

Two Missile Contracts Are Awarded

One small business firm and one prime contractor have received awards totaling \$17,598,525 for continued work on the Mauler and Improved Honest John missiles.

The Department of the Army announced release of \$16,590,039 to General Dynamics/Pomona, a division of General Dynamics Corp., definitizing a contract which totals \$42,032,851.

The work will be done at the corporation's Pomona, Calif., plant.

The Mauler is a compact, highly mobile guided missile system which is being designed to fire its missiles even while travelling across country with fast moving Army units on the battlefield.

The Hicks Corporation, of Asheville, N. C., classified as a small business firm, received a \$1,008,486 contract to fund production of rocket motor assemblies for the Improved Honest John missile system. The work will be performed in Asheville.

The Improved Honest John is (See CONTRACTS on Page 3)



ENJOYING A FUNNY STORY—The Chief of the Army's Military Police, Maj. Gen. Ralph J. Butchers, took time out of a whirlwind schedule this week to tell a humorous story to military policemen at Redstone Arsenal, home of the Army's missiles. Gen. Butchers, fourth from left, stopped at Redstone during his periodic tour of installations in the Third U. S. Army Area. With him are SP4 Darrell McPherson, SP4 Danny Puckett, PFC. Neil Wells, the General, SP4 Tony Travis, and PFC. Carl Hulse, all members of Redstone's 291st Military Police Co. Hosting the General's visit to Redstone was Col. Robert M. Allgeier, standing, Assistant for Intelligence, Operations and Security, Army Missile Support Command.

Missile Conference Ends Today

An international exchange of technical information is headlining a two-day meeting at Redstone Arsenal yesterday and today.

Five representatives of the Canadian Armament Research and Development Establishment arrived yesterday for talks with staff members of the Honest John Commodity Office and the Directorate of Research and Development, Army Missile Command.

Lt. Col. B. J. Janigan of the Canadian Defense Research Board heads the visiting team. Hugh J. Dudley, Deputy Manager, Honest John Office, will be in charge of the meeting.

Maj. G. A. Wood, Canadian Liaison Officer at Redstone, and his deputy Capt. L. N. Bydal, will take part in the program.

Other Missile Command personnel taking part will be W. B. Wilson, William Hadaway, Dr. O. M. (See CONFERENCE on Page 3)

Article 15 Changes Are Video-Taped

The Judge Advocate at the Army Missile Command and the Ordnance Guided Missile School television branch are working on a video tape covering changes in the Uniform Code of Military Justice. The premiere is Friday.

The script, entitled "The Big Stick" outlines the changes in Article 15 of the Uniform Code of Military Justice. By Feb. 1 all military men must be made fully aware of the "new Article 15" which gives commanders authority for more latitude in dealing with misdemeanors which formerly had to be handled under summary courts martial.

The information from a summary court martial would follow a man on his military record—often blighting his career—and would also follow him into civilian life.

Under the changes in Article 15, a commander could mete out stiffer terms of restriction or fines and reduction in grade, but the blot of a summary court would not follow the man to his next assignment.

Almost the entire Judge Advocate staff is included in the video tape script; Lt. Col. George C. Eblen, the Judge Advocate; Maj. James Hutchison; Lt. George C. Lackey, Capt. Merrill T. Landwehr, and Capt. Ivan O. Poe.

(See ARTICLE 15 on Page 2)

Installations Secretary Plans To Visit

The Deputy Assistant Secretary of the Army for Installations will begin a one-day visit to Army Missile Command facilities Thursday.

He is Eugene H. Merrill, who will be welcomed by Maj. Gen. Francis J. McMorrow, Commanding General. Merrill will stop at the Missile Command as part of his visit to military installations in Alabama, Louisiana and Georgia.

During his visit, Merrill will view construction programming, management and maintenance of facilities, and family housing. He is scheduled to meet General McMorrow at noon Thursday, and later with Post Engineer officials.

Accompanying Merrill will be Allen W. Fore, Department of Defense, and Col. Douglas K. Blue. They will leave the Arsenal Friday morning.

The Redstone Rocket

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Nike X

The FY 64 military budget announced last week in Washington contained a surprise for most of the Army family at Redstone Arsenal—at least those not directly involved in the Nike Zeus program.

The budget revealed publicly for the first time that Col. I. O. Drewry, Zeus project manager, and his team have an additional job—the budget called it Nike X.

There has been a good deal of speculation in the nation's press since the budget announcement on Nike X and its potential mission.

For the record, this is what the Department of the Army had to say:

"The Army's FY 64 R&D program for ballistic missile defense of the continental United States includes two major tasks:

"First, the present Zeus test program will be continued.

"This program has been most valuable in providing information for development in the areas of ballistic missile defense and penetration aids for offensive missile systems.

"The second task will be to emphasize and accelerate the development of a system presently known as the Nike X. The Nike X is an advanced anti-missile design made possible by the experience and knowledge gained in the development of the Zeus. For some time now, the Army has been investigating advanced radar and anti-missile configurations as a part of the Zeus program. Nike X has evolved as a result of these investigations.

"The Nike X will employ an advanced radar, the Sprint missile, and a large number of components developed in the Zeus program. Design and hardware developments have been initiated on these items."

ADRES Conference Begins Here Tomorrow Morning

A presentation at the Army Missile Command on Thursday will set in motion a multi-million dollar cost reduction program for the government.

The Redstone Arsenal-developed Army Data Retrieval Engineering System (ADRES) for filming Army missile parts is expected to result in a savings of \$3.5 million during the first year. Increasingly larger savings are forecast for succeeding years.

Suggestions Save \$1 Million Here During FY 1962

Employees of the Army Missile Command during 1962 submitted suggestions which will save the tax payers over \$1 million, according to Frank H. Holmes, director of the Command suggestion program.

During calendar year 1962, civilian employees submitted 1,652 suggestions of which 516 were adopted. Based on the number of suggestions received, the adoption rate is 31 per cent as compared to the national average of twenty five per cent. In order to properly recognize those who made suggestions, the Army approved cash awards totaling \$27,865. The average award was \$54.

Many employees received other (See SUGGESTIONS on Page 3)

The presentation will be made at a conference in which major missile contractors will be briefed on the operation of ADRES. Each of the contractors will receive an initial set of microfilm reels containing a comprehensive file of missile parts.

Brig. Gen. H. P. Persons, Jr., Deputy Commanding General, Army Missile Command, will make a brief welcome address to the gathering. This will follow an orientation by Curtis Williams, Chief of Standardization of the Directorate of Engineering and Documentation.

Presentation of the system will be made by Col. E. V. Lau, Director of P&P. A question and answer period will be held during which contractors will be able to clear points with procurement specialists who developed the program.

Actual presentation of the systems to contractors will be made by Project Managers or their representatives.

Following lunch at Squirrel Hill Officers Club, the visitors will have an opportunity to tour the Documentation Branch.

The rapid retrieval system was designed to assist engineers to reduce or eliminate duplications in missile parts requirements.

At the present time design engineers often find it simpler and less time consuming to design a new part rather than wade through voluminous files of engineering drawings for a cataloged item.

ADRES provides the engineer with current data on military standards and Army Missile Command common parts according to functional characteristics.

Through ADRES the engineer can research the catalogs for the part, view it on a screen and obtain a usable size print of the drawing complete with specifications—all in a matter of seconds.

(See ADRES on Page 3)



VISITORS FROM WASHINGTON—A cross section of the U. S. armed forces compared notes Monday at the U. S. Army Missile Command. From the left are: Capt. J. L. Cook Jr., Navy; Col. W. T. Bray, Marine Corps; Col. Otto R. Haney, Air Force; Col. R. M. Clock, Army; and P. D. Wyman, State Dept. A class of 15 senior officers and civilian officials from the Department of Defense and the Department of State made the trip as part of their studies at the Industrial College of the Armed Forces in Washington. After a welcome from Maj. Gen. Francis J. McMorrow, briefings were held to explain the functions of the Army Missile Command. Later, the group toured the Missile Command's Guidance and Control Laboratory and its plasma jet facility.

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

"The roots of education are bitter, but the fruit is sweet."

—Aristotle

On Speaking Out

The success of the Army Missile Command in accomplishing its mission depends upon a great many intangibles, or services which come under the broad and undefined heading of extracurricular activities.

One such activity involves the appearance of Command personnel, both military and civilian, in the capacity of guest speakers before civic clubs and organizations.

Guest speaking appearances are an excellent vehicle for creating and sustaining a well-informed public which understands the national responsibility of the Army Missile Command.

It is gratifying to note the many instances of personnel appearing before civic gatherings to discuss certain phases of the Missile Command operation. These speaking engagements are, for the most part, made at a personal sacrifice in time and money, with individual satisfaction being the principal remuneration.

It would be impossible, however, to over-emphasize the value such appearances have toward enhancing favorable community relations in the best interest of the Command.

The Army Missile Command encourages public appearances of this nature, within the provisions of Command Procedure 360-5.



READY SCRIPT—(Left to right) Capt. Ivan O. Poe, Lt. Col. George C. Eblen, Capt. Merrill T. Landwehr and Lt. George C. Lackey, the Judge Advocate Staff at the Army Missile Command, go over the television script which will be premiered Friday. Col. Eblen, the Judge Advocate, and his staff readied the script last week to present all military members of the Armed Forces to acquaint them with the changes in Article 15 of the Uniform Code of Military Justice. Dissemination of the information has a deadline of Feb. 1.

ARTICLE 15

(Continued From Page 1)

Their presentation is illustrated with examples of the type of foul up a soldier or officer may perpetrate and the alternatives a commander has under the circumstances. Stress is laid on the fact that each case must be handled individually.

In some instances senior commanders may choose to reserve the right to punish, but the emphasis is on handling the cases at the lowest level of command the circumstances and the rank indicate.

Information covering these changes arrived last week, and the Judge Advocate staff went to work immediately in order to inform all military personnel in the region who are governed by the Uniform Code of Military Justice by the Feb. 1 deadline. This includes National Guard and other active units in the North Alabama area.

Two versions of the script are taped. One is for the enlisted men to inform them of the changes. The second is for officers and is a longer version which covers methods of administering the changes in Article 15.

Col. Eblen said, "The present Uniform Code of Military Justice was enacted into law in 1950. It provides a comprehensive body of criminal law for the Armed Forces. Article 15 of the law provides a means whereby comman-

ders can deal with minor infractions of discipline without resorting to trial by a military criminal court.

"A commander can impose specified limited punishment for minor offenses and infractions of discipline. This is known as non-judicial punishment because it is not considered a conviction of crime.

"Twelve years experience re-

veals some serious deficiencies. A commander had no authority to forfeit or detain an enlisted man's pay or impose any form of close custody. He could impose restriction or extra duty—not always effective—or reduce an offender in grade—which was often too severe.

"This led to dissatisfaction by commanders with the powers granted them and it also created vast concern over the number of courts martial.

"With more than seven and a half million men in the Army in 1944, only half a million courts martial were recorded, whereas during the Korean conflict in 1953 there were a million and a half men in the Army and almost 200,000 courts martial.

"Something had to be done. So we have the New Article 15."

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Mayor Of Huntsville Salutes Civil Service

Pointing with pride to the many able and devoted Federal employees, Mayor R. B. (Spec) Searcy, of Huntsville, paid tribute to the 80th anniversary of the signing of the Civil Service Act in a short ceremony in his office last week.

The ceremony at City Hall was sponsored by the Society for Personnel Administration. Luther F. Adams of the Missile Command, Civilian Personnel Division is president of the Huntsville chapter.

Other Federal officials were Robert Seay, representing the Atlanta Regional Director, U. S. Civil Service Commission; Arthur Sanderson, Marshall Space Flight Center; and John S. Hinkle, Army Missile Support Command.

"The people of Huntsville," the Mayor stated, "can testify to the high standards of conduct and competence of our Government employees. To all our citizens, the merit system of employment means a stable career civil service capable of preserving the continuity of essential Government programs required by the American people."

In his tribute Mayor Searcy had special praise for the achievements made by Huntsville career personnel in missile and space exploration programs.



TOP SUPPLY, MAINTENANCE MEN—Lt. Gen. August Schomburg, left, former Commander of the Army Missile Command, conferred last week with Col. R. W. Van Wert, Director of Missile Command's Supply and Maintenance Directorate. Gen. Schomburg, now Commanding General of the U. S. Army Supply and Maintenance Command at Washington, D. C., paid his first visit to Redstone since relinquishing command.

Sculptor Takes Top School Honor

A former sculptor-designer from Pasadena, Calif., walked away as top student at a recent graduation at the Ordnance Guided Missile School.

Pvt. Eric O. Swab, 24, received an Outstanding Student plaque from the Tennessee Valley Chapter of the Association of the U. S. Army for his scholastic achievement of a 96.1 average while attending the Ballistic Missile Helper Course at OGMS.

Before entering the Army, he attended the Illinois Institute of Technology, Chicago, where he received his Bachelor of Science degree. He later worked as an architect in Pasadena, and Castine, Me., before joining the firm of Bauer & Black in Chicago as a sculptor-designer.

CONFERENCE

(Continued From Page 1) Essenwanger, H. P. Dudel and A. C. Poe, all of the Directorate of Research and Development.

Others taking part will be Robert McCoy, Ballistic Research Laboratory at Aberdeen Proving Grounds, Md., and Solomon Cohen, Army Materiel Command.

Accompanying Col. Janigan to Redstone for the talks are Maj. P. J. A. Tees, Directorate of Artillery; Capt. J. C. Piasetski, Directorate of Equipment Engineering; F. W. Slingerland, CARDE; and A. C. Jones, of the Defense Research Board.

Lt. Col. Frank C. Gay is Commodity Manager of the Honest John/Littlejohn Commodity Office at Redstone.

SUGGESTIONS

(Continued From Page 1) types of favorable recognition. All together, 70 per cent of the civilian employees received some type of recognition. This included: \$4,936 Letters of Appreciation, 276 Letters of Commendation, 29 Special Honorary Awards, 363 Sustained Superior Performance Awards, 12 Special Act or Service Awards, 275 Outstanding Performance Awards and 516 Suggestion Awards.

Military personnel submitted 122 suggestions. Thirty-two per cent (39) were adopted. Savings from military suggestions totaled \$26,796.

CONTRACTS

(Continued From Page 1) an operational surface-to-surface missile.

The programs for both the Mauler and the Improved Honest John are being managed from headquarters at the Army Missile Command, Redstone Arsenal, Alabama.

ADRES

(Continued From Page 1) Physically the system incorporates a compact reader-printer and a rack of four-inch cartridges of 16-mm microfilm rolls. The equipment is compact enough to be placed in the design working area.

Each set of cartridges being presented to the contractors will include 70 rolls of microfilm. Sixty-five of the rolls will contain some 65,000 drawings. The additional five rolls will contain Army, Air Force and Navy standards comprising some 30,000 parts in common use among all services.

Supplementary reels will be furnished on a monthly basis and a completely new set of films will be produced every four months.

A similar type system is already in operation at a large mail order house. This is the first time, however, that a government agency has put its documentation into such a compact package.

ADRES was developed by Value Analysis technicians of the Directorate of Procurement and Production and adapted to Army needs by Information Handling Services of Denver, Colo. The Colorado firm also microfilmed the Army documents.

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Sergeant—Army Big Stick—Ready For Combat

This is the year of the Sergeant, a combat-ready "big-stick" that Teddy Roosevelt might have had in mind when he gave his famous advice about walking softly and carrying a big stick.

Within the next few months the Army's new Sergeant ballistic missile will be guarding the frontiers of freedom with U. S. units. Standing beside them as part of the North Atlantic Treaty Organization shield forces will be military units of the Federal Republic of Germany—armed with the same weapon.

Project manager staff members at Redstone Arsenal have been instrumental in seeing that Sergeant kept its date with the Army. Col. Jester M. Loomis, Jr., is the Sergeant Project Manager.

Col. Loomis said, "as Sergeant joins the ranks—first of a new line of second generation missile weapons for the Field Army—those of us in the Army and industry who have worked so long in its development feel more than a justifiable twinge of pride."

Gets Diploma

"For the men and women in the Sergeant Project Manager's staff at Redstone Arsenal," Col. Loomis added, "it's a little like watching one of your own accept a diploma. This missile system of ours has been examined by a tough task master—the American soldier —

and pronounced ready."

In the hands of men who know how to use it, Sergeant can deliver a nuclear, chemical or biological warhead—a potent combination of punches—out to almost 100 miles.

The past year has seen the Sergeant development program reach its pre-planned climax. The Army Readiness Date set early in the development cycle was met on schedule on June 30, 1962.

Troops Score Bullseye

In October, the Army's first Sergeant Battalion scored a bullseye with its first tactical-type firing at White Sands Missile Range, N.M.; as the nation's press and high ranking American and NATO officials looked on. And more recent firings by tactical units have been just as successful.

When the Army Materiel Command was created as a result of the Army-wide reorganization last year, Lt. Gen. Frank S. Besson, Jr., AMC Commanding General, recognized the importance of the Sergeant system by picking it as one of the weapons systems under AMC to be given high priority project management treatment.

Sergeant is replacing the Army's Corporal missile as a Corps support weapon. Representing major improvements over its predecessor, Sergeant is a fitting example of the unofficial motto of the Army missile team: "A good weapon in the hands of the troops—a better one on the way."

Before Sergeant was declared operational, it had proven its dependability, durability and toughness in more than 40 firing tests. The missile and its ground support equipment had been put through the wringer in a planned series of flight, operational and environmental tests which demonstrated its ease of operation and battle readiness.

Historic Achievements

Sergeant played a big part in an historic Army achievement that put the Free World in the race for space. The Jupiter C launch vehicle that orbited the Army Satellite Explorer I in January 1958 had solid propellant upper stages. Those stages were composed of scaled down Sergeant motors.

In its tactical configuration, Sergeant measures 34.5 feet in length and 31 inches in diameter. It



THE MAN—THE TRAINER—THE MISSILE—Three of the U. S. Army's Sergeants are shown standing at Fort Sill, Okla. The typical Sergeant is facing a 3G52 Sergeant Trainer developed by Aircraft Armaments, Inc., and the Sperry Utah developed tactical Sergeant missile.

GRADUATION EXERCISE 3 - 2 - 1 — FIRE !!!

Both firing units of the Army's newest missile battalion graduated with honors January 15 when they completed two tactical type firings of their solid-fueled Sergeant missile at White Sands Missile Range.

Troops of the 5th Missile Battalion of the 77th Artillery climaxed six months of training at Ft. Sill, Okla., and at White Sands to become the second tactical artillery unit to fire the Sergeant since it was declared operational last summer.

Sergeant is under the project managership of Col. Jester M. Loomis, Jr., at the U. S. Army Missile Command.

Training as a unit at the Army Artillery and Missile School at Fort Sill since last July, the firing battalion underwent extensive training in assembly, disassembly and tactical deployment of the Sergeant missile. That training paid off handsomely when they set up and fired the Sergeant with all the skill and assuredness of seasoned veterans.

The tactical firing of the Sergeant also set a precedent. In the future, all Sergeant units graduating from the Artillery and Missile School will conduct similar firings of the Sergeant missile at White Sands upon graduation.

weighs approximately 10,000 pounds, with the warhead weighing about 1,600 pounds.

Sergeant is the culmination of a development program initiated in 1955 by California Institute of Technology's Jet Propulsion Laboratory for the Army on an advanced ballistic missile system to replace Corporal, which had reached an operational state a year earlier.

In 1956, Sperry Gyroscope Co., N. Y., was selected a co-contractor to work with JPL for research and development and as prime contractor for follow-on industrial production. Late in 1959, JPL was withdrawn from the program to devote its efforts to the national

space program and Sperry assumed sole prime contractor responsibility for the system.

Basic Characteristics

Basic characteristics of the new system formulated by the Army, JPL and Sperry resulted in Sergeant having these significant advantages over Corporal;

- Sergeant solid-propellant motor shortens reaction time from mission assignment to launch by hours and requires less than half the ground-support equipment of the liquid-fueled Corporal.

- All-inertial guidance system is protected against any known enemy electronic countermeasures and eliminates need for ground

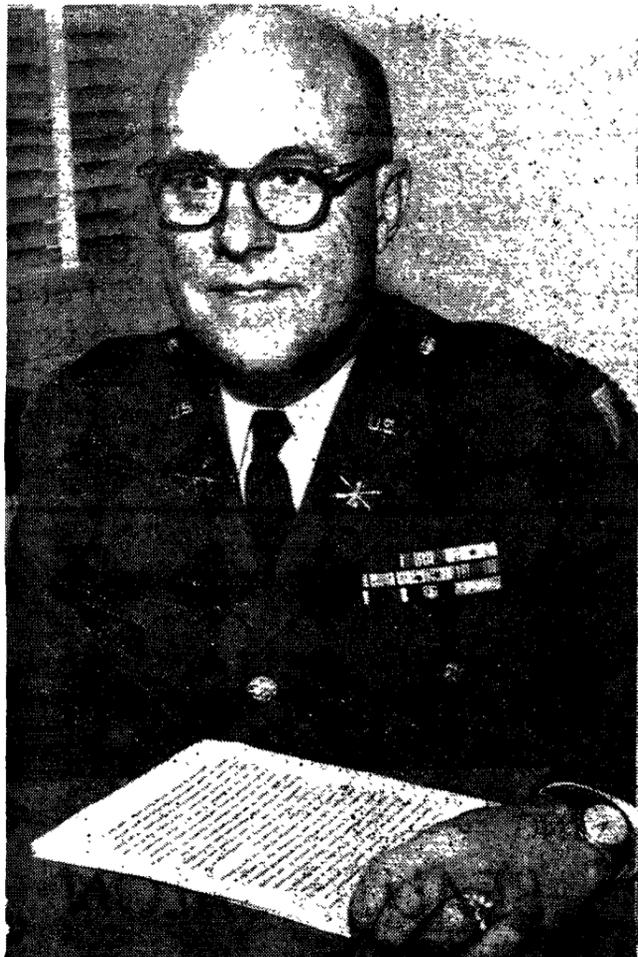
equipment needed in Corporal for its radio command-type guidance.

- Increased mobility through the use of more rugged system components—the entire Sergeant system can be moved over any terrain traveled by Army's current heavy trucks and trailers.

- Rapid field maintenance by relatively unskilled personnel is made possible by use of plug-in pull-and-replace components and assemblies which are positioned for easy access.

- Checkout and countdown are basically automatic. The Sergeant's pushbutton Go, No-Go checkout is one of its major tactical assets

(Continued on Next Page)



COL. J. M. LOOMIS, JR.—Sergeant Project Manager

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SERGEANT

(Continued From Preceding Page) on any future battlefield.

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Designed with the "shoot-and-scoot" philosophy in mind, Sergeant is comprised of five major mobile equipment items — the launching station, the organizational maintenance test station, the field maintenance test station, the motor and guidance transport trailer and a standard M-35 truck carrying the warhead. These components may be moved overland by six trucks or through the air in C-130 aircraft.

Col. Loomis succeeded Col. John E. Aber as Sergeant Project Manager this month.

Col. Aber, a former air-defense systems artillery officer, guided the project managership of Ser-



Col. John Aber

gent from its inception in August of last year. The Colonel plans to retire from active duty soon.

His first assignment in Ord-

nance was in February, 1960, when he became deputy chief of the Army Ballistic Missile Agency Control Office. He later held the post of director of the ABMA Field Support Operations.

As an air-defense artillery officer, he was assigned as director of the Nike-Ajax Division of the Air Defense School at Fort Bliss from 1946-1948, then deputy director of Combat Developments, and as battalion commander of the 4/44th Missile Battalion (Nike-Ajax).

Col. Jester M. Loomis, Jr.

Project Manager Loomis, a native of Wann, Oklahoma, was graduated from the University of Oklahoma with a bachelor of science degree in petroleum engineering in 1938.

Col. Loomis was commissioned a second lieutenant in the U. S. Army Reserve in July, 1938, and went on active duty at Ft. Sill, Okla., in February, 1940. He served in various assignments prior to being sent to the South Pacific Theater in 1941 where he participated in the Central Pacific and Guadalcanal campaigns.

He left active duty in July 1945 and re-entered at Ft. Sill in December 1946, where he was assigned to the University of Oklahoma as Assistant Professor of Military Science and Tactics.

Col. Loomis completed the Command and General Staff College at Ft. Leavenworth, Kansas, in 1954, and at graduation headed the U. S. element at the U. S. Air Force Missile Test Center at Patrick Air Force Base, Fla.

In 1958, he returned to Ft. Sill for another tour as Commander of the Field Artillery Missiles Systems Evaluation group being re-assigned to the U. S. Army, Europe, in October, 1961. His duty assignment in the European Command was in Turkey.

He came to Redstone Arsenal from Turkey.

Sergeant's Deputy Project Manager, Lt. Col. George Chow came to the Missile Command in 1960, following a tour of duty with a military assistance advisory group in Taiwan, Formosa, where he was assigned as Deputy Chief of Staff, Civil Affairs. He was first assigned as project officer of the Weapon System project office in the Army Ballistic Missile Agency and later was senior weapons system project officer for the Pershing Weapon System.

In 1961, Col. Chow became the senior representative of the Army



Col. Chow

Ordnance Missile Command stationed at Orlando, Fla., and also served as the technical operations officer for the Pershing Project.

He returned to Redstone Arsenal in October, 1962 as Deputy Sergeant Project Manager. Col. Chow also plans an early retirement.



James H. Draughon

James H. Draughon, Sergeant executive officer, will succeed Col. Chow as deputy project manager. Before assuming the position of executive officer, he worked in the Army Ballistic Missile Agency where he served on the senior management staff.

Draughon's more than 25 years civil service experience includes an assignment with the U. S. Army in Japan where he directed the efforts of some 15,000 employees in the re-manufacture of trucks and trailers that were urgently needed by the Army in Korea. He received a citation from Gen. Matthew B. Ridgeway, then Commander-in-Chief of the Far East, for his accomplishments during the assignment.

After returning from Japan, Draughon worked as southern manager of a company engaged in rebuilding machine tools and heavy equipment for the Armed Forces. He returned to government service in 1953 at Redstone Arsenal, where he was in charge of the Nike Missile Industrial Procurement and Production Program before transferring to the Army Ballistic Missile Agency.

Active in Huntsville community affairs, Draughon has served as president of the Huntsville High School Parent-Teachers Association. He is a native of Reynolds, Ga., and studied engineering at Georgia Tech.

The Project Manager's "technical alter-ego" is Herman H. Libbe Sergeant technical advisor.



Libbe

Technical Advisor Libbe holds an electrical engineering degree from Georgia Tech and a law degree from the McKenzie Law School, Chattanooga, Tenn.

A relay test engineer for the Tennessee Valley Authority for 10 years before coming to Redstone Arsenal in 1952, Libbe handles the project manager's technical problems.

The upper echelon of the Project Manager's office includes two special assistants. Sidney J. Sweat and Capt. Bruce S. Packard are troubleshooters for the office's programming and other problem areas.

Sergeant personnel changes in the past few weeks include the appointment of Don Sims of the Directorate of Procurement and Production to fill the job of Chief of the Procurement and Production Division.

A man with firsthand knowledge of the needs of a firing battery

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PROJECT MANAGER SECRETARIES—Here are some of the girls you meet in the Sergeant Project Managers office. Pictured from the left are Mary Haga, Program Management; Robbie Senesac, deputy project manager's office; Marge Snyder, P&P Division; Helen Hubbard, Col. Loomis' secretary; and Carole Borden, Operations Office.

is deputy chief of the division. Capt. Robert L. Trosper, who served as acting division chief, commanded a firing battery of the 2d Missile Battalion (Cpl), 80th Artillery, Fort Sill.



Capt. Trosper

A native of Tulsa, Oklahoma, Capt. Trosper said the P&P division uses advanced management tools — PERT, Missile Manufacturers' Reports, Defense Contractors Progress reports—in procurement.

Sergeant has tried to lead the field in incentive type contracting, he pointed out. Capt. Trosper said a measure of the program's success has been that the last two industrial buys have been incentive type contracts.

Capt. Trosper, an antique weapon collector, is a 1954 graduate in management from Oklahoma University.

Procurement Is Divided

P&P is divided into four branches. The branch chiefs are R. A. Oliver, Procurement Planning, H. B. Landers, Procurement Execution, C. P. Egoft, Contract Per-

formance, and M. Dembowski, Review and Analysis.

Col. Loomis' chief engineering aides are E. C. Roberts, chief of the System Engineering Division, and J. T. Calhoun, deputy chief of the division.

Roberts, a Texan with a mechanical engineering degree from Texas A&M, came to Redstone Arsenal in 1952 as chief of the Mechanical Section of the Test and (Continued on Next Page)

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SERGEANT

(Continued From Preceding Page) Evaluation Laboratory. He was with the Office; Chief of Ordnance, for 13 years before that.

The engineering chief teams with 13-year-old son Eddie to win trophies in model airplane speed racing. The team is expert in rebuilding the small engines to get the most speed in the air.

Integrated Testing

Deputy Engineering Chief Calhoun said Sergeant is the first system having a completely integrated test program. Calhoun stated the Artillery user and White Sands Missile Range personnel "looked over our shoulder" during the development firings and the results were available before the engineering-service test program.



Calhoun "This coordinated effort reduced the number of rounds and in turn saved money," he pointed out.

A product evaluation test program will follow after the service tests now being conducted at White Sands, he said, adding that significant changes in Sergeant production will also be tested for two years as modifications designed to keep the system at the peak of the state-of-the-art are made.

System Development

The Engineering Division manages a system development from the idea stage through the tactical system. In doing this the four branch division of engineers and technicians coordinates engineering program data with several firms and government agencies.

Some of the major firms and government agencies listed by Calhoun were the Army Munitions Command, motor and warhead; Aircraft Armament, 3G52 trainer; Applied Design Co., guidance and control and motor section containers; and Sperry Utah Co., prime contractor, missile, ground support equipment and Type IV test equipment.

The Sergeant team member who tells the contractor as well as the other offices of the Project Manager just how well the system fits its design requirements is John F. Hand, chief of the System Test Division.



Hand The soft-spoken Mississippian stated the key to the independent assessment is that the evaluation is completely divorced from the designers or the contractor producing the hardware. He said that his objective findings are based on the overall management of the assets of the Sergeant program.

Picture of Program

To get the picture of the overall program, he said, his two branch division takes a look at laboratory tests, proving ground

non-firing tests, environmental testing, firing tests and the work of other offices and agencies.

Division findings and recommendations, Hand said, are put into engineering action required to make the system conform to design requirements. He said that the Sergeant has come up to design characteristics and capabilities "despite limited resources available for testing."

Hand, who earned his civil engineering degree from Mississippi State University, is assisted in his job by Wilber Finley, chief of Design Evaluation Branch; Houston Ashley, chief of System Evaluation Branch; and Special Assistant David J. Greer.

Watchdogs

Watchdogs of Sergeant's quality from day to day are the people in the Quality Assurance and Reliability Division. Chief A. H. Hooker said his prime function is to field a weapons system that has an unusual degree of quality and reliability. A. A. Brackeen is deputy chief of the division. "To do this," he said, "we are developing and directing a Sergeant quality assurance program which will provide a continuous assessment and upgrading of quality and reliability."



A. H. Hooker

Hooker, who was a radar countermeasures officer in World War II, said that management of the program spans the development, industrial, and field usage periods. "We are in the industrial phase now," he pointed out, "and our job is largely that of management. To properly manage the complex program, we need the arts, skills and talents, at least comparable, if not exceeding those of the contractor producing the Sergeant missile."

"We must maintain in the production item the design and functional intent of drawings and specifications, he stated, adding, "to do this it is necessary to establish quality control methods and techniques to assure orderly production under controlled environments."

"Eyes and Ears"

Maj. John J. Sullivan heads the office which serves as Col. Loomis' "eyes and ears." Maj. Sullivan as chief of the Program Management Office keeps his finger on all Sergeant programs.



Maj. Sullivan

A 1947 graduate of West Point, Maj. Sullivan is an engineer turned manager. He holds a degree in military engineering from the Military Academy, and both a bachelor of science in applied math and a master's in mechanical engineering from Georgia Tech.

The program management chief is the father of nine children.

They are John J., 14, Dennis G., 12, Kevin A., 11, James F., 9, Brian P., 8, Kathleen F., 6, Stephen M., 5, Terrence P., 3, and Shelia C., 2.

Major Sullivan, vice president of the Huntsville Holy Name Society, has been at Redstone Arsenal since 1960.

Programs Monitored

John Stair, Sullivan's deputy, outlining the office's job, said the objective of the Review and Analysis Branch is to monitor Sergeant programs as they proceed, report trouble areas, and see that corrective action is taken.

John A. Rega, chief of the Review and Analysis Branch, is also charged with making the many management type reports to the Army Materiel Command.

The managing and execution of current year programs is the job of Foster P. Bailey, chief of Plans and Programs Branch. Bailey plans and submits to AMC various budget programs, one of which is the five year planning program.

Deputy Chief Stair is a University of Arkansas graduate in chemical engineering and has spent some 22 years working for an Ordnance contractor and the Army.

The Sergeant manager closest to the Sergeant user is Maj. Asa A. Hord, chief of the System Support Division. A Texan, Hord's assignment before reporting to the Missile Command was as Post Ordnance Officer at the 4th U.S. ASA Field Station in Asmera, Eritria.



Maj. Hord

The System Support Division in designing and modifying the system for operation and maintenance by troops in the field.

Maj. Hord's three branch division serves as a clearing house for problems from the users. He said his people solve many of the problems and send back immediate answers.

The division chief said the Liaison Plans and Project Office deals with the management of an individual missile system as well as its functioning. Capt. R. P. Bryant is chief of this organization.

Hardware problems are handled by Maintenance Branch Chief J. R. Atkinson. This branch is presently receiving reports from new field units on just how good they think the Sergeant is and their recommendations for modifications.

The Operations Branch deals with logistical matters pertaining to system fielding. Hord said the Division doesn't normally design equipment, but may recommend specific design in order to meet the problem at hand.

Deputy Division Chief H. T. Nagle has been in Sergeant since 1958. Nagle, a Mississippi State University man, has more than 10 years experience in engineering with such systems as Nike, Corporal and Sergeant.

Operations Office

Alan Lederman, chief of the Operations Office, was a sergeant-major at the Zandery Air Force Base, Dutch Guiana, South America, during World War II.

Operations Office Chief Lederman spells his job out this way; "We help run the project manager office and free the people in the divisions to run the program. Generally we do the things necessary to make life easier for the people in the project manager office."



Lederman

An accomplished crabgrass — plucker, in season of course, Lederman spent his college days at Cornell University where he earned a degree in economics.

The Brooklyn native, who admits to smoking too many cigarettes, spent seven years in the Office, Chief of Ordnance, before becoming principal for manpower in the AOMC Control Office in 1959. His career includes assignments as chief of the Policy and Procedures Division, AOMC Management Services Office and chief of Management Services of the



MORE OF THE SERGEANT GIRLS—Division chief secretaries shown from the left are Jane Pitts, Test Division; Mary Toney, Quality Assurance and Reliability Division; Chris Campbell, System Engineering Division; and Gwen Fleming, System Support Division.

ABMA Control Office.

Administration

Margaret Hornsby is chief of the office's Administrative Branch. She cares for the mail, personnel and other services of the large staff. Mack Jennings as chief of the Operations Analysis Branch is charged with organization, functional alignment, manpower activities, operating procedures and special studies.

Representative

Col. Loomis is represented at the Sperry Utah Company by Maj. Richard W. Brunson. The native of St. Francis, Kan., assumed his present position after earning a master's degree in industrial management from the Babson Institute of Business Administration.



Maj. Brunson

anywhere the soldier goes and fights any time

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READY FOR LUNCH—Keith K. Peaslee, (second from right) National Director of Boy Scouting Service with headquarters at New Brunswick, N. J., visited the Tennessee Valley Council last week and was a luncheon guest of Lt. Col. John Bond, Executive Officer at the Army Missile Support Command Friday. Among the guests were local representatives of the Boy Scouts and Col. William J. Macpherson, Commandant of the Ordnance Guided Missile School. Left to right are: Johnny Becton, Field Director, Tennessee Valley Council of Boy Scouts; Glenn Ragan, Madison District Scout Executive; Robert L. Haskins, Scout Executive, TVC; Maj. James MacDonnell, Commanding Officer, UTC, Guided Missile School; Lt. Col. Bond, Dr. Jim Tarr, Thiokol Chemical Corporation; Peaslee, and Col. Macpherson.

VOLLEYBALL STANDINGS			BASKETBALL STANDINGS		
Team	Won	Lost	Team	Won	Lost
3d ETC No. 1	5	0	Officers	10	1
Hq AMSC	3	0	291st MP	8	3
1st ETC	3	0	Co B OGMS	6	4
3d ETC No. 2	1	3	Co A OGMS	6	4
Co A OGMS	1	3	Hq UTC	5	6
Co B OGMS	1	3	Hq AMC	5	7
Officers	1	4	Hq AMSC	2	8
291st MP	0	3	Hq STC	1	10
Hq OGMS	0	3			

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OGMS Slates Soccer Games

Two soccer teams of German Air Force students now enrolled in the U. S. Army Ordnance Guided Missile School will play a double-header against the Air University and Auburn University at Montgomery on Feb. 2.

Capt. Michael P. Gately, Foreign Liaison Officer, and Capt. Herschel P. Entekin, Athletic Officer, at OGMS. Warrant Officer R. L. Dayies of the Army Missile Command's British Liaison Office will serve as one of the referees.

The matches will pit one German team against the Auburn University Soccer Club and the other against the Squadron Officers School team of the Air University. Play is to begin at 9 a.m. on Sat-

ARMY-AIR FORCE OFFICER'S LEAGUE

Team	Won	Lost
Lucky Strikes	102	42
King Pins	94	50
Pin Splitters	87	57
Raiders	87	57
Black Jacks	86	58
Jupiters	60	84
AF Jupios	32	104
Hopefuls	28	116
200 Games: Holmes — 251; Palmer — 211; Hodges — 217; Reier — 200.		

POST LEVEL BASKETBALL

Name	Team	FG	TF	G	Tot.
Jordan	Hq & Hq, UTC	69	33	8	171
Hudson	Hq & Hq AMSC	73	19	9	165
Gentry	291st MP	49	45	8	143
Grey	Hq & Hq, UTC	57	6	9	120
Baker, J.	Hq AMC	46	24	8	116
Thomas	291st MP	48	15	9	111
Kilpatrick	Co. B, OGMS	48	14	7	110
Neals	Hq & Hq, STC	38	25	8	101
Miller	Officers	41	18	11	100
Turner	291st MP	41	16	10	98

urday, Feb. 2.
The German players will make the trip to Maxwell Air Force Base by air.



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HUNTSVILLE TOASTMISTRESS BEGINS CONTEST

Miss Dolli Wiginton and Mrs. Mary Jane Hearn placed first and second, respectively, in the speech contest held Wednesday night by the Huntsville Toastmistress Club at Steadman's. Miss Wiginton's speech was entitled "What Is Life?" and Mrs. Hearn's was "Art of Living." Both are employees of the Army Missile Command.

The theme of the meeting was "Flight 904 Takes Off." Mrs. Edith Nilssen served as stewardess of the flight. Her table decorations expressed the theme with the multicolored planes poised on runways for immediate take off.

Mrs. Gere Wyss served as Toastmistress. She summarized the basic rules for the information of the audience, and directed the collection of the judges ballots, judging forms and contestant's notes.

Guests were Mrs. Helen Beasley, Mrs. Colleen Buglar, and Mrs. Lorane Haire.

Mrs. Wyss announced plans for the Council 8 meeting in Chattanooga last Saturday.

The next meeting will be held Feb. 6.

Party Bridge Winners Are Lt. Szeremi, Mrs. Wolff

The Monday night party bridge group had six tables in play last week at the Squirrel Hill Officers Club.

Winners for the men were Lt.

SOCIAL and CLUB EVENTS

OGMS Sponsors Party at Officers Open Mess Sat.

The Ordnance Guided Missile School is sponsoring a "Mid-Winter Carnival" Post Party at the Redstone Arsenal Officers Open Mess on Jan. 26, according to Capt. Paul E. Cothran, in charge of publicity for the event.

Activities are scheduled to begin at 5:30 p.m. and will include dining, dancing and a floor show featuring Marquis the Magician.

An invitation is extended to all members of the Officers Open Mess. Happy Hour prices will last from 5:30 until 8:30 p.m. A Bar-B-Que buffet will begin at 6:30 in the Main Dining Room. It will be served until 8:30 and the price is \$1.50 per person.

Dancing will be to the music of the Mell-Tones and will be in the Hawk Room, starting at 8:30 p.m. It will conclude at 12:30 a.m. During the evening, the internationally known Marquis the Magician will perform a floorshow.

Captain Cothran also stated that dress for the evening will be sports attire appropriate to the theme of winter sports, or informal.

Robert Szeremi, high, and Lt. Russell Miner second.

Winners among the women were Mrs. Verné C. Wolff, high, and Mrs. Jesse Fishback, second.

MRS. WASHBURN WINS AT BRIDGE

Winners at Party Bridge sponsored by the Redstone Arsenal Officers Wives Club were Mrs. R. W. Washburn, first, Mrs. E. S. Shorsten, second and Mrs. E. R. Christopherson, third.

Reservations to play with the group on Thursdays at the Squirrel Hill Officers Club are handled by Mrs. T. R. Edwards, 877-5460.

COFFEE SCHEDULED

Wives of officers in the Army Missile Support Command will meet Thursday, Feb. 7 at 10 a.m. in the Redstone Room of the Squirrel Hill Officers Club for Coffee.

Mrs. Robert N. Grove will take reservations. The hostess is Mrs. Gordon Helemars.

ACCOUNTANTS MEET

Joseph C. Moquin, executive vice president of Brown Engineering Co., addressed the Federal Government Accountants Association at a dinner meeting Thursday night at the Huntsville Country Club.

He talked on "Control of Work Order Cost and Performance." Moquin is a former director of the Army Management School at Rock Island, Ill.

Births at Post Hospital

Phillip Gary Edge, 5 lbs. 11 ozs., Jan. 9, son of Sn and Mrs. Bobby G. Edge.

Lori Ann Otter, 5 lbs. 4½ ozs., Jan. 11, daughter of 1/Lt. and Mrs. Donald D. Otter.

James Walter Hodges, 6 lbs. 4 ozs., Jan. 12, son of Sp4 and Mrs. John L. Hodges.

Suzanne Kay Neal, 7 lbs. 10¾ ozs., Jan. 14 daughter of 1/Lt. and Mrs. Clarke L. Neal.

David Lee Perryman, 8 lbs. 12¼ ozs., Jan. 14, son of SSgt. and Mrs.



JUNIOR HOSTESS OFFICERS—Following last week's election, the officers of the Junior Hostesses for 1963 at the Redstone Arsenal Service Club are (left to right): Miss Doreen Miley, secretary, Miss Vera Holder, vice president; Miss Marell Kelly, president, and Miss Donna Bettens, membership chairman. The Junior Hostess organization assists the service club staff in planning and carrying out the service club programs.

James R. Perryman, ozs., Jan. 15, daughter of Sp4 and Belinda Dawn Lasitis, 5 lbs., 6½ Mrs. James E. Lasitis.

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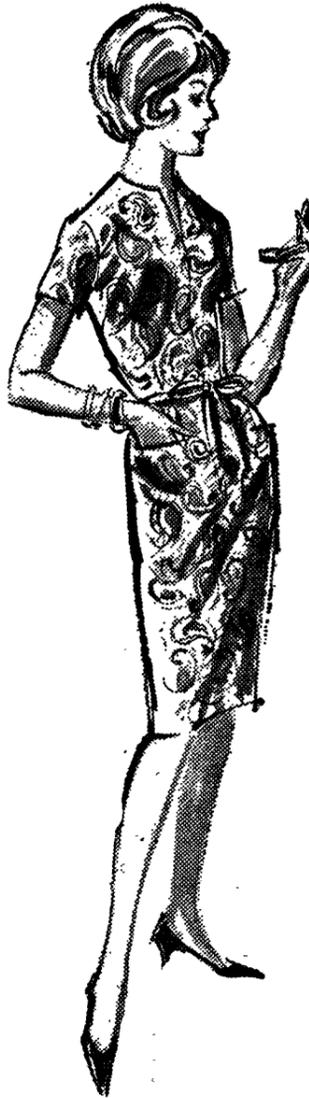
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At the Service Club

By Brenda Hanson

When January winds blow and raindrops fall, don't just sit around the barracks wishing for something to do. Try venturing out and seeking something pleasurable, entertaining, and fun. "Variety is the spice of life," and variety is the word for the Service Club program this week. Card games, dances, dance classes — but I had better stop with dance classes since I am getting ahead of myself.

Dance Classes will begin tonight in the Main Lounge at 7 p.m. In case there are females who read this column, and who would be interested in taking these classes: Contact the Service Club for further information, 876-4531.

Here's a note of interest to pool players. A pool contest will take place on Thursday, Jan. 24 at 8 p.m. Who knows, you may be the champion for January. A prize will be given to the winner.

Anyone interested in learning to play Bridge? If so, we have just the solution to your problem. Miss Patterson gives instructions Friday night, Jan. 25, at 7:30 p.m., and we welcome you to come and get in on the bridge games.

Saturday, Jan. 26, a musical quiz, "Name That Tune," is on the agenda at 8 p.m. This is a good way to test your knowledge of music. Too—we have a mystery tune. You can be the winner of an identification bracelet just by naming the mystery tune.

Sunday, Jan. 27, Betty will be serving you hot coffee and donuts at 9 a.m. This can serve as a starter for the day. So hop out of bed and breeze right down to the Service Club for a refreshing hot cup of coffee and donuts.

The Frost Frolic will begin at 8 p.m. Sunday, Jan. 27, with the

"Jaguars" furnishing the music. Those who haven't danced to the music of the Jaguars have missed a real treat and you'll not want to miss this chance. Another thing that I might mention about the dance — the Huntsville and the Birmingham Hostesses will be here. The "Jaguars," the Huntsville Hostesses, and the Birmingham Hostesses are three reasons why you shouldn't miss this big dance.

We'll relax on Monday, Jan. 28, at 8:15 p.m. in the main lounge with Game Night. You may win one of the grand prizes. So we'll be looking forward to you joining us.

Jan. 29 at 8 p.m. we have a treat for you people who have a sweet tooth. A Fudge Party is scheduled. We urge you to come out and join us in making fudge . . . Might even let you clean the pans.

January and February are usually the two coldest months of the year in Alabama, so Betty has scheduled one of the hottest schedules of the year to compensate for the chilly out-of-doors.

The International Student Night complete with a Bar-be-cue Supper and entertainment from International House at Jacksonville College will be the special event of Feb. 8. This is the entertainment event of the year—you don't want to miss this one.

Then too—tentative plans are in the making for a Post-Wide Talent Contest, Sweetheart Semi-Formal Dance, and a night at Harold's Club. On this night the Service Club will be converted into Harold's Club complete accessories and the atmosphere of Harold's Club in Reno, Nevada. Add these highlights to several parties, games, and contests and you'll have a real winner of a schedule.

In fact, the whole year looks pretty promising. I'll add the famous words of Disraeli and leave you with a thought. "Count not

Entertainment Section

PFC ART KALIN

Entries for the Post-Wide Talent contest are coming at a good pace. The talent involved seems to be of a very professional nature. Those who attended the dance held at the Service Club, Sunday, Jan. 13, got a sneak-preview of some of the acts who are entered in the contest.

We still can use a lot more entries. As a matter of fact, we can definitely use all who would like to take part.

Please don't let jitters, fears, or embarrassment keep you from entering. Getting on stage to perform in front of a group is much like playing in a game of football. There is always the nervousness and "butterflies" in the stomach, but as soon as contact is made, it all disappears and one gets down to the business at hand.

It is the same in the entertainment business. As a matter of fact, you can ask the long established pros, and they will tell you that if they weren't nervous before a performance, they would be scared of goofing.

"Butterflies" and nervousness are a normal reaction to being placed in front of a group. It is a feeling more to be desired than feared. So, let's get those entries coming in and make this show the biggest of "63."

In the tentative planning stages is a Variety Show, featuring the winners of the talent contest and any other acts that prove themselves worthy. More information on this at a later date.

The numbers to call to enter the contest are 876-4531 and 876-5492 or stop by the Service Club. The date to remember is Feb. 28—the date the Post-Wide Talent Contest will be held at the Service Club at 8:15 p.m. Watch this column for more news of entertainment.

the minutes by calendars, but by sensations, and each moment will be a day, and each day a life."

—Brenda

Documents Section Experiments With Opening Saturdays

The Documents Section of the Technical Library, located in Building 4488, is now open on Saturday for benefit of regular patrons.

Material in the Documents Section consists mostly of technical reports and motion picture film in the research and development field.

The move was made by request of research personnel of both the Army Missile Command and the Marshall Space Flight Center.

The Documents Section is headed by Mrs. Clara Rogers. After the new hours have been in effect long enough to permit evaluation, a study will be made to see if the facilities are used enough on Saturday to warrant the extra hours.

The U. S. Marine Band has played at every presidential inauguration since Jefferson's time.

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1956 Olds 2-Dr.

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Wagon, Lakewood, radio, heater, stick shift, extra clean. New tires, One owner. Book value \$1300.00 extra clean to \$1450.00 like new.

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2-Dr. V8, auto., radio, heater. A nice car. Book Value clean \$630., extra clean \$720.00.

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Sedan DeVille, full power, new tires, low mileage. Clean Car. Book Value average \$840. to \$1020.00 clean.

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Belvedere, V8, auto., radio, heater, clean. Book Value average \$335.00 to clean \$510.00.

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Bel-Air, V8, stick shift. Book Value average \$235.00 to clean \$380.00.

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Hardtop, V8, auto., radio, heater. Clean Car. Book Value average \$320.00 to clean \$405.00.

1956 Pontiac 4-Dr.

Hardtop, black & white, auto., radio, heater, new tires, clean. Book Value clean \$400.00 to extra clean \$480.00.

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Hardtop Impala, radio, heater, V8, auto. Book Value clean \$870.00 to \$945.00 extra clean.

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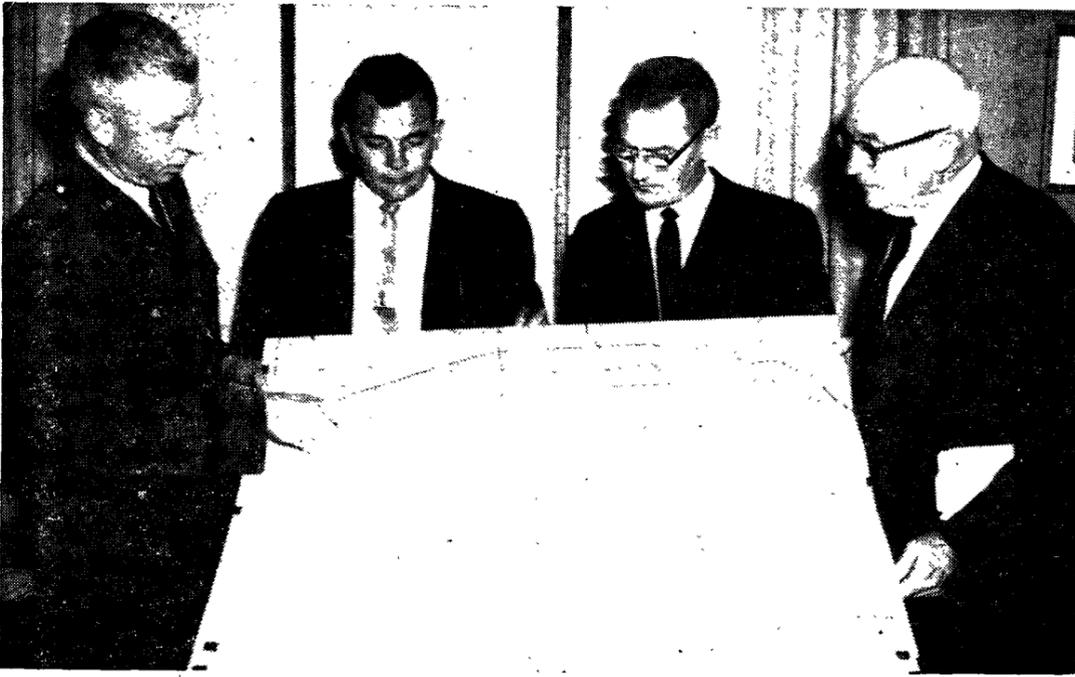
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HIGHWAY DIRECTOR VISITS ARSENAL—Alabama State Highway Director Ed Rodgers, right, received a rundown recently on Redstone Arsenal's network of roadways and how they fit in with city, county and state highway plans. Explaining a map of the 40,000 acre installation is Col. Robert M. Allgeier, left, Assistant for Intelligence, Operations and Security at the Army Missile Support Command. Charles Cummings, second from left, head of the Huntsville City Council's Street Committee, and Madison County State Senator Roscoe Roberts, accompanied Rodgers on a tour of the arsenal. Rodgers, of Decatur, was honored at a luncheon attended by Col. Allgeier, Col. Thomas W. Cooke, Commander, AMSC; and Col. Richard P. Davidson, Post Engineer.

level to altitudes of several miles. It has now been adopted by the U. S. Army and Marine Corps, Canada and 10 other European members of the North Atlantic Treaty Organization. Neutral Sweden also purchased the Hawk from the United States. The first Swedish Hawk unit was trained here last year. Hawk systems for use in Europe are being manufactured there by firms in five NATO countries. The Raytheon Co. of Watertown, Mass., is prime contractor for the system.

FAR EAST ALLIES BEGIN TRAINING ON HAWK MISSILE

Students from two of the nation's Far East allies will receive

training on the Army's powerful Hawk air defense missile here in 1963, the Ordnance Guided Missile School announced today.

Col. William J. Macpherson, commandant, said students from Free China and Korea will join men from 13 other North American and European nations that have adopted the Hawk as a standard defense against low-flying enemies. The first Chinese Ordnance maintenance unit has been activated for training and the first Koreans have begun individual instruction, Macpherson said. The Hawk is a supersonic, solid-propelled missile that uses special radars and homing device to intercept targets from treetop

Low-Cost Program Gains Popularity

Almost a third of the Arsenal work force is enrolled in the Redstone Benefit Assn. Group Life Insurance Program with the third quarterly enrollment period set for the first week of February.

New employes since the last enrollment period may sign up for the program without proof of insurability. Those who passed up the program in November may enroll now by submitting to and passing an insurance physical.

At the conclusion of the November enrollment there were 3181 civilian employes enrolled for the coverage that supplements the regular Government insurance program.

The volume of insurance in the low-cost program is \$29 million.

Claims have been paid to the beneficiaries of four deceased employes who had been enrolled, one of which included the double indemnity provision for accidental death.

In addition to these claims, another member of the program was granted an \$8,000 paid up policy upon being retired with full disability.

Claims paid to date total \$62,000.

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Versatile Pershing

Southern Team Tests Arctic Capabilities

Cool, man, cool! These words are not just slang to Ed Huling of the Test and Evaluation Laboratory at the U. S. Army Missile Command. Alaska is "home" for Huling and a military-contractor group while they conduct the most grueling field test in the life of the new Pershing ballistic missile system.

The Pershing system is undergoing environmental tests at three sites at Ft. Wainwright, Alaska. Huling is the site technical supervisor for the test which will run through March.

The Redstone Arsenal engineer is working with a 15-man military environmental test team and some 44 Martin Company employees.

Most of the group left the warm climate of home stations at Redstone Arsenal, White Sands Missile Range in New Mexico, and the prime contractor's installation at Orlando, Fla.

These men are finding the Arctic environment ideal for testing the operating extremes of the Pershing system but otherwise . . . cool.

Equipment for the test is being airlifted by military cargo plane.

Military personnel are performing the bulk of the operational tests, which includes road marches, countdowns, and other activities designed to prove out the system or to uncover any deficiencies which may exist.

The military-contractor team plans to work two eight-hour shifts a day through March, to take maximum advantage of weather extremes in Alaska during this period.

Quarters for the team are barracks located at Ft. Wainwright, near Fairbanks, just 120 miles south of the Arctic Circle.

This is the third phase of testing in the Research and Development Reliability Engineering Program for the Pershing weapons system.

Missiles will not be fired during any of the environmental tests. Firings are currently being conducted at Cape Canaveral, Fla.

Pershing's mobility will be demonstrated in the Arctic test by moving the equipment on self-contained tracked vehicles to firing sites. On site the system personnel will execute operations in-

cluding redeployment to an alternate launch site, change of target, stand-by under black-out, and re-supply of a missile to a firing battery at night.

cluding redeployment to an alternate launch site, change of target, stand-by under black-out, and re-supply of a missile to a firing battery at night.

An earlier phase of the environmental testing program was conducted in 1961 at the Aberdeen Proving Ground, Md. Pershing was put through road and rail shock tests designed to simulate any terrain or handling conditions it will encounter as a tactical system.

A climatic chamber at Eglin Air Force Base, Fla., was used earlier this year for a two-month study of the effects that controlled temperatures have on the weapons system. Extremes of minus 65 degrees to 125 degrees were used to bring out deficiencies.

Capt. Warfield Lewis, deputy chief of the Test and Evaluation Branch of the Pershing Project

Reserve Officers To Study Oceans

Lt. Thomas Kerr who has a master of science degree from Auburn

University in Oceanography will teach at the Naval Reserve Officers School this semester.

Following a course in outer space, the ocean studies have been dubbed "inner space."

Reserve officers who wish to participate in this course may apply at the Naval Reserve Training Center in Big Springs Park on Wednesday nights.

The course begins January 30.

Manager Office, said "the controlled temperature test at Eglin was successful in helping scientists find as many deficiencies as possible before the Arctic test." Capt. Lewis pointed out that the study in Alaska will prove out findings of the laboratory situation.

The Pershing, designed to replace the operational Redstone missile, is being developed under the supervision of the U. S. Army Missile Command.

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PERSHING SITE SUPERVISOR — Ed Huling of the Test and Evaluation Laboratory is pictured working at a Pershing environmental test site just 120 miles from the Arctic Circle at Fort Wainwright, Alaska. Huling and a military-industry team are conducting the grueling test in temperatures ranging from 15 to 50 degrees below zero.



REDSTONE FEDERAL CREDIT UNION
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Research Scientists To Present Papers

Two Army Missile Command scientists will explain certain aspects of inertial guidance system design for ballistic missiles January 31 at the National Winter



WILLIAM V. GUDAITIS



JOHN P. LEONARD

Convention on Military Electronics in Los Angeles.

William V. Gudaitis, deputy director of the Guidance and Control Laboratory Directorate of Research and Development will present results of Army studies on 'Free' rockets.

John Leonard, Chief of the Guidance and Control Systems

'Shoot And Scoot' Missile Tested In Near Hurricane

The Army Thursday successfully fired its Pershing "shoot-and-scoot" missile to test its ability to withstand severe near hurricane force winds.

The missile tilted sharply as it left the erector launcher, then straightened out and proceeded on its pre-planned path to the impact point some 200 miles down the Atlantic Missile Range.

Deliberately tilted at liftoff to simulate the buffeting of strong winds, the Pershing again proved

its all-weather capabilities. Pershing gained the nickname "shoot-and-scoot" because it can be easily and quickly transported from place to place.

The missile used last week was fired from an erector launcher mounted on an XM-474 tracked vehicle. The tactical version of the system will call for the Pershing

Branch with the Guidance and Control Laboratory, will attend the convention to take part in technical discussions which will also be held.

The Guidance and Control Laboratory is responsible for research and development of guidance and control systems for most of the Army's missiles.

The Redstone Rocket — January 23, 1963 Page 13

MISSILEMAN TALKS TO ROTC CADETS

BROOKINGS, South Dakota — Advanced Army and Air Force ROTC cadets at South Dakota State College got their first real introduction to the Army's missile and rocket program last Thursday (Jan. 17).

Lt. Frederick L. Coonan, Jr., of the Mauler Project Office addressed more than 150 cadets and their guests at dinner meeting sponsored by the Officer's Open Mess.

Lt. Coonan also met with student cadets and answered individual questions and discussed career opportunities for officers and civilian engineers and technicians in the Army's missile and rocket program.

Lt. Coonan's visit to South Dakota State College was arranged on invitation from the Department of Military Science to the Army Materiel Command.

to be fired from the tracked vehicle in the ground mobile mode. Col. O. M. Hirsch, Pershing Project Manager, said preliminary data indicated that all test objectives had been met.

Pershing, a two-stage solid propellant missile, will replace the liquid fueled Redstone.

Martin Company, Orlando Division, is prime contractor for the Pershing under the technical supervision of the Army Missile Command at Redstone Arsenal. Personnel from both organizations participated in the firing.

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Page 14 The Redstone Rocket — January 23, 1963

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INCOME TAX RETURNS — Prepared by L. P. A. Get ahead of the rush. Phone 536-9161 for appointment. 5:30 p.m. to 9:00 p.m. tnc

ON GUNTERSVILLE LAKE—For Rent Boat House, 2 housekeeping rooms with private bath for couple or gentlemen. House-trailer space available Feb. 1st, also cabin site for sale. Call 536-3113 or 534-1451. Write P. O. Box 473, Huntsville. tnc

FORMER STUDENTS — And friends of Alverson — Draughon College, Birmingham, are invited to "Open House" for Alverson-Draughon, Huntsville Division. Top of the Times Building, 5 to 8 p.m., Wednesday, January 30th. Phone 534-2466. Benefits to graduates now available to graduates in Huntsville. 1tc

FOR SALE — Complete Shoe Shop Landis Machines, curved model, K stitcher, right hand. 400 line finisher. Singer patcher machine, shoe press, stretcher and all hand tools, first class condition, owner deceased. Phone 536-3891. tnc

FOR RENT TO GENTLEMEN — 1 and 2 room efficiency apartments, private bath, private entrance, off street parking, downtown. Apply between 10 a.m. to 4 p.m. 106 N. Lincoln Ave. Phone 534-1451. tnc

BILL'S ALTERATION SHOP, 202 Eustis St. — Alterations of all kinds for men, ladies and children. Reweaving, phone 536-0811. Open 8 to 5:30—'til 7:30 on Thursdays. Just 1 door off courthouse Square S. E. 2-13c

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EQUITY SALE BY OWNER — 3 bedroom, 2 baths, air conditioned brick with carport and storage, family room carpeted, 1630 sq. ft., in Thornton Acres, 2900 Lafayette Road, near Parkway Shopping Center. Phone 536-8405. 1tc

FOR HIRE — Case Diesel Tractor on rubber, front loader, back hoe ditching, septic tanks, drain fields, ect. Call Charles Madison, 772-6649. 1tp

FOR SALE — 1957 Ford Custom 300 (4 door). Radio, heater, new tires & battery. Phone 539-1936 after 5:00 p.m. 1tc


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FOR SALE — 1956 Plymouth 4 door Belvedere, all power, radio, heater, car in good condition, a real bargain, \$360.00. Phone 536-5620. 1tc

FOR SALE — Factory built deluxe highway cruiser camper, fits ½ ton, wide bed pick-up truck. Phone 876-9532 or 539-1089. 1tc

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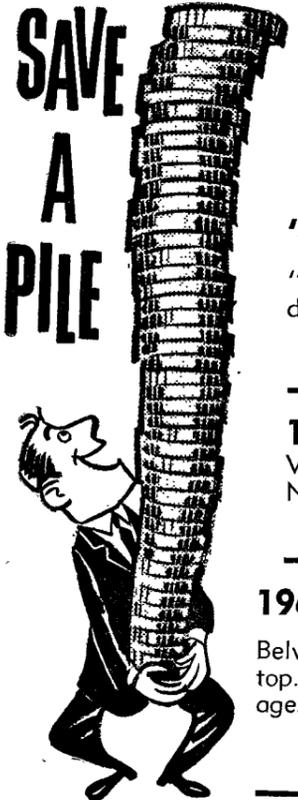
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1959 Opel Sedan Clean and ready to go. \$595.00	1956 Dodge 2-Dr. Hardtop Radio, heater, power steering and brakes. SPECIAL! \$295.00




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THIRD TIME AROUND—Brig. Gen. Howard P. Persons, Jr., Army Missile Command, presents Lt. Jean Algans, French student at OGMS, his third diploma from the Guided Missile School as his wife, Monique looks on. Lt. Algans is now attending Unit Training at OGMS.

STUDENTS VISIT MISSILE SCHOOL

Some 40 students from the USA Chemical Corps School at Ft. McClellan, will attend a special presentation on the "Principles of Nuclear Weapons" to be held at the Ordnance Guided Missile School on Jan. 25.

After attending the three hour class, the students will be broken down into groups and spend the remainder of the day touring OGMS and the Marshall Space Flight Center.

While at OGMS the students will see how training is conducted here on the Pershing, Nike and Sergeant systems by the Field Artillery Missile Division and the Air Defense Missile Division of the Department of Individual Training.

Post Library

ANNA L. FARRAR, Librarian

"Managing Your Money" is a subject of interest to almost everyone, and books at the Post Library on money management, personnel finance, budgeting, saving, investing, and insurance circulate briskly. "How to get more for your money" tells the consumer how he can best get his money's worth through wise buying, investing, planning, and understanding of day-to-day economics.

Allen, Myron S., "Morphological Creativity: the Miracle of Your Hidden Brain Power."

Belanger, Emil Jr., "Modern Manufacturing Formulary."

Better Homes and Gardens, Money Management for Your Family.

Boccaccio, Giovanni, "The Nymph of Fiesole."

Brooks, Jerome Edmund, "The \$30,000,000 Cup; the Stormy History of the American Cup."

Cox, Homer L., "Coping With Correspondence."

Dictionary, "Dictionary of Modern Ballet."

Gard, Robert Edward, "Wisconsin Lore, Antics and Anecdotes of Wisconsin."

Griswold, Laurence V., "Trampoline Tumbling."

Haagen, Paul T., "How to Have a Better House."

Halacy, D. S., "Computers—the Machines We Think With."

Hargreaves, Harry, "The Bird, and Others."

Herkimer, Hubert, "Cost Manual for Piping and Mechanical Construction."

Hoover, J. Edgar, "A Study of Communism."

Korteweg, S., "A Textbook of Money."

Krasna, Norman, "Who Was That Lady I Saw You With?"

Mallery, Paul, "Bridge and Trestle Handbook for Model Railroaders."

Maxwell, Constantia Elizabeth, "Dublin Under the Georges, 1714-1830."

Merchant, Wilfred, "An Introduction to the Theory of Structures."

Moley, Raymond, "The Republican Opportunity."

Norhoff, Charles, "The Communist Societies of the United States."

TYPIST TEST CLOSES

The executive secretary of the Redstone Board of U. S. Civil Service Examiners has announced the closing of the open competitive examination for clerk typist and clerk stenographer positions. Applications for the tests must

be filed with the Board by the close of business on Jan. 24.

Those applications received after the announced closing date will not be accepted unless they are received by mail and bear a postmark on or before the closing date.

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