

LT. GEN. AUGUST SCHOMBURG

Gens. Schomburg, Butchers Visit Redstone On Tuesday

Tuesday will be a busy day for the Army Missile Command with a double welcome mat going out for the U. S. Army's top cop and for a former Commanding General of the Army Missile Command when it still owned the name "Ordnance."

Former CG To Discuss Supply And Maintenance

Lt. Gen. August Schomburg is scheduled to make his first visit to Redstone Arsenal since he relinquished command of the Army Ordnance Missile Command in April of last year.

The Commanding General of the U. S. Army Supply and Maintenance Command will arrive in

Huntsville Sunday night.

Monday he will visit the Atlanta General Depot. Tuesday he will fly to Anniston Depot. Both organizations are field elements under Lt. Gen. Schomburg's Supply and Maintenance Command.

Lt. Gen. Schomburg's official visit to Redstone Arsenal will be-

gin at noon Tuesday at a luncheon with key officials of the Missile Command. During the day he will meet with Maj. Gen. Francis J. McMorrow, Commanding General, and hold detailed discussions with Col. R. W. Van Wert, Director of the Missile Command's Directorate of Supply and Maintenance and members of Col. Van Wert's staff.

Lt. Gen. Schomburg will leave Huntsville Wednesday to return to Washington, D. C., headquarters of his new command.

Lt. Gen. Schomburg was Commanding General of the Army's missile programs from February, 1960, until April, 1962. When he was promoted to the rank of Lieutenant General, he also assumed a new assignment as commander of the U. S. Army Supply and Maintenance Command.

MP's Chief Will Visit At Arsenal

Maj. Gen. Ralph J. Butchers, chief of the Army's military policemen, will start a two-day tour of Redstone installations on January 15.

The Department of Army's Provost Marshal General will fly into Redstone Army Airfield Tuesday afternoon. During his visit, which extends through Wednesday, Gen. Butchers is scheduled to meet with Maj. Gen. Francis J. McMorrow, Commanding General, Army Missile Command; Col. Thomas W. Cooke, Commander, Army Missile Support Command; personnel of the civilian guard force; and Military Police Officers and off-duty Military Police.

This will be Gen. Butchers' second visit to Redstone. He was here in February, 1962. During



GEN. BUTCHERS

next week's tour, he plans to cover points of major concern to the Missile Command which relate to the Provost Marshal General's field of interest.

The briefing he will receive will include features peculiar to Redstone, such as traffic problems, vehicle decals and other matters he is not likely to encounter at other military installations. Included on his tour will be a visit to the igloo area where recent fall-out shelter tests were conducted.

Gen. Butchers' visit at Redstone is part of a routine tour he is making of installations within the Third U. S. Army Area. Accompanying him will be Lt. Col. R. E. Vail, Provost Marshal Office, Headquarters, Third U. S. Army.

Hosting Gen. Butchers during his Redstone visit will be Col. R. M. Allgeier, Assistant for Intelligence, Operations and Security.

ARMY CHORUS SCHEDULED

The United States Army Chorus will be at Redstone Arsenal on Jan. 28 during a tour that will take them to major Army installations in the Third Army area.

The Redstone Rocket

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JANUARY 9, 1963

Six Firms Share In New Awards

Six concerns share in the award of some \$83 million in contracts let by the Army recently for work on the Pershing, Hawk and Nike Hercules missile systems and Downrange Anti-Missile Measurement Program.

The largest single award, totaling \$46,747,988, went to the Raytheon Company of Lexington, Mass. The award covers four contracts for production of Hawk guided missile components and equipment.

The Eclipse-Pioneer Division of the Bendix Corp. received a \$19,409,630 award for Pershing guidance and control elements and ground support equipment.

Production of erector launchers for the Pershing will be accomplished by the Universal Match Corp. The work was authorized by the award of a contract for \$2,300,266 to Universal.

Components for the Nike Herc-

Redstone Missile Systems Complete Brilliant Year

Seldom in the past has the Army Missile Command team managed to hang more trophies on the Arsenal wall than it did in 1962.

This was the year that the Zeus scored three times against a real ICBM nose cone; the Sergeant pulled rank on the Corporal; the Pershing went from R&D to SOP; the Hawk became the first missile to go into international production; and Missile "B" was christened and renamed Lance.

It was also the year that a Hercules carrying a nuclear warhead lit up the Pacific around Johnston Island with a detonation in the fringes of space.

For Zeus fans the year got off to a good start right away. On January 25 the big anti-missile missile, in its fifth consecutive successful firing from Point Mugu, Calif., intercepted a simulated target flying at ICBM speed.

But the big Zeus news came out of the Pacific on July 19. On this date, high above tiny Kwajalein Island, the Zeus intercepted a real ICBM target launched 5,000 miles away at Vandenburg

Air Force Base on the California coast.

The target was an Atlas missile nose cone and the biggest of the Army missiles was to hit two more of them before the year was out.

Spectacular Shot

One of the most spectacular achievements by an Army missile came on November 5 when a Hercules provided the final blast in this country's most recent high altitude nuclear test series.

The Hercules was put in the field in 1957 as a strategic aircraft defense weapon with nuclear and non-nuclear warheads.

During the last week of October, while autumn was turning the trees on Redstone Arsenal bright colors, two brand new missile systems were turning olive drab.

The Pershing and Sergeant were delivered to field troops as nimble replacements for older, heavyweight liquid-fueled missiles that had earned laurels by successfully invading the realm of war previously reserved for big guns.

(See SYSTEMS on Page 3)

Gen. McMorrow Talks In Orlando

Maj. Gen. F. J. McMorrow, Commanding General of the U. S. Army Missile Command, will discuss Army missile development Friday night in Orlando, Florida.

The ranking officer at Redstone Arsenal will be principal speaker for a dinner meeting of the Central Florida Chapter of the American Ordnance Association.

While in Orlando Gen. McMorrow will also tour plant facilities of the Martin Company. The Martin Company is prime contractor for the Army's selective range Pershing ballistic missile.

The AOA meeting will be attended by representatives of industry from Miami to Gainesville, Fla., and the Army, Navy and Air Force.

Bloodmobile Unit At Arsenal Today

The first visit of the Red Cross Bloodmobile of the new year to Redstone is underway today with the unit set up at Building 7110.

The Bloodmobile will be at that location until 2:30 p.m.

15 Nations Study At Missile School

The first students from the Republic of Korea began classes at the U. S. Army Ordnance Guided Missile School this week.

Headed by Maj. Sangwan Cha, a group of 16 Korean Army officers and men started training on the Hawk air defense missile system.

The Koreans are the first U. S. allies from Asia to receive training on the versatile Hawk missile which has been adopted as a standard weapon by the U. S. Army and the North Atlantic Treaty Organization. It is to be manufactured in Europe for NATO by companies in five nations.

The Hawk uses special radar equipment and homing devices to zero in on hostile targets from treetop level to altitudes of several miles.

Additional Koreans are scheduled to arrive during the next few weeks to form a complete Hawk field support detachment.

Korea is the 15th foreign nation to send students to the Army's "Missile Academy" here.



CANADIAN ATTACHE WELCOMED—Canadian Brig. John Arthur Watson Bennett, right, was welcomed Monday by Maj. Gen. Francis J. McMorrow, Commanding General, as the Military Attache to the United States began a three-day visit at Redstone Arsenal. Brig. Bennett also is Commander of the Canadian Army Staff, Washington, D. C. He was honored in ceremonies at the Post Chapel. During his visit, the Canadian will tour the Army Missile Command, the Ordnance Guided Missile School and Marshall Space Flight Center.

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.

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

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

Rocket Ruminations

PEACE GOODS

Disarmament talks are bound to fail when both sides stick to their guns.

—Herm Albright

Four Score Years Of Service

Redstone career employes will join forces with installations around the country and the American public next week in observance of the 80th anniversary of the Civil Service Act of 1883 under which some 15,000 Arsenal personnel work for the almost 200 million Americans.

Written originally as a reform measure to end the evils of the Spoils System, the Act established a personnel system that has withstood the test of time in providing the excellence in service that is required for the successful execution of the many Federal programs and policies. The Civil Service system has evolved into a very important function of everyday America and today, in one way or another, the work of Federal employes touches every American every day.

Present day career employes are beneficiaries of the Act and the subsequent Executive actions that have provided for such a rich heritage of progressive improvements for the administration and service to all citizens. No longer the clerical support mission of its infancy, the service has assumed a highly technical role in support of vital public programs.

In commenting on the emergence of Civil Service as a function of the Federal government, President Kennedy said: "The success of this Government, and thus the success of our nation, depends in the last analysis upon the quality of the career service . . . They face problems of unprecedented importance and perplexity. We are all dependent on their sense of loyalty and responsibility as well as their competence and energy."

Announce Closing Dates For Tests

The executive secretary of the Board of Civil Service Examiners, U. S. Army Missile Support Command, has announced the closing dates of several competitive announcements.

The six examinations affected by the announcement will be closed at the end of business on January 10. Applications received subsequent to that date will not be accepted unless they bear a postmark on or before the closing date.

Examinations to be closed are: Electronic Development Technician, 5-35-15 (61), GS-5 through 12; Electric Accounting Machine Operator, AT-35-4 (62), GS-2, 3 and 4, and supervisor GS-4, 5 and 7;

EAM Project Planner, AT-35-12 (62), GS-5 and 7; Illustrator, general, 5-35-16 (59), GS-3, and Technical Equipment, general, GS-4 through 12; Photographer, offset, 5-35-45 (59), W-7, 9, and 11; and Wire Communications Equipment, installer and repairer, 5-35-39 (59), W-11, L-11, and S-7.

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Sustained Superior Performance

Jesse J. Burns, James D. Garrett, Jr., Shirley A. Grayson, and Joe B. May, all of Procurement and Production; Bettye G. Grim and Charles B. Rymer, Sr., Supply and Maintenance; Doris F. Chafin and Jean Cox, R&D; Mable D. Smith and Rita S. Gwathney, Finance and Accounting; Olive H. Hood, Calibration Center; Doris W. Paullin, Consolidated Supply; Louise B. Russell, Civilian Personnel; and Pearl H. Elser, Transportation Division.

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Banking Specialist Heads AIEE Meeting

Macon Overton, a representative of the IBM Corp., will speak to members and guests of the American Institute of Industrial Engineers at a meeting to be held at the Sahara Motel next Monday evening.

A specialist in the field of banking automation, Mr. Overton will present and discuss ideas and concepts currently in use in automated banks.

The meeting will open with a social hour starting at 6:15 followed by dinner an hour later. The election of officers for 1963 will follow the dinner and precede the talk by Mr. Overton.



SPECIAL ASSISTANTS—Mrs. Mildred Donahoo and Daniel Cockrell have been recently assigned to the Executive Secretary of the Incentive Awards Committee as Special Assistants. Both Mrs. Donahoo and Mr. Cockrell are veteran career employes of the Federal service, and experienced in the Personnel field.



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Arsenal scientists should have an easier time finding technical information with a recent shift of journals at the Technical Library in the Redstone Scientific Information Center.

More than 12,000 journals were moved and placed in alphabetical order by title. The library's journals formerly were arranged according to the Dewey decimal system.

Instead of checking the card catalog to find the Dewey decimal

number of the journal in which he's interested, a scientist can now go directly to the shelves.

More than 500 journal titles were involved, some with issues as far back as the year 1700. The move was made possible when a section of the library moved to building 4484.

The switch from the Dewey decimal system is the first of a number of moves the library will make to adjust to its recent rapid expansion to serve the Army Mis-

sile Command, Marshall Space Flight Center and contractor elements on the Arsenal.

James P. Clark, deputy chief of the Center's Technical Library Branch, was in charge of the move. He was assisted by Marcile Bagley, Evelyn Fuqua, Mildred Grindle, Bettye Jean Pride, Oscar Rosado, Dorothy Ward, and Ted Woerner.

SYSTEMS

(Continued From Page 1)

The slender 34-foot-long Sergeant made its debut in olive drab on October 24 at White Sands Missile Range. A tactical Army team from Fort Sill, Okla., fired the missile before a prime audience of top level Army, government and foreign officials.

Shortly after the highly successful firing the Federal Republic of Germany announced that it was purchasing the system for deployment in Germany in 1963.

The Sergeant is a solid fuel missile that can be fired from its own mobile launcher-erector. It will replace the Corporal.

Pershing Operational

On the last day of October the Army Missile Command took delivery on the first tactical Pershing system. The Command promptly turned the system over to an Army unit from Fort Sill, Okla.

The Pershing, with the greatest success story to come out of test pads at Cape Canaveral, succeeds the heavy-weight Redstone which is now on sentry duty around the

world.

The highly mobile Pershing, with solid fuel motor and its own mobile launcher, represented more than just another new missile system. It means a seven-league step toward the deployment of foot-loose "shoot and scoot" weapons.

During the year the Hawk became the first Army missile to be put into production in plants of our NATO allies.

Five European countries — France, Belgium, Italy, Netherlands and West Germany — began turning out components of the low altitude aircraft and missile killer for their own defense.

The first test firing of a European-built Hawk took place in late October and the missile, performing like American-built missiles destroyed a target missile.

Track-Mounted

And in November a track-mounted missile that had gone through the planning stage with the drab name of Missile "B" got a new name and a new development contract.

The Missile Command tagged its replacement for the Lacrosse and Honest John with the name Lance and awarded Chance-Vought Corp. a contract to develop it.

The Lance will have nuclear and non-nuclear capabilities and marks the first use by the Army of a pre-packaged liquid propellant.

October, a month when the men and women of the Missile Command harvested the rewards for their labors in the form of several now operational systems,

SIX AWARDS

(Continued From Page 1)

ules air defense guided missile system will be produced under two contracts. One, for \$6,168,940, went to the Western Electric Co.

The other award, covering \$5,706,421, was made to the Douglas Aircraft Co. for production of items at the company's Charlotte, N.C., plant.

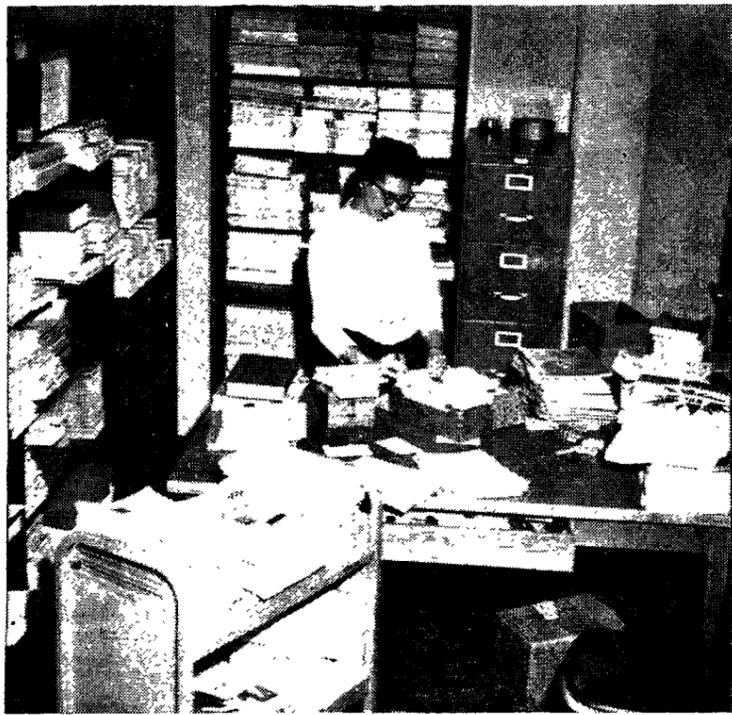
The Radio Corporation of America received a \$3,399,020 award to cover continued work on the Downrange Anti-Missile Measurement Program. This program, managed by the Missile Command, is an Advanced Research Projects Agency project.

also saw one of the smallest missiles roll off production lines.

The first mass-produced M72 Light Anti-Tank Weapon (LAW) was presented to Maj. Gen. F. J. McMorrow, Commanding General, Army Missile Command. The light weight weapon can be carried and fired by one man.

Other news of progress in the missile field perhaps received less notice, but were of equal importance in making 1962 an outstanding year of progress for the Missile Command.

White-collar employment in private industry was about 39 percent of all employed in 1956 and rose to almost 43 percent by 1962. In the Federal Government, with traditionally higher percentage of white-collar employment, the proportion rose from 68 percent in 1956 to nearly 73 percent in 1962.



NEEDLE IN A HAYSTACK?—Not for long. Although it appears difficult to find information in this jumble of journals in the Technical Library of the Redstone Scientific Information Center, it is easy as A-B-C. The journals were bound and shelved in alphabetical order. Binding Librarian Dorothy Ward is shown here preparing volumes to be bound.

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Mauler Emerges As Crucible Of Weapons Ideas

'March Order' Missile Shoots While In Stride

The Mauler is a sort of fighting Centaur—half horse and half armored "knight of old."

Vaguely, it looks as if someone combined the best features of a tank and those of a missile site and came out with a "beast" that resembles both its parents.

And that is about what happened. The Mauler's body is squat and bulky like a tank and it runs on tracks. It combs the sky through radar eyes," thinks with a computer "brain," and it "bites" with a flock of missiles.

When it goes operational, the Mauler will roll along with front-line troops and allow them to kill buzzing airplanes like swatting mosquitoes. It will also be effective against short range missiles.

The chief of the Mauler program is Col. Norman T. Dennis, a Project Manager who finds the problems of a missile system under development nothing new.

Before coming to Redstone Arsenal he was concerned with missile development in the Office of the Chief of Ordnance at the Pentagon.

Step into Col. Dennis' office on the second floor of Building 5250 and more than likely, you'll find him working at a table with his back to his paper-laden desk which faces the wall. He talks with a steady delivery of precise words and a short laugh is one of his natural expressions.

Ask about his Mauler staff or amateur radio and you've touched on favorite subjects which will bring a detailed and knowledgeable response.

Col. Dennis' interest in amateur radio dates back to 1931 when he was a student at the Case Institute of Technology in Cleveland. Since that time Col. Dennis has carried his "ham" station with him through Europe and Japan. Presently his call letters of W8IPF emanate from a storage room "shack" in his Arsenal residence.

A Cleveland native, the Colonel received his BS degree in electrical engineering from Case and took a masters degree from Rensselaer Polytechnic Institute. He graduated from the Command and General Staff College at Fort Leavenworth, Kans., in 1953. He holds membership in the Amateur Radio Relay League and the Ameri-

can Institute of Electrical Engineers.

Since entering service in 1939, he has held assignments with the Cleveland Ordnance District, troop commands in Europe and Japan, the Ballistic Research Laboratories at Aberdeen Proving Ground, Md., and as chief of the Anti-Missile Missile Section of the Guided Missile Branch, R&D Division, Office Chief of Ordnance.

Prior to coming to the Missile Command last October he was, successively, executive officer, Chief of the Procurement Division, and Commanding Officer of the Ordnance Industrial Center in Europe.

Another Hat

Now, besides being Mauler Project Manager, Col. Dennis wears a second hat; that of Commodity Manager for the Redeye Missile. He was named to that office last November and has nearly the same responsibilities for Redeye that he does for Mauler. Redeye, a one-man air defense weapon, is also in the development stage.

Col. Dennis makes no secret of his high regard for the Mauler Project Office staff. "I inherited an organization I'm extremely pleased with," he says. "Mr. Gober, Major Clark and each division chief is highly experienced in missile systems and their management." (Lewis Gober is the Deputy Project Manager and Maj. Willis Clark is the Assistant Project Manager.)

"The Project Manager's job," he explains, "is to control the activities of the project to insure that the system is fielded with a minimum of delays and at a minimum cost concurrent with the highest quality. It means solving interface problems between research and development, industrial production and field maintenance."

Research and development funds are the life blood of a growing missile system and concurrently the source of most of the daily problems. Says Col. Dennis, "nearly every day we go through exercises dealing with budget problems which arise because of limitations placed on funds a year ago (Mauler is funded on a year-to-year basis) and because of tech-

(Continued on Next Page)



THE MAULER—THE MANAGER—The system that he is responsible for forms a backdrop for Col. Norman Dennis, the Mauler Project Manager. The prime contractor for the Mauler system is General Dynamics/Pomona.

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Mauler

(Continued From Preceding Page) nical changes which result from experimentation."

The placement of the Mauler radars is a good example of technical changes which can cost money. The radars looked good as they emerged from the drawing board but when they were placed on an engineering model of the system it was found necessary to relocate various elements of them to make the system more mobile and air transportable.

The Mauler "is well within the state of the art. What we are primarily interested in is the application of detailed engineering," Col Dennis says.

While the Mauler may be within the state of the art, seldom before has the state of the art in so many fields been canvassed to come up with so many choice items for one missile system.

For example, the track vehicle is a revision of the M113 personnel carrier; the radars and their associated computer represent some of the most recent developments in missile fire control; the cannister-mounted bank of missiles reveal a debt to helicopter launchers; the compactness of operation would make a tank crew envious; and the whole thing is helicopter transportable.

Canada Assists

The system is also the first Army missile system to undergo development in two countries simultaneously. The de Havilland Corp. of Canada is presently working on the infrared radar for use with the system.

Not only does the Mauler reach for the ultimate in a self-contained heavy defense system, but it can be separated into a vehicle and a missile system pod, each of which will work independently. The missile system pod contains the radars, missiles, fire control apparatus and the necessary power packages. It can be lifted off of the track vehicle and ground emplaced to provide an umbrella of fire for tactical positions such as bridges and ammunition dumps.

Another idea which the Mauler will be the first system to com-

pletely employ is that of Multi-system Test Equipment. Heretofore five missile systems would require five sets of test equipment. And the bulk of the test equipment required to check out a system and maintain it often approaches that of the system itself.

But, like the exhaust analyzer in Joe Doake's garage that can be used on nearly any make of car, truck or tractor, Multi-system Test Equipment can be hooked up to any missile as long as it knows exactly what values to test for on that particular piece of equipment.

The Mauler Project Office is constantly providing the Multi-system Test Equipment people with general and specific information on what kind of "physical" the Mauler must get to determine if it is in top fighting trim.

Col. Dennis' civilian co-pilot on the Mauler System is Lewis L. Gober, the Deputy Project Manager who goes by the name "Ron" and softens the edges of his words like a native Mississippian. Gober was born in Madison, Miss., and took a degree in mechanical engineering from Mississippi State in 1940.

A year later he received a certificate in Marine Engineering from the Citadel in Charleston, S. C. and set sail as a marine design engineer. He landed in the Army during World War II as an anti-aircraft artillery officer. Gober presently holds the rank of Lieutenant Colonel in the Corps of



LEWIS GOBER

Engineers Reserve.

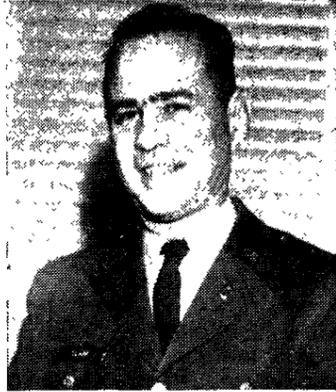
After working all terrains from dry land to dry dock, he took to the air and became Chief of the Organization and Equipment Branch of the Air Force Aviation Engineering Division at the Pentagon.

Gober came to Redstone Arsenal in 1956 and, among other positions, he has been Chief of the Engineering Branch of the old Industrial Division.

Col. Dennis calls Gober "my alter ego."

Academy Graduate

A third man in the top tier of Mauler Management is West Point-educated Maj. Willis Clark.



MAJ. WILLIS CLARK

Maj. Clark describes himself as a sort of "swing man" in the organization, able to take over when Col. Dennis and Gober are both tied up. The Okmulgee, Okla., native is also the Colonel's "general manager" in baseball parlance. He not only knows the game (the Major was once a missile system project officer at White Sands Missile Range) but he is also an able administrator.

Because the Mauler is a young system and growing, the Project Manager's Office has a day-to-day task of staff building and other personnel actions. Col. Dennis says, "in this area, Maj. Clark is particularly helpful because of his knowledge of missile systems complemented by a knowledge of Army procedures." Maj. Clark has a masters degree in EE from Stanford University.

Part of the Major's missile matriculation came during a stint working with the Air Force and NASA on the ADVENT communications satellite program at Fort Monmouth, N. J.

The Mauler Project Office gives the faint impression of a junior executive club. The division heads are young and vibrant with new ideas, just as the system is a crucible of new ideas. They believe in the Mauler with a fervor that rivals a cowboy's attachment to his horse.

Hoyt Harris, the chief of the



HOYT HARRIS



TWO-MAN OFFICE—Charles Bevan (left) and Howard Poln.

Test Division, is a good example of this enthusiasm. Harris, a Birmingham native, University of Alabama electrical engineering graduate and a low 70 golfer, came to the Missile Command via private industry and Korean War Air Force experience.

Harris says the Division's prime function is "to insure that the Mauler hardware which is developed during the program meets the military characteristics, technical requirements and design specifications. We formulate test plans and programs and insure their full implementation."

So far, nearly 50 Mauler birds have been put in flight and the way these flights were made may eventually save the government \$6 to \$8 million.

Call for Economy

It's an example of the kind of thinking around Mauler that ties in perfectly with the Department of Defense's call for economy.

A system usually goes through three series of tests: the develop-

ment test program, the engineering test program and the service test program. Mauler combined these in what Harris calls "a coordinated test program." Present figures indicate the savings will be in excess of \$4 million and further coordination is expected to yield even higher savings.

The Mauler has attracted the attention of NATO, the Navy, Marines, the British and the Canadians.

This summer a group of British engineers are scheduled to commence work alongside Mauler engineers here to become fully familiar with the system.

Quiet spoken and intense Bill Millsap, Chief of the Program Management Office, is another example of the Mauler's accent on youthful management and ebullience. Millsap and his Review and Analysis Branch Chief, Walt Brennaman, are testing a new and complex management tool called PERT/COST. The PERT/COST sys-

(Continued on Next Page)

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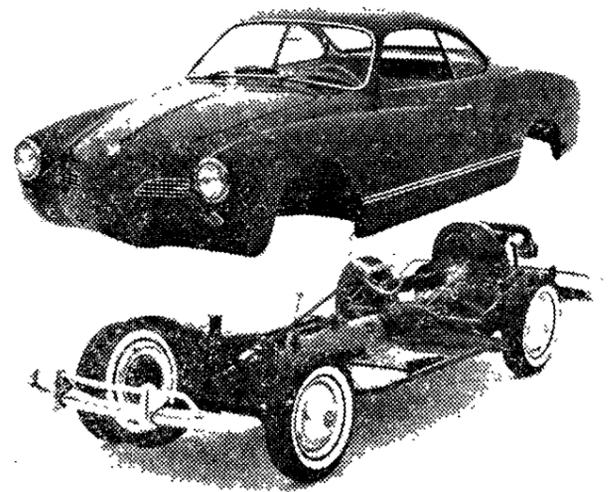


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Mauler

(Continued From Preceding Page) tem was undertaken as a pilot study at the direction of the Department of the Army and is being applied across the board in Mauler.

Millsap is an electronics engi-



WILLIAM MILLSAP

neer—he graduated from Auburn—and a native of Plant City, Fla. His background includes engineering duties with the Navy and TVA, Chief of the R&D Test Equipment Section of the Army Ordnance Missile Command and as director for research and development of the Nike Hercules Project from 1954 to 1958.

Col. Dennis says PERT/COST "divides our work into convenient packages—each of which can be individually priced for future control purposes and for comparison with actual subsequent expenditures.

Millsap carries this definition a bit further. PERT stands for Program Evaluation and Review Technique, and COST means just that—cost. Millsap calls it a "very good management tool that gives us increased visibility and better planning."

PERT/COST is essentially a visual representation of the whole program using circles to represent events and connecting lines to represent activity toward the events. A PERT/COST chart looks like a highly detailed roadmap with all of the cities and towns represented by circles. Just as you can go from here to Chicago by many routes, choosing the one that is the shortest and the most economical, a PERT/COST planner can trace a route to some goal.

Many Routes

Of course, using the system is considerably more complex than tracing a route from here to Chicago because many contractors and other government agencies are making the same trip along different routes and all of them must meet at certain points along the route at the same time.

Millsap, who is enthusiastic about PERT/COST, says our control of time and money in building a missile system should be increased significantly.

Two other branches in the Pro-

gram Management Office are the Plans Branch under Julian Hart and the Programs and Budget Branch under L. J. Steakley.

The Plans Branch is responsible for the development, coordination and dissemination of all long range Mauler plans. In addition to the R&D planning the Branch is also deeply involved in laying the groundwork for the day when the Mauler goes into production and tactical equipment must be bought. The Program and Budget Branch is described as a central clearing house for all current programs and budgets.

Quentin P. Morris, chief of the Mauler Procurement and Production Division, was born in South Wales, Great Britain, and still carries a bit of British accent.

He has a sort of rough English tweed look and a hearty smile. Morris, who was Deputy Director of Procurement in the old Industrial Division, is an ordnance Colonel in the Army Reserves.

His varied experience in the procurement field includes a period as Chief of the Jupiter Procurement Program and as head of procurement for Honest John, Littlejohn and LAW.

Morris considers "incentive con-



QUENTIN MORRIS

tracting" as one of Mauler's most significant features. Under this type of contracting—initiated this fiscal year—the contractor is given incentive in his contract to save the government both time and money.

Design Concepts

The procurement chief says that money spent for an R&D project such as the Mauler is really money spent for development of a "design concept" and for "documentation". From carefully detailed and trial proven engineering documentation, a manufacturer can build a missile system in much the same manner that you would build a high quality hi-fi set using the instructions in a do-it-yourself kit.

The Mauler Quality Engineering and Reliability Division right now could literally hold a conference in a telephone booth. It is made up of Howard Polin and Charles Bevan. But Polin jokes "we've found another desk and expect



MAULER SECRETARIES—Most Mauler paperwork passes through their hands. Sitting from L to R are: Gayle Winn, Nell Walker and Mary Virginia Roan. Standing L to R are: Julia Armstrong, head of the Operations Office; Nancy White, Laura Steakley and Betty Comer.

to start expanding."

Polin, a native of Philadelphia and a mechanical engineer from Drexel Institute, was a weatherman for the Air Force at one time. He has also worked at Frankford Arsenal as a fire control designer, and at Thiokol here on the Arsenal as a propulsion systems designer. He later headed up Test Laboratory Propulsion Section in the Army Ballistic Missile Agency and became Chief of Surface-to-Surface Missile tests with AOMC.

Bevan was a radar officer in World War II and came to Redstone from the Cincinnati Ordnance District.

The Quality and Reliability Division makes sure that the contractors' quality control is up to par. In a case like Mauler, it also determines beforehand what the reliability of missile components should be and the standards that should be applied to items used in the manufacture of the system.

The Mauler represents in more ways than one the pooling of the latest achievements in the entire missile field. The Mauler compactness is a direct result of such things as the use of electronic module circuits—whole circuits, transistors, resistors, capacitors and all—that have been fitted in-

to blocks of plastic the size of an ice cube. The reduction in size is comparable to that between a table model radio and a matchbox transistor radio.

Advanced Engineering

Basically the Mauler contains the same types of essential items found in any other air defense guided missile system. Compressing these components into the size required of the Mauler and making the whole package a one-piece mobile unit calls for advanced engineering.

The Mauler's System Engineering Division is headed by 32-year-



RAY HASE

old Raymond Hase who has spent his entire career as an electrical engineer in the missile field. Hase is a native of St. Louis, Mo., and a graduate of Washington University in that city. Just out of college he went to work for the Bell Telephone Laboratories on the Hercules project and after two years came to Redstone Arsenal as an enlisted man where he continued work in Hercules R&D.

Hase stayed on at Redstone when he left the service and was named chief engineer for the Mauler Project in 1960.

Hase says his division is "responsible for all engineering on the weapons system from inception to deployment." This includes development, production and maintenance engineering.

The engineers in the Division are managers in the sense that they direct the work of contractor personnel instead of doing a great deal of drawing board and slide rule work themselves. In fact, Hase says his staff members "are picked from among engineering personnel who have practical experience and have demonstrated the ability to move into management without losing engineering competence."

The Engineering Division finds (Continued on Next Page)

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Mauler

(Continued From Preceding Page) itself working in the forefront of missile technology somewhat like the man who is asked to fly a jet while almost everyone else is still pattering along behind a propeller.

Hase's branch chiefs are: Al Black, Systems Integration; Craig Kennedy, Requirements and Analysis; and A. O. Watson, Engineering.

While the soldier who will man the first Mauler may still be wearing civilian clothes, one Mauler division has him in mind. That is the System Support Division which is headed by Alan Compton.



ALAN COMPTON

Compton is another young engineer who came to Redstone Arsenal as a soldier and stayed on to gain a wealth of experience about missile systems before coming with Mauler.

Compton is a native of Minneapolis, Minn., and a graduate of the University of Minnesota. He came to the Arsenal in 1955 and became head of the Guided Missile Maintenance Procedures Shop. As a civilian he was at first a staff member in the Zeus Project Office, and later responsible for Mauler and Redeye in the Low Altitude Defense Systems area. He has also had experience with the Redstone, Jupiter, Corporal, and Lacrosse.

The Support Division is presently preparing the operating and maintenance manuals that will be used by troops in the field. It is also setting up a training program including a Mauler orientation course for key Department of Defense personnel that will start in March.

The Division is also participating in the design of the system mainly from the standpoint of its maintainability in the field. One of these projects is the standardization of electronic circuits by using the circuit modules mentioned earlier.

Compton's group is also preparing now to start selecting repair parts for systems that are yet to be manufactured.

His branch chiefs are: Lt. Fred Hill, Supply and Maintenance; James Haskins, Maintenance and Technical Assistance; and Ernest Smith, Publications and Training.



PLENTY OF HELP—Newly promoted Capt. Robert R. Townley received plenty of help in pinning on his new insignia at a recent promotion ceremony in the office of the Director of Procurement and Production. Col. E. V. Lau and Mrs. Townley handle the chores while the Assistant Security Officer in Procurement smiles his approval.

Missile School Adds Electronics To Its Curriculum

A new chapter in missile training began at the Army Ordnance Guided Missile School this week with the transfer here of the Guided Missile Basic Electronics Course previously taught at the Signal School at Ft. Monmouth, N. J.

Col. William J. Macpherson, OGMS commandant, hailed the transfer as "a step toward the Army's goal of the all-purpose missile technician — one man who might, for example, maintain the computers of several missile systems."

The first group of students to report for the training here numbered 49, but this total will rise to 250 per month by April, he said.

Significant savings in time and money are expected to result from the transfer, Col. Macpherson said.

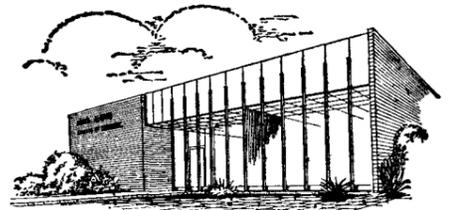
For one thing, men just entering the Army will now come directly to the Missile School after their military training. This eliminates travel to and from Ft. Monmouth and cuts the number of days of leave allowed on a permanent change of station, it was pointed out.

Secondly, the basic guided missile electronics course is being consolidated with the "common block" system recently adopted to give OGMS students a general knowledge of the entire missile field before they begin to specialize in a particular system. This is expected to cut several days from the overall course of instruction.

The transfer of the course was made under the recent reorganization of the Army and was approved by the Continental Army Command because it concentrat-

ed essential elements of missile maintenance training at Redstone Arsenal, the Army's principal center for missile research, development and training. Much of the equipment required for the training was moved here from New Jersey during December.

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SOCIAL ^{and} CLUB EVENTS

Garden Club Meets Again

The Redstone Arsenal Officers Wives Garden Club will resume their normal meeting schedule on Jan. 15.

The group meets at 7:45 p.m. at the Squirrel Hill Officers Club. The program will be presented by Mrs. L. K. Horne on "Propagation of Plants."

The group invites all interested newcomers to participate.

Duckett To Speak At ROA Meeting

Carl Duckett, Director of Missile Intelligence, will be the guest speaker for a dinner meeting of the Huntsville Chapter of the Reserve Officers Association on January 18 at the Redstone Officers Club.

The meeting will open with a social hour at 6:30. ROAL members are invited to attend.

Reservations may be made by contacting Maj. Joe Hinesley, USAR, at 536-8341; Lt. Col. Pete Redding, USAR, at 876-8611; or LCDR Bill Howard, USNR, at 876-2071.

Births at Post Hospital

Frank Hallowell Meader, IV, 7 lbs., 4 ozs., Dec. 28, son of SSgt. and Mrs. Frank Hallowell Meader, III.

William Benjamin Beavers, 8 lbs., 11½ ozs., Jan. 2, son of Capt. and Mrs. Guy M. Beavers.

Barbara Ann Jensen, 8 lbs., 8

CIVIC SYMPHONY TO PLAY CONCERT

The Huntsville Civic Symphony's second concert of the season will be presented on Monday night, Jan. 14, at 8:15 p.m. at the Huntsville High School.

Russell Gerhart, the orchestra's conductor and musical director, will lead the group in a program of works by Brahms and Mendelssohn. Brahms' First Symphony in C minor will open the program, and will be followed by a group of two-piano numbers by the featured soloists.

After intermission, the soloists, Allison Nelson and Harry Neal, will again be heard, this time accompanied by the orchestra, in an unpublished two-piano concerto by Felix Mendelssohn.

The soloists, who in private life are Mr. and Mrs. Harry Neal, met during their studies at the Curtis Conservatory of Music in Philadelphia, and became a two-piano team shortly after. They are among the highest exponents of their particular branch of pianism, and have received high critical acclaim from listeners all over the world. They travel around the country in their own special bus, which contains two Steinway grand pianos. Their children accompany them on their tours.

During the intermission of the concert, patrons will be able to view an exhibition by the members of the Huntsville Photographic Society. Tickets for Monday night's concert will be available at the box-office before the concert. Admission is \$2.00.

ozs., Jan. 2, daughter of Sp5 and Mrs. Erik Jensen.

Ronney Sampson Stewart, 8 lbs., 7 ozs., Jan. 2, son of Sp5 and Mrs. Worney S. Stewart.



RECEIVE INSTRUCTION—Gray Ladies at Redstone Arsenal are briefed Monday by Miss Gwyn Fisher (second from right) from the Birmingham Red Cross Chapter on all phases of Bloodmobile operation. The classes were conducted at the Post Chapel and designed to indoctrinate the Arsenal volunteers in all phases of operation so that each can fill any job. Left to right are: Mrs. Richard D. Lawrence, Mrs. Clinton Florian, Mrs. Foster L. Furphy, Chairman of Volunteers on post, Miss Fisher and Mrs. I. O. Drewry.

French Classes To Be Resumed

The French class, being conducted by the RSA Officers Wives Club, will resume classes at 1 p.m. on January 14, at the Squirrel Hill Officers Club.

New members of the Club who are interested in joining at this time may contact Mrs. R. J. Schofield at 877-5936.

Society Donates Books To Library

The University of Alabama, University Center, was recently presented a selection of books by the North Alabama-Mississippi Chapter of the American Society of Mechanical Engineers.

The presentation, on January 8,

was made by R. M. Hubbard, chairman of the Society's Civil Affairs Committee. Mrs. Carolyn Slayden, Librarian of the Center, accepted the books.

The Society is an organization dedicated to the dissemination of technical information in all fields of mechanical engineering as well as the encouragement of the professional development of individual engineers.

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At the Service Club

By Brenda Hanson

Are you feeling dull and listless due to New Years Parties, fun and hangovers? If so, don't reach for that Holiday Tonic. Instead, why not combat this seasonal malaise by joining the fun to be had at the Service Club. There's music, girls, games, girls, dancing, girls, and one more thing, Yep you guessed it — Girls.

One of the best ways to get rid of these holiday drudges and start a brand new New Year is dancing. In case you are not an accomplished dancer, Wednesday evening at 7, is the time for you to start changing that state of affair

METALS SOCIETY MEETS TOMORROW

The Tennessee Valley Chapter of the American Society for Metals meets tomorrow night at the Crescent Motel in Decatur.

Norman Zlatin of Metcut Research Association, Cincinnati, Ohio, will discuss "Recent Developments in Metal Removal."

Dinner will be preceded by a social hour at 6 p.m. The technical discussion is scheduled at 8 p.m.

by attending the dance instruction class. An experienced instructor will take you through the rudiments of modern dances, and before you know it, all feeling of lethargy will have been dissipated and you will be putting Arthur Murray to shame.

The E. M. Council will meet this afternoon at 2.

TV features take over tomorrow at 6 with a Chess Exhibition on the agenda two hours later. To you people who like to play Chess, I have a challenge for you. The exhibition will feature Ken Williams, the current Huntsville Chess Champion and former Alabama State Champ of 1957. The exhibition will be conducted in a round-table type.

Ken will be in the center of the tables and the contestants around the tables. He is the opponent for all participants. You make your move, he in turn makes his and rotates on to the following contestants. This should be of great interest and challenge to you.

Also, if you are interested in entering the City Tournament which will be held January 14, information may be acquired by calling Raymond Wallace at 539-6295.

Friday, the prescription winds up with Bridge instructions given by Molly Patterson. If you are interested in learning to play

bridge, you have no excuse. These instructions begin at 5:30.

How are you at Playing Hearts? Care to prove your adroitness at playing this game? Or maybe you are one who just likes to watch a fast game. Saturday evening at 8 p.m. is the time for you to make the Service Club your headquarters.

By Saturday almost all vestiges of fever of Holiday should have disappeared, but in the event they haven't, the weekend's activities should prove to be the piece de resistance. Take one part femininity composed of the Jr. Hostesses, augment it with the presence of many young ladies comprising the Huntsville Hostesses, and the sentimental decorations that bear out the theme of Snowfall Serenade. All of this will be dished out to you on Saturday.

Monday night the weekly games start at 8:15 with two Grand Prizes to be given. The Grand Prizes are a Wrist Watch and a Jantzen Sweater. In addition to these, we have a nice array of other selections of prizes.

Tuesday, January 15, is the night designated for the Jr. Hostess meeting of the month. The Jr. Hostesses have recently elected new officers. They were as following: President, Marell Kelly; Vice President, Vera Holder; Secretary, Doreen Miley; and Membership Chairman, Donna Bitens.

MISCELLANEOUS: The recent Table Tennis Tournament was won by PFC Paul Kachin 1st ETC, OGMS. Paul displayed a remarkable array of skill throughout the contest. Congratulations. Brenda

Entertainment Section

PFC ART KALIN

Previous publications have announced that the Entertainment Section is starting the New Year off with a loud bang by sponsoring a Post-Wide Talent Contest.

The rules are simple. Everyone is eligible and any type of act is acceptable, be it singer, dancer, comedian, vocal or instrumental group, or variety act of any kind.

To enter, call Pfc Kalin or Miss Patterson at 876-5492 or 876-4531 and give all necessary information, such as, name, unit, and type of act. If you find it more convenient, stop by the club in per-

son and enter your act.

It is our desire to have at least one act representing each unit on Post, more if possible. Everyone has a chance to win. If any of you have always felt you had talent, well, this is a great opportunity to find out. This should be one of the Big Events of the year, and I hope a lot of you will take advantage of the chance to take part.

A closing note with reference to the Theatre Workshop Group, we need more people to insure it's success. So, if you are interested in the art of acting, be sure to contact Pfc Kalin at the Service Club or call 876-5492.

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CHAPTER HEARS RADAR EXPERT

Dr. Merrill I. Skolnik, manager of Systems Branch at the Research Division of Electronic Communications, Inc., will speak on "Phased Array Antennas" at a meeting of the Huntsville Chapter of the Institute of Electrical and Electronic Engineers tonight at the Officers Club on Squirrel Hill.

A radar systems expert, Dr. Skolnik has been especially concerned with advanced radar systems and concepts. He has taught radar systems engineering at the graduate level and has authored a recent book in this field.

In his speech Dr. Skolnik will trace the history of array, describe its technology, indicate its advantages and limitations, and discuss



DR. M. I. SKOLNIK

some of its applications.

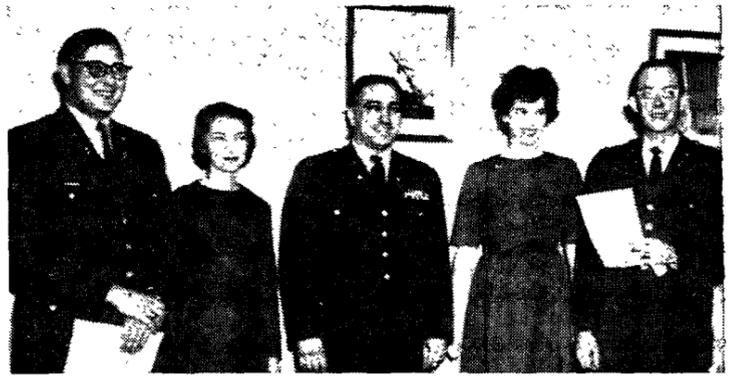
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WEDNESDAY, January 9
"Hell is for Heroes" (M-YP)
THURSDAY-FRIDAY, January 10-11
"The Password is Courage" (F)
SATURDAY, January 12
"The Magnificent Seven" (F)
SUNDAY-MONDAY, January 13-14
"Guns of Darkness" (M-YP)
TUESDAY, January 15
"We'll Bury You!" (F)
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

make up an array such as phase shifters, beam forming networks and antenna elements will be described.

The dinner meeting will get underway at 8 p.m.



NEW CAPTAINS — Col. E. V. Lau, Director of Procurement and Production, presided over a recent promotion ceremony honoring two officers in the Procurement Directorate who were promoted to Captain. Capt. Michael F. Kernan (left) is chief of the Material Section of the Engineering Division, while Capt. Frank C. Norvell, Jr., (right) is the Technical Operations Officer in the Engineering Division. Mrs. Kernan and Mrs. Novell stand beside their husbands.

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No. 836. 4 dr. Galaxie '500'. Has V-8 engine, auto. trans., radio, heater. In excellent condition. \$2,095.</p> <p>1962 CHEVROLET
No. 901. Impala Super Sport Coupe with V-8 engine, auto. trans., radio, heater and fender skirts. 9,700 actual miles. You must see this one!</p> <p>1960 CHEVROLET
No. 714. 4 dr. Impala hardtop with V-8 engine, auto. trans., radio, heater, power steering and nice white finish with red interior. Priced to sell at only \$1,795.</p> <p>1960 RAMBLER
No. 695. 4 dr. Super Station Wagon. Has '6' cyl. engine, str. shift, radio & heater. A real buy. \$1,195.</p> <p>1960 FORD
No. 817. Galaxie 2 dr. with str. shift, radio, and heater. Nice black color. \$1,295.</p> <p>1960 MERCURY
No. 829. 4 dr. Monterey hardtop with radio, heater, auto. trans., power brakes and power steering. Local one owner, like new. ... \$1,495.</p> <p>1960 MGA
No. 813. Convertible. 4 speed trans., radio, and heater. \$1,395.</p> <p>1960 CORVAIR
No. 899-A. 4 dr. with radio, heater and str. shift. Extra nice, one owner car \$1,195.</p> <p>1960 PONTIAC
No. 892. Convertible. Has auto. trans., radio, heater and white sidewall tires. \$1,195.</p> <p>1959 BUICK
No. 885. 2 dr. with V-8 engine, str. shift, heater and white sidewall tires. Local one owner car. \$1,295.</p> | <p>1959 PLYMOUTH
No. 881. Fury Sport Coupe. Has radio, heater, power steering, new V-8 engine, and auto. trans. \$1,095.</p> <p>1959 FORD
No. 718-A. Ranch Wagon with V-8 engine, auto. trans., radio, heater. A real buy. ... \$995.</p> <p>1958 CHEVROLET
No. 678. 4 dr. with radio, heater, auto. trans., power steering and 250 hp V-8 engine. \$895.</p> <p>1958 MERCURY
No. 739. 4 dr. Turnpike Cruiser. Has V-8 engine, auto. trans., radio, heater. You must see this one. \$695.</p> <p>1958 THUNDERBIRD
No. 854. Hardtop Coupe with radio, heater, white sidewall tires, power brakes, power steering and air conditioning. In excellent condition. \$1,695.</p> <p>1958 CHEVROLET
No. 874-A. Impala Convertible. Equipped with V-8 engine, auto. trans., radio and heater. In good shape. \$895.</p> <p>1958 RAMBLER
No. 879-B. 4 dr. DeLuxe with '6' cyl. engine, str. shift, radio, heater. Extra clean. \$750.</p> <p>1957 CHEVROLET
No. 3. 2 dr. with V-8 engine, str. shift with overdrive, radio, heater. Extra clean. \$995.</p> <p>1957 MERCURY
No. 748-A. Voyager Station Wagon with auto. trans., radio, heater, V-8 engine. \$595.</p> <p>1957 CHEVROLET
No. 812. 4 dr. Has str. shift, '6' cyl. engine, radio, heater and white sidewall tires. Extra nice. \$795.</p> <p>1957 CHEVROLET
No. 841-A. 4 dr. hardtop with radio, heater, auto. trans., EZI glass and V8 engine. Just like new. \$995.</p> |
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| <p>1956 CHEVROLET
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No. 7. 2 dr. with auto. trans., radio, heater and white sidewall tires. A real buy. \$395.</p> <p>1954 MERCURY
No. 902. 2 dr. Has V-8 engine, radio, heater and str. shift. Good transportation. \$195</p> <p>1953 CHEVROLET
No. 872. 4 dr. with auto. trans., radio, heater. In good shape. \$295.</p> | <p>1958 CHEVROLET
No. 877. 4 dr. with '6' cyl. engine, str. shift and heater. A real buy. \$695.</p> <p>1957 DODGE
No. 904. 4 dr. Has V-8 engine, auto. trans., radio, and heater. Excellent condition. ... \$695.</p> <p>1957 FORD
195 No. 888. Convertible. Has V-8 engine, straight shift, radio and heater. A real bargain \$695.</p> <p>1957 PLYMOUTH
No. 809-A. 4 dr. Custom Suburban Station Wagon with V-8 engine, auto. trans., radio, heater. In excellent condition \$595.</p> |
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| <p>1961 CORVAIR
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No. 806. 2 ton truck with dump body. 2 speed axle, heater and V8 engine. Ready to go to work. \$995.</p> |
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Sports by Handy

By SFC Robert Handy

Basketball

The Redstone Arsenal All-Star Basketball team will meet their outside competition on the 18th and 19th of January when they play the Gunter Air Force Base from Montgomery. The games will be played at the Post Gym Bldg. 5663 at 7 p.m.

Here is a chance for the spectators to take stock of the 1962-63 All-Stars. This team will represent Redstone at the 3rd U. S. Army Tournament in the latter part of March.

More outside games are planned for the future. Any team or team manager interested in games (to be played at Redstone) with the All-Stars call 876-4065 Sfc WHISE-

Saturn Boosters Bowling

A-DIVISION

Team	Won	Lost
Martin Co.	42	22
Brown Engineering	39	25
Norris Riddle Furn.	36½	27½
Hilding Holmberg	35	29
Tenn. Valley Oxygen	33	31
Redstone Mach. & Tool	31½	32½
Arrowhead Products	30	34
Push-Overs	26	38
Republic Aviation	24	40
Huntsville Trailer Park	23	41
200 GAMES: McKenzie —	245-	
203; Wyatt — 243; Leigh —	234;	
Teal — 224-220; Moser —	220;	
O'Donnell — 214; Drummond —	207;	
Fuqua — 206; Daniels —	203;	
Kozlowicz — 202.		

B-DIVISION

Team	Won	Lost
Redstone Fed.		
Cred. Union	41½	22½
Murphree Mort. Co.	41	23
Lockheed	38	26
Stewart Mach. Co.	37	27
Tri-Lanes	35½	28½
Hayes Top Seven	30½	33½
Progressive Welders	30	34
Modern Mach.	29	35
Hayes Designers	27	37
Hayes Ex-Cons	10½	53½

NANT.

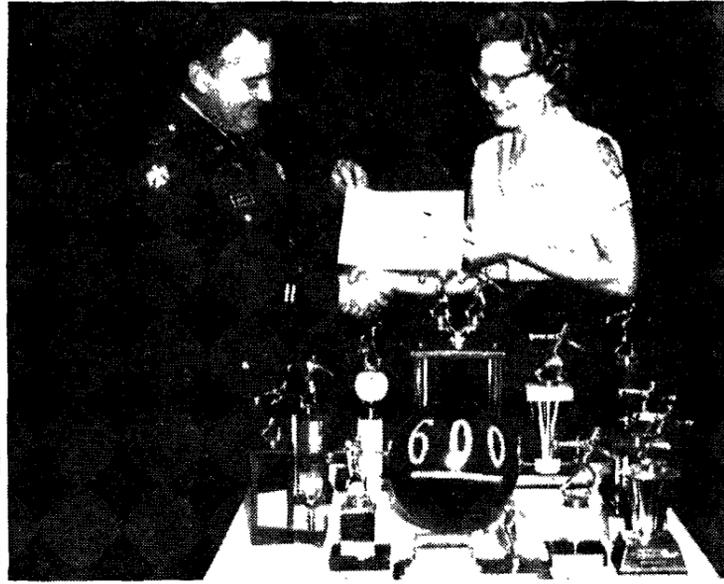
Misc. Information

Another Special Service Activity at no cost to the military and their dependents is in the planning stage for January 28. The U. S. Army Chorus will put on one (1)

performance at the Service Club. The performance will last from 75-90 minutes and is considered one of the best projects that will be furnished the troops, starting 1963 with good entertainment. There will be 44 men in the Chorus, and many various form of acts and good music, and singing will be in store for those who attend. The performance will start at 7 p.m. Come early and get a good seat.

Bowling

The lanes are cracking again with the thunder of league play starting up again at the Redstone



HONOR ROLL BOWLER — Mrs. June Handy, a nurse at the Post Hospital, accepts the Special Services Certificate of Award from Capt. Paul Boyer, Special Services Officer, in recognition of a 600 set that she rolled during December. The nurse put together games of 221, 201 and 178 in becoming the first woman bowler to hit Honor Roll status since the RSA Lanes were opened in 1958.

Specialists Talk On Fluid Control

Two fluid control specialists from the Directorate of Research and Development recently explain-

Bowling Lanes. Many families have taken advantage of the open bowling over the Holidays.

With the Women's City Tournament to be held at the Plamor Lanes in January and the Men's City Tournament in February at the Plamor, many will be taking advantage of the open bowling at Redstone.

The lanes were refinished over the Holidays and are in good shape for the high games to be bowled.

ed the latest developments in their field to a meeting of the Flight Controls Committee in Miami. The Committee consists of experts in the field from all over the nation.

William A. Griffith, chief of the Guidance and Control Laboratory's Control Systems Branch, explained how the mission of the Army Missile Command fits in with national research on flight control.

Thomas G. Wetheral, chief of the Laboratory's Control Survey Section, told the group about the latest developments on fluid control made in the Laboratory.

Ultimate objective of the fluid control scientists is to achieve a system of missile guidance that has no moving parts, eliminating a likely cause of missile malfunction.

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EXPERIENCE



SOLDIER-ENGINEER—Specialist Fourth Class William J. Ketchum, Riverside, Calif., is shown evaluating telemetry data from two recent test missile firings. Ketchum is a test engineer in the Test Management Branch of the Test and Evaluation Laboratory. The young soldier is serving in the Army's Scientific and Engineering Program.

did graduate work at the University of Colorado. Ketchum's pre-service experience as a test engineer includes three and one-half years with Astronautics Division of General Dynamics in San Diego, Calif.

He has extensive experience in the field of fluid dynamics in liquid propellant rocket propulsion systems. While at General Dynamics, Ketchum worked on the Atlas ICBM.

Ketchum, in discussing the success of the two shots, said the vehicles' accelerations came within five per cent of the calculated value and achieved 90 per cent of the propellant burning time. He emphasized that for test purposes a burning time of 40-50 per cent was all that was required to provide sufficient flight telemetry data.

He said propellants are tested on the Redstone ranges to determine their characteristics. As a test engineer, Ketchum established requirements and scheduled the test. Test motors undergo environmental conditioning preceding the test, he stated, adding that the test engineer has special instrumentation and equipment built when there are special requirements for a particular test.

After a test, either static or range firing, Ketchum gathers the information for a quick evaluation by laboratory scientists. As test engineer, he writes a firing result report within 48 hours and compiles a complete report when all the results have been evaluated.

Ketchum is presently test engineer for full scale tests of Zeus propulsion units.

WRITERS TO MEET

The Society of Technical Writers and Publishers will hear Neil McCarthy of TAAG Designs tomorrow night at the meeting scheduled for 7 p.m. at the Elks Club on Franklin Street.

McCarthy is from College Park, Md. His subject will be "A Spire of Meaning; Proportion in Accent in Writing and Graphics."

Young Soldier Directs Missile Test Projects

A young soldier-engineer at the Army Missile Command has headed two successful test-missile projects from concept stages through flight tests during a 15-month military career.

Specialist Fourth Class William J. Ketchum, Riverside, Calif., is one of the few soldiers stationed at Redstone who have directed the design, fabrication and flight testing of a test vehicle.

Ketchum said the test flights were made to study the effects high accelerations have on solid propellant design.

The test engineer said person-

nel of the Test Management Branch of the Test and Evaluation Laboratory of the Directorate of Research and Development, were given an outline of the requirements for testing the new solid propellants and developed the test vehicles solely for these tests.

Ketchum and other laboratory personnel designed the fins, telemetry requirements, destruct mechanism and the launcher for the six-foot missiles.

The 26-year-old soldier holds a bachelor of science degree in aeronautical engineering from Northrop Institute of Technology and

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Troop Information Topics Televised

Closed circuit television is giving new impact to the Troop Information program at the Army Ordnance Guided Missile School, according to a report on recent activities.

More than 2,000 students and members of the OGMS staff and faculty witnessed showings of a special program on holiday safety just prior to the Yule vacation.

The 45-minute program was produced and recorded on video tape by Capt. Kenneth L. Shave, Lt. Glenn A. Giere and the staff of the OGMS television branch, with the assistance of Huntsville Chief of Police Chris Spurlock, Army Missile Support Command Safety Director Dillard K. Womack and OGMS Safety Officer Paul Hodson. Four OGMS auditoriums were used to show the program simultaneously to all military and civilian personnel during duty hours.

A second troop topic, dealing with such offenses as theft of Government property, false claims and abuse of working privileges, will be viewed next week at the Missile School. This presentation was prepared with cooperation of Lt. Col. George C. Eblen, Judge Advocate of the Army Missile Command, and U. S. District Attorney Macon Weaver. Both men appear on the program which is highlighted by reenactments of recent offenses against Civil Service regulations and the code of military conduct.

Some 4,000 officers, warrant officers and enlisted men of the Army Missile Command, Army Missile Support Agency and the Missile School are expected to view a third televised program during the last week of January.

Use of the Rocket Auditorium, Post Theater, Service Club and OGMS auditoriums is planned to present an explanation of the new Department of Army, Article 15 which widens the authority of troop commanders to administer nonjudicial punishment.

Lt. Col. Eblen, Capt. Ivan Poe and other members of the JAG staff and the OGMS television branch will again collaborate to produce this program. Attendance is mandatory for all military personnel, with a cut-off date of Feb. 1.

Another Troop topic is also under preparation. It is entitled "How to Buy and Pay for an Automobile" and is being produced by the Missile School video staff in cooperation with the Automobile Dealers Association of Ala-

AFGE Honors Civil Service Milestone

Several guest speakers representing the Army Missile Command will headline the anniversary meeting of the Redstone Lodge No. 1858 of the American Federation of Government Employees at the Carpenter's Hall next Monday evening.

The regular lodge meeting,

bama. It is scheduled for February viewing, and special showings are to be arranged for foreign students at OGMS.

starting at 7 p.m., has been planned as an observance of the 80th anniversary of the Civil Service Act of 1883. The week of January 14 has been proclaimed Civil Service Week by President Kennedy.

Dennis Garrison, president of the local lodge, urged all members to attend this important meeting and join in the observance of the memorable occasion.

Ratio of Federal to total employment in the country has been constant over the past 6 years — 36 per thousand in both 1956 and 1962, with only small fluctuations in intervening years.



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Page 14 The Redstone Rocket — January 9, 1963

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OLD COINS — I buy old coins—old gold coins; Indian head pennies, complete sets; Canadian coins. Darrell Sanders, Grand News Stand, Clinton Ave., downtown Huntsville. tfc

FOR SALE — 1961 Mercedes 220-S sedan, black, excellent condition, AM-FM radio, 20,000 miles, priced below wholesale, phone 877-4167. 1tc

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We have several G. I. Equities that you can buy and assume low interest rate mortgage payments ranging from \$57.00 to \$108.00. 1 and 2 baths, some have built-in kitchens.
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FURNISHED — Modern 2 bedroom house. Also housekeeping units and motel rooms. Fishing pier and dock. Apply Nolan Motel, Guntersville. 582-3178. 2-20c

PIANO INSTRUCTION — Register now for after Christmas Holidays. We will have a few openings in Lakewood, Blossomwood, Thornton Acres, Darwin Downs, and Bankhead Estates. For more information call Mrs. John Dudley. Phone 536-8444. tfc

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FOR SALE — One horse buggy. Ideal for restoring, or use for display as flower bed. Phone 773-6032 Hartselle, Ala. tfc

FOR SALE: 1960 Super 88 Oldsmobile, 2 door hardtop, power brakes, steering. Like new. Phone 539-3611 after 5 o'clock 881-1858. 1-9c

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RUSSELL WELDING CO.
IS NOW IN THEIR NEW LOCATION:
3404 BLUE SPRING ROAD
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— ALL TYPES OF WELDING —

FOR RENT — Troy Suasey, 5 room unfurnished duplex apartment, available Nov. 1, \$85.00 per mo. Jere Evans Real Estate and Insurance, phone 534-9821. 1tc

FOR SALE — Winchester Carbine, model 94, calibre 2535, only fired approximately 40 rounds, excellent condition, \$60.00, phone 876-8850 or 877-4767. 1tc

FOR SALE: 1958 Opel, 2 door, radio & heater, new tires, excellent condition. Telephone: Day 876-9765; Night, 232-3653 (Athens). 1tp

FOR SALE — 1959 Westwood mobile home, complete with washer, dryer, storm windows, call 539-7281 or 877-2771, ask for Sgt. Muncy. 1tc

FOR SALE — Karmann Ghia convertible, excellent condition. 1959 model, bargain at \$1250. Phone 881-3227. 1tp

MIRROW LAKE — Guntersville Lake, Honey Comb Creek section of Mirrow Lake. 3 bedroom, one-half basement, Boat house, 2 lots, \$10,500.00. VA, conventional financing. Ed Neely Realtor. 723 Broad Street, Guntersville, Alabama. 582-3914. 2-6c

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TOP TALENT — A career center service. Our girls are paid each Thursday. NEEDED good shorthand, secretaries, good dictaphone secretary, IBM executive typist, statistical typist to work on our payroll for leading companies in Huntsville and vicinity for assignments for any length of time you wish. No fee to pay. 614 Madison St., phone 539-3451, after hours, 536-1096. tfc

BAND INSTRUMENTS — Rental Returns. Clarinets, Cornets, Trumpets, Trombones, Saxophones, Flutes, etc. Prices range from \$29 to \$79 or higher. All instruments guaranteed. Cash or Terms. Phone 536-9933, 9 a.m. to 9 p.m. tfc

ON THE LAKE, LESS THAN 20 MILES FROM ARSENAL GATE — Boat storage for rent. Rooms with bath for rent. Contact W&W Land Co., 106 N. Lincoln, Phone 534-1451 or 536-3113. tfc

GUNTERSVILLE LAKE WATERFRONT LOTS FOR SALE — Lakefront business property for lease. W&W Land Co., 106 N. Lincoln, phone 534-1451 or 536-3113. tfc

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CASH! FOR YOUR CAR — we need all makes and models. We will pay you more. We buy and sell imports, too. Texas Auto Sales. phone 536-6121. tfc

FOR SALE — New nice 3 bedroom house, 1½ ceramic tile baths, completely air conditioned, access lot to lake. Minimum FHA down payments, in one of Guntersville's nicest sections. Price \$16,250.00. Will build homes in Arab and Guntersville and finance up to 97% FHA and 100% G.I. Cornelius Real Estate & Insurance Co. Marshall County's leading mortgage broker. 521 N. Broad Street, Guntersville, Ala. Phone JU 2-3027. tfc

FOR SALE BY OWNER — Two spacious family homes in Decatur, walk to public and parochial schools. At 651 Sherman St., four bedrooms, three baths, gas furnace, radiator heat, carpeted. At 633 Jackson St., four bedrooms, three baths, central air conditioning, new gas furnace, radiator heat. Phone EL 5-0405, Decatur. tfc

FOR SALE — Antique rocking chair, large picture frame, 2 swords, old flat irons, wardrobe, 1 banjo, large brass chandelier, 1 fiddle, and 2 old "booze" jugs. Buescher Alto Sax, Alladin lamp. Phone SP 3-6032, Hartselle. tffc

FOR RENT — 3 room furnished apartment, private front and back entrance, air conditioned, natural gas heat, both bath and shower, off street parking, married couple only, \$75.00 per mo. Phone 534-5127 or 534-4551. tfc

GLEN PARK APARTMENTS
Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.
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1960 Ford Fairlane "500" 4 dr., V8, auto., radio, heater, nice clean car. \$1395.00	1958 Chevrolet 6 cyl., 4 dr., a real good car. \$795.00
1960 Chevrolet 4-Dr. 6 cyl., str. shift, local car. \$1295.00	1957 Fords (5 to choose from) All body styles \$595.; \$695.; \$795.
1959 Chevrolet Convertible Solid white. \$1295.00	1956 Cadillac Gold & white 62 Cpe. Premium white tires, double power, local car. A nice one. \$795.00
1958 Buick 4-Dr. Super Riviera. Double power, one owner. Really a beautiful car you would be proud to own this one. \$1395.00	1956 Chevrolet A real good little car. \$595.00
1958 Plymouth 4-Dr. V8, stick, radio, heater. New tires. \$875.	1955 Models Chevrolets, Fords, Pontiacs, Buicks. \$395.00 to \$495.00

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FOR SALE — 1960 Great Lakes Mobile home, 10x46, 2 bedrooms, air conditioner, automatic washer, storm windows, awning. Excellent condition, \$3195. Call 539-6212. 1tp

COMPACT — Vacuum Cleaner and Polisher — See the cleaner that revolutionized the industry, featherweight. Get the most cleaning power available. As new and modern as our space age. Shown by appointment only. For free home demonstration. Call 539-8913. tfc

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AKC BLACK MINIATURE — Schnauzers for sale. Phone 536-1824. 1tp

FOR RENT — Rooms for gentlemen, lavatory in room. 3 blocks from downtown. Phone 534-9817. 1tp

FOR SALE — Nice three (3) bedroom brick home, ceramic bath, in good location in Arab, Alabama. 1-9c

MODERN HEALTH Club Services — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy sun lamp, swimming pool. Graduate masseur in charge. Phone 534-2444. tfc

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CENTER ASSURES THE LATEST DATA

A new buying technique at the Redstone Scientific Information Center makes the latest editions of technical books and journals available to scientists about two months earlier than previously possible.

The technique, called "pre-publication shipment," is simply a standing order with major publishing companies to send a copy of each book published in certain fields. The Information Center's Technical Library evaluates the book, and may either keep it or send it back to the publisher with no charge.

Books mailed to the Technical Library are taken from the first printing. Through normal ordering procedures, the volumes would

not be available for an additional eight weeks.

Although the publisher may send books in any technical field, the library concentrates on subjects related to the missile and space fields.

Objective of the pre-publication program is to have technical information available when it is first needed. A two-month lead time in having latest data can be invaluable in development of a missile or space program, pointed out F. E. Croxton, Director of the Center.

Croxton hopes to have three-out-of-four English-language volumes available when the customer first inquires about a particular book.

The Center was recently organized to serve both the Army Missile Command and the Marshall Space Flight Center. The Information Center is administratively assigned to the Army Missile Command's Directorate of Research and Development, with an eight-man advisory board selected from the two activities.



TOPS IN THE FINANCE OFFICE—The Finance and Accounting Man of the Year for 1962 is Raymond Butler, shown receiving a plaque from Col. D. A. Marcelle, F&A Officer. Butler was named by a committee headed by Capt. O. E. Goeben, Deputy F&A Officer. Mrs. Mildred Beck was chosen first runnerup and Mrs. Lorene Hyatt was second runnerup. Shown L to R are: Mrs. Hyatt; Mrs. Beck; Butler; Colonel Marcelle; and Mrs. Minerva Warren, Personnel Representative.

Elements Of Good Utilization Cited

Federal agencies need to get more done and done better, in less time, with fewer man-hours, Civil Service Commissioner Frederick J. Lawton declared recently.

In a talk before the CSC's Middle Management Institute in Philadelphia he cited the following as elements in good utilization of personnel.

1. Hire on the basis of long-range program needs, but don't stockpile personnel against some vague future possibility.
2. Place employes with a capacity for growth in places where there is opportunity to grow.
3. Assure equality of opportunity, so that no ability, present or potential, is wasted.
4. Use training to enable employes to perfect their skills, to keep abreast of changes in their fields of work, and to move upward in keeping with their abilities.
5. Provide maximum motivation and incentive for men and women to use all of their spirit, energy, and enthusiasm.

Post Library

By Jean L. Hoffman

Humorous books at the Post Library include:

Credos and Curios, James Thurber.

Kids Sure Rite Funny, Art Linkletter.

O Ye Jigs and Juleps, Virginia Hudson.

What Every Young Man Should Know, Esquire.

Non-fiction Titles newly acquired:

America and Russia, American Heritage.

Secrets of Successful Retirement, Zimmerman.

Counter-Guerrilla Operations, Valeriano.

The Quality of Murder, Mystery Writers.

The Space Race, Cox.

Be Active and Feel Better, Laird.

Telstar, Solomon.

Posers, Kaplan.

Rice and Salt, John McGee.

On Growing Up, Herbert Hoover.

Phil Hill: Yankee Champion, William Nolan.

McClelland, Sherman and Grant, T. Harry Williams.

New Fiction Titles are:

Harm's Way, James Bassett

Against the Evidence, Lesley Egan

America, America, Elia Kazan.

The Sand Pebbles, Richard McKenna.

The Cape Cod Lighter, John O'Harra.

Night of Shadows, Frances Lockridge

Like Love, Ed McBain

Federal agencies appointed in 1962 nearly 300 management interns for training in different aspects of their operations. The Management Intern Examination is an extension of the popular Federal Service Entrance Examination for college-caliber people.

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