

Orienteor

DEFENSE MAPPING AGENCY AEROSPACE CENTER

Vol. XXVI, No. 16

August 10, 1984

At Little Rock AFB

Personnel See DMA Data Used in C-130 Simulator

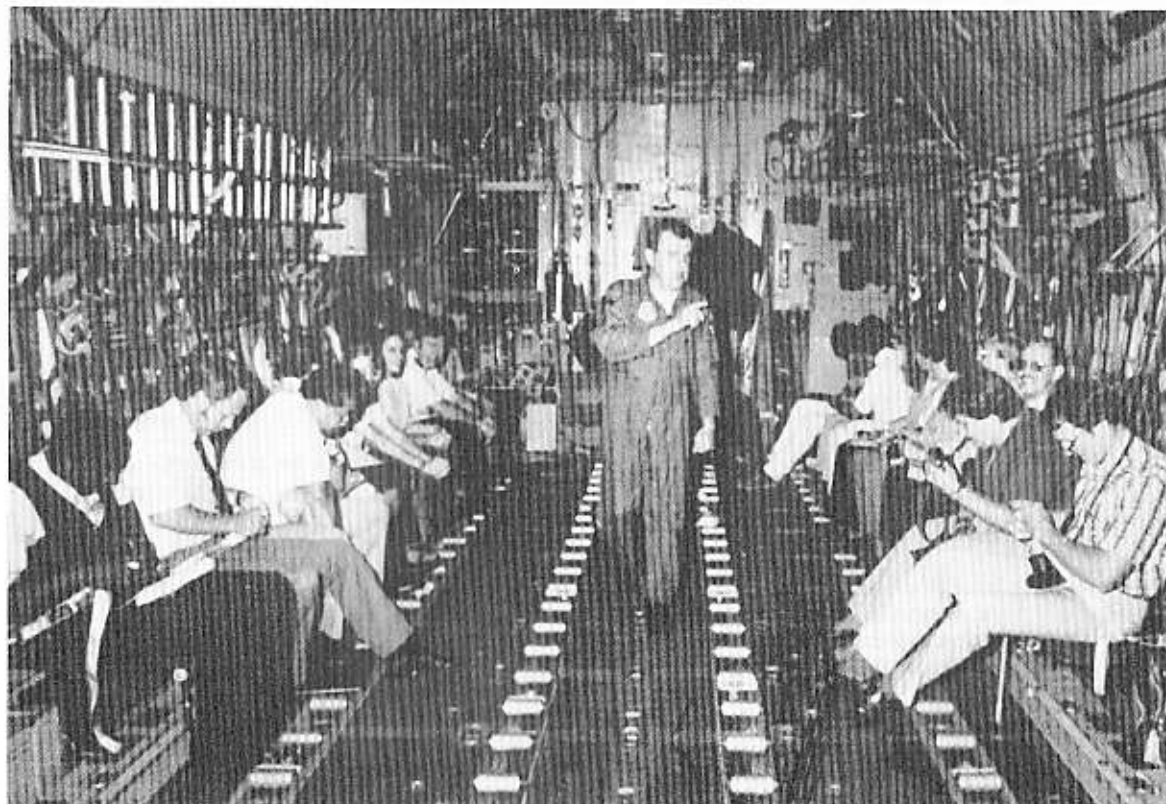
Files Training To Be Offered; Seen as Useful

The records management people believe in what they do. "Secretaries who take our course in files training will get practical experience they can apply immediately to their office," said records manager Carl Maguire.

The course is offered four times yearly, with two separate three-hour sessions scheduled for Aug. 21 and 22 from 8:30 to 11:45 a.m. in Conference Room 2 at 8900 S. Broadway. So useful is the course, Maguire maintained, that 25 percent of a class is typically made up of secretaries who are taking it again as a refresher.

Instructors Betty Forniss and Faye White, both records management analysts, cover the gamut of files management with lectures and handouts. Time is also allowed for individuals to practice filing as they would do it in their own office according to files management principles. For those completing the course, notation is made in Official Personnel Folders.

Individuals wishing to reserve a seat in one of the next two classes should have their supervisors



Not Your Ordinary Flight

A C-130 crew member instructs employees to fasten their seatbelts in preparation for takeoff. Highlight of the trip to Little Rock AFB was a tour inside a C-130 simulator, whose visual displays depend on digital data produced at the Aerospace Center. (Photo by Ed Mullen)

by Paul Hurlburt

"We had to wear earplugs because the noise was deafening," said 1st Lt. James D. Reed, USAF, cartographic staff officer in the Directorate of Plans and Requirements (PR).

It was not your typical flight, by the standards of commercial airlines travel. The accommodations were sparse aboard the Missouri Air National Guard C-130 for its 27 passengers from the Aerospace Center, but no one seemed to mind. The passengers were personnel from the Aerospace Cartography, Geopositional, and Scientific Data departments, the Directorate of Quality Assurance, and PR, with Lieutenant Reed serving as escort officer.

The group left St. Louis for a round-trip flight to Little Rock AFB, Ark. July 16 to see first hand how DMA-produced digital data is used in C-130 flight simulators. The simulators are used for crew training at the Tactical Airlift Operations Center of the Military Airlift Command (MAC) at Little Rock AFB and at other MAC bases.

Initial arrangements for the special trip were made by the Aerospace Center director, Col. Byron S. Fitzgerald, USAF, with the aircraft transportation provided by a crew from the MoANG 139th Tactical Airlift Group of St. Joseph, Mo.

Spaces in 'C' Let To Be Reserved

submit in writing their names, office symbol and telephone extensions to DAP by Aug. 15. Classes are limited to 16 participants in order to allow time for questions.

Visitors from Headquarters DMA and the Hydrographic/Topographic Center are expected to sit in on portions of the upcoming classes. They will be studying the Aerospace Center course for possible application in files training within their own organizations.

The Aerospace Center class is taught in accordance with DMA Manual 5015.1, "Records Management Program."

At least 28 spaces in 'G' Lot, the entire parking area between Buildings 25 and 2, will be restricted for reserved parking, effective Aug. 20. However, Visitors' Parking—that portion of 'G' Lot north of Building 4—is not affected.

Security police officials said the change was necessary because of excavation work to lay pipeline along the south side of Building 12.

Reserved spaces in 'J' Lot along the south side of the building will be moved to 'G' Lot, and the car pools affected will be assigned new spaces. Also affected are a few

spaces on the north side of Building 12, near the extreme western end of the building.

"Open parking will be restored

Kansas City Showing

The Employee Assistance Office has scheduled a showing of the film "Chosen Place" at the Kansas City Office Aug. 30. The film shows how wildlife adapts for survival. It will be shown at 11, 11:30 and 12. Employee assistance specialist Eugene Schwartz will also be available for counseling.

to 'G' Lot as soon as conditions permit," assistant police chief William Lovelady, added. Questions concerning car pools should be addressed to Lovelady.

Due to construction, offices of the police chief and his assistant have also been moved. They have been temporarily located in the trailer next to Building 22 and across from the dining hall. Visitor control, badges and vehicle registration are still in Building 36, just inside the temporary main entrance, while law enforcement officer MSgt. Charles Keeler has moved to Building 4.

cockpit allowed Center personnel to make timely comparisons on their tour inside the C-130 cockpit simulator. And, if the flight to Little Rock was out of the ordinary, the "flight" inside the simulator was no less so.

Little was left to the imagination as visual displays on the simulator's windows moved rapidly in response to manipulation of the simulator cockpit controls.

"We viewed airfields, buildings and terrain. We got shot at by the enemy and had trouble with one engine, but we managed to return safely," Lieutenant Reed said of the simulated flight. Along the way, personnel got the feel of real-life escape-and-evasion techniques aboard an aircraft and experienced a routine takeoff and landing as seen from the cockpit.

Hydraulic arms that shift and rotate the simulator were not used during the demonstration because some people who were standing inside the simulator might have fallen. Nevertheless, personnel experienced a great illusion of motion, due to the movement of images on the cockpit window displays. "It was fascinating," Lieutenant Reed said.

Digital data produced at the Aerospace Center on magnetic tape is used to portray more than 30,000 square nautical miles of territory from the simulator's visual data base. The Digital Landmass (DLMS) data supplied by the Aerospace Center is processed by a transformation program in the Developmental Engineering Prototype Site (DEPS), part of the simulator

Continued on page 3.

Tough Job

A construction worker attacks solid rock in front of Building 36 with a pneumatic jack hammer attached to a back hoe. The project lasted for several days, with its almost constant "rat-tat-tat-tat," heard by many inside the building. "I'll tell! I'll tell!" exclaimed a teller in the Credit Union office. But it was not a confession the construction workers were after. The area of excavation will be used as the basement foundation for the new lobby that will join Building 36 with the new 'E' Wing, seen in the picture. (Photo by Ed Mullen)





Youth employed at the Aerospace Center this summer gather on the parade ground for a group portrait. (Photo by Ed Mullen)

Center's Youth Employment Program Is Valued Partnership

"These bright and energetic young people are providing a much needed service to the Center," stated Marie Simmons, speaking of the youth employed in the Student and Youth Summer Employment Program. Simmons is coordinator of the program for the Aerospace Center.

"The students perform many of the routine duties, which allows our employees the opportunity to concentrate their

efforts on increased production. The youth receive on-the-job training, which helps to prepare them for the working world."

Simmons noted that supervisors of the student/summer aids can have "a great impact in the type of employee the individual will become. They can positively affect the growth potential of the student/summer aid and that is what the program is all about."

The Aerospace Center's

partnership with the community as an employer in the student employment program has been going on for several years with excellent results, Simmons added. One of the participating schools, Beaumont High School in the city, presented her with a certificate of appreciation for the Center's support of the program. She later presented the award to the director, Col. Byron S. Fitzgerald, in a brief ceremony.

This summer there are 53 college and high school students participating, with assignments in AD, CD, CM, DA, FE, GA, LO, PO, PP, PR and SD.

Supervisors receive recognition from the students participating in the year-round program when, at the end of the school year, they are invited to attend a banquet. Four high schools in the city, Beaumont, Roosevelt, Vashon and Northwest, and Normandy in the

county, all hold banquets.

The banquets are frequently attended by Simmons, who describes them as "informative, enjoyable and memorable affairs. The students should be commended for their work and efforts involved in making the banquets a success."

As the students return to school, the *Orienter* takes this opportunity to wish them much success in pursuing their goals.

TEN YEARS AGO . . . Louis E. Brooks was installed as president of the St. Louis Region of the American Society of Photogrammetry by National ASP President Joe E. Steakley. Other officers for the coming year are Jerry Becker—first vice president, Ronald Olsen—second vice president, Joyce Gudiswitz—secretary, and Barbara Elftman—treasurer . . . Arthur L. Ziegler, longtime employee of the Center, retired Aug. 2 to accept a position as the chief cartographer of the state of Wisconsin. (Orientor, Aug. 9 and 23, 1974)

TWENTY YEARS AGO . . . The first-released photos of Ranger VII's closeup look at the moon were eagerly matched to Lunar Aeronautical Chart Number 76.

In Sympathy

Platemaking inspector Joseph E. Kurtak (GAPP) died of an apparent heart attack about 4 a.m. Aug. 1. He had completed his shift at 11 p.m. the previous night and returned to his home in Maryville, Ill.



A Navy veteran, Mr. Kurtak came to the Aerospace Center in January 1951. He leaves his wife Joann and two daughters.

The ACIC-produced chart portrays the area of impact. On Aug. 8 Robert Carder, lunar charting project officer, compared the photos with the lunar chart on the popular television program "Eye on St. Louis." So that you, too, can participate in a comparison, the photos are displayed on the Technical Library bulletin boards in the first floor corridor of the Schauer Building . . . The Industrial League Champion ACIC fast pitch softball team closed out their regular season Aug. 12 by smashing the Army Support nine 7-0. Bill Miller won his seventh game and fifth shutout by scattering four singles, striking out 14 and walking no one. The ACIC nine broke open the game by scoring five times in the first inning. Singles by Mac Stephens, Rog Robinson and a bases-loaded triple to right field by Ernest Wheeler were the big blows that put the game on ice. (Orientor, Aug. 21, 1964)

THIRTY YEARS AGO . . . Now that we're heading into the stretch of 1954, Civilian Personnel reminds us of the requirement to use a minimum of six days of excess annual leave before the end of this year. Under Public Law 102, passed by the 83rd Congress, heads of departments and agencies have been directed to take action to reduce annual leave accumulations in excess of the 30 days allowed under the new law . . . (Orientor, Aug. 6, 1954)

The Missouri Air National Guard base at Jefferson Barracks has been stepping up its recruiting efforts.

"We're looking for a few good men and women to take on the most important part-time job in America," said recruiter MSgt. Don Allen. Additional defense responsibilities given to the Guard have led to openings in radar, communications, electronics, food service, administration, and others, he said.

Guard members are required to attend unit training assemblies (UTA's) one weekend per month at a pay rate equivalent to eight hours for every four hours of duty at their military rank.

Guard members are also required to spend 15 days on paid active duty each year for training. Civil service employees generally receive paid military

leave during this active duty time. During the last two years, many of the Guard members have traveled to other states and countries for their active duty.

"The Air National Guard provides 50 to 60 percent of total Air Force strength in the communications and electronics field," Sergeant Allen said. "We are required to meet the same high military standards required on full-time active duty. The jobs are challenging. In some cases, the training schools for those without previous military training are long. However, those who stick it out soon see that the benefits of pay, travel and adventure are well worth it."

For information, contact Sergeant Allen/8613 or SSgt. Dave Christoff/8614.



GRADUATES OF ORIENTATION PROGRAM FOR CARTOGRAPHERS AND GEODESISTS. Class 84-E, are pictured. Seated, from left: Robert Berry — University of Wisconsin-Madison, Katie Becherer — Illinois State, Anne Jensen — University of Kansas, Judy Cooper — Southeast Missouri State, Jamie Pervis — Gonzaga University (Wash.), Mark Dreher — Indiana State, and James Williams — Bowling Green State (Ohio). Standing, from left: Ralph Farmer — Western Illinois University, Steve Erickson — University of Wisconsin-Stevens Point, Steve Isenogle — University of Southern California, Chad Miller — East Central University (Okla.), Jim Norberg — South Dakota State, Doug Morrison — Ferris State (Mich.), Kenneth Korzym — Western Michigan University, Mike Brown — University of Missouri-Kansas City, David Brophy — University of Wisconsin-Madison, Ron Eischen — Pennsylvania State, Hal Smith — University of Central Arkansas, Bill Lutz — University of Akron (Ohio), Bruce Hall — University of Kansas, Tony Ferguson — South Dakota State, and Frank Galbreath — University of Illinois.

EMPLOYEE RETIREMENTS

FRED F.W. BROWN, chief of the Graphic Design Branch (SDRG), retired July 31 with 30 years of federal service. Following military service during the Korean War, he joined the Aeronautical Chart and Information Center in 1956 as a carto aid in Shaded Relief. Concerning his retirement, he said he plans to "swim in my new pool and relax for two to three months."

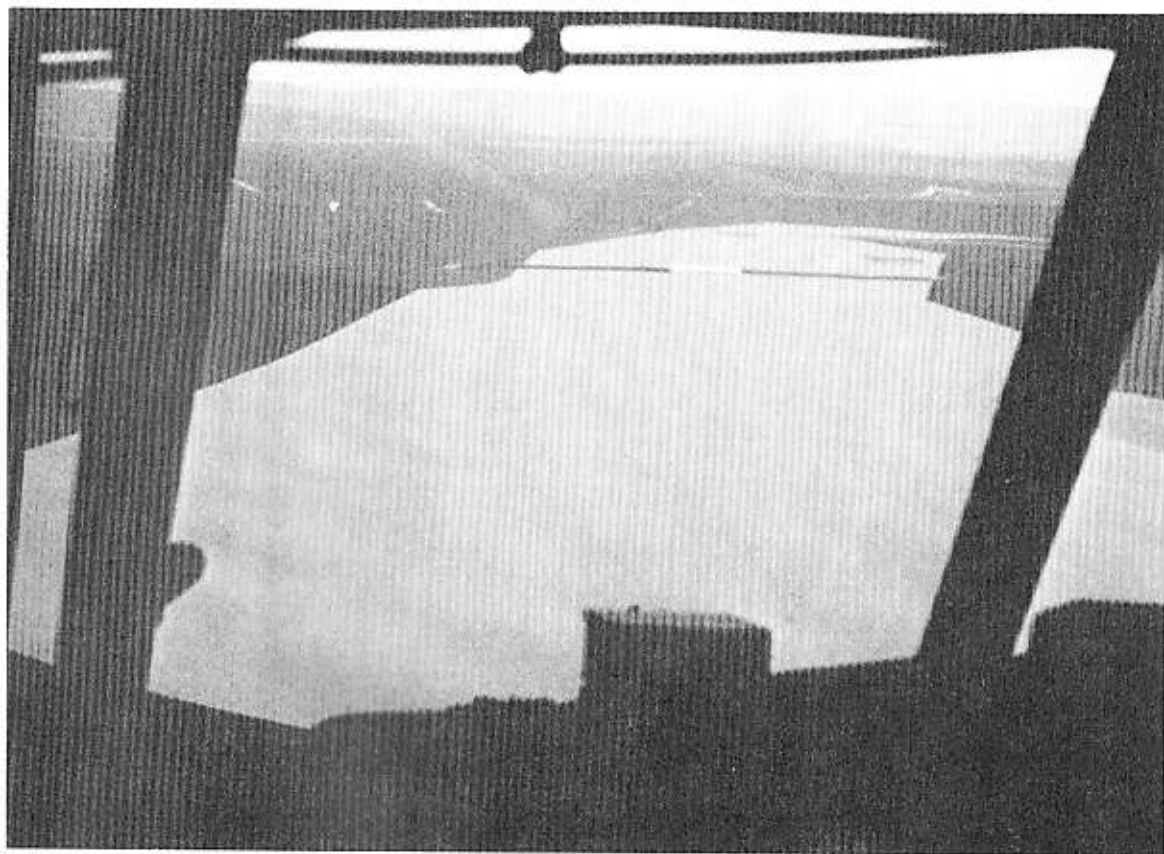
REINHARDT (REINE) F. BERGMANN (STS), cartographer, retired July 3 with more than 36 years of federal service, beginning in April 1948 in the Photogrammetry Division of the Aeronautical Chart Plant. Except for two years in the Army performing intelligence work in the U.S. and Germany, his early years were in the Photogrammetry Division. In 1958 he was appointed chief of the Program Integration Unit of the Plant Production Office. Later he served in the Directorate of Operations as senior project officer and representative on an ACIC/contractor working group for the development of program management systems.

Reinhardt became program manager in the Directorate of Programs, Production and Operations after the formation of DMA in 1972. In this position, which he held some 11 years, he was responsible for the development, implementation and maintenance of production program management systems. Since April 1983 he has served as program manager for operational management systems in the

Directorate of Systems and Techniques SPOEM Technology Integration Division. Regarding retirement, he said, "My short-term plans include adjusting to the retirement lifestyle and catching up on some real property improvement projects."

WALTER E. LEWANDOWSKI (ADPF), aeronautical information specialist, retired July 3 with more than 30 years of federal service. He served some five years in the military following his induction into the Missouri Air National Guard 110th Observation Squadron in December 1940. His assignments took him to Europe as an air support communications specialist and he was discharged with the rank of master sergeant. He began his civil service at the Aerospace Center in October 1960, serving in the Aeronautical Information Department as an analyst and later as program manager in department's Production Management Office. "The position as program manager has been most gratifying and utilized my efforts to the fullest," he said. "I will miss my many friends here." For retirement, he plans to "enjoy the family and keep active with part-time employment, thanks be to God."

PAUL E. NALLY (POW), position classification specialist, retired July 3 with 24 years of federal service. A World War II veteran, he was a B-17 pilot with Eighth Air Force in England from 1942-45. He joined the Aeronautical Chart and Information Center, now the Aerospace Center, in 1963.

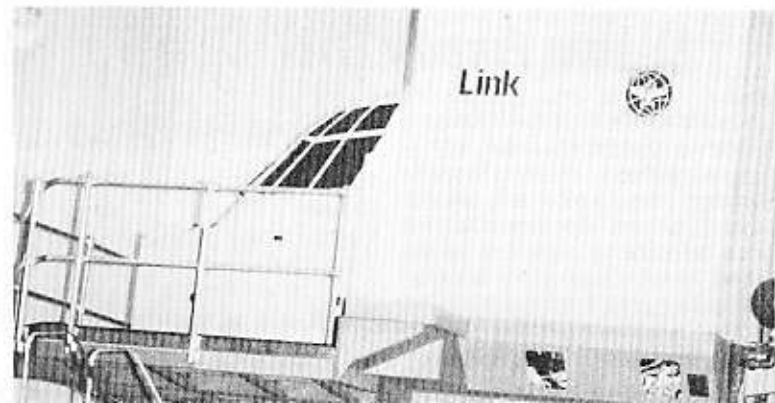


Transformed DMA data is used to produce this cockpit display in the C-130 simulator.

Personnel See Data Used In Simulator

Continued from page 1.

complex. The result is a visual data base that can portray countless terrain shapes and elevations from the perspective of a cockpit in a full-color, realistic format





Present Junior Achievement advisors are seeking the help of fellow employees as they embark on another year of activity. From left: Evelyn Sanders/SDDS, Walter Fisher/SDDS, Rochelle Cornell/SDCA, Johnetta Lowe/CDIAD, Allen Williams/GDMBD and Barbara Tabb/GDLAC.

JA Advisors Needed

The Aerospace Center has sponsored Junior Achievement companies for a number of years. But in order for us to continue this involvement, we desperately need your help.

Junior Achievement is a very worthwhile program that tries to instruct high school students on the "in's and out's" of this country's free enterprise system. But it takes adult advisors to really make this program work successfully. Advisors are needed who are willing to give two hours each week in order to organize the Achievers and get them pointed in the right direction.

If you have some fresh ideas for products or if you are interested in becoming an advisor, contact Walter Fisher/4005 or Evelyn Sanders/4084.

—Johnetta Lowe,
Junior Achievement Advisor

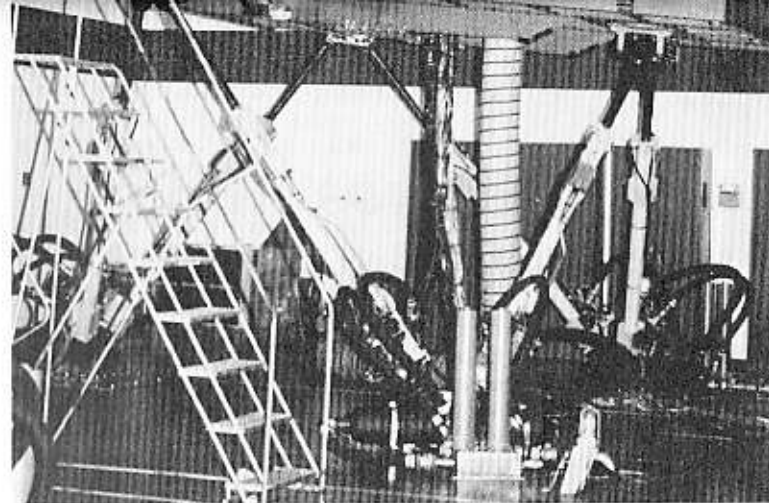
...described as one of the most powerful special purpose computers ever built, provides the specific scenarios needed for a crew training session. As the computer supplies these images, it also introduces enhancements, as desired, including aircraft landing lights, weather and daylight effects, and "threat effects," such as surface-to-air missiles. Up to three independently programmed companion aircraft can also be provided for the displays, allowing crews to practice maneuvers used in formation flying.

The displays are portrayed on CRTs located outside the simulator cockpit at 10 separate window positions. Each of these independent scenes is determined by instantaneous computations by the image generator of aircraft speed and altitude, giving a convincing impression of continuous movement.

DLMS data is used not only for visual displays but also for radar simulation. The visual simulation is correlated with the radar simulation to provide realistic training in an all-weather, low-altitude environment.

While at Little Rock AFB, Center personnel saw air crews training inside the simulators, which, briefers told them, are used up to 20 hours a day, seven days a week. Of the ten C-130 simulators in use by MAC, not all have visual capabilities at present; however, most will in the future, briefers said. The Little Rock facility graduated some 2700 DoD and allied nation air crew members last year.

In addition to the cockpit simulator tour, personnel from the



The C-130 flight simulator is built by the Singer Link Co. Hydraulic arms provide motion. The cockpit window visuals are provided by CRTs (not shown), placed outside the cockpit windows. (Photo courtesy of Little Rock AFB)

Aerospace Center toured the Developmental Engineering Prototype Site, where Center-produced DLMS data is transformed into the visual data base. They also toured the image generator facility and a replica C-130 navigator station used for training.

"Comments from people on the ride back indicated that they really thought it was worthwhile; they really enjoyed it," said Lieutenant Reed. "The whole idea was to give a picture of the end result of all our efforts here at DMAAC. From that point of view, the tour was a success."

For the many who volunteered

for the trip but couldn't be accommodated, there may be another. "We're working on it," said Lieutenant Reed.

THE ORIENTOR is an official newspaper published bi-weekly on Friday by and for the personnel of the Defense Mapping Agency Aerospace Center, at St. Louis, Missouri, as authorized by DoD Instruction 5120.4. Opinions expressed herein do not necessarily represent those of the DoD.

Col. Byron S. Fitzgerald
Director

David L. Black
Chief, Public Affairs Office

Paul Hurlburt
Editor



CAJUN SWING—Paul Kohnen of the Cajuns smashes one of his many blasts of the season against the Samurai, as teammate Steve Wallach looks on from the deck circle. Standing in the background, from left, are Joe Wilson (Cajuns), David Hochstetter (Lopes) and Jim Quick (Cajuns). (Photo by Gerald Masucci)

Cajuns Finally Lose One But Still Cap League

The Competitive Softball League finished the regular season with a few surprises. In the biggest surprise, the Cajuns got caught looking toward the play-offs and were defeated by a red hot Lynch Street Regular team 15-13. In a fine team effort, the Regulars were led by Jeff Siudzinski's 4 for 4. Tom Berra went 3 for 4 and pitched an excellent game for the victory.

Final Standings

Team	Won	Lost
Cajuns	13	1
Yukon Jacks	12	2
Toxic Shock	10	4
Lynch Street Regulars	9	5
Punks	7	7
Panthers	7	7
Samurai	7	7
Misfits	14	0

The opening round of the single-elimination tournament has the Lopes at the Mustangs, with the winner taking on the Cajuns; the Guided Muscles at the Punks, with the winner facing the Lynch Street Regulars; the T-Birds at the Panthers, with the winner moving on to meet the Toxic Shock; and the Wombats at the Samurai, with the survivor challenging the Yukon

Misfits End Unbeaten As Rec League Closes

The Misfits closed out the season with a perfect record, 14-0. Bottoms Up had them down 13-4 in the fourth, but the Fits battled back with the help of Mark Baroli, Bill Small and Al Lutes to squeak by in the bottom of the seventh, 14-13. The Fits handled the Photo Flashers in five innings 20-6, with Ken "What Fence" Whitfield and "Shoot to Kill" Hampton teaming up to lead the offensive punch.

The Master Batters finished off their season by rolling over the Wonies 12-2 in five innings. Randy Reinker provided a timely home run, with good hitting by Dan Snowden and Rick Poropat.

Who's on First came up with one win and a tie in their last outings. Running over the Foul Balls 14-4 in five innings, they stretched their winning streak to 11 straight, with Hank Nelson hitting two home runs and Rick Bartel one. Then, in their last game, the Who's were leading the Warriors 9-0 after two innings when the Warriors rallied for 6 runs in the third and 4 runs in the fourth to take the lead. The Who's battled back to tie in the sixth. The game remained tied with bases loaded and two outs for the Who's when Tim Miller smashed one out to left field. But the Warriors held on to the tie when Rich Simpson made a fantastic catch to end the game. In a previous game, the Warriors also let Bennie's Pit go ahead 8 runs before Jerry Masucci and Jim Heimerl connected for home runs to help in a come-from-behind victory 12-10.

any offense, fell 17-5.

The Cougars, with only one win going into the last couple of games, won the pair by defeating the Foul Balls 12-8 and the Spitballers 11-8. The Good Ol' Boys completed the season at .500 by winning 3 out of their last 4. Wins were over the Deacon Blues 17-12, Cougars 20-14 and Foul Balls 10-7. In the last game, Fred Johnson hit two triples and a home run resulting in five rbi's for the Ol' Boys.

—Dave Huddleston

Team	Regular Season Won	Final Standings Lost	Tied
Misfits	14	0	
Master Batters	12	1	1
Who's on First	11	2	1
The Day After	9	5	
Twins III	9	5	
Warriors	8	5	1
Deacon Blues	8	6	
Buffalo Chips	8	6	
Photo Flashers	7	6	1
Good Ol' Boys	7	7	
Foul Balls	6	8	
Bottoms Up	4	10	
Bennie's Pit	3	9	2
Spitballers	3	10	1
Saturday Knights	3	10	1
Wonies	3	11	
Cougars	3	11	
Zeroids	3	11	

make it

improved their play-off position by downing the Panthers, and the Guided Muscles finished the season with a forfeit win over the Lynch Street Regulars.

Lopes	5	9
Wombats	4	10
T-Birds	4	10
Guided Muscles	1	13

The championship game is slated for Wednesday, Aug. 15 on Diamond 2 at 4:50. Come on out and support your favorite team.

—Roger Greenland

The Twins took up the tournament by defeating their last two opponents. The Deacon Blues fell first 21-14, despite two homers by the Blues' Tom Morrow. Then the Warriors, who couldn't muster



No Upsets as Women Finish League Play

It went down to the last games to decide the final standings in the Women's League. Diamond Blues and the Rednecks played for second, with the Rednecks coming up on top with a 13-9 win. The Ramblers secured fourth place defeating Plum Crazy. The Chips remained in fifth, even though they lost to Kelley's Girls, as Plum Crazy also lost. The team beating Babe's Ruthless was Spanky's Gang, whose victory kept them out of the cellar.

The tournament should be close, with no margin for error, being that it is single elimination.

—Lisa Webber

Team	Regular Season Final Standings		
	Won	Lost	Tied
Kelley Girls	13	1	
Rednecks	9	3	2
Diamond Blues	9	4	1
Ramblers	7	5	2
Chips	6	8	
Plum Crazy	5	9	
Spanky's Gang	3	11	
Babe's Ruthless	2	11	1

AC Toastmasters Elect Officers

The Aerospace Center Toastmasters Club has announced the election of new officers. They are Cal Morgan, president; Carl McDowell, educational vice-president; Ken Whitfield, administrative vice-president; Rubbie Manson-Heron, secretary; Vern Debruler, treasurer; and Promise Taylor, sergeant-at-arms. The installation ceremony was conducted by Toastmasters Area 15 Governor Tom Kirkpatrick with

AC Director Col. Byron S. Fitzgerald present as a guest of the club.

In a report on the Area 15 meeting Rubbie Manson-Heron noted that the Ralston-Purina Club is planning to use videotape as a means for club members to improve their performance. It was reported that the Defense Mapping Toastmasters of HTC already use the technique.

Swatters Emerge, Bags Drop in Tennis

With 10 points up for grabs, there were only three points separating the top four teams in the DMAAC Tennis League. It certainly has

been an interesting season!

The Body Bags were knocked out of first place by the Ace Stokers after holding onto first for most of

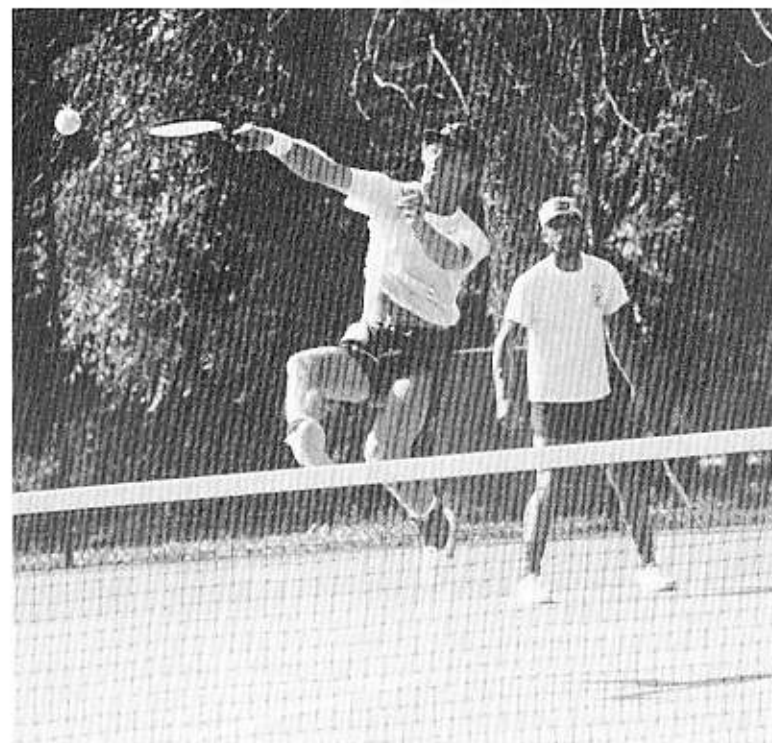
the year. The Body Bags won 4 points and lost 6 in two weeks, while the Ace Stokers won 9 and lost only 1.

Bob Jones' Flyswatters, however, made the biggest move. In two weeks, the Flyswatters leapfrogged from fifth place to tie for second with two 5-0 victories.

The R-Team fell from third to fourth place but could still be a dark-horse contender for the title. Vicki's Volleys are still in the running, but it looks like it will take a miracle for them. The only teams mathematically eliminated are the Aluminum Heads, Ryan's Hopeless and the Thrillers.

Sometime after the end of the season, when the smoke has cleared and all the final results are in, the DMAAC league is planning an awards presentation and party at Tower Grove Park. When a date is set, league members will be contacted as to time and place.

—Steve Hagedorn



WINNING EFFORT—The Body Bags' Mark Sorum recoils from the effort expended in hitting an overhead winner as Andy Podleski stares incredulously at the agility of his teammate. (Photo by Mary Beth Farrar)

Standings as of July 31

Team	Won	Lost
Ace Stokers	37	23
Flyswatters	36	24
Body Bags	35	25
R-Team	34	26
Vicki's Volleys	30	30
Aluminum Heads	25	35
Ryan's Hopeless	23	37
The Thrillers	20	40