

Arsenal-Wide

Spot News

Dial 112

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 9, 1966



SHILLELAGH DELIVERY—Brig. Gen. Clarence C. Harvey (left), Deputy Commanding General for Air Defense Systems, Army Missile Command, receives delivery of the first production-line guidance and control equipment for the Army's Shillelagh guided missile system. Making the presentation is John B. Lawson, General Manager of Aeronutronic Corporation, Shillelagh prime contractor. The ceremony took place at Lawndale, Calif., Army Missile Plant last week before 500 plant employees. The Shillelagh program is managed by the Missile Command under Lt. Col. Spencer R. Baen, Project Manager.

Col. Edward M. Dooley Named SAM-D Manager

A veteran Army Ordnance Corps Officer, Col. Edward M. Dooley, has been assigned to the Army Missile Command as project manager of the SAM-D air defense system now under development.

He replaces Col. Bernard R. Luczak, who is being transferred to the Headquarters of the Army Ammunition Procurement and Supply Agency in Joliet, Ill. Col. Luczak recently was nominated for the rank of Brigadier General.

SAM-D (Surface-to-Air Missile—Development) is a missile system concept to be fielded in the 1970's as a replacement for the Hawk and Hercules missiles.

Col Dooley was with the Nike-X Project in Washington, D. C., before coming to Redstone this time. He has been involved in management of the Nike Zeus/Nike-X program since its beginning in 1957. He organized the Anti-Missile Office at the old Army Ordnance (See COL. DOOLEY on Page 3)



COL. EDWARD M. DOOLEY

Helicopter Armament Men Meet At Missile Command

A new breed of missilemen, those who develop and manage weapons systems for Army helicopters, will begin a two-day meeting Thursday at the U.S. Army Missile Command.

Col. Nelson A. Lindstrand of the Army Materiel Command, Project Manager for all Aircraft Weapons, heads visiting dignitaries for this third annual meeting. Other agencies represented will include the Weapons Command, Aviation Command, Ballistic Research Labs, Combat Developments Command, and the Army Missile Command.

Col. Cryil D. Sterner, Land Combat Commodity Manager and his Deputy, William C. Rotenberry, direct the Aircraft Weapons program at the Missile Command which is hosting the meeting for the first time.

Discussions will include a com-

prehensive review of all aircraft weapons programs and will feature an exchange of technical and management information, the Army said.

The Missile Command's Research and Development Directorate has conducted extensive research in helicopter armament systems. Among systems developed "in-house" are the XM-3, M-22, XM-158 and the XM-26.

The XM-3 is a rocket-pod container system which holds and fires 48 of the 2.75-inch rockets; the XM-158 is a seven-tube, reusable lightweight launcher for the 2.75 rockets; the M-22 is a wire-guided, missile system for use against hard-point targets and the XM-26 is an airborne version of TOW, for use against tanks and other hard-point surface targets.

Army Receives First Units From Shillelagh Contractor

Delivery of the first production line hardware for the Shillelagh anti-tank guided missile system was made to the Army last week at

the Lawndale, Calif., Army Missile Plant.

Accepting the hardware and representing the U.S. Army Missile Command was Brig. Gen. Clarence C. Harvey, Jr., Deputy Commanding General for Air Defense Systems.

In a ceremony before 500 plant employees, Gen. Harvey was presented a Shillelagh guidance and control set by John B. Lawson, General Manager of Aeronutronic Corporation, Shillelagh prime contractor.

Shillelagh is a gun-launched guided missile system being developed for Army armored vehicles. The program is managed by the Army Missile Command under Lt. Col. Spencer R. Baen, Project Manager.

The guidance and control equipment is the vehicle mounted part of the system. It permits a tank gunner to guide the missile unerringly to the target.

Congratulating the missile workers on the delivery, Gen. Harvey emphasized the importance of their work to the Army.

"The missiles you produce here, (See SHILLELAGH on Page 3)



LOST IN SPACE—Pvt. Gerald G. Williams feels as lonely as a space pioneer as he waits for the second soldier to report to the newly organized 6th Enlisted Training Company of the U. S. Army Missile & Munitions Center & School, at Redstone Arsenal, Alabama. Pvt. Williams of Painsville, Ohio, is the first and doesn't relish the prospects of spending a night in the large, empty bunked barracks. His new Commanding officer is Capt. Richard Hobbie III, of Montgomery, Ala., and first sergeant of the new 350 man unit is 1/Sgt. George A. Davis, of Richeyville, Pa.

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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-135, Extension 376-1400 or 376-1500.

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Rocket Ruminations

Here's the secret of the riddle for successes everywhere—There's some little second fiddle that is carrying the air.

—Douglas Malloch

The Champion

Saturday will mark the 157th anniversary of a squaling Kentucky wilderness manchild who grew up to become the 16th President of the United States: Abraham Lincoln.



John Wilkes Booth, an actor shot Lincoln at the Ford Theatre. Lincoln died the next day, but his name has lived on as a symbol of integrity and champion of the downtrodden.

Lincoln's early career was checkered. The 1965 Almanac says that he and a cousin split 3,000 wooden rails; mentions his military career in the Blackhawk war; and his early defeats when running for office.

Nothing daunted him. Following his debates with Stephen A. Douglas, who defeated him at the polls the first time, he went into the ring to win on the second round.

He stood his ground on the abolition of slavery and stood firm as the Commander in Chief during the Civil War. After the war



JAG TAX TIPS

This is the third of an Army News Feature series prepared by First Lt. Paul Little, Chief, Personal Tax Branch, Legal Assistance Division, Office of The Judge Advocate General.

The designation of Vietnam as a combat zone effective January 1, 1964, triggers several tax relief provisions, in addition to those discussed in last week's Tax Tips.

The due dates for filing returns and declaration of estimated taxes, or the payment of any tax or estimated tax, are automatically postponed without any interest or penalty while a member of the Armed Forces serves in a combat zone. This provision also applies if the serviceman is continuously hospitalized outside the United States as a result of injury received while serving in a combat zone. The postponement remains in effect for 180 days following the member's return to the United States or transfer from the combat zone.

Advising District Director

When the serviceman does file his return, he should attach a statement which will indicate to the District Director the date on which combat zone service or hospitalization outside the United States ended. Moreover, the Internal Revenue Service should be advised promptly of the taxpayers combat zone status if any attempt is made to require the filing of a return or payment of tax prior to the expiration of the combat zone postponement.

Liberal federal income and estate tax relief is provided beneficiaries of service personnel who died or die either while serving in Vietnam or as a result of wounds, disease or injury incurred in Vietnam after January 1, 1964.

State Income Tax Relief

In addition to the federal tax benefits resulting from the executive order, State income tax obligations may be reduced in many instances by service in Vietnam on or after January 1, 1964. Among the States already giving tax breaks to servicemen in Vietnam are Alabama, Georgia, Indiana, Iowa, Kentucky, Montana, New Mexico, New York, North Carolina, South Carolina, Vermont, West Virginia, and Wisconsin. Personnel desiring to know to what extent, if any, their state exempts pay for service in Vietnam should write to tax authorities in their home state for complete information.

Servicemen having questions regarding the application of the combat zone tax relief provisions should consult their legal assistance officer. (ANF)



FOR MERITORIOUS SERVICE—Harry Fleming Vincent (right), Project Director of the Research and Development Directorate at the U. S. Army Missile Command, proudly wears the Meritorious Civilian Service Award medal. It was presented to him for outstanding contributions to the Army missile program from 1951 through 1965. Looking on are Maj. Gen. John G. Zierdt, Commanding General, Missile Command, who made the presentation; and Mrs. Vincent.

Calhoun To Offer Night Courses

Night classes will be taught at the John C. Calhoun Junior College beginning with the Spring quarter, according to Dr. Carlton Kelley, president.

The number of night courses will be limited, Dr. Kelley said, "but we'll probably teach English, history, and a course in mathematics."

More night classes including some sophomore courses will be taught in the summer. "We expect some student from other colleges to enroll in our institution at night during the summer," he stated.

Dr. Kelley said 320 applications for enrollment have already been received. He urged persons planning to attend the college, if they haven't already filed an application, to contact the school as soon as possible.

He explained that the reason for the night classes is to meet the needs of the people in this area. "One phase of a community college is adult education," he commented. "We'll add some night classes along by employing qualified people to teach them," the president stated.

The new college buildings are to be finished by the summer quarter at which time the college facilities will be moved from the Technical School where classes have been held in improvised areas.

Hervig Achieves 'First'

Don I. Hervig, Chief of the Army Missile Command's Metrology Center, has achieved a "first" in a new Army management training program.

The U. S. Army Management Engineering Training Agency and the University of Iowa last year jointly established a correspondence course on "Management, Principles and Practice".

Hervig enrolled for the course through sponsorship of the Training and Development Division, Civilian Personnel Office, U. S. Army Missile Support Command.

He has been notified by the College of Business Administration of the University of Iowa that he is the first to complete the course, gaining graduate credits.

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INSPECTOR GENERAL VISITS—Department of the Army inspection teams headed by the Inspector General of the Army are conducting a survey at the Army Missile Command and Nike-X Project Office. Shown here talking with Maj. Gen. James A. Richardson III, the Inspector General, third from left, are: Lt. Col. Robert Pearce,

Director of the Missile Command's Research and Development Directorate; Col. I. O. Drewry, Nike-X Project Manager; and John L. McDaniel, Technical Director of the R&D Directorate. Gen. Richardson's headquarters are in Washington.

TV, Motion Picture Group To Hold Meeting Feb. 15

The Huntsville Section of the Society of Motion Picture and Television Engineers will meet February 15, to hear a presentation entitled "Use of Coherent Light (Laser) in Photographic Applications".

The guest speaker will be Dr. Brian J. Thompson, who is Manager of the Physical Optics Department, Technical Operations Research, Burlington, Mass.

The meeting will be held at the Redstone Officers Open Mess, in the Hawk Room at 6:30 p.m. Members and interested parties are invited to attend.

Dr. Rutledge To Lecture

Dr. Ronald M. Rutledge will lecture on "united atom expansion" Thursday morning at 10 a.m. in the University of Alabama Research Institute Lecture Room off Sparkman Drive.

The Doctor received his PhD from the University of Tennessee in 1964 in theoretical chemistry. He is presently employed by the Atomic Energy Commission as a Postdoctoral Fellow in the Metals and Ceramics Division of the Oak Ridge National Laboratories.

SHILLELAGH

(Continued From Page 1)

if ever they are needed in combat, will be one of our great equalizers against enemy armor," he said.

"I can appreciate all the problems you faced in getting the plant ready for production and I have the highest regard for the obvious 'can-do' approach you have demonstrated in meeting the chal-

lenges."

Col. Baen joined with Gen. Harvey in the ceremony and expressed his pleasure in receiving the first hardware delivery.

"I extend to each of you a well-done and I am delighted with the progress we are making in the Shillelagh program," the Project Manager said.

At the Lawndale Plant, Aeronutronic manufactures both guidance and control equipment and missiles. Major sub-assemblies then

are shipped to the Iowa Army Ammunition Plant at Burlington for final assembly, including the arming of the missile.

The Shillelagh system is planned as the main armament for the General Sheridan armored reconnaissance airborne assault vehicle, the M-60 current main battle tank and the United States-Federal Republic of Germany Main Battle Tank for the 1970s.

COL. DOOLEY

(Continued From Page 1)

Missile Command at Redstone in 1958 and was its chief until 1960.

After attending the Army War College, Col. Dooley served as Deputy Chief and, later Chief of the Pacific Field Office, predecessor of the Nike-X Kwajalein Test Site in the Marshall Islands. During World War II, he served in Europe. Other duty stations include Springfield Armory, Mass., and Austria.

He is a graduate of the University of Cincinnati with a degree in Mechanical Engineering. He also holds a master of science degree from Massachusetts Institute of Technology, where his son is an engineering student.

Col. Dooley is married to the former Miss Martha Petry.

Feb. 24, 1949 — The U. S. Army was the first to penetrate outer space. A composite 2-stage rocket fired Feb. 24, 1949 at White Sands Missile Range, New Mexico, reached an altitude of 259 miles, a record not equalled for eight years.

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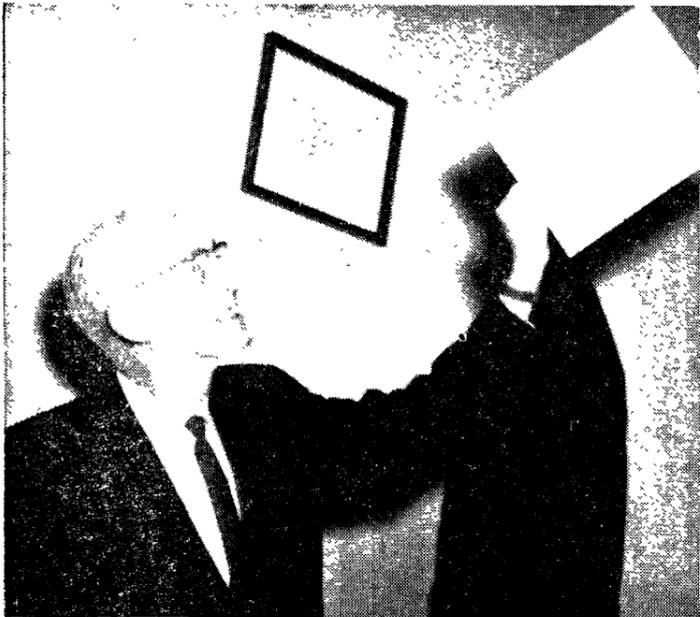
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WORTH \$500—If B. C. Droke looks pleased as punch, he is. The certificate he is waving brought him \$500 recently at the Army Missile Command. Droke, who works in the Quality and Reliability Management Office, got the money for suggesting a better way to do a job. (see story).

Droke Saves Solder Wins \$500 For Self

Talk may be cheap, but ideas are worth money.

B. C. Droke, an employee at the Army Missile Command, has \$500 to prove it.

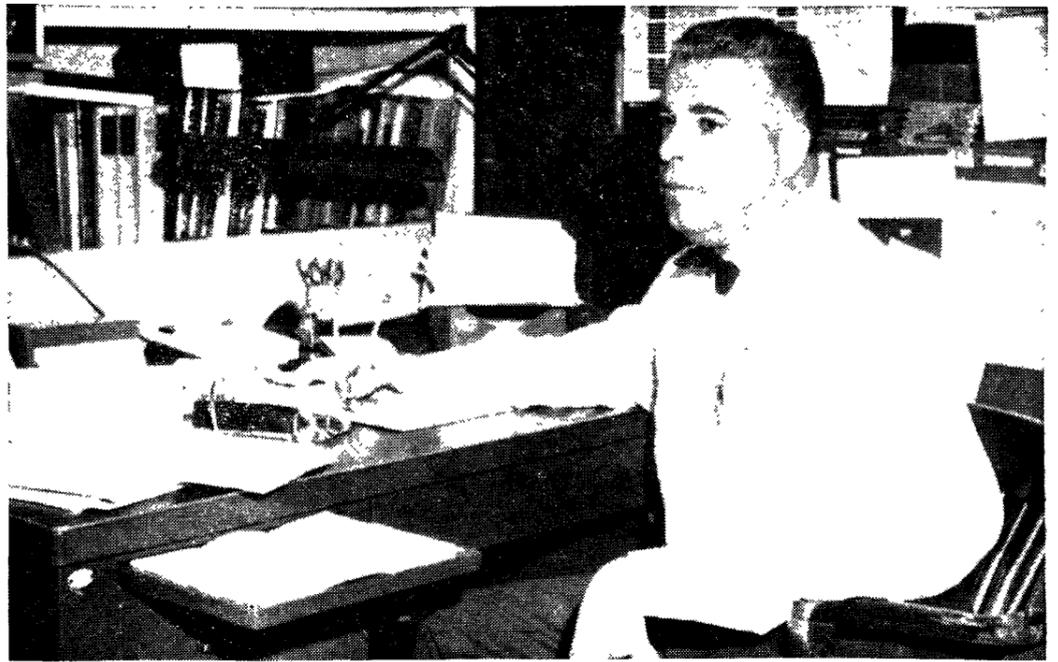
Droke, who works in the Quality and Reliability Management Office, got the \$500 last week for suggesting a better way to do a job. The job dealt with Pershing missile system contractors who used soft-soldering electrical connections.

Prior to Droke's suggestion, contractors had two categories of soldering—approved and non-approved; there was no in between. But

Droke discovered that many solder joints were just as reliable in getting the job done, even though they didn't look as good as the preferred specifications.

So he suggested a minimal acceptance specification—an acceptable solder joint but not quite as perfect in appearance as the preferred job. The suggestion resulted in a supplementary quality assurance provision which eliminated much of the costly re-working of solder joints.

Sound simple? It was. But the suggestion saved the government more than \$10,000 the first year and Droke pocketed \$500 as a reward.



DR. CHARLES B. COLBURN—To lecture in the United Kingdom.

Dr. Colburn To Lecture At Universities In UK

Dr. Charles Colburn, Head of the Physical Chemistry Group at the Rohm and Haas Company's Redstone Research Laboratories, is presenting a series of lectures at nine English universities. He is one of two Americans invited to give the Centenary Lectures to the Chemical Society, the British counterpart of the American

Chemical Society. The other chemist invited was Dr. J. D. Roberts, head of the Chemistry Department at the California Institute of Technology.

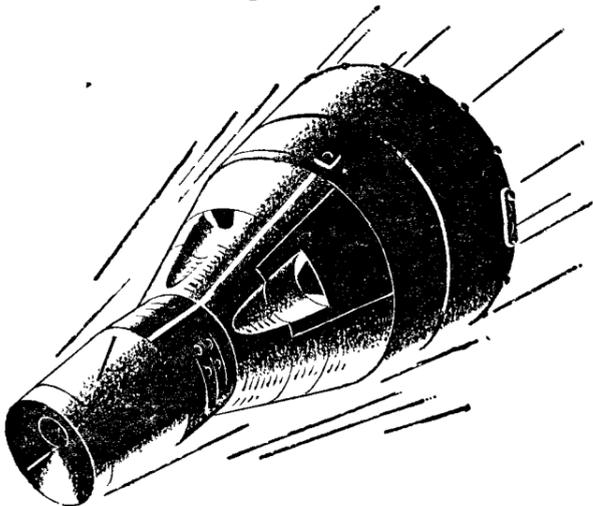
The Centenary Lectures are given over a period of two weeks at the Universities of Strathclyde, Manchester, Leeds, Nottingham, Birmingham, Cambridge, London,

Southampton, and Bristol.

Dr. Colburn joined the Redstone Research Laboratories in 1952 after receiving his PhD in Physical Chemistry from the University of Utah. He has published a number of important papers on technical journals and has given numerous invited lectures and papers at major universities, national and international chemical meetings. In addition he holds several positions in scientific organizations, including the Chemical Society and the American Chemical Society.

Feb. 21, 1924—First term of Army Industrial College opened.

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Nike-X Hires Retired ICBM; Saves \$10.5 M

The Army has found a way to put retired Air Force ICBMs to use and save \$10,500,000 in the process.

Twelve Atlas D missiles have been acquired by the Army's Nike-X missile defense project. They will be used as boosters for Nike-X targets.

The Nike-X system is being developed as a defense against ballistic missile attack. As part of this development program it is necessary to launch intercontinental ballistic missiles carrying target re-entry vehicles which can be observed by radars and other instruments at the Nike-X test site on Kwajalein Island.

Bought new these ICBMs cost more than a million dollars a piece. And, for obvious reasons, there's no such thing as a second hand missile market.

Recently, however, the Air Force began removing its Atlas ICBMs from the ranks and retiring them. They were replaced with newer and more powerful Titan and Minuteman ICBMs.

The Nike-X Project Office at Redstone Arsenal, Ala., bid on 27 of these Atlases. They ended up with 12 and the others were parceled out among various research projects which also needed ICBMs.

To modify the 12 missiles for Nike-X use cost about \$2,500,000. The cost of 12 new missiles, however, would have been more than \$13,000,000.

Since the Nike-X Project already had justified \$13,000,000 in its budget to provide new ICBMs, it was able to claim this savings and, in turn, apply it to other high priority development areas in the system.

The Atlas D's which the Nike-X Project bought are the same type Atlas which was used to boost Astronaut John Glenn into orbit.

However, to re-fit them, several changes had to be made. New re-entry vehicles (noses) are being installed to simulate various type of warheads the Nike-X system might have to engage in case of an attack.

Col. I. O. Drewry, the Nike-X Project Manager, says the Air Force at Vandenberg Air Force Base will handle the modifications and launching of these missiles or Nike-X.

According to C. E. Richardson, Chief Engineer, and John Morrow, Chief of the Target Branch, the 12 ICBMs will be used to study missile re-entry phenomena. Launched at Vandenberg AFB, they will be flown some 5,000 miles downrange to the Nike-X Kwajalein Test Site.

The Kwajalein Test Site, located

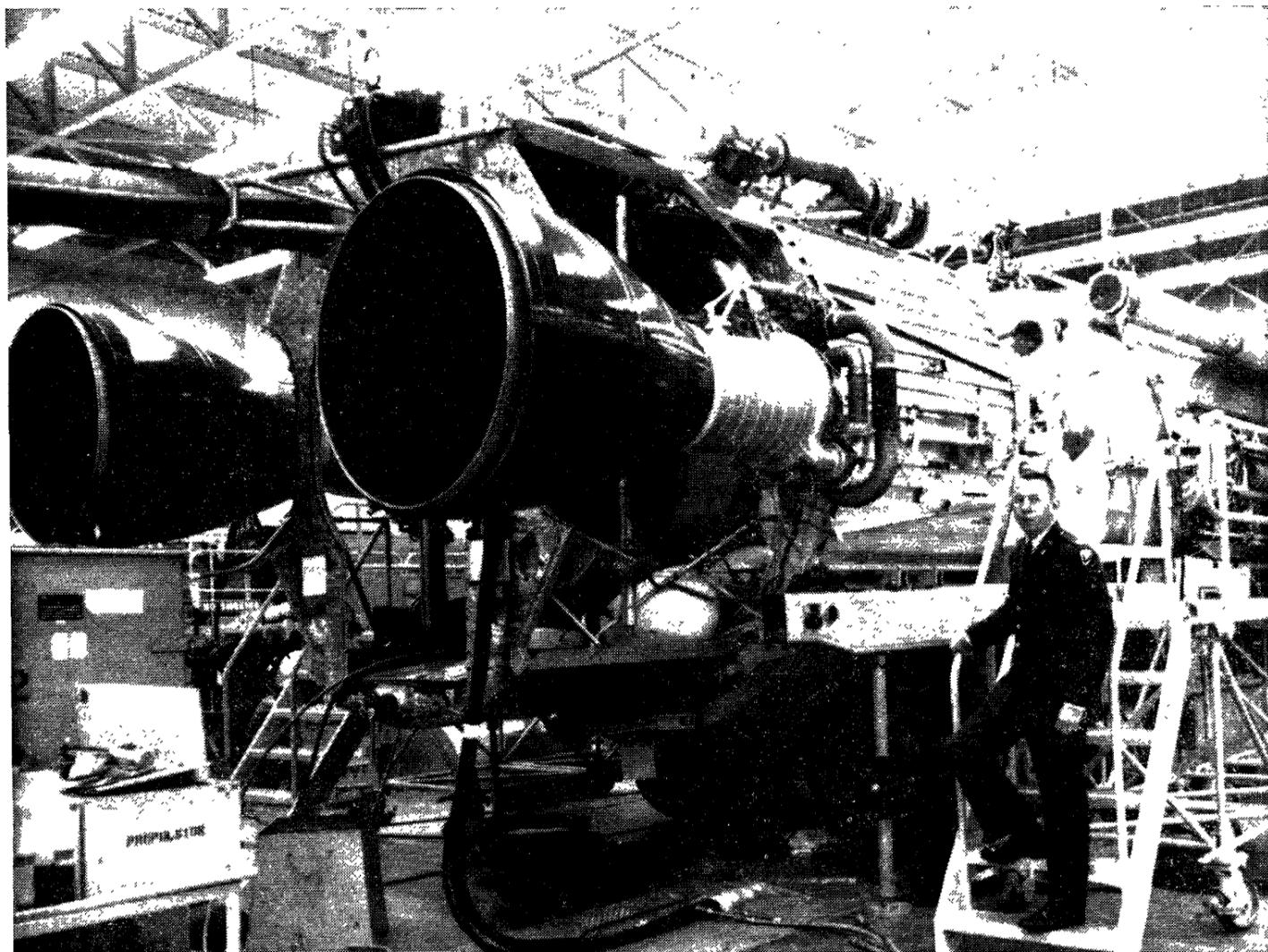
Technical Artists Are Inviting Show Entries

Technical illustrators and artists from Florida to California and from Massachusetts to Louisiana have earned Gold Medal and Excellence Awards during the past three years the Huntsville Technical Art Show has been held.

Last year 10,000 visitors reviewed the exhibit of 250 pieces of art selected by an eminent panel of judges from over 600 entries, coming from 14 States. The Huntsville Technical Art Shows received national publicity through over articles and feature stories in "Industrial Art Methods" and "Famous Artists Magazine" just to mention two of many technical publications.

This year we expect the Huntsville Technical Art Show to be even better. For the first time, the STWP-Huntsville Sixth Seminar and Technical Art Show will be held at NASA's George C. Marshall Space Flight Center.

Entries may be submitted after Feb. 23 to STWP Technical Art Show, Civic Arts Center, 311 West Clinton Avenue, Huntsville, Ala., 35801.



BIG BOOSTER FOR NIKE-X TARGETS—This is one of 12 Atlas intercontinental ballistic missile boosters the Army's Nike-X missile defense project has obtained from the Air Force. The Atlases will be used to launch targets for the Nike-X system. By making use of the Atlases which the Air Force had retired instead of purchas-

ing new ones as the Nike-X project had been authorized, \$10.5 million was saved on these long range boosters. Shown with the booster is Maj. Howard B. Dyer, Chief of the Nike-X Field Office at Vandenberg Air Force Base where this picture was taken.

on 9 islands in the Kwajalein Atoll studies of different types of re- some 2,000 miles southwest of entry vehicles. These studies are Hawaii, performs continuing used by the Air Force, Navy and

ARPA (Advanced Research Pro- in their respective development jects Agency) as well as Nike-X mission areas.

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Parade of Stars

Dick Cizek Bombs Pin Palace Maples For 672

Redstone League: Dick Cizek, 672 (243, 215, 214), George Foster, 586 (211, 205), Leo Schiffman, 581 (235), Jim Denk, 546, Ed Marshall, 543, George Ratts, 542, Jim Stewart, 537, Wayne May, 537.

Field Services League: Al Sarge, 638 (222, 221, 195), Paul Barney, 612, (237), Max Baer, 597 (207, 201), Ed Laehy, 561 (216, 201), Cliff Walker, 553, Sam Boda 541 (222).

AMC League: Ken Bell, 577 (212), Mel Webb, 554 (219), Dave Moore, 548, Bernie Robinson, 548, Howard Helmick, 538, Emil Havrilla, 536, Ernie Danes, 533, Woody Rush, 530.

Bad weather cut into the civilian bowling activity last week but it failed to put a damper on the exploits of a few of the hot shots who braved the elements for their weekly assault on the maple sticks.

Three Honor Roll scores were posted during the week including the highest three game total for the season. In addition there were a whole host of near misses plus several outstanding games.

Dick Cizek was on one of his strike tears in the Redstone League and by the time the smoke had settled the little bomber had put together a 672 series out of games of 243, 215 & 214. It was the best series rolled by civilian bowlers this year and one of the better totals put together in Huntsville this year.

The other two Honor Roll counts cropped up in the Field Services League where Al Sarge made the elite list for the second time in three weeks with a 638 and Paul Barney made his debut with a 612.

Another Field Service kegler, Max Baer, just missed the honor circle with a 597, while George Foster had a 586 and Leo Schiffman had 581, both in the Redstone League.

Ken Bell did his best to up-

Foreign Students Enter Unit Level Volleyball League

Military personnel from three countries will be in action starting tomorrow evening when the Unit Level volleyball league season opens.

The Federal Republic of Germany will be represented by three teams, with Korea and Japan each entering one team. They will be battling squads from eight Redstone units for the league title.

The Koreans will start the league season by taking on the Missile Command in the opener of a triple header tomorrow evening. Company A takes on the Officers in the second game, and the German students will test C Company in the last game of the opening day card.

The Japanese team, German officer and German Staff will get into action for the first time next week.

The league will play a triple header each Tuesday and Thursday with a single round robin schedule planned.

hold the AMC League name with a 577 while the Supply Management League decided that road conditions were bad enough to cancel all matches for the week.

Cizek also rolled the best single game with a 243, Barney had a 237 and Schiffman put together a 235 effort.

In the battle for the league titles, the Valley Cleaners lead the Redstone by a point and a half, the Guided Muscles have a two point bulge in the Field Services League, and the Maulers lead the Bombers in the AMC by three.

WALT FEIP SETS SEASON RECORD

Blanked by the Squirrel Hill Mob in their outing, the Rocket Rollers managed to hold onto their hold on the top spot in the MMCS Officers bowling league when the second place Black Jacks were only slightly more productive.

The Rollers built up a four and a half point lead two weeks ago with a 3 to 1 win over the Satellites but lost a point to the Jacks who were suffering their second straight 3-1 loss to the Rounders.

The loudest individual noise of the two weeks was generated by Walt Feip when he strung together games of 201, 189 and 244 for a big 634 for F Troop. It gave Feip the best scratch series of the year.

Not far behind in last week's firing was Bob Percy who had games of 185, 187 and 225 to just miss Honor Roll status with a 597. The big series boosted the Rounders to their win over the Black Jacks.

Bob Love collected 523 sticks to help the Rounder attack and George Earle led the Jacks with a 511.

The big series rolled by Feip boosted his mates to an even split with the Rounders who got a 525 from Al Leonard and 503 from Mel LaPointe.

Another outstanding match two weeks ago saw the Bad Gnus take three points from the Black Jacks with two men on each side rolling 500 totals.

Al Cox rolled a 235 game and a 580 series and John Harris fired a 525 for the Gnus, and Hank Meincke downed 527 and George Earle 524 sticks for the Jacks.

Pete Kostoff led the Missilemen to a Clean sweep of the Squirrel Hill Mob when he fired a 551. Bob Leonard led the Mob with 521.

CAGE TOURNEY OPENS . . .

Police, Officers Battle For Title

Regular season play in the Unit Level basketball league has just about run its course and the lines are pretty well drawn for the annual post-season tournament to decide the league championship.

But with ten games remaining to be played the regular season title is yet to be decided and the final tourney berth is still up for grabs.

The double elimination will open next week with the top eight teams fighting it out for the championship.

As for the regular season play, the race remains just about as tight as it has for the past month with the Officers and the Military Police still in a deadlock and C Company a single game off the pace.

The latter quintet suffered their second straight loss following a string of nine wins in a row when they dropped an 80-69 nod to the MPs. The Officers remained in the running with a 69-51 win over B Company.

Each of the contenders have a pair of games to play. MICOM is also just a game behind the leaders, however, they have completed their schedule and hold a remote chance to tie for the crown.

The MP-C Company fray carried most of the interest during the week. The Police jumped off to a fast lead by scoring nine points before the school team was able to dent the scoring column. From there to the end it was an even affair as the MPs doggedly clung to their margin.

Mike Stuart took the scoring lead much to the surprise of no one, when he poured 28 counters through the nets. Bob Lechowicz added 17 more, Larry Bunge had 13 and Jerry Gonsiorek scored an even dozen for the winners. Vern Bonlander set the pace for C Com-

pany with 27, Dan Cole scored 14 and Dick Olson tossed in 12 more. The officers had very little trouble in beating the winless B Company team and all eight members of the winning team scored. The Officers took a commanding 23-8 lead in the opening quarter and then substituted freely over the rest of the route.

Bob Murphy led the scoring with 23 points and Bill Flynn tossed in 14 more for the winners. John Rozenkop led B Company with 14 and Don Reichert added 12 more.

The Medics lost a chance to figure in the regular season championship when they were handed a 44-40 licking by 1st ETC. It was a close, hard fought contest all the way with neither team being able to mount much of an attack.

Chuck Dove led the First scorers with 14 and Chuck Wimsatt tossed in 16 for the Medics.

MICOM made it ten out of thirteen in another contest that pitted two cold teams together, when they outscrambled Hqs, STC, for a 47-37 win. The winners scored eight points in the last two minutes while STC was going scoreless.

Dick Waugh scored 21 for MICOM while a 22-point splurge by Tom Werth went for naught in the STC attack.

The final game of the week saw the Officers No. 2 team hold onto a glimmering hope to make the playoffs with a 43-33 win over Company A. The Officers can grab a playoff spot by winning all four of their remaining games.

Ron Bischoff led the Officers with 15 and Jack Loose contributed 11 more. Pete Carruthers topped A Company with 9.

Military Handball Tournament Opens

Handball will make a return to the Unit Level athletic competition next week when the annual singles and doubles tournament opens at the Workout Facility, February 15.

Singles play will start the tournament with doubles play following at the close of individual play.

All military personnel desiring to compete in either or both of the tournaments can sign up at the Workout Facility.

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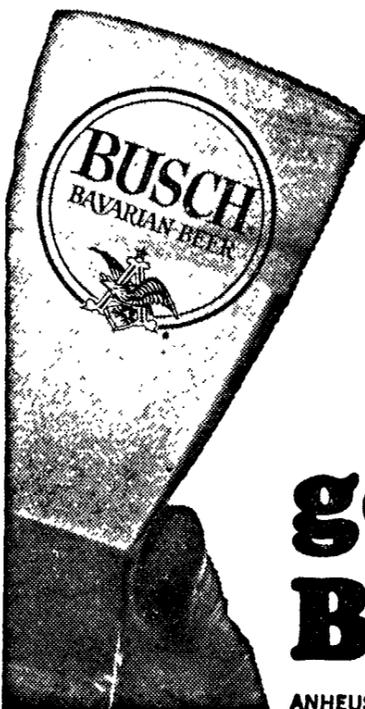
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Wilkerson, Cooper Set Hot Pace In A-B-C

The Wheelers added two more points to their A-B-C Officers Bowling League lead last week with a clean sweep win over the Stump Knockers.

The sweep together with split between the Lucky Strikes and the Hopefuls gave the Wheelers a four point bulge over the Strikes. The Hopefuls dropped into a tie with the Saturn Five team, 3 to 1 winners over the Black Jacks.

The league leaders grabbed off individual honors for the week

when Tom Wilkerson fired a 564 and Wiley Cooper added a 558.

Don Vanderheyden collected 545 sticks for the Lucky Strikes, Jim Bochnowski had a 515 for the Hopefuls, Paul Boyer topped 519 sticks for the S Wonnors and Lin Kidd had a 512 for the same team.

PRO ENGINEERS TO MEET FRIDAY

The Northeast Alabama Chapter of the Alabama Society of Professional Engineers will hold their monthly meeting on Thursday, February 10, 1966, at the Candlelight Inn on North Memorial Parkway. A social hour will commence at 6:00 p.m. and dinner at 7:00 p.m.

Featured speaker will be Dr. Richard Sheppard, M. D., of the University of Alabama Medical Center, Birmingham, Alabama. Dr. Sheppard's topic will be Biomedical Engineering.

All members and guest are urged to attend. Reservations can be made by calling Bennie Shultz at 876-2888 (office) or 881-4588 (home).

SKI CLUB PLANS GATLINBURG TRIP

The Huntsville Ski Club's third charter ski bus will leave Northside Plaza Shopping Center at 6:30 p.m. Friday for a weekend at Gatlinburg, Tenn.

Final arrangements and trip payments will be made tonight at 7:30 p.m. in the Records Court Room of the new City Hall.

Movies of the trip to Catteloochee, N. C. will be run. The group welcomes newcomers. Trip coordinators are Ken Parr, 881-7191 and Ann Cobb, 881-9402. Reservations for bus, rooms, ski equipment and other details will be handled by them.

Directorate Meet Set For March 7

Two of the three winners will be back to defend their crowns March 7 in the 1966 Supply and Maintenance Singles Classic when the one-day bowling tournament is held at the Starlite Lanes in Huntsville.

Pat Hood, winner of the overall handicap championship last year, is no longer employed here, however, Tom Lindsay and Evelyn Green are looking to make it two in a row.

Lindsay fired a 596 to capture the men's scratch title by a single pin over Nate Barnes, and Mrs. Green took the women's crown with a 511. Mrs. Hood shot a 491 actual to go with a 220-pin spot for a 711 handicapped total.

The tournament is open to all Supply and Maintenance employees

Ambassadorship Is Soldier's Job

Ambassadorship, though not taught by the Army, is a vital job of all soldiers while stationed in foreign lands, Lt. Col. Walton S. LeMay told a large class at the U.S. Army Missile and Munitions Center and School, Friday, Feb. 4.

Col. LeMay, the Chief of the Installation and Services Office, U.S. Army Missile Command, recently returned from Viet Nam where he saw first-hand the duties of the "soldier-ambassador." He explained to 127 missile and ammunition graduates that the individual soldier must learn, largely on his own, all he can about the country where he will be assigned.

Winner of the Bronze Star Medal for service in Viet Nam, Col. LeMay advised American soldiers not to jump to conclusions about the people and customs of other lands. "Remember you are the foreigner in other lands and your individual efforts can greatly aid relations in these countries," he added.

In addressing the four German and two Italian graduates, he said he was honored to be able to talk to the people of many countries joined together for a free world and praised the fine record of foreign students at MMCS.

The honor graduates of each of the six classes were: Pvt. John C. O'Connor, Nike Launcher Control Repair; Pvt. Stanley C. Frazier, Ammunition Storage; PFC Richard F. Durso, Nike Radar & Computer Repair; Sgt. Hilton G. Lacure, Ballistic Missile Test Station Repair; Pvt. Paul C. Massucci, Ammunition Storage; Pvt. Thomas O'Sullivan, Ammunition Records.

• Inspector Generals are now required to review and determine the accuracy of morning reports, special orders, and monthly personnel rosters. Citing common errors in these documents, Army Circular 20-8 says that these special inspections are intended to reduce the impact on personnel of such errors. (ANF)

and will be bowled on a 70 per cent handicap basis. All entrants must be sanctioned by the American Bowling Congress or the Women's International Bowling Congress.



BLOOD DONOR AWARD—Florence Speake accepts the Blood Donor plaque awarded the Patent Center of the U. S. Army Missile Support Command from Col. Thomas W. Cooke, Commander. The Patent Center Plaque was awarded in Category II, meaning the Center has less than 500 employees. The Category I plaque last month went to the Research and Development Directorate of the Army Missile Command. Mrs. Speake is coordinator for the Patent Center participation in the monthly Bloodmobile program.

UNIT LEVEL BASKETBALL

THE STANDINGS		W	L
Officers N. 1	.....	10	1
Military Police	.....	10	1
Company C, STC	.....	9	2
MICOM	.....	10	3
Medical Det.	.....	7	3
Iqs, STC	.....	6	6
Fourth ETC	.....	5	7
First ETC	.....	5	7
Third ETC	.....	5	8
Officers, No. 2	.....	3	6
Company A, STC	.....	2	10
Second ETC	.....	2	10
Company B, STC	.....	0	12

Games This Week
 Tonight: 2nd vs. No. 2, 1800
 Co. C vs. No. 1, 1900
 Medics vs. Hq. STC, 2000
 Friday: No. 2 vs. No. 1, 1800
 Medics vs. Co. A, 1900
 First vs. Fourth, 2000
 Monday: MPs vs. No. 2, 1800

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SOCIAL and CLUB EVENTS



MISS O'KEEFE TO WED LT. KULBACKI

Miss O'Keefe Announces Engagement To Lieutenant

Col. and Mrs. John T. O'Keefe, 504 Delaney Road, Huntsville, Alabama, announce the engagement of their daughter, Catherine, to Lt. Walter Stanley Kulbacki, son of Mr. and Mrs. Stanley J. Kulbacki, 209 Glenellen Road, Boston, Massachusetts.

The bride-elect was graduated from S. R. Butler High School. She is presently employed with

ARINC Research Corporation in Huntsville.

Lt. Kulbacki graduated with honors from Boston Latin School and attended Northeastern University. He graduated from the United States Military Academy in June of 1965, and was commissioned as a Second Lieutenant in the United States Army. He is presently assigned to the 82nd Air-



NCO WIVES CLUB OFFICERS FOR 1966—Officers of the Redstone NCO Wives Club were installed Friday at a luncheon meeting in the Redstone NCO Open Mess. Left to right are: Mrs. Edwin Gedling, president; Mrs. L. L. Schuldheisz, first vice-president; Mrs. William S. Kyle, second vice-president; and Mrs. Allen Davis, secretary. Mrs. Phillip Burch, the new treasurer for the group, was not present.

Noncommissioned Officers Wives Club Installs Officers At Luncheon

The Redstone Non-Commissioned Officers Wives Club installed their officers for 1966 following a luncheon Friday at the Redstone NCO Open Mess.

The new officers are Mrs. Edwin Gedling, president; Mrs. L. L. Schuldheisz, first vice-president; Mrs. William S. Kyle, second vice-president; Mrs. Allen Davis, secretary; and Mrs. Phillip Burch, treasurer. Mrs. Thomas W. Cooke, honorary president, was the installing officer.

Mrs. Frank Reed was the mistress of ceremonies for the event, and the invocation and benediction were given by Mrs. John P. Kirkland, Jr.

Mrs. Cooke praised the Club for their active participation in charity projects and for their scholarship program. The Club presents scholarships to children of members annually. Three \$100 scholarships were awarded last year. Mrs. Cooke pointed out that the scholarship program has a far reaching benefit extending on to future generations.

The luncheon table was decorated with lighted pink tapers in silver candelabra and bouquets of pink and white flowers. More than

30 members and guests attended. Hostesses making arrangements for the luncheon were Mrs. Reed, Mrs. Hollis Decker and Mrs. J. R. Huff.

Classes Open For Volunteers

A Red Cross Volunteer Course is scheduled at the Post Chapel Thursday, Feb. 24 from 9 a.m. to 3 p.m.

The course will be conducted only if there is a minimum of 20 Volunteers interested. Registration deadline for the course is Tuesday, Feb. 15.

Mrs. William A. Shunk, 877-5431 and Mrs. Joseph Holmes, 877-5860.

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Beginners Start Play With Bridge Group At Redstone

The first competition for beginners with the Bridge Group sponsored by the Redstone Arsenal Officers Wives Club began Thursday at the Redstone Officers Open Mess.

The newly graduated group, who completed a course conducted by Mrs. M. F. Gatwood, did not compete with the old hands at the game but made up two tables among themselves. The balance of the twelve tables in play were regulars at the game. Mrs. Gatwood is now starting a new class for beginners. Members of the Wives Club are eligible to join the class.

Winners Thursday were Mrs. E. L. Foote, high; Mrs. Thomas Ellis, second; Mrs. Cyril Sterner, third; Mrs. Stanley Tyler, low.

USMA Founders Banquet To Be Friday, Mar. 11

The U. S. Military Academy Founders' Day banquet will be held March 11, at Redstone Officers Open Mess. It was reported wrong last week.

Notices of the event have been mailed to graduates of all the Armed Forces Academies in the Huntsville area by Lt. Col. A. R. Roth, Chief of the Future Missile Division of the Research and Development Directorate of the Army Missile Command.

Should any graduate of the USMA, Air Force, Navy or Coast Guard Academies not receive such notice, he should get in touch with Colonel Roth by mail or call him at 876-2607.

HUNTSVILLE TOASTMISTRESS BEGINS CONTEST

Mrs. Noel E. Donlin won the first round in the speech contest of the Huntsville Toastmistress Club Wednesday at the Russell Erskine Hotel.

The speech covered sociological and technological production. Others competing were Mrs. R. D. Chamberlain, Miss Nell Curtis, Mrs. Alice Faye Earnest and Mrs. R. M. Coulter.

Judges were John H. Haire and Miles R. Hardenburg, Mrs. Hardenburg, and Miss Marian Hocker. Mrs. R. P. Hearn served as Toastmistress.

Topics were lead by Mrs. Enoch S. Nilsson and were centered on Haiku, the Japanese art of flowery prose and beautiful expressions. Best topic speakers in a tie were Mrs. Joseph C. Moquin and Mrs. John H. Haire.

Competition will continue until all eligible speakers have given a speech.

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At The Service Club

By Betty Hayes

Hearts! Hearts! Hearts! will be the theme at the Service Club on Saturday night. Speaking of hearts did you buy a gift for that special person? If you haven't, you have only a few more days, Monday is Valentine's Day.

Maybe you don't have a special person in your life. If this is true, let's hope that cupid points his bow and arrow in the right direction for you this Valentine's Day.

Don't miss the travel adventures tonight at 7:30 p.m. and Sunday night at 8 p.m. in the TV room. If you haven't attended the travelogue nights, I suggest that you make a special effort to come this week. Once you attend the program, you won't want to miss the showings weekly.

Surprise goodies and pleasant aromas will come from the kitchen Thursday at 8 p.m. Mark your calendar.

Are you skilled at the chessboard? You are. Why not enter the contest Friday at 8 p.m.? You may be the chess champion for February.

A Sweetheart Ball is scheduled Saturday night at 8 p.m. To add to the enjoyment of the occasion the WACS from Ft. McClellan, as well as the Junior Hostesses, will

Volunteers Study First Aid Methods

Seventeen are enrolled in a Red Cross First Aid Class being conducted for mothers and others interested in learning basic first aid practices.

The program is sponsored by the Red Cross Volunteers at Redstone Arsenal and is being conducted at the Girl Scout House in the Splinter Village.

Ron Andrews from the Huntsville-Madison County Chapter of the Red Cross is the instructor. Mrs. Frank Howell is the on-post coordinator.

attend. The Karaways, a swinging local group, promise to play the right tunes. For a delightful evening come to the Sweetheart Ball. The proper attire is a suit and a tie or a class-A uniform.

Monday isn't blank. Come See. Bridge and other card games will be played in the little lounge on Tuesday evening at 7 p.m.

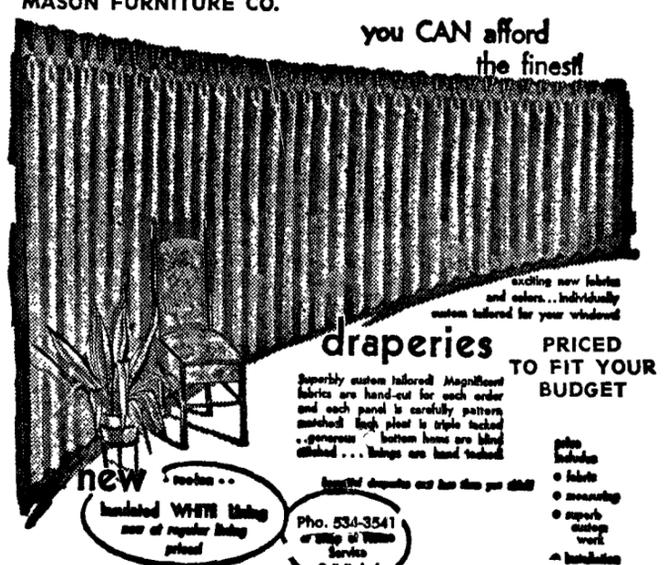
Don't forget to pick up a program for February during your next visit to the Service Club. Also check the program to see if you have the lucky service number.

Watch this column next week for information on The George Washington's Frolics. See you at the Service Club.

DA has advised commanders that they are free to support the 1966 membership drive of the Association of the United States Army. While all joining must be on a voluntary basis, DA has suggested that an explanation of the AUSA's goals and performance will stand on its own merits. (ANF)

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WARMER THERE—The first Filipino officer to attend classes at the U. S. Army Missile & Munitions Center & School points to his tropical homeland. Capt. Federico Langit of the Philippine Constabulary indicates to Col. Erwin M. Graham, Jr., commandant of the Center, that his island is somewhat warmer than North Alabama. Capt. Langit is taking the Ammunition Officers Course at the Redstone Facility.

Filipino Officer Takes Ammunition Course Here

The first Filipino officer to attend the U.S. Army Missile & Munitions Center & School will begin classes at the Redstone Arsenal installation soon.

He is Capt. Federico Langit of the Philippine Constabulary who will attend the ammunition officer course at MMCS. Capt. Langit explains that the Philippine Constabulary is responsible for all fire arms and small arms ammunition for the Philippine armed forces though the country also has an Army, Navy and Air Force. The constabulary is the national police force of the Philippines and in addition to enforcing national law and assisting local police, it functions as an army when the need arises.

Capt. Langit is understandably proficient in English as he has edited several English language newspapers in the Philippines. The last was The Reporter at Tarlac.

A native of Dagupan, on Luzon Island he graduated from high

school in 1951 and then attended the Mapua Institute of Technology where he took an engineering course. In 1953 he entered the Philippine Academy and in 1957 graduated with a BS degree and was commissioned in the Regular armed forces. During his studies at the academy he passed the examination for attendance

to the United States Military Academy at West Point but missed appointment by a small margin as he was second on the selection list to only one other applicant from his homeland.

Capt. Langit's first assignment was to the remote Sulu Archipelago and later to duty in Manila. Capt. Langit is married and has five children. His wife, with the melodious name of Balladona, is a nurse in the Pangasinan General Hospital at Pangasinan.

Upon completion of the course at MMCS he will attend a missile ammunition course at Savanna Ordnance Depot. His first week in Alabama was spent touring Red-

stone Arsenal and Huntsville, America."

Commenting about his early impressions of the area, Capt. Langit said that "it is cold in he shivered. "In the Philippines we have only two seasons, wet and dry,"

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Movie Schedule

WEDNESDAY, Feb. 9
"Devils of Darkness" (M-YP)
THURSDAY-FRIDAY, Feb. 10-11
"Judith" (M-YP)
SATURDAY, Feb. 12
"El Cid" (F)
Showing at 1:00 p.m. and 6:30 p.m.
SUNDAY-MONDAY, Feb. 13-14
"Beach Ball" (M-YP)
TUESDAY, Feb. 15
"The Collector" (M)
Two shows nightly at 6:00 and 8:30 p.m. except as shown above.
Sunday matinee at 2:00 p.m.

Feb. 9, 1870 — The weather service was established as part of the Army Signal Service. AMC today carries on this pioneering tradition through its meteorological studies to give support to ground forces.

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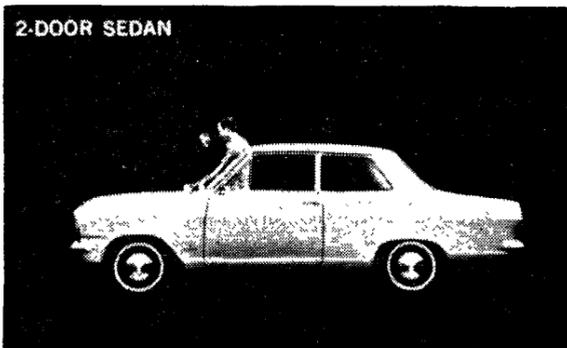
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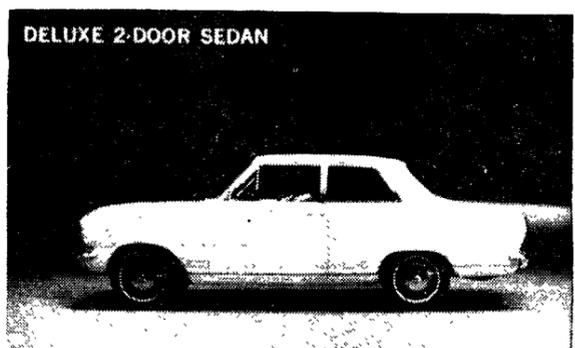
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CADETS AND THE SERGEANT—Three cadets from the U. S. Military Academy are shown a model of the Sergeant missile by Maj. William A. Cole, Acting Project Manager of the surface-to-surface weapon system. They are among 36 cadets, all members of the Rocket Society at West Point, who toured Redstone Arsenal last week. From left to right are: Cadet Leigh Wheeler; Major Cole; Cadet Tom Eason; and Cadet John Redmond.

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Itten, Johannes — Design and Form.
McGowan, John F. — Counseling.
New York Times — The Road to the White House.
Osborn, Alexander F. — Applied Imagination.
Sykes, Egerton — Everyman's Dictionary of Non-Classical Mythology.
Trinquier, Roger — Modern Warfare.
Warner, Ezra J. — Generals in Gray.

FICTION

Harris, John — The Cross of Lazzaro.
Innes, Hammond — The Strode Venturer.
Lederer, William J. — Sarkhan.
Linnington, Elizabeth — Detective's Due.
Lott, Milton — Backtrack.
Masterson, Whit — 711-Officer Needs Help.
Mirdrekvandi, Ali. — No Heaven for Gunga Din.
Pratt, Theodore — The Money.
Schmitz, James H — A Nice Day for Screaming.
Semenov, Iuian S. — Petrovka 38.
Sharp, Margery — The Sun in Scorpio.
Slaughter, Frank G. — Constantine: The Miracle of the Flaming Cross.
Stout, Rex — The Doorbell Rang.
Stratton, Roy Olin — One Among None.
Young, Marguerite — Miss MacIntosh, My Darling.
Anderson, Poul — Agent of the Terran Empire.
Falstein, Louis — Laughter on a Weekday.
Galaxy Magazine — Galaxy Reader.
Horan, James David — The Seat of Power.
Lofts, North (Robinson) — How Far to Bethlehem?
Murphy, Robert William — The Golden Eagle.
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● Nonappropriated fund employees of the Department of the Army will have their own group health, life, and retirement insurance programs on January first DA has announced. While the group health and life plans are optional, the retirement plan is mandatory for all regular, full-time employees. Payroll deductions will begin at the end of this month. (ANF)

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Accents Differ, Technological Goal Is Same

Some future U.S. Army missiles may have slight German accents, the reflection of contributions made by three capable, young engineers from West Germany who are working under a one-year training program at the Army Missile Command.

The training is done in research and development laboratories, and the participants are selected by the Federal Republic of Germany Defense Ministry for one year assignments.

Gottfried Farwer, 29, Hans Schulte, 31, and Heinrich Knoke, 37, are working in the Research and Development Directorate labs at Redstone intent on learning more about supporting research and future missile development.

All came from the Munich area where they were doing similar work for their country's Ministry of Defense.

At the end of their U.S. training in April, they expect to return to their old jobs at home.

They are not the first such train-

ees at the Missile Command. Elmar Gobel worked for four months with the Ground Support Equipment laboratory after he worked eight months with the U.S. Naval Test Station in China Lake, Calif. He returned to Germany at the end of last October.

Farwer, Schulte and Knoke all speak English easily although none had had much opportunity to practice the language which they had studied in school. They have been reading English for years in technical literature.

Farwer and Knoke are graduates of Aachen Institute of Technology, and Schulte's alma mater is Braunschweig Institute of Technology. They hold degrees in engineering comparable to masters degrees awarded in the U.S.

Farwer has taken a course at the University of Alabama Huntsville campus to get an idea about American university life and to improve his English writing. Actually, he looks like the polished product of an American Ivy Lea-

gue university. He works in the Army Inertial Guidance and Control Laboratory where he is conducting basic studies and applies their results to circuit development work. His efforts are largely analytical.

"The past few years brought a fast progress in the field I am working in. Hence, the area is not settled, and you have to try hard to keep your knowledge up-to-date. There is hardly a chance to determine the results of one phase of study before new developments come along," he said.

As a hobby, Farwer has bought hi fi kits and is building amplifiers, tuners and speakers. He has an apartment in Huntsville which he rented with much less effort than it takes to lease one in Germany, except in the smaller towns.

"Food is cheaper here, and so is real estate," all three observed.

They laughed at their attempts to collect American Indian souvenirs. "We visited some Indian reservations, but the things on sale there were mostly made in Japan or Hong Kong," Schulte noted.

Except for Knoke, these men were rather young during World War II and immediately afterwards.

Knoke recalls that his family found some grain they ground into meal for kind of a gruel and to make into bread. "For breakfast we had a soupy dish made of grain and water, for the noon meal we had bread, and at night a combination of the two," he remembers.

He referred to the grain as "corn," but Schulte pointed out that the word he was using was "korn," a generic term for all small grains in Germany, and that the grain Knoke was talking about was probably rye.

There was a time, they said, after the end of the war, when people in Germany were asked what kind of grain they needed most. When the Americans heard it was "korn" they sent great amounts of corn.

Reminiscing about other scarce items after the war, they mentioned tobacco. "People were raising tobacco in flower pots around their living rooms. If anyone had over a certain number of plants, though, he had to pay a tax on them," they recalled.

Schulte, a very enthusiastic and cooperative man, has been described by one of his associates in the Electromagnetics Lab as a "senior engineer" in his field. He is working in the Electro Dynamics Branch on guidance systems for future missiles.

Knoke is a slender, blonde with a more reserved demeanor than his cohorts. He is working as a test engineer on certain phases of the Army's aircraft armament program in the Flight Operation Branch of the Test and Reliability Evaluation Lab.

Schulte and Knoke, with their families, live in a duplex in Huntsville, one on each side of the building. They miss anyplace to take long walks—"We're on a short street with no sidewalks, and there is just no place to walk for pleasure or exercise," Knoke said.

All three are impressed with the Redstone Scientific Information Center, a facility they find very valuable in their research work. They especially praise the possibility of running computerized tape searches for literature although, they say, even this method cannot release the engineer from doing some work himself. The distribution of knowledge, one of today's major problems, requires advanced techniques like this one.

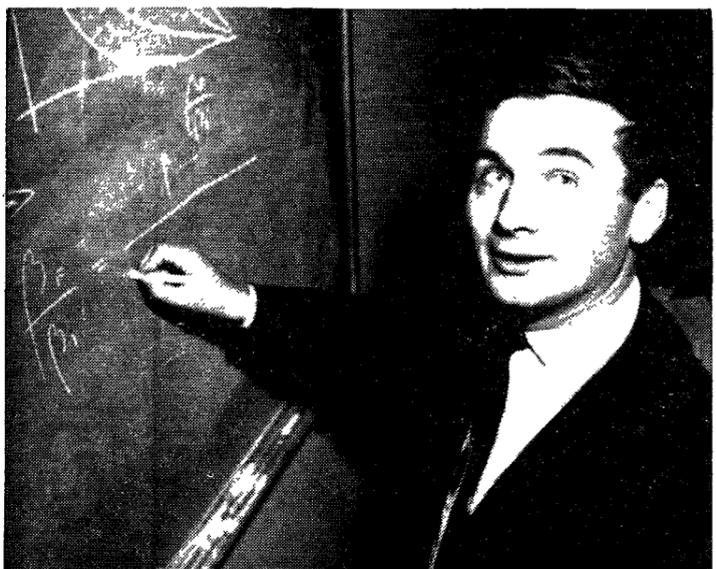
They are making contributions to technical literature through writing reports on their missile work at Redstone.

They are enchanted by the possibility of learning about American engineering and general way of life. They pointed out, "There are always different ways to do things, and if you see how other peoples work and live, you broaden your mind and get a lot of new ideas. As far as our work is concerned, it would be true even if the American technology were not ahead."

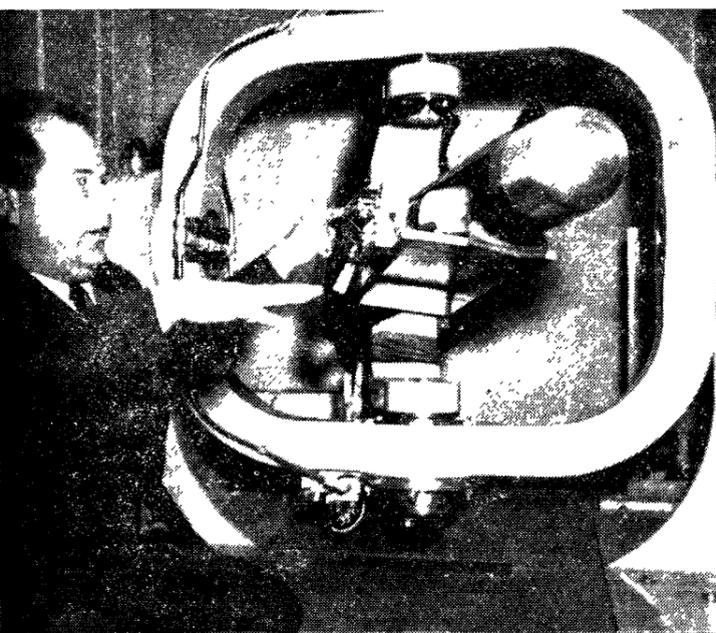
All express sincere appreciation for the opportunity to participate in this training program which gives them a chance to learn more



HE'S A TEST ENGINEER—Working in the Flight Operation Branch of the Army Missile Command Test and Reliability Evaluation Laboratory, Heinrich Knoke is concerned with certain phases of the Army's aircraft armament program. He is working in the U.S. as part of a one-year training program for West German engineers.



EXPLAINS FORMULA—Gottfried Farwer illustrates a formula used in his work at the Army Inertial Guidance and Control Laboratory, Army Missile Command Research and Development Directorate. An engineering trainee, Farwer is the youngest of three men from West Germany working in the U. S. for one year. He and the others were selected by the Federal Republic of Germany Defense Ministry to participate in the training program.

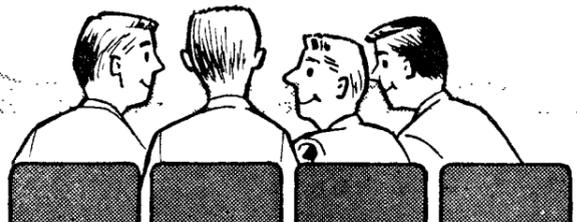


ELECTRODYNAMICS—Hans Schulte, one of the three young engineers from Western Germany who are working in the Army Missile Command's Research and Development Directorate under a one-year training program, explains how the three-axis simulator is used in his research work. Schulte is assigned to the Electromagnetics Laboratory of the Directorate.

about missile engineering and advanced technology—and last, but not least, to learn more about the U.S., and its people. They are deeply gratified for the support of their supervisors and colleagues who helped in getting settled down quickly. After they go back to pursue their careers in Germany, who knows? Some future West German armament program may take on bits of an English accent, American style, that is!

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Six Train To Become Engineers

Six more aspiring young leaders at the U.S. Army Missile & Munitions Center & School have been accepted for Officer Candidate School.

These applicants bring the MMCS total to 26 scheduled for enrollment in the tough 23-week program since new emphasis was begun last year. Designed to train top young soldiers as commissioned officers, the program has been tripled in recent months.

The six from MMCS will report to the U.S. Army Engineer School, Ft. Belvoir, Va. and U.S. Army Infantry Center, Ft. Benning, Ga. in early February and April to begin the 23 weeks of instruction. They will join U.S. Army applicants from all parts of the United States and around the world in an attempt to win a commission. To qualify they had to meet age requirements, 18½ to 28; education prerequisites, high school or equivalent; a score of at least 110 on the Aptitude Area GT, 115 on the Officer Candidate Test and 300 on the Physical Combat Proficiency Test.



WAR LAB VISITORS—Four officials of the U. S. Army Limited War Laboratory at Aberdeen Proving Ground, Md., recently visited the Army Missile Command, being briefed on research and development activities. Sitting, from left to right, as they look over an organization chart are: E. K. Kaprelian, Technical Director,

War Laboratory; Col. R. W. McEvoy, Commanding Officer; Milton Cutler, Chief, Applied Research Division; and J. C. Ackerman, Chief, Development Engineering Division. Standing are Gregory S. Moshkoff and Donald I. Graham, Jr., Research and Development Directorate, Missile Command.

Civilians with a college degree are able to enlist in the U.S. Army for the purpose of attending Officer Candidate School and unlike service academy cadets, may be

married when they enlist.

The applicants from MMCS are: S/Sgt. Charles Armstrong, of Birmingham, Ala.; Specialist 4th Kerry Keisling, of El Indio, Texas,

Specialist 4th Cecil Hutchison, Sulphur, La.; PFC Michael Johnson, Merritt Island, Fla.; PFC Reginald Mundy, Conover, N.C., and Pvt William Smith of Miami,

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Page 14 The Redstone Rocket — February 9, 1966

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Career Development Has Thirty-Six Back To School

Off-post training opportunities have taken 36 Redstone civilians and an officer away from their normal work area in recent weeks. The classes were offered by military schools, contractor plants and leading universities in eight states and the District of Columbia.

The local personnel were selected to attend the training under the career development program administered here by Civilian Personnel's Training and Development Division.

Almost half of the group went to the U. S. Army Management Engineering Training Agency at Rock Island, Ill., where they were enrolled for advanced study in five career fields and for attendance at two management seminars.

Jesse Greer (S&M), Thomas Carder (Hawk) and John Carter (C&DP) are attending the Middle Management Seminar, and Gene Holden (Hercules) and George Johnson (TOW) are included in the Top Management Seminar. The two-80 hour sessions took up on Monday and will extend through Feb. 18.

The PERT/COST course, conducted during the week of Jan. 31, included six civilians and an officer from the Arsenal. They are Charles Rymer, John Reed and Robert King, all of S&M, Clarence Bradford (Redeye), Don Dutchess (Comp Center), and Henry Wiley and Lt. Raymond Achterberg, both of Pershing.

Clifford Loftin (C&DP) attended the Data Collection and Transmission course, and Robert Lowery (C&DP) together with Wilson Foley (Mgmt Sc) were enrolled for New Organizational Concepts for Top Management.

Harrison Maxey and Charles Vessels (Nike X) are studying Operations Research Appreciation, and Maurice Sanford (P&P) is taking Management Statistics.

Six more went to Ft. Lee for advanced studies at the U. S. Army Logistics Management Center. Two of them will be at the Virginia installation until March 18 for a 240-hour course, Defense Inventory Management. They are Hesley DeBow and Joe Wun, both of S&M.

George Bittenbender (Hercules), Marris Gardepe (P&P) and Roy Hall (Gen Counsel) are taking Defense Advanced Procurement Management, and Willie Callahan (P&P) is studying Specification Management. The two 120-hour courses extend through Feb. 18.

William Cook (Safety Div) went to the AMC Field Safety Agency at Charlestown, Ind., for the Munitions Safety course, and Joe Brannum (Inspection Div) took the Command Maintenance Management Inspection course at the U. S. Army Armor School at Ft. Knox, Ky.

James Fowler (P&P) is taking the Defense Procurement Executive Course offered by the Navy Department in Washington, D.C., and Freddy Rogers (Metrology Lab) went to the west coast to study Sampling Oscilloscopes at the Tektronix Corp., in Portland, Ore.

Spaulding Boster (TOW), James Hartley (Lance) and John Plexico (R&D), studied Maintainability at George Washington University and David Rice (Metrology Center) is at the same place for Standards and Calibration.

Another R&D employee, Larry Atha, is taking Mechanical Engineering Research at the University of Missouri at Columbia. He will be there for six months.

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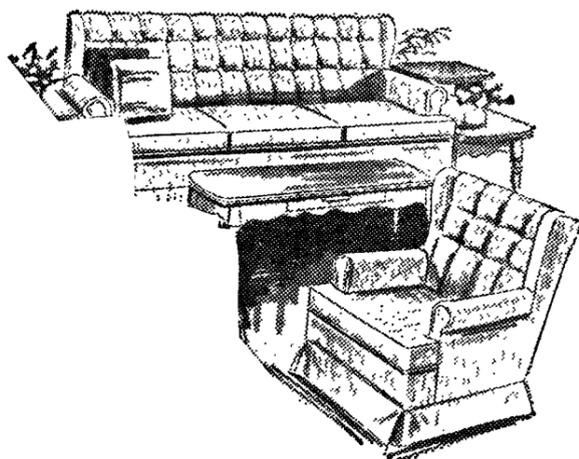
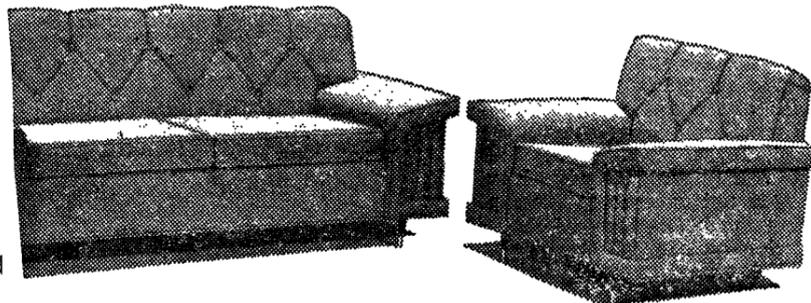
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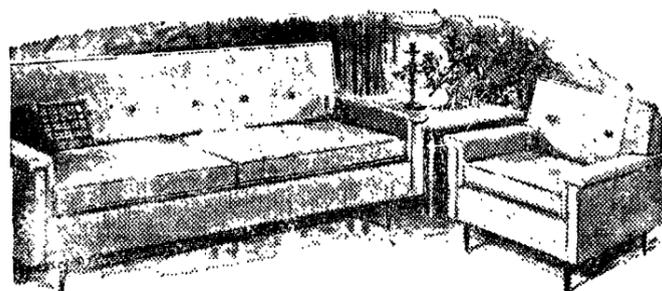
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Higgins Makes Suggestion, Receives Substantial Bonus

Carl Clay Higgins, Jr., found himself \$750 richer as the result of a suggestion submitted to the Incentive Awards Committee at the U. S. Army Missile Support Command.

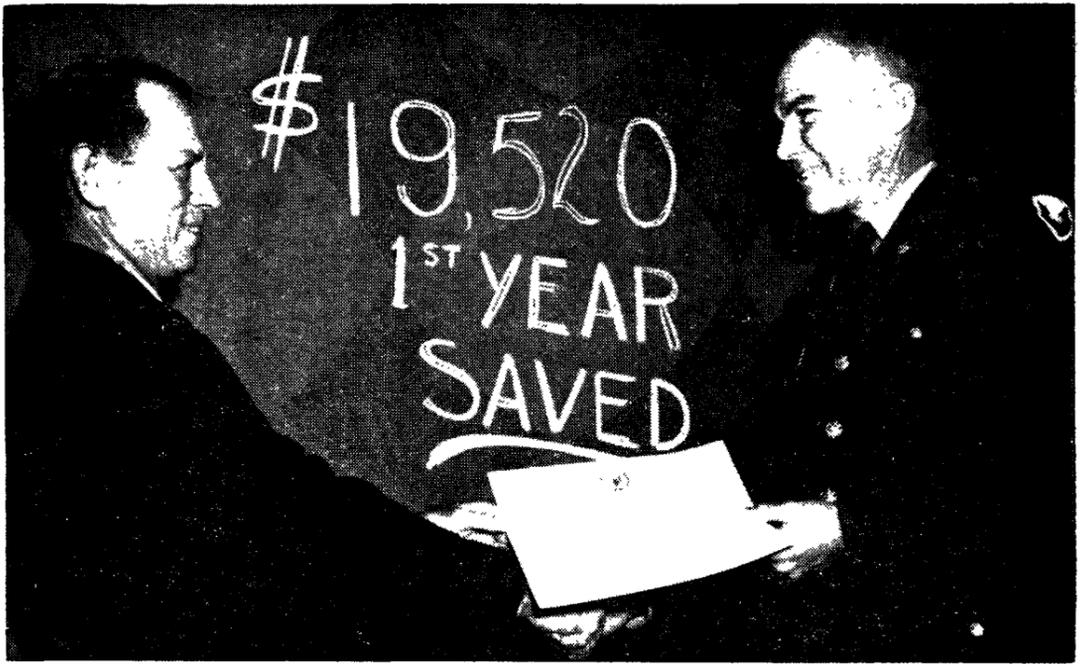
Higgins, a member of the Air Defense and Fire Distribution Office, U. S. Army Missile Command, decided that the government would be money ahead if it would develop a format for drawings that are standard and print them on a

commercial transparency that would be more durable than paper. Supplied to the contractors as government furnished equipment, it would reduce the cost of contractor printing and the government could use the savings for something else.

The estimated savings for the first year is \$19,320 dollars. Ensuing years will result in even greater amounts.

Higgins came to Redstone from the National Security Agency in Washington to join the Army Ballistic Missile Staff when it was formed in 1956.

A native of Pensacola, Florida, he is now a confirmed Huntsvillian who has installed his family in the Northwest Section of the city. Two sons, Randall, 16, and Kevin, 7, are home with him and their mother, Hope. A third son, Gerald, is married and working in town.



CONGRATULATIONS IN ORDER—Col. Morris W. Pettit, (right) Chief of the Air Defense Fire Distribution Office at the Army Missile Command congratulates Carl Clay Higgins, Jr. Higgins receives a \$750 bonus for a suggestion that will save the Government \$19,520 the first year and more as time elapses. The suggestion concerned the base for drawings that are standard which can be furnished the contractor by the government and save on printing costs.

ARMY'S NEWEST SHIP LOOKS LIKE AIRCRAFT CARRIER

When the latest ship in the U.S. Army's navy—a vessel which looks like a cross between an aircraft carrier and a troop transport—slips away from a deck in Corpus Christi, Texas, next week and heads out to sea it will have aboard a unique concept for supporting the helicopter soldier in the field—a concept which the Army Missile Command helped develop.

The ship, the USNS CORPUS CHRISTI BAY, is the Army's first and only floating aircraft maintenance facility. It is designed to support helicopter units operating in areas where good repair facilities are unavailable. The program has been tagged Project Flat-Top.

The ship's Technical Data Library, which contains more than 1,250,000 documents on 16 millimeter microfilm, was set up under the direction of the Army Missile Command. To get information from the library to 32 different machine shops located on five decks of the ship, closed-circuit television, facsimile transmitters and receivers, and an intercom system have been installed.

Here's an example of how the data system works: The ship is at sea off a coast where Army helicopters are flying missions. A helicopter needing repairs has come in from the front lines, and a technician in the aviation engine shop needs a particular engineering drawing in a hurry. He gets on the intercom and calls the library. The microfilm of the coded document is retrieved automatically from the file and put in front of a closed-circuit TV camera.

Back in the aviation engine shop, the technician sees the drawing on a TV monitor. If he decides that it would be better if he had a copy, the clerk in the library places the microfilmed drawing in a scanner. Within a matter of minutes, the technician can tear off the hard copy from a facsimile recorder in his shop area.

At the Missile Command on Redstone Arsenal, the Department of Defense and International Standardization Office, Engineering Documentation Division, Procurement and Production Directorate had responsibility for setting up the Technical Data Library.

The 538-foot ship is an ex-Navy seaplane tender, the USS ALBERMARLE. For the past 15 months it has been in the Charleston, S.C., Naval Shipyard being equipped with force and aft landing pads and further modified for its special mission. After landing under their own power or being ferried to the ship, helicopters will be taken below the flight deck on an elevator for maintenance work by the various repair shops.

The shops will be manned by men of the Army's First Aircraft Maintenance Battalion. A civilian crew of the Military Sea Transportation Service sails the ship, which comes under operational control of the Army Materiel Command. Its home port will be Corpus Christi, where the Army Aeronautical Depot Maintenance Center is located.

Records of around 650,000,000 U.S. Savings Bonds are recorded on microfilm by the Treasury Department, so that any Bond lost, stolen or destroyed may be replaced. This service is at no cost to the Bond owner.

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