

Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER



Photo by Jim Stepanik

Workers cover a gym floor with Jet Navigation Charts in preparation for "The World Game."

Players Put Charts to Unique Use

DMA Jet Navigation Charts are normally used by military aviators to plan worldwide flights, but on a recent Saturday afternoon at St. Louis Community College at Forest Park, these charts were put to a different use. To play "The World Game," designed by the late social scientist Buckminster Fuller, members of Clergy and Laity Concerned spread the maps out on a gym floor to represent the surface of the Earth. "There was no overlapping," observed DMAAC photographer Jim Stepanik. "It was like taking a round map of the globe and cutting it into sections so it would lay flat."

Members of the public were invited to play the game, in which the players, representing the Earth's population, bargained with groups in other areas of the "world" for the limited resources available. Loaves of bread represented food and flashlights represented energy, with plastic chips representing weapons among the bargaining tools.

Continued on page 4.

Inside

Vol. XXIX, No. 11
May 27, 1988

Suggested Family Day tour will give visitors "basics" of DMAAC production—page 3.

General Durkin discusses the challenges of MARK 90—page 4.



Becomes Telecommunications Services Center

DMAOTS Has Moved Quickly in 3 Years

By direction of Maj. Gen. Robert F. Durkin, DMA Director, the Office of Telecommunications Services became the Telecommunications Services Center last month, just one month after its third anniversary as an organization.

As OTS, DMATSC has moved quickly to establish effective management control and operational direction over communications systems that link DMA activities worldwide. Cutting a birthday cake during a luncheon at the organization's facility in Reston, Va., Dr. Annette J. Krygiel, DMATSC Director, praised the staff for its achievements in the three short years of its existence. During this time the work force grew from four to 58.

Formed to provide development and consolidation of telecommunications for all of DMA, the Center is responsible for all aspects of this undertaking: requirements

definition, design, engineering, operations, maintenance, security, and quality assurance. Only local systems allocated to the internal control of the DMA components and their field activities are excluded.

OTS augmented the initial communications subsystem of MARK 85 and successfully implemented the initial phases of the Integrated DMA Telecommunications System. This system provides dedicated, long-haul connectivity, at varying security levels, to both the production and mission-support functions of the DMA production centers and field offices.

Primarily to support crisis management, a secure-voice program (Secure Telephone II) was implemented in the continental United States and overseas. OTS also began implementation of a program to replace existing secure phones throughout DMA with STU-IIIs and the DMA secure-voice exchange network. It also spearheaded implementation of the Defense Data Network within DMA and the Worldwide Military Command and Control System. Terminals of this system have been installed at DMA Headquarters, the Aerospace Center, Hydrographic/Topographic Center and Combat Support Center.

De la Pena New Chief of MC

Edward E. de la Pena, chief of the Programs Integration Division (PPI), has been reassigned as chief of the Mapping and Charting Department. He succeeds Lawrence Knopfel, who has been reassigned to the Programs Integration Division at Headquarters DMA, Washington.

De la Pena came to the Aerospace Center in 1962, following duty with the Sixth Army at Fort Baker, Calif. He was a division-level production office chief in

Missile Support before joining the Aerospace Cartography Department, serving as a department program manager, chief of the Imagery Analysis Division Production Management Office, and chief of the Kansas City Field Office. He earned his B.S. from Texas Tech and his M.A. in management from Webster University.



Six Promoted to Division Chief

Six employees from the Aerospace Center and the Reston Center have been promoted to division chief in the Data Services Department.

At the Aerospace Center, **Sandra Daniell** has been promoted to chief of the Data Management Division (DSM) and **Larry Stratton** has been promoted to chief of the Computer/Communications Division (DSC).

Three other Aerospace Center employees have been promoted to division chief within the Data Services Department at the DMA Reston Center in Reston, Va. They are **Roy (Dwayne) Kindsfather**, **Joseph Pfeifer** and **Paulette Wells**.

In addition, **Peggy Furgerson** of DMARC was promoted to division chief at DMARC.

Direct Deposit Wins Popularity

Three out of every four DMA employees take advantage of a payroll service called the "Direct Deposit Program." The program electronically transfers employees' salary payments into a personal checking or savings account at a financial organization of their choice.

DMA employees benefiting from the program like the convenience of having their money automatically deposited to their accounts at the opening of business on payday. Direct deposit also eliminates the danger of theft or loss of checks and allows employees the freedom to vacation or travel at anytime. Employees who use the Direct Deposit Program save the government money by eliminating check-processing costs, postal fees, and overhead expenses.

If you receive your check at home or at work and would like to take advantage of this service, complete Standard Form 1199A, "Direct Deposit Sign-Up Form."

At the Aerospace Center, the Payroll Branch (CMFC)/4316, can provide forms and assistance.

Correction

The April 29 issue of the *Orienter* incorrectly stated the smoking ban was the result of an agreement between the Center and Local 1827 of the National Federation of Federal Employees. The article should have stated that the smoking policy, not the ban, was the result of a negotiated agreement.

The new smoking policy provides smoking areas in several buildings and the outside covered facilities for employees who choose to smoke.

On Family Day

'Highlights' Tour Will Show Production Line in Action

For those desiring to see the Aerospace Center's cartographic production line in action, on Family Day June 11, the following "highlights" tour is recommended. The tour will take approximately two hours.

Start with the "DMA on the Mark for Tomorrow" video presentation in the 1C conference room of Building 36 to get an overview of DMA's mission. Then walk into the E-Wing hallway and take the stairs to the basement to the extreme southern end and the Scientific Data Department photo lab area. While in the basement, see the stereo comparator in operation in the BD section. Come back up the stairs to the first floor of E-Wing to see the Data Services Department main-frame computer in section 1E.

Next, take the E-Wing elevator to the third floor A-section (exit using the 3C button) to see the feature-extraction operation in the Digital Products Department. The AS-11 stereoplotters can be seen on the fourth floor, D-section, and the Clustered Processing System on the fifth floor, A-section. (The center and D-section stairwells provide access between floors.)

A trip to South Annex is next. Start in the east end of Building 89004 to see the production of Flight Information Publications and navigation/planning charts. Just past the dining hall, the Data Services Department will have their computer and plotter rooms in operation.

As a finale, be sure to visit the Graphic Arts Department in Building 89002. There you will see the large five-color press in operation and demonstrations of cartographic products being trimmed, folded, and readied for distribution.

While this tour is not all-inclusive of the entire process of supplying the volume of digital and paper products to DMA's customers, it gives "basics" and an appreciation of the highly skilled and important work accomplished at this Center everyday.

Help Wanted

If you have a couple of free hours Saturday, June 11, and possess SCIF access, the Family Day committee would like to talk to you. The committee is seeking volunteers to serve as escorts for those without access clearance, including fellow DMAAC employees, their families, and a group from the Aerospace Charting Seniors. Those wishing to volunteer should contact Jim Mohan in the Public Affairs Office at 4142.

There is also a need for two escorts (one at 3200 S. 2nd Street and one at 8900 S. Broadway) to serve as guides for a tour for hearing-impaired employees and guests. Escorts should have a general knowledge of the production process and be familiar with the layout of the installation. The Employee Assistance Office will provide sign-language interpretation. Call the Public Affairs Office.

MC Leads Center To Predominant Role in Food Drive

According to program organizers, the "Spring into Action" food drive this year was the most successful ever. Over 9,000 pounds of food were donated to the Federal Executive Board food-gathering effort. But the story is how the Aerospace Center was responsible for over 6,500 pounds, or 72 percent of the total.

The lion's share of the credit goes, however, to the members of the Mapping and Charting Department, who almost single-handedly raised the fine Aerospace Center contribution.

MC went all out for the 1988 campaign. First, the department selected its own chairman, Ron Smith (MCBAB), who in turn formed a committee to muster support for the drive.

There was a lot of good-natured competition between sections, and chairman Ron Smith also made special arrangements for St. Louis Area Food Bank spokesman Paul Hartke to address the department. The Food Bank is the recipient of the FEB food-collection effort.

Hartke told the members of MC about the critical need for food year-round, but especially in "down times" like spring. "We receive plenty of food during the holidays, but in the spring

Continued on page 4.



Ron Smith (left), food drive chairman in the Mapping and Charting Department, and former MC chief Larry Knopf hand a box of canned goods to Paul Hartke of the St. Louis Area Food Bank. "Spring into Action" was the theme of last month's food drive, sponsored by the Federal Executive Board, and members of MC really took to the task.

...Food Drive

Continued from page 3.

and summer we all seem to forget about those who really need our help. Right now our supplies are getting pretty low," Hartke said.

During his talk, Hartke said that the Food Bank especially needed certain items, such as canned meats, sugar, and paper products like disposable diapers. "So that is where we put our efforts," said Ron Smith.

And those efforts paid off in a big way. When the final tally was in, the MC collection, along with other Aerospace Center contributions, accounted for almost three-fourths of the entire federal contribution. As one food drive organizer said, "DMAAC really took the theme 'Spring into Action' to heart."

...Jet Charts

Continued from page 1.

The purpose of the game is to show that "there is enough of all the resources in the world for everyone, but we need to learn how to allocate and use them in the right way," said John Baltzer, project organizer, in an interview with the South Side Journal.

This funded newspaper is an authorized publication for personnel of the Defense Mapping Agency Aerospace Center. Contents of the Orientor are not necessarily the official views of, or endorsed by, the U.S. Government, the Department of Defense, the Defense Mapping Agency or the DMA Aerospace Center. The editorial content is edited, prepared and provided by the Public Affairs Office of the DMA Aerospace Center. Address all communications to

DMA Aerospace Center
Editor, Orientor (PA)
3200 South 2nd Street
St. Louis, MO 63118-3399

Col. Robert J. Lemon, USAF
Director
David L. Black
Chief, Public Affairs Office
Paul Hurlburt
Editor

Charting a World of All-Digital Maps

DMA Must Take a Global View and Distill the Minimum Data Needed

--Major General Durkin

EDITOR'S NOTE: The last of a series of excerpts from an article about the Defense Mapping Agency by Maj. Gen. Robert F. Durkin, DMA Director, follows. The article appeared in its entirety in the March-April issue of Defense '88.

A wide variety of efforts are under way to ensure an appropriate transition into the Mark 90 production mode in 1992. The Mark 85 and Mark 85.1 initiatives satisfy immediate requirements for digital information; more importantly, they will lay the groundwork for an orderly transition into the Mark 90 era, from source through product all-digital generation and dissemination into the field.

It is anticipated that the emerging Mark 90 data base to be developed by the Defense Mapping Agency will be huge, on the order of 100 million gigabits, or 10 to the 17th power. That is more information than is stored in 400 million college textbooks. When the Mark 90 era is in full form, information from this base will be extracted selectively by the agency to meet unique requirements of individual weapon systems or DoD operational elements.

In the mid-1990s, Mark 90.1 initiatives will transmit high-volume digital data with rapid retrieval software on CD ROM or other high-density media for field utilization and manipulation.

A significant element of the Mark 90.1 concept is the concept of "value adding," which can enhance tremendously the utility of digital mapping, charting and geodetic (MC&G) products. Operators in the field have a growing capability to enhance basic DMA geographic data with additional detail—such as

more accurate feature detail and positioning and, of course, local intelligence information. Return of the updated MC&G information to DMA will be vital. Upon verification and rectification, the upgraded information may be rapidly transmitted to other users.

Here again, standardization is critical. The ground commander, his air support and his intelligence resources must be "playing from the same sheet of music" at all times. This can be assured only through adoption of and conformance with rigorous data specifications.

A major new part of the Mark 90 dissemination phase—the deployable digital data base program—will incorporate layering and regionalizing resource material in digital or digitized form on high-density media, such as CD ROM. The "layers" in the deployable digital data base product may include digitized terrain elevation data and features analysis data, digital point-positioning data bases, place-names data and symbolized graphics data.

Additional software will permit interactive geographic information display, generation of perspective scenes and additional elevation extraction software—such as vertical obstruction data on trees and powerlines.

To print out paper versions of the data, a deployable version of a multicolor printer is being designed by the Army's Engineer Topographic Lab to take digital data and rapidly produce full-sized "xerographic" color copies of maps or other large products for local distribution.

Most importantly, DMA will provide guidance for emerging products. To help do this, the agency conducted a symposium for military department users, and it was a major element of the DoD



"We are all in this together," says Major General Durkin, stressing the need for effective communication.

MC&G and Conference last fall.

All major commanders have received an offer to hear DMA briefers, and it has also been proposed that the agency, services and the commanders in chief establish a senior officer steering committee to review Mark 90.1 development, coordinate related developments in the services, and ensure that both encompass the needs of the ultimate users.

While Mark 90 will at least double output of our most critical products, a mismatch between requirements and the capabilities of the DMA may continue into the late 1990s. The degree of this mismatch will depend upon the appetite of new weapons for agency data. All indications are that their appetite will be considerable.

We are undertaking several efforts to alleviate the requirements mismatch, including a thorough general-requirements scrub by the user community. Results are encouraging. While 1986 requirements grew some \$170 million, this year requirements dropped \$25 million

from the prior year's level.

Further, we have emphasized the need for all military users of DMA products to prioritize carefully their real needs. The agency will produce to those priorities.

Beyond that, we have urged all military users of DMA products to employ digital MC&G exchange standards.

Data beyond DMA standard sets will be required for emerging smart and brilliant weapon systems. We must look at our requirements in a global sense, from which DMA distills the minimum data needed. We cannot afford to create and maintain system-unique data.

This past August, the Joint Requirements Oversight Council of the Joint Chiefs of Staff gave its go-ahead to military standards as a tool to control proliferation of digital MC&G solutions; the first military standard should appear shortly.

A revision to DoD acquisition directives, issued last September, caused programmatic steps to be inserted to assure closure between MC&G data bases and parameters

of systems under development. System managers will have to use standard data, formats and media or demonstrate the need for—and fund—unique solutions.

Certainly, difficult and even disagreeable decisions are facing both the agency and military users of its products. As DMA Director, I am charged with making many of these decisions—and will do so.

But we are all in this together. Effective communication between DMA and supporting and supported organizations is the key to decisions that mesh our mutual interests.

Within constrained resources and ever-increasing requirements, we at DMA are incorporating increasing knowledge of the user community, better use of the total MC&G support system, and every technological resource at our disposal to provide timely, tailored information to our combat commanders, who must have this data to effectively employ their forces and associated navigation, weapons and command and control systems.

Honor Roll

45 YEARS

John T. Wilson

40 YEARS

Robert J. Barker
Charles A. Bush
Albert Ruck

35 YEARS

Mildred M. Dillon

30 YEARS

George T. Gielow
Harold M. McCullough
Doris J. Sovar
Laurance Sulze

25 YEARS

Douglas W. Holleman
Muriel A. Huhmann

20 YEARS

Elmer W. Brewer
Leon K. Kappelmann
Thomas E. Lanham
Albert L. Manson
Sandra A. Wallace
E. Faye White

Outstanding Performance Award

Gregory S. Anderson
Audrey R. Atkins
Barbara K. Bick
Donald V. Burgett
Alvin W. Couch
Billy R. Crabtree
Earl D. Degonia
Joseph D. Dixon
Steven W. Dixon
William J. Fiedler
Robert A. Finneran
Mary Ann Glosecki
Karen S. Goff
Chris A. Hamby
Jean M. Kaiser
F. Claudine Leara
Jackie G. Leathers
Albert L. Manson
Mary M. Martie
John H. McCants, Jr.
Lois M. McGruder
Kathryn E. Meder
Cleophas Merkson
Randall T. Moreno
Timothy K. Murray
Randy D. Pratt
Linda K. Pratte
David M. Schaefer
Victor J. Stragliati
Mary Lou Valenti
Willie J. Whitten
Barbara J. Willsey
Ralph H. Wolf

Outstanding Performance Rating/ Quality Step Increase

Claire Andracsek
Rose M. Bird
Susan K. Enke
Deborah A. Grote
Wayne E. McClure
Charles E. Squires
Gayle E. Vaucher
Delois L. Westbury

Outstanding Performance Rating/ Sustained Superior Performance

Ladon F. Bernhardt
Yvonne D. Clark
Janette Fisher
Perry D. Harris
William J. Hufnagel
Raymond L. Hunt III
Enos O. Jenkins
Keith R. Lorence
Kenneth E. Mack
Michael F. Moretto
Wanda J. Shoemaker
Christine L. Stegall
Carla M. Wertenberger

Outstanding Performance Rating/ PMS Employee Performance Award

William G. Clark
Gary G. Hofmaster
Wilbert L. Lang
Alfred E. Leuschner
Peggy L. McIntyre
Michael L. Pilger
Donald D. Schmidt

PMS Employee Performance Award

Denis L. Bagsby
Albert A. Dishon
Paul W. Goss
Jeffrey A. Haase
George M. Kroening
John S. Mikolay
Cleveland R. Mooney
Steven H. Olive
Elaine M. Schlueter
Catherine Ann Shanks
Deborah J. Sterling
Richard H. Van Meter

Special Act or Service Award

Robert S. Lachance
Betty J. Stutzman

Suggestion Awards

Anne P. Kennedy, \$601
Nicholas C. Parker, \$601
Eric D. Roush, \$25
Bradford J. Slavik, \$25
Linda K. Zimmerman, \$25.
Michael W. Jones

Model Installation Program Award

Jeffery M. Saxton, \$625

MILITARY AWARDS Joint Service Achievement Medal

Major Wayne M. Hesser,
for exceptionally meritorious
achievement as executive
officer of the Defense Mapping
Agency Aerospace Center.
* * * *

TSgt. Dennis C. Dotter,
for outstanding achievement
while serving as physical
security manager, Directorate
of Security, Defense Mapping
Agency Aerospace Center.

Meritorious Service Medal

Major Richard E. Sabo,
for outstanding service as
operations officer, Det. 3,
1402nd Military Airlift Sq.,
375th Aeromedical Airlift
Wing, Maxwell AFB, Ala.
* * * *

Capt. Robert A. Linscott,
for outstanding service as
radio systems communica-
tion engineer and chief of the
Electronics Branch, 1836th
Engineering Installation
Group, Lindsey Air Station,

Promotions

Bentrup, Robert, GM-13
Boyd, Jimmy W., GM-15
Coambes, Robert J., GM-15
Dabbs, James D., GM-13
Dowell, William E., GS-11
Finch, Gregory A., GS-9
Hunter, John B., GS-11
Jones, Beverly L., GS-12
Maxson, Anita G., GS-5
May, Thomas P., GS-11
Mays, Debra L., GS-11
McAffrey, Linda A., GS-9
McGinley, George F., GS-6
Milchak, Joseph P., XP-11
Moore, Carol G., GS-6
Nealey, Willie B., GS-8
Quall, Chester, GS-12
Ramsey, Charles E., GS-7
Romer, John N., XP-10
Savoy, Lester J., GM-13
Schaefer, David M., GS-9
Shalhoob, Rosalie M., GS-5
Smith, Christopher R., GS-11
Sterling, Deborah J., GS-11
Svoboda, William, XP-11
Tiner, John, GM-13
Wadlow, Tony B., GS-9
Walsh, Dianne C., GS-7
Warr, Clement D., GS-9
Wisely, Richard L., GS-7

DMA AWARDS

Employees are encour-
aged to attend the annual
DMA Awards ceremony,
scheduled for June 1 at
10:10 on the parade
ground. A dinner in
honor of recipients is
scheduled for May 31
at 6:30 at the Royale
Orleans Restaurant,
2801 Telegraph Road.



Memorial Day

May 30

Policeman of Quarter



Floyd J. Weaver was chosen outstanding security policeman for the last quarter. He was praised for his performance in controlling admission and departure into and from the installation. He is thorough in handling problems and people have cited him for his friendly and courteous manner, his shift supervisor said. Weaver served in the Army from 1968-70. He and his wife Mary have two daughters.

Staff Reassignments

(More reassignments on page 2.)

Digital Products Dept. **Vonnae Weir** (RES) has been reassigned as chief of Photogrammetric Data Branch 3 (DPLC).

Directorate of Programs, Production and Operations. **James M. Haynes** (DSP) has been reassigned to the Integration Branch (PIIP). **Curtis Triggs** (PIIP) has been reassigned to the MARK 85/90 Data Base Segments Branch (PPMD).

Directorate of Research and Engineering. **David Fahy** (SDRE) has been reassigned to the Support Systems Division (RES).

Scientific Data Dept. **Clarence Berry** (SDRB) has been reassigned as chief of the Precision Photographic Division Production Support Office (SDRP). **Caesar Moss** is the new chief of SDRB. **Jerry Denison** (PRN) has been reassigned to the Data Preparation Division (SDA).

Hail and Farewell

Army Captain Dennis A. Hurley arrived April 19 from the U.S. Army Field Station in Sinop, Turkey, for assignment as chief of the Plans Division (PRP).

Air Force Sergeant Calvin Spears arrived March 10 from the United Kingdom for assignment to the Telecommunications Branch (DSCD).

Retirements

(Years of federal service are given.)

April 13

Gerrity, Joseph (MCBAA), aeronautical information specialist, 33 years.

April 2

Gilbreath, Ralph E. (GAQ), quality assurance specialist, 37 years.

Hitchings, Barbara D. (KCBD), cartographer, 33 years.

April 1

Cage, Preston E. (MCABB), cartographer, 39 years.

Jackson, Horace A. (MCBEB), aeronautical information specialist, 41 years.

Meyer, Valerius A. (SDFBC), cartographer, 36 years.

Charting Seniors Lunch

The bimonthly luncheon of the Aerospace Charting Seniors is June 8 at Grant's Cabin. Social hour at 11:30. Lunch, choice of veal parmagian or baked white fish, at 12:30.

Call Bob Daily at 355-3725, Joe Brachtesende at 822-8335, or Harley Jennings at 428-3356, or mail reservations including entree choice by June 3 to ACS, P.O. Box 6942, St. Louis, MO 63123. Cost is \$7.50 per person.

March 31

Skinner, Gene L. (LOP), logistics management specialist, 32 years.

March 11

Finch, John M. (PPSI), supervisory computer specialist, 26 years.

Morton, Paul B. (CM), financial manager, 30 years.

Return Your Survey Form

If you are retired and enjoy reading the Orientor, don't forget to fill out the reader survey when it is mailed to you. If you know a retiree who would like to receive a DMA newspaper, have them send their name and address to the appropriate Public Affairs Office.

Calendar

JUNE	PLACE	RESPONSIBILITY
1 DMA Awards Day	Parade Ground	P. Duncan/4206
4 DMAAC Day	Six Flags	C. Wright/8252
4 Striders Spring Derby	Jefferson Barracks County Park	P. Alderman/4001
7 Toastmasters	Lindbergh Room	C. Abegg/4986
8 Aerospace Charting Seniors	Grant's Cabin	J. Brachtesende/822-8335
9 Chartmasters	South Annex	D. Miller/8383
11 Family Day	All installations	J. Mohan/4142
14 FBA Meeting	Garavelli's Inn at the Park	T. Woodward/895-9208
16 Charter Golf	Riverside Golf Course	M. Kelley/524-2340
16 FEW Monthly Meeting	2nd Street Dining Hall	K. Hille/8398
17 Bloodmobile	2nd Street	P. Benson/4047
21 Toastmasters	Lindbergh Room	C. Abegg/4986
23 Chartmasters	South Annex	D. Miller/8383
28 Charter Golf	Belk Park Golf Course	M. Kelley/524-2340
29 NFFE Local 1827	2nd Street Dining Hall	E. Hacker/776-8424

Contact Debbie Wenzelburger/4142 to have your July events listed.

The Teams To Beat...

OT Hodges was undefeated in the Super Division after two weeks of play in the DMAAC Softball League. They stopped the Dust Devils 9-8 on Greg Wagner's seventh-inning game-winning hit, and they handed the Scorpions their third loss in a row 9-6, collecting seven runs in the sixth inning to overcome a 6-2 deficit. Pitcher Keith Huelsebusch was a determining factor in the wins. The only other team to win two games was the Yukon Jacks, who beat the Mustangs and Scorpions but lost to the Misfits of the National Division, 6-1.

--Tom Dufford

Plum Crazy beat Chips-A-Hoy 9-1 and the Diamond Blues 15-5 to remain the only undefeated team in the Women's League. After losing to the Chips, the Bobaloes beat the Diamond Blues 9-2, with a homerun by Pat Hochstetter and a three-run double by Janie Greathouse. In their next game, they beat the Leftovers 8-1.

--Johnetta Lowe

Undefeated teams in the other divisions, as reported by John Lefman, were as follows:

Division	Team	Won	Lost
World	Pregnant Weasels	4	0
National	Hoosiers	3	0
National	Old Style	3	0
American	Kamikaze Owls	3	0
Rec	Photo Flashers	4	0

Season Ends at DuBowl

The season ended at DuBowl with Right Pin--Wrong Lane defeating the Short Circuits in a three-game play-off. Congratulations to the champions, Ginny Conroy, Jessica Dobberstein, Roger Greenland, Ray Lauer and Jim Ryan. This team was also first in the regular-play final standings.

Individual achievements for the season were: high average--Ginny Conroy (161) and Marion Moehrle (183); high series--Ginny Conroy (545) and Skip Lorence (666), and high game--Liz Krebs (210), Linda Pratte (210) and Garry Smethers (251). Most improved were Sandy Michaels and John Gacioch.

I would like to thank the league for all their cooperation during this past season. I know it wasn't easy with shift changes, TDY, and Compressed Work Schedule. Have a great summer!

--Nancy L. Bender



Mike Kelley tees off in the Charter Golf Association's first regular match of the season, held at the Columbia, Ill., Golf Course. Watching are Ralph Haeffner (left) and Becky Beck.

Don't Let Your Money Get Away



U.S. SAVINGS BONDS
THE GREAT AMERICAN INVESTMENT



DEFENSE MAPPING AGENCY
AEROSPACE CENTER
3200 South 2nd Street
St. Louis, MO 63118-3399

OFFICIAL BUSINESS

BULK MAIL
Postage & Fees Paid
DMA
PERMIT NO. G-2