

MISSOURI MAPPERS ASSOCIATION

Don Cleveland, Vice President Biography

My wife & I live in Lee's Summit, Missouri and have been married forty-three years. I was born in Parkville, Missouri and went to school in Parkville where I met Patty when we were +/- 14 years old. We've been "dating" ever since. ☺

Our President, Frank Adam, asked each Board member to provide their bio information. A bullet summary of my bio follows:

Education

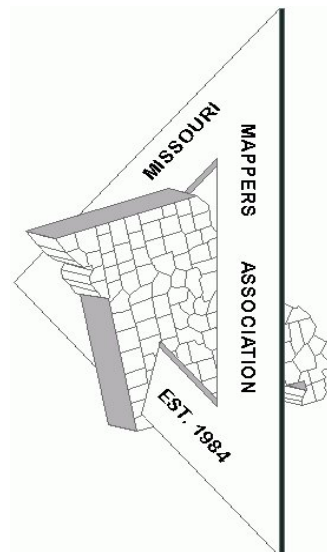
- ✓ Air Intelligence / Photo Interpretation School, Lowry Air Force Base, 1965
- ✓ Associate Degree in Applied Science-Marketing, Maple Woods College, 1978
- ✓ Undergraduate - Business Management, William Jewell College

Military

- ✓ USAF, Air Intelligence and Photo Interpretation, 1965-69
- ✓ Vietnam Veteran, 1966-67

Other Data

- ✓ Retired from M.J. Harden Associates after almost 40 years of service to the company & to my clients i.e. consulting specifications on aerial photography, ortho corrected aerial imagery & topographic mapping
- ✓ Certified Photogrammetrist (ASPRS #481)
- ✓ Member of the Missouri Mappers Association (MMA); Charter Member
 - Served on the Executive Board for three years; President in 1989-90
 - **Proudly & honored to be serving as the current Vice President 2008-09**
- ✓ Member of the Kansas Association of Mappers (KAM); Charter Member
 - Served on the Executive Board for five years; President in 2005
- ✓ Member of the American Public Works Association (APWA) / Kansas City Metro Chapter
 - Served on the Executive Board for seven years; President in 2003
 - Currently active on one committee
- ✓ Member of the American Society for Photogrammetry and Remote Sensing (ASPRS)
 - Currently serving as a Director of the ASPRS Central Region
- ✓ Member of the American Congress on Surveying and Mapping (ACSM)



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**BE SURE TO SEE
PAGES 2
THROUGH 5
FOR MORE IN-
FORMATION ON
UPCOMING
PMM EXAMS!**

Don Cleveland
Vice President
Missouri Mappers Association

Certification Committee Report

I would like to encourage anyone who has the qualification to take the PMM test to fill out the application and send it to me. We will be testing applicants in April 2009. The date and place will be announced later. I will need to receive applications no later than February 15, 2009.

Frank Adam PMM
Phelps County Assessor's Office
200 N. Main St. STE 126
Rolla, MO. 65401
573-458-6147
Frank.Adam@Phelpscounty.org

From the staff of the Phelps County Assessor's office...

Happy New Year!

Here's wishing everyone the best for the upcoming year of mapping. Happy 25th Anniversary MMA!!!

Executive Board Meetings

The 2008-2009 MMA Board Meetings will be held on the following dates, subject to scheduling conflicts:

- January 9, 2009
- April 3, 2009

All meetings are at 11:00 A.M. at the Phelps County Court House. **All members are welcome!!!**

To attend, call or e-mail Frank Adam with any questions at 573-458-6147 or

Frank.adam@phelpscounty.org

Funny Bone

Q. What do you call a map guide to Alcatraz?

A. A con-tour map.

Q. Why didn't the map have any meridians?

A. It was a map of a parallel universe.

Q. What is the tidiest element on a map?

A. The neatline.

Q. Why did the cartographer put a band-aid on the map?

A. Because it had a bleeding edge.

Q. What do John Wayne and a map key have in common?

A. Both are legends.

Post Jobs on the MMA Website!

Your company or organization can post a job opening on the MMA website. Just email your job description/information to Katie Shepherd at shepherd@midlandgis.com. The fees for job posting are as follows:

MMA Members: \$25.00

Non-Members: \$50.00

This is a great opportunity to hire someone in the Missouri spatial community to fill your position! Jobs will be posted for 6 months or until the position is filled and we are notified to remove the posting. Jobs will not be posted online until payment is received. Please mail all checks to Katie Shepherd, MMA Treasurer at Midland GIS Solutions, 501 N. Market, Maryville, MO 64468. Checks should be made payable to Missouri Mappers Association. Thank you!

A. Candidate Application Requirements for the PMM Designation

1. Applicant must be a member in good standing of the Missouri Mappers Association and must make formal application for candidacy. these applications are available from the Committee Chairman.
2. Applicant must submit a candidacy application form with appropriate fee.

B. PMM Designation Requirements

To qualify as a Professional Missouri Mapper, a person shall complete all of the requirements listed below. The minimum requirements for PMM designation are:

1. Have five (5) full years of cadastral mapping experience or it's equivalent.
2. Be engaged in the use, production or maintenance of maps.
3. Attend a minimum of 30 hours of study in mapping, surveying or a closely-related subject.
4. Successfully complete a certification examination which will be established and revised when necessary by the Certification Committee.

C. Certification Examination

A validated examination is necessary to test the applicant's knowledge of cadastral mapping principles and techniques. The examination for the PMM Designation requires seven hours to complete and is composed of three parts briefly described as follows:

Part I (1 hour & 15 minutes)

A 90 question comprehensive, multiple choice and true/false test that will test your general knowledge of mapping worth 100 points.

Part II (4 hours & 30 minutes)

A 16 question, 200 point compilation exercise designed to test your analytical and technical abilities.

Part III (1 hour & 15 minutes)

A 50 point inking exercise designed to test your craftsmanship and skill.

A score of 70% or 245 points out of the possible 350 shall be required to pass. The examination may only be taken once within any 12 month period only after all other requirements have been met. It may be given in more than one location on the same day depending on need and location of applicants. The time and locations will be determined by the Certification Committee. Efforts will be made to give the examination in locations convenient to the candidates.

CERTIFICATION AND AGREEMENT

I, _____, the undersigned, hereby apply for admission to candidacy for the professional PMM designation. I certify that the information given in the application is true and correct. I agree that any information requested of me by the Certification Committee in the future will be submitted in a timely manner and will be true and correct.

It is agreed that the designation, if conferred upon me, and any certificate or emblem of designation, should at all times remain the property of MMA held by me on trust, and will be returned to MMA upon demand of its Executive Board.

I enclose the sum of \$25.00 to cover the admission fee. It is understood that the \$25.00 admission fee will be refunded to me in full in the event that I am not admitted to candidacy.

It is agreed that I will abide by the rules of the Certification Committee concerning the use and evidence of the professional designation that I may be awarded.

In submitting this application, I state to MMA that there are no outstanding material challenges to my professional responsibility, character, or integrity pending against me, except as explained in attached statement dated _____. (If none, insert the word "none" in the preceding space.)

Signed: _____

Date: _____

MMA USE ONLY

File # _____ Date Approved _____ Membership _____ Test Date _____ Cert. # _____

**MISSOURI MAPPERS ASSOCIATION
APPLICATION FOR PROFESSIONAL DESIGNATION**

Name: _____ Date of Birth: _____ Title: _____

Soc. Sec. #: _____ Employer: _____ Phone: _____

Address: _____ City: _____ State: _____ Zip: _____

List professional organizations of which you are a member: _____

List professional designations that you presently hold. Please enclose a copy of the certificate or other document showing evidence of designation. _____

Education

High School – Graduated? Yes _____ No _____ Year _____

College: Name	Location	Dates Attended	Major	Degree
---------------	----------	----------------	-------	--------

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

List mapping/surveying courses successful completed and dates of completion. Please attach copy of certificates or other documentation showing evidence of successful completion of the courses listed.

_____	_____
_____	_____
_____	_____
_____	_____

List mapping/surveying experience that qualifies as your five years of experience. Be specific with dates, titles, work descriptions and references. A detailed resume will be acceptable for this section. If application is not detailed and specific, it may be returned.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Education Committee

We have some ideas for some informal and formal training for 2009 both before and after the MMA conference and some more in depth training at the upcoming MMA Conference. The trainings will be for current and prospective MMA members. By opening up these sessions to others in the Mapping industry in Missouri (i.e. Electric/Phone Coops, Gas, Environmental, E-911, Universities etc) this will help MMA grow and share new ideas.

1. An overview of GPS, Products, Application and workflow of Field to GIS and back into the Field.
2. Coordinate Systems, Datum's and Projections.
3. High Accuracy GPS Mapping with VRS. This will also include Project planning and Best Practices of data collection.
4. Parcel Mapping
5. Loading raster's into a geodatabase (work flow, time and effort it takes).
6. Publishing Maps for online use.
7. Cadastral Mapping --- not sure if this might be an item by it self or be included with Parcel mapping?
8. GIS for Assessors.

I would like to hear from members: assessors, counties, cities and private companies that are members and supporters of MMA for them to present at future training classes on successful projects they have had or other relevant mapping topics that would be beneficial to share. Also if some organizations could sponsor the event at your location or at any of the future locations.

Please contact me with any ideas or questions.

Jay Riester
Mapping Technical Support
Trimble Certified Trainer
Seiler Instrument
36 Kirkham Industrial
St. Louis, MO 63119
Direct Dial Phone: 314-218-6321
Toll-Free: 800-489-2282 x321
Direct Dial Fax: 314-218-6121
Cell: 314-302-9401
e-mail: jriester@seilerinst.com

AWARDS COMMITTEE REPORT

The awards committee is currently seeking nominations for Mapper of the Year and Boss of the Year. Applications are included in the newsletter. Please help the awards committee honor members who have done an outstanding job this year by submitting your nominations. Please recommend any additional awards that you would like the awards committee to present by submitting your ideas to lisac@casscounty.com, or by calling 816-380-8190. Any suggestions to make this a more rewarding year would be appreciated.

Respectfully submitted,

Lisa Chapman

Awards Committee Chairperson

Katie Shepard, Treasurer Biography

I grew up in Norfolk, Nebraska and moved to Maryville, Missouri in 2001 to attend Northwest Missouri State University. I received my Bachelor's degree in Geography in Spring of 2005 and began work at Midland GIS Solutions as their Marketing Director in June of 2005. In August of that year, I attended my first MMA Annual Meeting and served as the Organization's Conference Coordinator in 2006 and 2007, and Treasurer in 2008 and 2009. My husband, Dustin is a land surveyor and Crew Chief for Midland Surveying in Maryville. We have one son, Brody who was born in March of this year. I love being a new mom, my profession, and of course, the Nebraska Cornhuskers. GO BIG RED!

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PHOTOGRAMMETRY SERVICES

Randy Mayden 913.981.9515
Mike Kallas 913.981.9525

MISSOURI MAPPERS ASSOCIATION
TREASURER'S REPORT
December 10, 2008

BALANCE 10/1/2008 **\$16,573.96**

RECEIPTS

DUES	\$ 325.00
ADVERTISING	\$ 687.50
INTEREST EARNED	\$ 0.35
WEST CENTRAL DUES	\$ 5.00

BALANCE + RECEIPTS **\$ 17,591.81**

DISBURSEMENTS

PUBLICATION	\$ 4.13
POSTAGE	\$20.76

BALANCE 12/10/2008 **\$ 17,566.92**

Greetings,

I wanted to inform all of you about 2 separate and different events happening in 2009. They have both been a long time coming and well worth the wait.

May 20 & 21, 2009 - Rural GIS Summit

The Rural GIS Summit is a special event for small and rural communities who are using GIS or are considering using GIS across Missouri, and in close adjacent areas. The Summit IS NOT focused on the technical aspect of GIS. There will not be any technical training as part of the agenda. Instead, this event is meant to address some of the most significant administrative, policy, business and operational issues associated with GIS in small communities. If you are currently using GIS, this event is meant to enhance your thinking. If you are not using GIS, this event is meant to provide you with practical advice for your considerations. Everyone is welcome, but we extend a special invitation if you are an elected official, administrator, rural utility employee, GIS user, non-user, casual user, academic, private sector or other small community person or one-person shop faced with geospatial issues in a rural community. If you would like to help with this event, please let me know!

July 8, 2009 - Northeast Missouri Regional GIS Workshop

The Regional Workshop is a local follow-up event, specifically for people in the northeast region of Missouri. This meeting is meant to focus on issues and resources for northeast Missouri (for example RHSOC funding for GIS development in region B). The draft agenda is attached to this email for your review. Note that the agenda is a DRAFT, largely created from the meeting held in May. If you have any ideas, please send them to me. The agenda is meant to provide the timeliest information just for folks in the northeast region.

When you get your 2009 calendars, please note these dates!

Best regards,

Pam Kelrick
GIS Coordinator/Planner
GIS Consortium
Kirksville, Missouri 63501
660.665.0408
gisc@cableone.net



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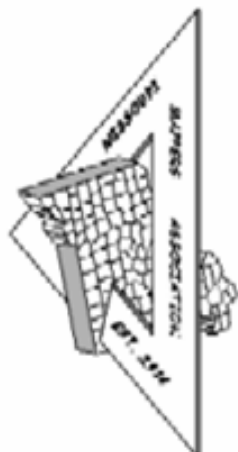
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2008-2009

OUTSTANDING MAPPER OF THE YEAR APPLICATION

The “Outstanding Mapper of the Year” award is presented yearly at the Missouri Mappers Association annual convention. The award is designed to honor an individual who has displayed outstanding abilities in the mapping field. Nominees must be a current member of MMA, have been a member for at least one year, and be technically proficient in mapping techniques and standards. Nominations should explain why the nominee merits this award.

Name of Nominee: _____

Employer: _____

I believe _____ should be nominated for

“Outstanding Mapper of the Year” because _____

_____ (Continue on
additional sheet if needed)

Signature: _____

Phone Number: _____

Email address: _____

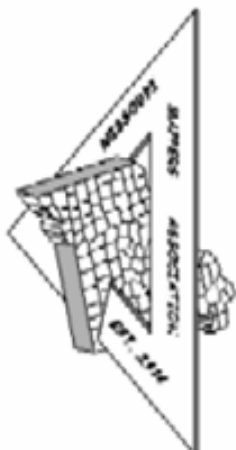
Mail Application to: lisac@casscounty.com or

Lisa Chapman

Cass County GIS Department

102 E. Wall St.

Harrisonville, MO 64701



OUTSTANDING BOSS OF THE YEAR APPLICATION

The "Outstanding Boss of the Year" award is presented at the Missouri Mappers Association annual convention. It is presented to honor the "Top Boss" who has displayed outstanding leadership abilities. Nominees must be a current member of MMA, has been a member for at least one year, and be technically proficient in mapping techniques and standards. Nominations should explain why the nominee merits this award.

Name of Nominee: _____

Employer: _____

I believe _____ should be nominated for "Outstanding Boss of the Year" because _____

(Continue on additional sheet if needed)

Signature: _____

Phone Number: _____

Email address: _____

Mail Application to: lisac@casscounty.com or
Lisa Chapman
102 E. Wall St.
Harrisonville, MO 64701

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 9-1-1 INDUSTRY ALLIANCE	600 Cameron St. Alexandria, VA 22314	tel 703-340-1656
		www.911alliance.org
		Jeff Robertson, Executive Director dir: (256)527-4320 jrobertson@911alliance.org

Why do we need new 9-1-1 legislation in Missouri?

- ☐ 9-1-1 calls from cell phone in Missouri has reached 58% of the total 9-1-1 call volume – and it is increasing steadily with no end in sight. Even though cell phones connection to the Missouri 9-1-1 network is subsidized by land line tariffs. This is unfair to landline subscribers and land line telecommunications companies who have to unfairly subsidize a competitors products.
- ☐ As customers disconnect traditional land line phones in favor of wireless phones, the financial support for the 9-1-1 service in Missouri decreases at roughly 21% annually, yet call volumes to 9-1-1 continue to increase.
- ☐ As a result, Missouri's existing 9-1-1 centers are experiencing a reduction in 9-1-1 revenues every quarter and puts in jeopardy the public's access to vital public safety resources.
- ☐ Then, there are the citizens who live in the 18 counties in Missouri that do not have any 9-1-1 service whatsoever. Missouri has the worst 9-1-1 service in the United States.
- ☐ Wireless companies ARE ALREADY charging their customers a monthly fee for 9-1-1; fees that the carriers keep while the counties are losing money and cannot afford the upgrades necessary to locate someone who calls 9-1-1 from his or her cell phone. Presently there is no legal method for public safety to collect these funds. Check your bill under the general heading "regulatory fees."
- ☐ This is NOT a new tax – this is a change in technology. The citizens of Missouri pay a "tire tax" today when new tire technology came out in "All Season Radials" a ballot vote was not required. Why when new phone technology comes out do we require a ballot vote? Legislation needs to come out to cover all types of phones, just like the tire tax covers all types of tires.
- ☐ In 2006, the State of Missouri engaged L. Robert Kimball & Associates to conduct a statewide 9-1-1 infrastructure assessment. After the study concluded, a series of public hearings occurred throughout the state to get input on Kimball's recommendations. Still, nearly two years after the study report was completed, and after hearing from 9-1-1 personnel about the difficulties they face in providing service to Missouri's citizens, the needed legislative action has not happened. The situation has gotten worse since then. This study can be downloaded at <http://www.911.oa.mo.gov/assessment.htm>



Conquer your GIS objectives

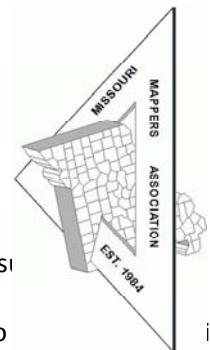
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Missouri Mappers Association 2009 ADVERTISING CONTRACT – Quarterly Newsletter

The Missouri Mappers Association publishes a quarterly newsletter that is distributed to all members that include, but not limited to - mappers, mapping supervisors, assessors, and vendors. The newsletter is addressed by name and title to each member/recipient and mailed first class from the Rolla, Missouri post office. The newsletter is also e-mailed to request and it is available on our website at www.missourimappers.org. Approximately 300 newsletters are distributed by mail/E-mail every quarter.



NEW 2009 ADVERTISING RATES

Page Size	Individual Ad	Advertise In All 4 Issues
Full Page	\$100	\$350
Half Page	\$75	\$275
Quarter Page	\$50	\$175
Business Card	\$25	\$75

Please Note: The newsletter is published in January, April, July and October. This contract is for **advertisements in the 2009 newsletter**.

SUBMISSION GUIDELINES

Please send your advertisement to Tim Kean, Publications Chairman at tim.kean@phelpscounty.org or Frank Adam, MMA President at frank.adam@phelpscounty.org. Advertising deadlines are the 10th of the month prior to publication. Ex. Deadline for the October issue would be Sept. 10th. Please send only high resolution PDF, JPEG or TIF files. We need black and white ads for the newsletter, however, if you want your ad to appear online in color, please send both.

ADVERTISING SPACE ORDER

Please insert our advertising in the MMA Newsletter as follows:

(Circle the issues you will advertise in): January April July October All Issues

Size: _____ Rate: _____

Authorized by: (Signature) _____ Date: _____

Please send this form with payment enclosed to:

Katie Shepherd, MMA Treasurer
Midland GIS Solutions
501 N. Market
Maryville, MO 64468

Questions? Please contact Tim Kean at 573-458-6139 or email tim.kean@phelpscounty.org. You can also contact Frank Adam at 573-458-6147 or email frank.adam@phelpscounty.org.

Publication Committee Report

Greetings all! We hope that everyone had a wonderful Christmas season. For the upcoming New Year, we would like to throw out a couple of reminders. First, if anyone has an idea for a recurring "column," or just a note included in one newsletter, let one of us know. We will happily work with you to make it happen. Second, if you would like to receive the newsletter via e-mail instead of the U.S. Mail, please send either Frank or myself the e-mail address where you would like to receive the newsletter. We can assure you that your e-mail address will only be used by us to send the quarterly newsletter or other official MMA communications. Send your e-mail addresses to frank.adam@phelpscounty.org, map-ping@phelpscounty.org or tim.kean@phelpscounty.org. Thanks!

This issue will be mailed out to 201 individuals, and e-mailed to 45 more. It will also be posted on our website, along with newsletters from the past.

Frank Adam, PMM & Tim Kean
Phelps County Assessor's Office
200 North Main Street, Suite 126
Rolla, MO 65401

Membership Committee Report

Members if you haven't or don't renew your newsletter will be discontinued. We currently have 192 paid members. Your mailing label reflects your expiration date.

Have a great Holiday Season!!

Respectfully submitted,
Gladys Smith
St Clair County Assessor
Missouri Mappers Membership Chairperson

Historical Committee Report

Have you ever wanted to contribute to MMA history? Do you have an item that you thought would be great to preserve for the posterity of MMA? If you answered yes to either of these questions, please consider having that item included in our annual Historical Committee binder. When an item is included in the binder, it is available for any MMA member's benefit. All you have to do to have an item included is to get it to either myself or Frank Adam. It is that easy. So, check your desk drawers and closets!!!

Respectfully submitted,

Tim Kean
Historical Committee Chairperson
200 North Main Street, Suite 126
Rolla, MO 65401
tim.kean@phelpscounty.org

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**MISSOURI MAPPERS ASSOCIATION**
Membership Application

The Missouri Mappers Association has the following membership categories:

(Please check one)

Regular Member – Mappers, Cartographers, Mapping Supervisors, Assessors, Surveyors, Geographic Information Systems (GIS) personnel and other persons involved with mapping. – **Annual Dues: \$15.00**

_____ Subscribing Members – Individuals or firms not eligible for regular membership that are interested in property mapping. – **Annual Dues: \$25.00**

____ **Student Member** – Any student that attends a University, College, Vocational Institute or other recognizable School not eligible for other membership and interested in property mapping. – **Annual Dues: \$5.00**

Regional Chapter – Additional Annual Dues: \$5.00

PLEASE COMPLETE THE FOLLOWING:

Last Name	First Name	Middle Initial
-----------	------------	----------------

Government Organization, Company, Consultant Name

Employment Address	City	State	Zip Code
--------------------	------	-------	----------

Home Address	City	State	Zip Code
--------------	------	-------	----------

Home Telephone _____ Work Telephone _____ Mailing Preference _____ Home _____ Work _____

Email Address

Professional Organizations with which you are associated: IAAO URISA MSPS

Other Organizations:

I hereby make application for membership in the Missouri Mappers Association. If admitted, I will abide by its by-laws and support its objectives. I have enclosed my membership dues with this application.

Date _____

Signature _____

Please mail this application
and dues to the
**MEMBERSHIP
COMMITTEE**

Gladys Smith
MMA Membership Chair
PO Box 95
Osceola, MO 64776

An Oldie, But A Goodie

Missouri's Cadastre-Past, Present, and Future

The Multi-Purpose Cadastre is a term that has been used in this country by mapping professionals for the past 10 years. It is a term that is not always well understood, and may mean one thing to one set of professionals and another to another group. The report by the National Academy of Science entitled, "Need for Multi-purpose Cadastre" defines the cadastre as follows: "A cadastre may be defined as a record of interests in land, encompassing both the nature and extent of these interests. An interest in land (or property right) may be narrowly construed as a legal right capable of ownership or more broadly interpreted to include any uniquely recognized relationship among people with regard to the acquisition and management of land. According to the French etymologist Blondheim, the term cadastre is probably derived from the Greek word katastichon, meaning notebook. (Von Simmerding, 1969). In Latin, the term gradually evolved to captastrum, or register of territorial taxation units into which Roman provinces were divided."

In 1815 the first major surveying and mapping project to establish a Missouri Multi-purpose Cadastre started. This date marked the beginning of the government surveys in the State of Missouri. The survey along with the plats prepared from the survey work and the creation of a document called a "sales plat" which showed the original ownership of all parcels, became the first cadastral mapping in the State. Even though there may be some inaccuracies in the original government system, it still stands as the basis for all land transactions in the state. The basic system remains unchanged in most of the United States and for all intents and purposes in the framework of most cadastral systems in the United States. When one takes note of the vast amount of information that was covered in this original survey, it is clear that it was more than a single purpose survey. The original government surveys not only measured and marked off the land in approximately one-mile square sections, but they also conducted a very careful inventory of the land. The original government surveys record an assessment of the quality of the land in each mile and the type of terrain and vegetation. If the surveyor noted any other special features such as large springs or outcrops of minerals, these were also shown on those original records. Even today these records are being used to determine what our state looked like at the time of the original government surveys in the early 1800's. They clearly delineate forest land, prairie land and swamps.

For many years the original government surveys have served as the only cadastre in the state. In many respects the system has not been fully utilized. Many governmental agencies have developed their own means for relating land based records. Most have utilized to some extent the original government surveys, but there has been no uniformity in the procedures or in the quality of the product. The property ownership mapping which is just being completed in the state can easily be seen as the embryo of the next generation multi-purpose cadastre for the State of Missouri. It is based to a large extent on the original government survey system; therefore begins to extend that system into modern times. To truly meet the qualification for a multi-purpose cadastre, we need to look for a well defined system. The National Science Foundation in its booklet, Procedures and Standards for a Multi-purpose Cadastre, sets forth the basic components:

- "1. A spatial reference framework consisting of geodetic control points;
2. A series of current, accurate, large-scale base maps;
3. A cadastral overlay that delineates all cadastral parcels and displays a unique identifying number for each of them; and
4. A series of compatible registers of interests in land parcels keyed to the parcel identifier numbers."

When one reviews current cadastral activity in the State of Missouri with respect to these four basic components, it is clear what must be done to make the cadastre fully operational. The actual framework on the ground of the original government surveys is practically non-existent. Its location on the surface of the earth is defined only by the corners placed by the original surveyors; therefore, with 80% of the corners destroyed, a large restoration program is needed. The current property ownership mapping program is based upon the perception of the original government surveys as shown on the U.S.G.S. topographical maps. This in itself introduces possible error into the system and does not constitute a solid frame of reference. The topographic maps are excellent maps to show what can be seen on the ground. Boundary lines such as the original government survey lines, are represented on the topographic maps without the benefit of actual survey information; there-

fore, they rely heavily upon lines of possession such as fences and roads for the delineation of boundary lines. Where there are no roads or lines of possession, the maps may not be as accurate as needed.

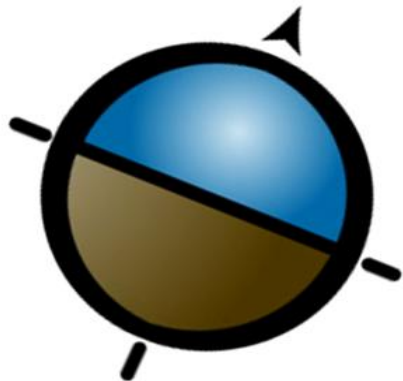
The need for a true multi-purpose cadastre is certainly with us today. A study conducted by the State of Wisconsin and sponsored by the Council of State Governments in January, 1978 indicated the magnitude of the need for good information.

The report states that in total Wisconsin Residents paid approximately \$17.00 each or \$78,730,306 in 1976 for information about the state's thirty-five million acres of land. These figures translate into roughly \$2.25 per acre. The report goes on to indicate that at county, state and federal levels there is considerable duplication in effort. Collection and use of data for the activities that occur on the land are not coordinated and do not rely upon one single basic framework.

Property ownership mapping has placed us one step toward a state-wide multi-purpose cadastre. The Missouri Land Survey Program in its programs to reestablish the original corners of the public land survey system, and its programs to provide geodetic control throughout the state, are steps towards the development of the cadastre. Technological changes are making the need for a cadastre more evident and are also making the attainment of this cadastre more realistic. The development of the cadastre is going to call on many professionals to work together. The land surveyor, the geodetic surveyor, the mapper, the assessor, the engineer, the state and local legislators, all have a tremendous role to play in the development of this extremely important system for the future.

Robert E Myers, P.E., L.S.
State Land Surveyor

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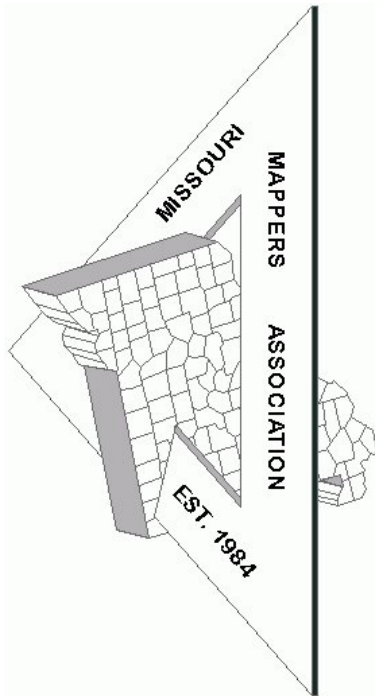
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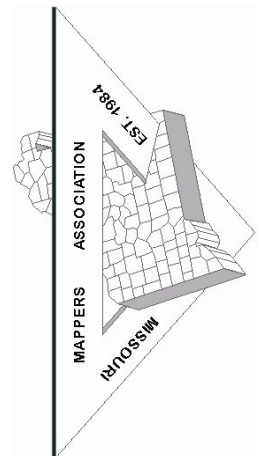
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