

**MISSOURI MAPPERS ASSOCIATION  
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The Missouri Mappers Association is a nonprofit organization. Its purpose is to bring together those persons concerned with property mapping in state and local government and private industry, to create a framework in which we may cooperate in the investigation, study, discussion, and recommendation of improvements in property mapping and land record management, to promote the interchange of ideas and experiences, to improve the practice of property mapping and knowledge through education and training, and to support legislation beneficial to property mappers and land record management

To achieve these objectives, the Association sponsors regional workshops and courses, publishes a quarterly newsletter, and has instituted a professional designation program.

MMA operates from a constitution and a set of bylaws. The Association has an Executive Committee comprised of the above listed officers. These officers are selected each year at the annual meeting with the exception of the Treasurer and directors who serve a two-year term in office.

Each year, the President appoints several standing committees. These include Annual Meeting, Awards, Certification, Legislation, Membership, Publication, Historical and CADD.

We wish to thank all of our SPONSORS who help make this conference possible

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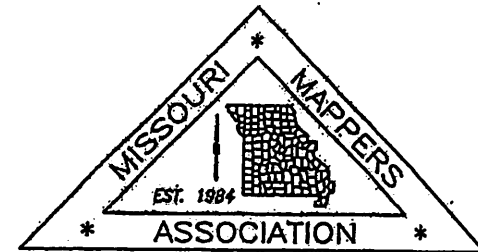
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# MISSOURI MAPPERS ASSOCIATION



## 14<sup>TH</sup> ANNUAL MEETING

**JULY 29, 30, 31, 1998**

**COLUMBIA, MISSOURI**

**Web Page Sponsored by the MSDIS**  
**<http://msdis.missouri.edu/mma/>**

## 1998 Annual Meeting Agenda

### Wednesday July 29

Golf Tournament – *Eagle Knoll* 9 A.M. --  
Education Committee *CO-OP Mapping* 1 P.M. – 3P.M.  
Early Registration – *Atrium Area* 7:30 – 8:30 P.M.  
ESRI Sponsored Social – *Patio* 8:30 --

### Thursday July 30

PMM BREAKFAST – *Truman Room* 8:00 – 9:00 A.M.  
REGISTRATION – *Atrium Area* 7:45 – 9:00 A.M.

### SESSION 1 – *Windsor IV*

WELCOME – Marti Buckner, President MMA 9:00 – 9:15 A.M.  
KEYNOTE SPEAKER – Ed Crane ESRI 9:15 – 10:00 A.M.  
BREAK With Exhibitors (Coffee / Cookies) 10:00 – 10:15 A.M.

### SESSION 2 – *Windsor IV*

SPEAKER – Tim Haithcoat MSDIS 10:15 – 11:00 A.M.  
BUSINESS MEETING – *Windsor IV* 11:00 – 12:00 Noon  
LUNCH– *Windsor III* 12:00 – 1:00 P.M.

*EACH EXHIBITOR WILL INTRODUCE THEMSELVES  
AND THEIR PRODUCT / SERVICE*

12:30 – 1:50 P.M.

BREAK With Exhibitors

1:50 – 2:00 P.M.

### SESSION 3– *Windsor IV*

SPEAKER -- John Buis NDE 2:00 – 3:00 P.M.  
BREAK With Exhibitors 3:00 – 3:15 P.M.

### SESSION 4– *Windsor IV*

SPEAKER – Julie Holtz and Eric Franzen  
M.J. Harden Associates, Inc 3:15 – 4:00 P.M.

**PLEASE VISIT ALL THE EXHIBITORS: THEY SUPPORT OUR MEETINGS!**

HOSPITALITY – *WINDSOR III* 5:00 – 7:00 P.M.

DOOR PRIZES

BANQUET -- *WINDSOR III* 7:00 – 8:00 P.M.

CASINO NIGHT -- *WINDSOR II* 8:00 – 10:00 P.M.

### FRIDAY, JULY 31

BREAKFAST BUFFET -- EXPO 1 8:00 – 8:45 A.M.

### SESSION 1 – EXPO 1

AWARDS 8:45 – 9:45 A.M.  
SWEARING AT OFFICERS 10:00 --  
CLOSING REMARKS

## Poster Profiles

### *Automated Mapping Caldwell County, MO*

Submitted by:

Dean Orr, Caldwell County Assessor

This poster will display parcel data that was converted in Caldwell County, Missouri. The small scale map at the top of the poster will show an area of the County that includes orthophoto, linework and text. There will be a blown up part of this map that will show parcels in more detail. From here, the parcel identification numbers and text will be seen clearly. Shown below this, will be a record of one of the parcel identification numbers shown in the map above. The parcel identification number is what was used to link the graphics to the database (under a standard database design that applies to all Missouri Counties). The record for this parcel will be explained in more detail off to the side. Also, there will be a listing of all types if linework and text in a legend format.

This poster will accompany a summary, which will explain in detail, Caldwell County's uses for the data after the GIS is implemented. The county will link the parcel ID number to a CAMA (computer assisted mass appraisal) database.

### *Desktop GIS at the Missouri Department of Conservation*

Submitted by:

Debbie Briedwell, Cartographer

Russ Mueller, Senior Cartographer

Missouri Department of Conservation

The Missouri Department of Conservation uses Desktop GIS for a wide variety of mapping needs. Through the use of programs such as ArcView, AutoCAD, and ArcInfo, the department is able to use informative mapping tools to visualize, query, and analyze data geographically.

Desktop GIS is used to keep an inventory of all department lands where they are quickly and easily updated. Simple data retrieval is possible by querying attributes such as deed number, acreage and funding codes. More complex data analysis can be performed by adding multiple layers to the map, such as a soils coverage, and using spatial and statistical analysis techniques. To complete a finished product, different sources can be adding to the map to form a base. County highway maps can be scanned and rectified to create a general base to overlay various layers. For a more detailed map, scanned USGS topographic maps can be used. In other cases, road line coverages can be added, along with cities, rivers, etc. to form a base map. These are useful for Department brochure maps where area features and developments need to be clearly identified.

These are just a few of the ways that the Missouri Department of Conservation uses Desktop GIS to assist in mapping. Through inventory, analysis, and management applications, the Department is able to effectively use a wide variety of data to create interactive, useful maps

# Poster Profiles

## *GIS Progression for Jefferson County Assessor's Office*

Submitted by:  
Sandra Cadenhead  
Belinka Novotney-Held, PMM  
Jefferson County Assessors Office

In 1995 the Jefferson County Assessor's Office discussed the movement towards a Geographic Information System - GIS. We wanted the quality and efficiency that comes with a GIS. After visiting several other counties and business we decided what path we would take. AutoCAD and hardware was purchased in late 1995. We then began digitizing our mylar maps into AutoCAD.

About the time we began digitizing we realized we were at the point of purchasing Arc/INFO to create the GIS. In the middle of 1996 we began using Arc/INFO. After setting up several programs and prototypes we are now entering the maps into the system.

There are three phases to our project: (1) Implementation of software/hardware (2) Conversion of data (3) Updating of converted information. We are in the second phase of this project and are also creating queries with the information that is currently available. The future for us will include setting up a terminal available for public use.

## *St. Louis County Siren Warning System*

Submitted by:  
Chris Matthews, St. Louis County  
Compiled from St. Louis County property base maps street centerline layers, municipal boundary and park overlays, County outline and water features (m-station), and provided siren location files (arc-view).

**PURPOSE:** This map was requested by the St. Louis County Police emergency management and 911 departments to display civil siren locations mainly for the purpose of tornado warnings.

**BACKGROUND:** St. Louis County Revenue Technical Services supports other County entities with map/project requests besides updating and maintaining our property map base. The street centerline data was done in-house on a part time basis starting around 1989 with the final editing and corrections completed in April, 1998. The municipal and other color boundary overlays (zip codes, school districts, etc.) were also generated in-house beginning around mid 1992 when the first color plotter was purchased by the County. These various boundaries are also updated when annexations, land swaps and even de-annexations occur. This map/project is the first large county-wide map of all streets and centerlines that we have done.

I would be glad to Answer any questions about this project.

Chris Matthews,  
Cartographer - St. Louis County, Mo. 314-889-2239 314-889-3863(FAX)

## Speaker Profiles

**Keynote Speaker: Ed Crane ESRI**

**Land base related technology**

Mr. Crane is an energetic speaker who will discuss how technology has changed the way we view the world, our jobs, and our lives. With his non-technical approach Mr. Crane will outline past, current and the future of the mapping technologies. Mr. Crane served several years in County Government, before his current position as a senior consultant for ESRI Kansas City.

**1<sup>st</sup> Session: Tim Haitcoat MSDIS**

**Data / Information available from MSDIS**

The Missouri Spatial Data Information Service (MSDIS) provides geographic information (GIS) and Census data about the state of Missouri to the public by way of anonymous FTP and this World Wide Web site. The MSDIS is run in close association with the Geographic Resources Center (GRC). One of the basic goals of the Missouri Spatial Data Information Service (MSDIS) is to keep the Missouri GIS professional up to date on the goings on of MSDIS and GIS in Missouri. Knowing what is coming and what has been is the best way to figure out your goals for GIS issues in your organization. MSDIS is a state asset, here to serve your needs.

**2<sup>nd</sup> Session: John Buis Network Design Engineering, Inc.**

**911 technologies / data sharing with assessors office**

With 911 technologies common place in Missouri Counties, Mr. Buis will outline how a 911 design and implementation will affect the assessors office and how these two agencies can work together to develop a county wide system that shares data.

**3<sup>rd</sup> Session: Julie Holtz / Eric Franzen M.J. Harden Associates, Inc.**

**Conversion of parcels on your new digital ortho base**

A must see session for those assessor offices who have digital mapping or thinking of converting to a digital environment in the near future. This session will be a hands on working demonstration of converting existing mylar parcel mapsheets onto a digital ortho base. The process will use physical landmarks (fence lines, tree lines etc.) as reference points instead of raw digitizing or scanning to convert from paper to vector. In this seminar a subdivision will be constructed over a digital ortho basemap. Tips and techniques for in-house conversion and maintenance will be given throughout this session.

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ESRI provides Geographic Information Systems (GIS) software and related services to  
clients worldwide. ESRI's flagship product, ARC/INFO, a high end GIS has capabilities  
for automation, modification, management, analysis, and display of geographic  
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ArcView GIS, an affordable geographic data query, and output tool for desktop; SDE  
(Spatial Database Engine), a high-performance object-based data access engine; and  
MapObjects and Map Objects LT, embeddable GIS and mapping components for  
applications developers.

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### Exhibitor Profiles

**M.J. Harden Associates, Inc.**  
1019 Admiral Blvd.  
Phone (816) 842-0141

**Kansas City, MO 64106**  
Fax (816) 471-1599 WWW.mjharden.com

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Based in Kansas City, MO. MJH is the full service AM/FM/GIS, photogrammetry, and  
data conversion firm for all MMA members. Specializing in digital ortho photos, parcel  
conversion, and infrastructure management. MJH will customize a GIS implementation  
plan to fit your needs that include hardware, software, aerial photography, conversion,  
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member of the Space Imaging / EOSAT map alliance program, MJH can provide 1 to 5  
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booth for more information on how MJH can solve your county's need for automation.

MJH's Commitment to excellence is the driving force behind our success. Experienced  
project managers and production team stress quality at every stage. Our consultants study  
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the State of Missouri Design and Construction, and the City of Kansas City, MO.

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Mr. Robert Beckmann is unable to attend the conference, but is a sponsor. Please call  
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## Exhibitor Profiles

### ProMap Corporation (PMC)

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Established in 1991, PMC Associates have more than 30 years combined experience in the creation of digital maps, map databases, and enterprise Geographic Information System projects for public agencies, businesses, and individuals throughout Iowa and the Midwest. Twenty counties in Iowa and one in Missouri have chosen PMC for their GIS projects, and PMC is recognized for combining innovation and expertise in the implementation of GIS technology. PMC is also a leading GIS provider for the Midwest precision farming industry, and for the digital mapping needs of many commercial businesses. PMC is an authorized desktop reseller and business partners with Environmental Systems Research Institute, Inc., and a reseller for Magellan Systems Corporation GPS systems.

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### Miller Management Services, Inc.

1390 Boone Industrial Drive, Suite 100 Columbia, MO 65202  
Phone (573) 499-4814 Fax (573) 499-4819

On October 1, 1994 Miller Management Services, Inc. and Miller Associates Engineering, Planners and Surveyors, Inc. separated and became two independent shareholder owned companies. The primary reason for this separation was to allow both organizations to continue growing at their own pace. Although both organizations were expanding, the businesses were sufficiently different to cause some restriction in the growth of both companies. The separation will allow each firm to meet their individual professional and service goals.

By separating the businesses, staffs in each organization are now free to build their companies independently and to their fullest potential. We believe this separation will not only benefit the staff members of both companies but all the services we provide our clients.

As a result of this separation, Miller Management Services has refocused its direction and the services it offers. Primarily our goal is to serve the administrative, management, planning, technical, and computer needs of our clients throughout a broad geographic area. Our services will be most useful to public agencies, including cities, counties, and states. Although the focus of our practice will be management oriented, we will continue to offer technical and engineering services associated with project management, feasibility studies community planning assistance, and technical administration. The following is a listing of the types of services available to our clients.

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Sanchez and Associates (SA), a small business enterprise and 100% minority-owned, is a unique firm that offers scanning services to its clients nationwide. SA is centrally located in St. Louis, Missouri, in the middle of one of the fastest growing market areas in the country. SA clients include a wide variety of industry sectors, ranging from Government and institutional to energy, construction, chemical, design, and manufacturing. SA's philosophy is simple: Deliver the highest quality scanning products available anywhere at the most reasonable prices in the industry- period. We make this claim based on: a) our many years of experience in this field, b) our highly qualified professional staff, and c) our top of the line high technology tools.

SA has performed work for very large as well as medium and small clients. Some of those in the first category include St. Louis Public Schools, Kansas City School District, Washington University, U.S. Postal Service, Federal Reserve Bank, City of St. Louis, City of Jonesboro, Barren County, City of Glasgow, City of St. Peters, City of St. Charles, Corps of Engineers, By-State Planning Agency, Missouri Botanical Garden, Barnes Hospital, Deaconess Hospital, Children's Hospital, Sigma chemical, Monsanto, Kaiser/Estech Chemical, Mallinckrodt Medical, Emerson Electric, Anheuser-Busch Companies, Trans World Airlines, Sverdrup Corporation, HOK Architects and Booker Associates, among many others.

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## Guest

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Timothy L. Haightcoat, Program Director, Senior Research Specialist

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Shafer, Kline and Warren, Inc. is a multi-discipline consulting firm offering planning, engineering, landscape architecture, land surveying and management consulting services to public and private clients throughout Missouri. We have a long and respected work history, particularly in infrastructure design, utility and parcel planning, and GIS zoning application development. The range of AM/FM/GIS services and products SKW offers clients can include the following:

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- Assessor parcel map conversion.

To learn more about SKW and our services, please visit us on the Web at [www.skw-inc.com](http://www.skw-inc.com). Please contact Kelly Ratchinsky, Director of GIS Services at 1-888-756-0444 or by E-mail at [KWR00@skw.com](mailto:KWR00@skw.com) if you have any questions or would like to request information on SKW's GIS consulting services.

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