



Volume 1, Issue 2, June, 1985

newsletter

MISSOURI MAPPERS ASSOCIATION

P.O. BOX 1692
JEFFERSON CITY, MISSOURI 65102

PRESIDENT'S MESSAGE IT'S BEEN FANTASTIC!

It's hard to believe that our charter year is almost over. Our first annual meeting and election of new officers will usher out the old and bring in a new group of leaders to take us into our second year. Thanks to all of you, we have accomplished a tremendous amount in these past months. I believe we have "mapped" a course that will lead the Missouri Mappers Association to greatness! Some of our major accomplishments this first year are:

- Over 200 Members
- Professional Designation
- Newsletter
- Annual Conference
- Educational Program
- Legislative Action

An impressive list, wouldn't you agree?

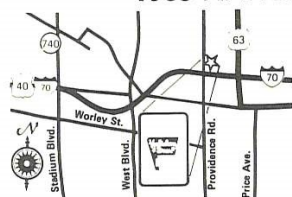
As your charter president, I have had the opportunity to meet with many of you and to exchange ideas and thoughts. I sincerely hope that I have fulfilled to your satisfaction the trust you place in me. I think our organization is headed in a direction that will give us social as well as professional gratification in the future.

A special thanks to Earl, Jan, Roger, Bob, Rick and Trish for their dedicated assistance, and last but not least, I would like to send dozens and dozens of long-stemmed roses to Shirley Quick (former boss) and Heidi Devore (former person Friday) for their encouragement.

See you at the conference next month!

George Donatello, President
Missouri Mappers Association

MISSOURI MAPPERS ASSOCIATION 1985 ANNUAL MEETING



Holiday Inn



Try to feature taking a day-and-a-half from the office and venture into the world of mapping. You can do that by attending the MMA 1985 Annual Meeting. The first annual meeting is set for July 9-10, 1985, at the Columbia East Holiday Inn & Holidome, Columbia, Missouri. The fee for each person attending the convention is \$25 for MMA members. (Subscribing membership only qualifies one employee to register for \$25. All additional employees will have to pay \$35. This will pay \$25 for their convention registration and \$10 for their individual membership dues), \$12.50 for spouse or children, \$35 for all non-member guests. (This fee will pay \$25 for their convention registration and \$10 towards their individual membership dues.) The registration fee includes Tuesday's lunch and Wednesday's breakfast.

A special feature will be our keynote speaker, Mr. Frederick J. Doyle. Mr. Doyle is with the U.S. Geological Survey where he serves as Senior Advisor to the Chief of the National Mapping Division on scientific and policy matters concerned with the topographic mapping of the United States. He is the Department of the Interior representative on several National Academy of Sciences and interagency committees concerned with lunar, planetary, and terrestrial mapping and remote sensing. He was chairman of the Apollo Orbital Science Photo Team and has been directly involved with Skylab, Viking, Landsat, and currently with the Large Format Camera on the Space Shuttle.

Our other speakers will be Robert Lemen, who will address "Using Topographic Maps"; Earl Tomberlin, "Map Maintenance Review"; State Tax Commission Chairman Samuel Jones on "Legislative Review"; and a "Panel of Statues" composed of Robert Myers, State Land Surveyor; Thomas Schwarz, Jr., State Tax Commission of Missouri; Bettie Johnson, Boone County Recorder of Deeds; William Brenner, Johnson County Assessor; John Coghlan, Chicago Title Insurance Company. We will also hold the annual business meeting. It is important to have as many members present because we will be voting on our 1985-1986 Officers.

So far our exhibitors in attendance include: Surdex; M.J. Harden Associates, Inc.; U.S. Department of Interior-Geological Survey; Tenebaum-Hill Assoc., Inc.; Manatron Incorporated; Springfield Blue Print and Photo Copy, Co., Inc.; Universal Field Service. Due to space we are unable to list all exhibitors, but the exhibitors forms are coming in daily. All exhibitors will be recognized at the convention.

If you have not made your reservations, please call the Holidome at 314-449-2491. The hotel is easy to locate. We have included a map for your convenience. The Program Committee advises early registration for all members.

Please bring any suggestions or ideas to enrich Missouri Mappers Association second year in existence. Remember, this is your organization and you can make the difference.

'84-'85 OFFICERS AND COMMITTEE CHAIRPERSONS OF MMA

George Donatello, President; Earl Tomberlin, Vice President; Roger Arnzen, Secretary; Jan Elliott, Treasurer; Patricia Hughes, General Counsel; Robert E. Myers, Director; Rick Stuart, Director; Harry Kublin, Chairman of Education Committee; Gene Zimmerman, Chairman of Legislative Committee; Wayne Collins, Chairman of Professional Admissions Committee; Mary Ann Kaiser, Chairman of Program Committee; Lili Cooper, Chairman of Membership Committee; Mike Seabaugh, Chairman of Publication Committee.

ATTENTION!

Enclosed with this newsletter are proposed changes to the MMA Constitution and Bylaws. Please read these changes and consider them carefully. The changes will be presented to the membership for a vote during the first annual meeting.

PROFESSIONAL MISSOURI MAPPERS

DESIGNATION PROGRAM

"A profession is a body of people who carry on their work in accordance with rules designed to enforce certain standards both for the protection of its members and for better service to the public." Mapping, like other professions, requires special study, knowledge, and skill. Because fair and equitable assessment of property for tax purposes requires a high quality cadastral map, the Missouri Mappers Association has instituted a program designed to raise the professional standards of mapping personnel, and recognize those with superior skills. The professional designation outlined is a result of this effort.

Attainment of the Professional Missouri Mapper (PMM) Designation is a true challenge. In addition to ability, it requires a substantial amount of study and knowledge. Those who achieve this difficult goal should be very proud; there are some who will fail. Yet, if this were not so, the designation would not be worth the time, effort, and patience required to attain it.

Realizing that the fair and equitable administration of property tax requires a high level of competence in many areas, the Missouri Mappers Association has instituted the PMM designation. The PMM Designation is designed for those professionals who are engaged in the use, production or maintenance of cadastral maps.

The program is designed to raise the standards of the mapping profession, to attain recognition by governmental authorities and the public of the mapping profession, to gain for members recognition as qualified, objective and competent mapping professionals.

The PMM program is administered by the Professional Admissions Committee, the Chairman, the three members are appointed by the President of the Missouri Mappers Association. The duties of the Professional Admissions Committee are to prescribe the policy regarding the applicant's requirements, to screen all applicants, to prepare suitable examinations, and to recommend to the Executive Board individuals qualified to receive the Professional Designations.

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.
2. Applicant must submit a candidacy application form with appropriate fee.
3. Based on the information provided, the applicant will be notified whether or not the application has been accepted.
4. Applicant will have three years to complete all requirements.
5. An individual holding the PMM designation must attest to the applicants qualifications by signing their application.

PMM Designation Requirements

To qualify as a "Designated Member" a person shall complete all of the requirements listed below, except during

the period June 1, 1985 - January 1, 1986.

The Board of Directors, by a unanimous vote, may waive item number three for those candidates who exceed the other designation requirements. The minimum requirements for PMM designation are:

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

Certification Examination

A validated examination is necessary to test the applicant's knowledge of cadastral mapping principles and techniques as well as State practices and procedures. The examination for the PMM Designation requires from six to eight hours to complete. Specific information regarding general format and content area of the examination are provided to candidates prior to arranging for the examination. The examination may only be taken once within any 12 month period.

The examination will be given only after all other requirements have been met. Efforts will be made to give the examinations in locations convenient to the candidates. Examinations must be protected by a Missouri Mappers Association Professional Designee. An oral examination may be required at the discretion of the Professional Admissions Committee.

Use of the Professional Designation-PMM

Members of the Missouri Mappers Association who have been awarded the PMM Designation may identify themselves by their designation. PMM is the abbreviation for the words Professional Missouri Mappers (it should be noted that the abbreviations do not have periods between the letters).

Re-certification

In order to maintain a high level of professionalism, it is necessary for professional designees to keep abreast of the ever-changing mapping field. In order to maintain the PMM designation, the following will be necessary:

1. Maintain active membership in the Missouri Mappers Association.
2. Attend a minimum of 20 hours of class room study or lecture in mapping, surveying or a closely-related subject within a two year period.

Use of Designation

In the event that the designation of an individual is terminated by resignation, expulsion or for any other reason (and also during any period that an individual's privileges of membership or designation are suspended for any reason) the individual shall refrain from using or displaying the designation PMM.

The PMM Certificate of Designation and other such evidence of the designation issued at any time to a member of the Missouri Mappers Association, shall remain the permanent property of the Missouri Mappers Association and must be

returned promptly to the Missouri Mappers Association upon request of the Executive Board if the membership of designation of the individual to whom such materials are issued is suspended or terminated for any reason.

MMA

PROFESSIONAL ADMISSIONS COMMITTEE

Wayne Collins-Chairman

Cass County Assessor

201 W. Wall St.

Harrisonville, MO

Bob Norris - Member

Missouri State Tax Commission

621 Norris Drive

Jefferson City, MO 65101

Gail Sawicki - Member

Franklin County Mapping Director

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Union, MO 63084

George Donatello - Advisor

Research Administrator

Tenenbaum-Hill Associates

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TECH NOTES

The orthophoto is a photograph showing images of objects in their true orthographic positions. Orthophotos are therefore geometrically equivalent to conventional line and symbol planimetric maps, which also show true orthographic positions of objects. The major difference between an orthophoto and a map is that an orthophoto is composed of images or features, whereas maps utilize lines and symbols plotted to scale to depict features. Because they are planimetrically correct, orthophotos can be used as maps for making direct measurements or distances, angles, positions and areas without making corrections for image displacements. This, of course, cannot be done with regular photos.

Orthophotos are produced from aerial photos through a process called differential rectification, which eliminates image displacements due to photographic tilt and relief. Tilt displacements exist in any photo is at the instant of exposure the photo plane is tilted with respect to the earth's surface. Rectification eliminates the effects of tilt and yields a vertical photo. Unless the terrain is perfectly flat, however, a rectified vertical photo will still contain scale variations as a result of image displacements due to changes in relief. In the process of removing relief displacements from any photo, scale variations are also removed and scale becomes constant throughout the photo. Any photo which has a constant scale throughout is an orthophoto having the same planimetric correctness as a map. It should be mentioned that although relief displacements due to variable terrain are

removed, a shortcoming of orthophotos is that relief displacements of vertical surfaces, such as walls of buildings, cannot be removed.

At first glance, an orthophoto looks the same as an aerial photo. However, upon comparison of an orthophoto and a regular aerial photo of the same area, differences can usually be detected.

The desirability of orthophotos over regular aerial photos has been recognized from as early as 1903, but technical inefficiencies in the production of the orthophoto, together with a general lack of enthusiasm for the finished product, caused orthophoto utilization to lie dormant until recently.

Orthophoto maps prepared from orthophotos offer significant advantages over both line maps and aerial photos, because orthophotos possess the advantages of both air photos and line maps. Also, orthophotos have the pictorial qualities of air photos because the images of an infinite number of ground objects can be recognized and identified. Furthermore, because of the planimetric accuracy with which images are shown, measurements may be taken directly from orthophotos just as from maps.

The capability of being able to recognize images on the orthophoto map with what is observed on the ground is an asset in many fields of mapping. Because images can be matched with their corresponding objects on the ground, orthophotos make excellent base maps for preparing flight plan maps. Orthophotos are also very useful communication tools. Property owners and others can understand an orthophoto map, whereas they are frequently confused by a line and symbol map. Using orthophotos, appraisers are better able to communicate with property owners to discuss valuation, etc.

Orthophoto maps themselves offer no information as to elevations. However, they can serve as planimetric base maps upon which elevation contours are superimposed, and the resulting product is termed a topographic orthophoto map. Contours for topographic orthophoto maps are normally derived from a separate stereoplotting operation. The use of orthophoto maps as base maps for elevation contours eliminates the need for mapping planimetric data in stereoplotter compilation and can result in substantial cost and time savings.

Compared to conventional line type base maps prepared through stereoplotter compilation, orthophoto maps can be prepared faster and at less cost. This is especially true for small-scale maps, maps of urban areas, or maps of areas with dense planimetric and cultural features. Added reproduction costs of orthophoto maps, however, somewhat offset savings in labor costs. Orthophotography has made it possible to map areas that would otherwise have gone unmapped, and it has made more frequent map revision possible. It must be pointed out, however, that before an orthophoto map meeting national map accuracy standards can be produced, ground control comparable to

planimetric maps must be available.

Orthophotos are still relatively new products, but all indications are that users are currently more than satisfied with them. It appears that orthophotos, with their many significant advantages, have an excellent change of superseding, in large part, conventional line and symbol maps.



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NEWS FROM THE LAST BOARD OF DIRECTOR'S MEETING

The MMA Board of Directors met on May 17, 1985, in Jefferson City. Following are points of interest that will be discussed further at our membership meeting in July.

A. Harry Kublin and Don Cleveland, co-chairmen of the education committee gave a report on plans for educational programs. More information will be forthcoming at the membership meeting.

B. It was reported that we are now 202 members strong and still growing. All existing members should try to get a new member in time for the membership meeting in July.

C. Vice President, Earl Tomberlin, reported the great news that Missouri Mappers Association has been accepted as an associate member of the International Association of Assessing Officers. A plaque will be displayed at the July meeting, noting our affiliation.

D. The Association has received from the Internal Revenue Service notice of approval of exempt status for federal income taxation and state exemption has been filed.

E. A nominating committee was appointed by President George Donatello for candidates for offices on the Board of Directors to be voted on by the general membership at the meeting in July. Nominations from the floor will also be accepted.

F. A change proposal in the by-laws concerning Article 2, Section 5, which state the right to office or voting can be entitled to regular members only. The motion was made to remove the word "regular" from the by-laws, thus opening up voting and office holding positions to all membership. The proposal will be voted upon by the general membership at the July meeting.

If any member is interested in a copy of any Board of Directors meetings please contact Secretary Roger Arnzen • 44 N. Lorimer • Cape Girardeau, MO 63701.

I hope to see everyone at the July meeting. We have much to discuss and vote upon.

Roger Arnzen, Secretary, MMA

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FOR SALE/WANTED COLUMN

Members, do you or someone you know have a piece of mapping equipment you have been wanting to sell or buy? The Publication Committee feels a "For Sale or Wanted" Column will benefit all members. We will need the name and type of equipment you are advertising; plus your name and phone number. This service will be free to all.

BUSINESS CARD ADVERTISING

We want to continue this service to our members, it's free and our circulation and recognition are growing. Maintaining control and fairness in this service requires that, upon receipt of each issue, you send another card if you want it published in the next issue. It only costs a little time and postage and lets us know you're with us.



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"INK TIPS"

Did you ever start to draw out a metes and bounds description and find the distances were given in surveyor's chains? You had to wade thru the legal description and multiply all your chain distances by 66 feet to determine what the dimensions in feet would be, so you could plot out the legal. Well, no need to go thru all that extra multiplication if you have a surveyor's chain scale. Now you can buy one if you want to but you can make your own to any scale you need for almost nothing.

We made our chain scales by taking an old piece of mylar carrier strip about 1/2" by 12". The reason this works so well is because it has an adhesive on the back, which will attach to just about anything. We lay the strip out and lightly pencil on increments of 66 feet at whatever scale we want to work on and then ink the increments, the numbers, and the scale on it. Be very careful that you place your marks accurately, and double check the over all length. Then we take the strip and pull off the protective cover to expose the adhesive and attach it to a triangle, scale or other straight edge. On a triangular scale the strip may be attached to the 30, 50 or 60 side which is not used frequently.

Several different scales for measuring chains may be applied to a triangular scale. We have found the surveyor's chain scale to be faster and easier to work with than converting dimensions in chains to

feet. So next time you get a deed using chains, don't reach for a calculator, reach for your new surveyor's chain scale.

Ken Eftink, Joseph Martin
Cape Girardeau County Mapping

HELP US GROW!

We welcome your contributions to our publication. We need your input to make our newsletter worthy of your interest. Please send any items of interest to: Mike Seabaugh • MMA Editor • 1003 Cathy Drive • Jackson, MO 63755.

M Land Surveying Service, Inc.



P.O. Box 83
Richmond, Mo. 64085

NAME THE NEWSLETTER

The following have been proposed as names for our publication. As announced, we will vote on our favorite during the annual meeting and the individual who submitted the winner will receive a free second year membership.

- Cartographer's Chronicle
- The Triangle
- Hot Line
- Registration Tick
- "Sho-Me-News"
- Cartographer's Benchmark
- M.M.A. "News"
- The Mappers
- Cadastral Mapping Newsletter

"THE LITE TABLE"

A new column dedicated to the proposition that: "All work and no play. . ." You get the idea. I'll kick it off with one I found in my "Important Papers" file. Send your contributions to: Mike Seabaugh • Publications Chairman • 1003 Cathy Dr. • Jackson, MO 63755

Censorship may or may not be exercised.

The Post Office Department at Washington, making a careful investigation of the titles to proposed post office sites in Louisiana, received title proof as far back as 1803, but not satisfied, wrote for evidence as to prior titles. An attorney replied.

"I note your comment upon the fact that the record of title sent you as applying to the lands under consideration, dates only from the year 1803, and your request for an extension of the record prior to that date.

"Please be advised that the Government of the United States acquired the Territory of Louisiana, including the tract to which your inquiry applied, by purchase from the Government of France, in the year 1803. The Government of France acquired title by conquest from the Government of Spain, the Government of Spain acquired title by discovery of one Christopher Columbus, traveler and explorer, a resident of Genoa, Italy, who by agreement concerning the acquisition of title to any lands discovered, traveled, and explored under the sponsorship and patronage of Her Majesty, the Queen of Spain, The Queen had varified her arrangement and received sanction of her title by consent of the Pope, a resident of Rome, Italy, and ex-officio representative and vice-regent of Jesus Christ. Jesus Christ was the Son and Heir Apparent of God. God made Louisiana. I trust this complies with your request."



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EDUCATION OPPORTUNITY FROM MMA

The Missouri Mappers Association and the Missouri Assessors Association will co-sponsor IAAO Course 6 in September, 1985. The specific time and location shall be provided at a later date.



JOHN H. VAN DEMAN
Consulting Representative
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