U-45-A \$1275.	1958 RAMBLER—Wagon, No. A-40-A \$875.	1961 RENAULT—Dauphine, 4-Dr. No. R-15-A \$575.
1960 FORD—Tudor No. A-182-A \$875.	1962 RAMBLER—Four-Door, A-283-B \$1475.	1961 AUSTIN—Four-Door, No. A-221-A \$575.
1959 FORD—Wagon, No. A-127-A \$1075.	1959 RAMBLER—Four-Door, No. A-38-B \$775.	
	1963 RAMBLER—Two-Door, No. A-117-A \$1875.	

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1952 CHEVROLET No. A-269-C	1955 OLDSMOBILE 4-Dr. No. A-101-B
1954 CADILLAC 4-Dr. No. A-20-C	1953 DODGE ½-ton Pickup, No. A-50-D

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Commission Cuts Summer Employment Of Dependents

Civil Service Commission Chairman John W. Macy, Jr., has announced new rules to govern summer employment in Federal agencies this year and urged agencies to limit their use of summer help in the interests of economy and effective manpower utilization.

Macy pointed out that CSC's instructions to agencies prohibit summer employment of sons or daughters in an agency in which a parent serves as a civilian employee or member of its uniformed

service. CSC has deferred announcement of rules governing agency summer employment practices this year pending possible enactment of legislation that would require a nationwide competitive examination and apportionment of summer employment on the basis of each applicant's State of residence. However, CSC said that there would not now be sufficient time to make the provisions of the bill operable this year because of the need for agencies to make selections and firm commitments to appointees during the spring months.

The Civil Service Commission action makes summer appointments between May 1 and Sept. 30, 1964, subject to the application by the agencies of experience, training, and other requirements specified by the Commission.

Industrial Engineers Install 1964 Officers

Monday night, Feb. 10, J. Wheeler Bird was installed as the President of the North Alabama Chapter of the American Institute of Industrial Engineers for 1964.

Other officers installed were James D. Shafer, Vice-President; Henry C. Rupp, Treasurer; Robert A. Trenkle, Corresponding Secretary; Romley G. Joyner, Recording Secretary; Robert W. Mullins, Director for Organization and Constitution; Hugh D. Michie, Director for Planning; Charles W. Eudy, Director for Public Relations.

Gerald Geller, Director for Development has another year before his term expires.

Also on the program Dale H. Hawley, a member of the North Alabama Chapter, led a discussion and presentation of Organizational Theory. He pointed out the need for serious thinking in this area for all industrial concerns.

The meeting was held at Dale's Restaurant on South Memorial Parkway.

School Is Host To International Visitors Leaders

Leaders of the National Council for Community Services to International Visitors met yesterday at the Army Ordnance Guided Missile School with interested citizens from the city and county to map an enlarged hospitality program for foreign students.

The National Council — known as "COSERV" — was represented by Mrs. Joseph T. Haas and Mr. David E. Warner who head the Atlanta, Ga., Committee for International Visitors and Mrs. Clyde Emery of Dallas, Texas.

Some 45 persons, including the senior foreign liaison officers of every nation represented at Redstone Arsenal, attended a luncheon, at the Squirrel Hill Officers Club.

The visitors explained the functions of COSERV to representatives of city and county government and of various civic and social organizations in the area. It has national headquarters in

Washington and affiliates throughout the nation. At the same time, Col. William J. Macpherson, OGMS commandant, said he is organizing a program of personal sponsorship of foreign students, under which members of the permanent party at the school would be assigned as sponsors of specific foreign students and asked to help them become better acquainted with U. S. life.

The COSERV visit was arranged by Capt. Michael P. Gately, Capt. Monroe Webb and Lt. Jack Lower of the OGMS Foreign Liaison Office.

Experimental Firings Successful Douglas Says

CHARLOTTE, N. C. — Douglas Aircraft Company here today announced the completion of the 19th in a series of successful firings of a high-speed experimental rocket.

In the tests, the rocket motor achieved flight accelerations surpassing any levels before reached in rocket propulsion.

The Charlotte Division of Douglas has conducted a two-year independent research and development program under the joint technical management of the Marine Corps and the U. S. Army Missile Command.

In the experiments, axial acceleration of very high G's at launch, coupled with very high spin accelerations, have been successfully demonstrated.

The solid propellant grain for the experimental motor is being developed by Thiokol Chemical Corporation's Alpha Division, under subcontract to Douglas Charlotte.

The program is continuing with the basic objective of performance refinements in rocket stability after which flight tests will be conducted to determine the accuracy of the rocket.

Movie Schedule

 WEDNESDAY, February 19
 "The Horror Chamber of Dr. Faustus" (M)
 THURSDAY-FRIDAY, February 20-21
 "Sunday in New York" (M)
 SATURDAY, February 22
 "Gigot" (F)
 SUNDAY-MONDAY, February 23-24
 Walt Disney's "The Incredible Journey" (F)
 TUESDAY, February 25
 "The Incredible Mr. Limpet" (F)
 Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

Two Korean Officers Are Among Friday's Graduates

Two Korean officers and 43 U. S. enlisted men were graduated Friday at the Post Theater from six courses at the Ordnance Guided Missile School.

Capt. William A. Cole, special assistant to the project manager of the Sergeant Project Manager's Office, told the graduates that, although their role might not seem important and might not garner headlines and glory, the role of the maintenance specialists and officers was an extremely important basic role in present day army organization.

Three honor students were named. PFC Robert W. Gates was named the high man in the ballistic missile digital computer repair class; PFC Tom Servis won

the honors in the ballistic missile inertial guidance and control repair (Pershing) class; and Pvt. Robert N. Clark topped the ballistic missile helper course.

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Gen. Conroy To Supervise AMC Activities In West

Supervision of Army wholesale materiel operations in the West Coast area by a Deputy Commanding General, U. S. Army Materiel Command, for western operations was announced today by Lt. Gen. Frank S. Besson, Jr., Commanding General of the Materiel Command. Brig. Gen. Raymond C. Conroy has been named to the position of Deputy Commanding General, AMC for western operations in addition to his present duties as Commanding General, U. S. Army Terminal Command, Pacific, Fort Mason, Calif. Gen. Conroy's headquarters will remain in the San

Francisco area. As Deputy Commanding General, Gen. Conroy will coordinate operations of the U. S. Army procurement districts at both San Francisco and Los Angeles, and the U. S. Army Aviation Test Activity at Edwards Air Force Base in California, together with other Army Materiel Command activities on the west coast as assigned, including the Pacific Terminal Command.

Establishment of the new Army Materiel Command Deputy Commanding General results from detailed studies conducted over the past several months, and is designed to increase the efficiency and economy of Materiel Command activities in a geographical area corresponding to the Sixth Army Area.

Since headquarters of all major subordinate commands are located in the eastern or central portion of the United States, a single headquarters is needed to represent these commands, and other Army Materiel Command elements, in dealing with industry and defense agencies in the Far West.

Specifically, the mission of the Deputy Commanding General for western operations, includes the following:

1. Assists the Commanding General in accomplishing the Ar-

Lt. Col. Anderson To Manage Johns Commodity Office

Lt. Col. Claude C. Anderson has been named Commodity Manager of the Honest John, Little John and Redstone Missile Systems, the Army Missile Command announced today.

Col. Anderson takes over the post vacated recently by Lt. Col. Frank C. Gay who retired.

A native of Gulfport, Miss., Col. Anderson comes to Redstone Arsenal from Korea where he served with the U. S. Army Advisory Group.

A graduate of Gulfport High School, he went into business as a retail jeweler in Gulfport before entering the Army as an enlisted man in 1941. After taking basic training at Camp Shelby, Miss., he attended the Ordnance Officer's Candidate School at Aberdeen Proving Ground, Md., and received his commission in September, 1942.

He left the Army to return to his jewelry business from 1946-

my Materiel Command mission in the geographical area corresponding to the Sixth Army Area.

2. In the assigned geographical area, represents the CG, and major subordinate commanders.

3. Provides direct liaison for the Army Materiel Command with other defense activities and industry.

4. Exercises command supervision over Materiel Command subordinate activities as assigned.

1951 but was recalled to active duty during the Korean War in 1951.

He was assigned to the Army Ordnance Guided Missile School at Redstone Arsenal from 1959 through 1962.

Col. and Mrs. Anderson have two daughters, Cheryl Susan and Mary Kay, and they live at 3213

Blue Crest Street. Last year, more than 244,000 residents of the United States turned to the Bureau of the Census, U. S. Department of Commerce, for help in proving where and when they were born, the Bureau has reported.

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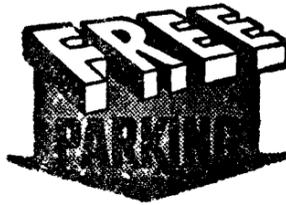
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1962 FORD Fairlane four door with straight shift \$1395.	1957 CHEVROLET Bel Air two door hardtop \$695.	1957 BUICK Hardtop, four door Super. \$195.
1961 COMET Four door, automatic shift, a honey \$1095.	1961 CHEVROLET Bel Air four door, air, power, one owner \$1595.	1955 FORD Fairlane V-8, four door. \$395.
1963 CHEVROLET Impala Super Sport, bucket seats, straight shift, low mileage \$2495.	1961 CHEVROLET Impala two door hardtop, solid white, red interior, straight shift. \$1795.	1956 CHEVROLET Bel Air 4-dr., original two-tone green finish. \$495.
1959 CHEVROLET Bel Air four door, power, air, a real buy. \$1095.	1959 STUDEBAKER Lark four door, air, automatic shift, V-8 \$1095.	1953 FORD Two door V-8, straight shift. \$195.
1959 T-BIRD Solid white with power \$1595.	1959 PLYMOUTH Savoy, V-8, two door, automatic shift, solid white, a real buy. \$595.	1954 CHEVROLET 1/2 ton pickup \$275.
1963 CADILLAC Four door hardtop, full power, air, 10,000 actual miles. Like new. \$4695.	1962 RAMBLER Ambassador four door, automatic shift, original in every way. \$1195.	20 OTHERS TO CHOOSE FROM PRICED ACCORDINGLY

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Behaviour Of 'Wake' Studies Made

Ever since the Wright brothers flew their first airplane, scientists have been slightly puzzled by invisible waves of air which fan out behind flying objects.

Behaving much like waves of water behind a motor boat, airplane pilots promptly labeled such turbulence "prop wash". Water skiers dubbed them "bumps."

But today's Army missile research scientists have a new term for it—"flow fields, or wakes."

Despite a perplexing lack of information, not much has been done in the past to gather useful scientific data on invisible air currents created by objects traveling much faster than four times the speed of sound.

But, in a unique new research program underway at the Army Missile Command, scientists are devoting their attention to what they properly like to call "flow fields, or wakes."

Since flow fields cannot be seen by the human eye, experts in the

Missile Command's Physical Sciences Laboratory have taken a major step in finding a solution to the problem of how to study the aerodynamic phenomenon.

With the completion of a tank-like vacuumized shooting gallery, Army civilian engineer Andrew Jenkins and technician Charles Dugas lead a team in advanced studies to shed some light on the mystery of what type of wake is caused by various shape and size projectiles.

They are doing their best to understand exactly what it is that happens in the flow fields and wakes behind a missile warhead whizzing toward its impact point.

Eventually, the engineers feel that their findings will be useful to missile men in picking out the real warhead from a cluster of phonies called decoys.

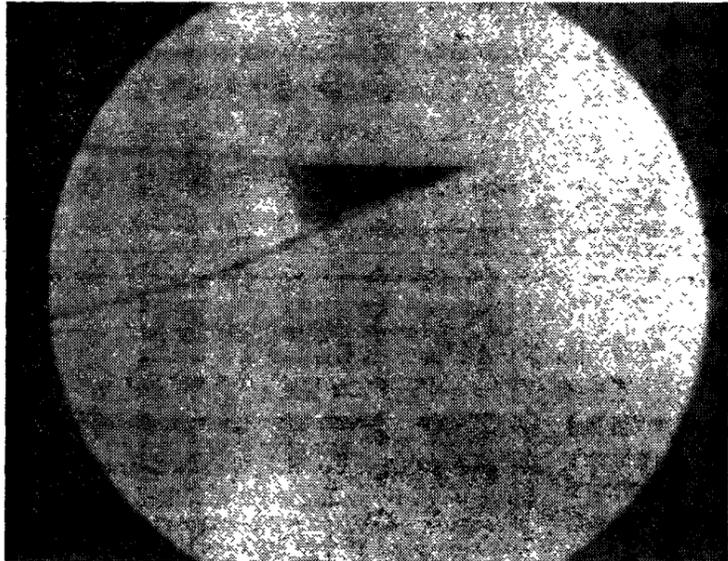
Tests currently underway in the Research and Development Directorate's Physical Sciences Lab are with tiny projectiles roughly the

size and shape of a stubby, well-sharpened pencil point.

The little cones, pretending they are sharp-pointed missile warheads, are blasted out of a specially modified 37 mm Army artillery gun barrel into the 40-foot altitude simulation chamber called a "range." (See BEHAVIOR on Page 15)

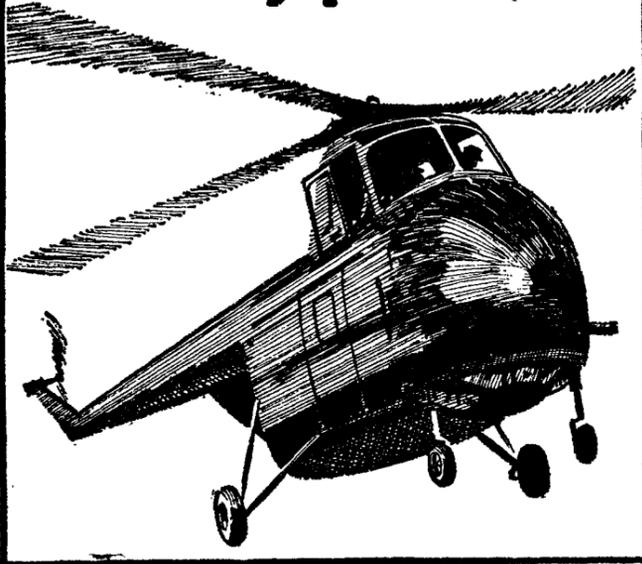


WARHEAD MODEL FLIGHTS STUDIED—Two specialists at studying air currents set up by projectiles whizzing through the atmosphere make careful adjustments on instruments to photograph missile warhead models in flight. At left is Charles Dugas, a technician who conducts tests with a giant vacuumized shooting gallery. At right is Andrew Jenkins, who directs the program aimed at studying missile warhead flow fields and wakes. Tests are underway at the Army Missile Command's Physical Sciences Laboratory.



AIR CURRENTS BEHIND MODEL—This photograph is a duplicate of one taken during an actual test firing of tiny projectiles through a vacuumized test range. Research engineers at the Missile Command are conducting tests to determine what type projectile sets up differing types of wakes, or flow fields.

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Page 14 The Redstone Rocket — February 19, 1964

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PLAN ON-POST TRAINING—Redstone and Frankford Arsenals get together for training personnel when the need arises. In this planning session are (left to right) James Hudson, James Willis and Frank Garguiule, Frankford; Alice Cox, Training and Development Division, CPO, Redstone; Fred Conklin and Dan Trunifo, Frankford. Courses include Basic and Advanced Transistors, Transistor Applications, Basic Digital Computers for Technicians and Digital Computer Administrative Familiarization and will continue at Redstone through June.

LOGISTIC STUDIES END FOR SEVEN

Seven civilian employees of the Army Missile Command returned to work this week after completing courses at the Army Logistics Management Center, Ft. Lee, Va., last Friday.

Four of them were enrolled in the Defense Advanced Procurement Management while the other three participated in the Defense Basic Procurement course. The former was a three-week course while the latter extended for five weeks.

The students completing the advanced course were, Bettye Matkin, of the Sergeant Project Office; Ernest Wells of the Hawk Project Office; and Vernon Wooten and Howard Long, both of the Procurement and Production Directorate.

All three of those in the basic course are assigned to P&P. They are John Bushart, Jackie Lamb and William Marsh.

They were enrolled for the courses at the Center under the Civilian Personnel's career development program. The program is coordinated by the Off-Post Training Branch of the Training and Development Division.

A function of the Army Materiel Command, the ALMC is the only Department of the Army activity devoted to postgraduate level logistics management education.

Other courses offered are in the areas of general supply, maintenance, surplus property disposal, requirements and distribution.

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BEHAVIOR

(Continued From Page 13)

Once inside the range, the projectiles travel at speeds presently up to 13,500 feet per second. Planned extended capabilities would boost speeds up to about 23,000 feet per second.

Inside the range a shadowgraph determines the relative position of the projectile—that is, if it is flying truly, if it is wobbling, or if it is tumbling.

At this point, a second instrument, known as a Schlieren, injects a high intensity, short duration light source into the air, and permits flow fields and wakes fanning out behind the projectile to be photographed.

"We're still in the facility development phase of this program," engineer Jenkins explains. "Eventually we hope to make a series of photographs showing the flow field and wake several body diameters behind the projectile."

Future plans call for the researchers to measure hot radiating gases created by the shock front set up by a warhead whizzing through the atmosphere.

By seeing what the flow fields look like, experts should be able to determine what type warhead is

causing it.

"This sort of information would be of inestimable value in developing missile systems to defend an area against attack," Dugas says.

Dugas, who conducts most of the actual projectile flight tests, is assisted by Auburn University co-op student, Fred Bishop, from Boaz, Ala., who is majoring in aeronautical engineering.

"In the future," the researchers say, "we hope to expand the program for more extensive study. But for the present, we expect to learn a great deal about the physical characteristics of flow fields and wakes."

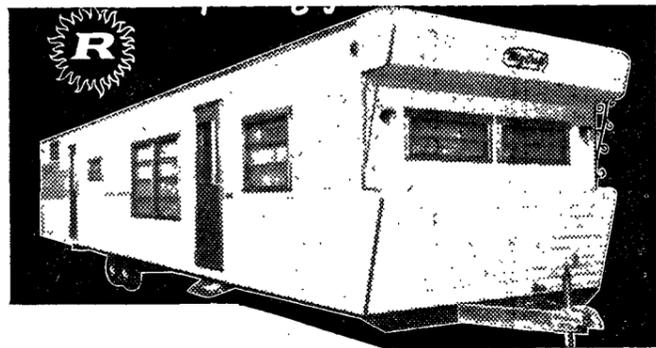
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Awards and Decorations

Army Commendation Medals have been awarded the following:

Maj. Carleton J. Robinson, Post Engineer, Missile Support Command;

Maj. Joseph J. Runquist, Post Engineer, Watertown Arsenal, first oak leaf cluster;

Capt. Lloyd R. Wright, Mauler Project Office;

Capt. Warren N. Balish, Lance Project Office;

Lt. Col. Frank C. Gay, Honest John/Littlejohn, Redstone Commodity Manager, first oak leaf cluster;

Maj. R. C. O'Brien, Troop Command, Missile Support Command;

Maj. Richard D. Lawrence, Future Missile Systems Division, Research and Development Directorate;

CWO Thomas W. Ellis, Supply

Contract Training Classes Study Incentive Contract

More than 300 Army military and civilian personnel began classes Tuesday in the second session of a new Incentive Contract Training Program at the Army Missile Command.

This session, which includes people from all major areas of the Missile Command, follows on the heels of a similar program which trained more than 270 in classes ending in December.

The course is tailored to acquaint personnel, whose work is related to procurement, with all phases of incentive contract procedures.

The Procurement and Production Directorate, headed by Col. E. V. Lau, is presenting the program in conjunction with the Training and Development Division of the Civilian Personnel Office at the Missile Command.

Heading the training program is John A. Muller, Assistant Director of Procurement Operations. Overall coordinator is Perry C. Hopkins of the Plans and Services Office.

Incentive contracting is the Army's most advanced method of selecting private industrial firms for specialized research and for production of tactical Army hardware. It is designed to improve efficiency and lower costs.

Essentially, an incentive award pays a contractor a bonus for good work and penalizes him for a poor performance.

Participants attend three classes of four hours each and study such topics as types and selection of contracts, the mechanics-fixed price incentive type of contract, the mechanics-cost incentive type of contract, value analysis clauses and the incentive contract administration.

Class instructors are from specialized areas of incentive contracting. Col. C. D. Sterner, Chief of Anti-Tank and Aircraft Weapons, made the opening and closing remarks.

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Incentive Awards Revises Regulation

Seeking greater participation through clearer understanding a revised edition of RSA Regulation 690-16, Incentive Awards, has been published and distributed to all organizational components of the Arsenal.

Prepared and edited by the personnel of the Incentive Awards Branch, the regulation was published in a handbook format to serve as a guide to supervisors and non-supervisory personnel alike.

Highly elated with the new

handbook, Frank Holmes, executive secretary of the Incentive Awards Branch, remarked that this is the most thorough guide to the overall awards program that he had ever seen.

"Not only does it regulate all phases of the program," commented Holmes, "but it carries a great amount of helpful information which will assist employees in participating in the benefits that can be derived."

Holmes went on to point out that he knew instances where a supervisor would have recommended one of his employees for a performance award if the procedure was a little less complicated. Then again there are numerous instances of an employee neglecting to submit a suggestion because he wasn't able to write it up in the prescribed format.

All of these reasons for non-participation were taken into consideration in compiling the information for the new regulation according to Holmes. "And right now," he added, "we cannot see a valid reason for a person not taking advantage of the program."

The regulation goes into the procedure for submission of all

phases of the program, from employee suggestions through performance awards, quality increases and special acts or service awards. It covers local awards and those on a higher level for which local employees are eligible.

A special feature of the handbook is the example of a well-written suggestion, a typical rec-

ommendation for an outstanding performance award and the justification for an award for a special act or service.

Holmes urged personnel to use the examples to the fullest extent necessary, not only as a guide to the proper format, but also as a help in describing the requested action.

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