

# The MMA News

Volume 34 Issue 2

July 2018

## MMA Executive Committee

- President – Brenda Dryer
- President Elect – Sue Ann Stokes
- Secretary – Tonja Friend
- Treasurer – Lisa Perry
- 2017-2018 Director – James Theissen
- 2017-2019 Director – Matt Sorensen
- Immediate Past President – Carla Palmer

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*Missouri Mappers Association  
34rd Annual Conference  
August 7th -10th, 2018  
Oasis Hotel & Convention Center  
Springfield, Missouri*



## Letter from the President

### Good Day Missouri Mappers,

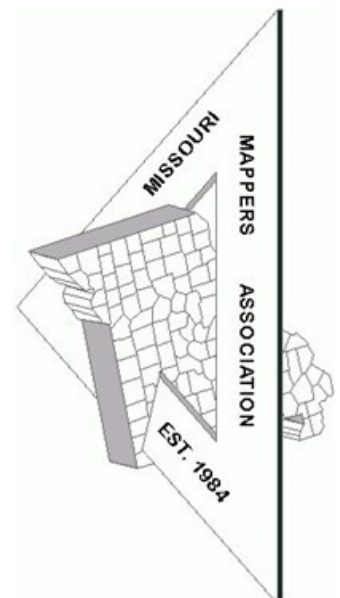
I wanted to thank you for letting me serve as your President for 2017-2018 year.

It was a pleasure serving with you this year. We had a fantastic board so it made my days in office and easy one. All I would ask is that you support your upcoming President and ask her/him what you could do to help make it as successful.

Thank you,

### Brenda Dryer

Chief Deputy Assessor Real Estate  
Lawrence County Assessor's Office  
P O Box 188 Mt Vernon, MO 65712  
417-466-2831 work  
417-229-1166 cell  
[lcmoassessor@sofnet.com](mailto:lcmoassessor@sofnet.com)



## Board Meeting Minutes

### Executive Board of Directors Meetings

October 19, 2017

Meeting called to order at 10:05am by President Brenda Dryer

Those present on the board were President Brenda Dryer, Past President Carla Palmer, President Elect Sue Ann Stokes, Secretary Tonja Friend, 2<sup>nd</sup> Year Director James Theissen, 1<sup>st</sup> Year Director Matt Sorenson, and Treasurer Lisa Perry unable to attend.

Meeting Minutes from June 22, 2017 read by Secretary Tonja Friend. Approved by Brenda Dryer and Seconded by Carla Palmer,

Treasurer Report prepared by Lisa Perry and read by Carla Palmer. Approved by James Theisson and seconded by Tonja Friend.

### Committee Reports:

**Annual Meeting:** Sue Ann Stokes reported that the committee has been working on updating the Assessor's list. The committee is putting together a list of diverse mapping groups to reach out and introduce Missouri Mappers Association. Sue Ann asked if anyone thinks of someone please reach out to them and share the MMA opportunity or forward their name to the committee. There was a suggestion that MMA have a contest of members that give names and contact information of non-members win a prize at the Conference this year.

Sue Ann suggested the possibility of putting photos of each member in the conference booklet with each member's contact information. The problem that she ran into was not having every member's photos. Amanda Bybee suggested requesting photos when returning membership forms.

The committee has had many good class suggestions and is working on a conference theme for this year.

## **Board Meeting Minutes (continued)**

### **Committee Reports:**

**Awards:** Nothing to report at this time.

**Certification:** Nothing to report at this time.

**Education:** Nothing to report at this time.

**Historical:** Nothing to report at this time.

**Media:** Amanda Bybee reported that she needs content for the newsletter. She wanted to remind members that MMA has a Face Book page. Amanda wants to put the information about the upcoming MMA Conference on the Face Book page as soon as the invitations are sent out. Everyone on the board agreed that was a good idea.

### **Chapter Reports:**

**East Central Chapter:** Stan Balsman President had nothing to report at this time.

**West Central Chapter:** Erin Glossip President reported that the chapter was planning on getting together for a corn maze and hotdog roast after their October meeting.

**South West Chapter:** Tiffany Roger President reported that she is in the process of working out a meeting possibly at the Askinosie Chocolate in Springfield, Missouri. She was planning a tour at the chocolate factory with a lunch after the tour. No date has been set for the meeting.

**North East Chapter:** Currently a vacant chapter.

**North West Chapter:** Matt Sorenson President reported that the chapter met for the 1<sup>st</sup> time in April and had a very successful meeting. He was able to reach out to half of the members in the North West Chapter. Matt is setting a goal to reach out to the other half for the next chapter meeting.

## **Board Meeting Minutes (continued)**

### **New Business:**

Sue Ann Stokes suggested adding current committee chairs and members to the website as well as their contact information. The committee lists are passed around during the conference. There may be a member who cannot attend the conference who may want to serve. This will make it easier for them to make contact with the appropriate committee chair. The board all agreed to the change. Sue Ann said that she will get those changes to Ryan (who maintains the website).

Carla Palmer made a suggested that a flyer (as well as a digital copy) be made that would explain what Missouri Mapper Association was about. Carla was not sure what to do but suggested that a committee of volunteers be formed. Carla said that it didn't have to be very big it could be the size of a post card. Something to give out that was colorful and eye catching. Matt Sorenson said that he had put together a pdf flyer in an 8x11 high glossy paper for his office. Matt suggested getting together with Katie Shepherd and see if they could come up with something. Carla offered the MMA logo that she had in digital form. Matt said that he will report back to the committee after he talked to Katie.

Meeting Adjourned 10:55 am



## Board Meeting Minutes

### Executive Board of Directors Meetings

March 15, 2018

Meeting called to order at 10:05am by President Brenda Dryer  
Those present on the board were President Brenda Dryer, Past President Carla Palmer, President Elect Sue Ann Stokes, Secretary Tonja Friend, 2<sup>nd</sup> Year Director James Theissen, 1<sup>st</sup> Year Director Matt Sorenson, and Treasurer Lisa Perry.

Meeting Minutes from October 19, 2017 read by Secretary Tonja Friend. Approved by Carla Palmer and Seconded by Matt Sorenson.

TREASURER'S REPORT read by Lisa Perry. Approved by Carla Palmer and Seconded by Katrina Williams as of March 12, 2018.

|   |                        |
|---|------------------------|
| <b>BALANCE as of Oct. 19, 2017</b>      | <b>\$19,955.32</b>     |
| RECEIPTS                                | \$2,612.92             |
| <br>BALANCE + RECEIPTS                  | <br>\$22,617.24        |
| DISBURSEMENTS                           | \$2,238.30             |
| ANNUAL MEETING                          | \$0.00                 |
| AWARDS                                  | \$0.00                 |
| POSTAGE                                 | \$94.00                |
| HISTORICAL                              | \$0.00                 |
| EDUCATION                               | \$0.00                 |
| DONATIONS                               | \$0.00                 |
| ADVERTISING                             | \$0.00                 |
| MISC. EXPENSES                          | \$0.00                 |
| MILEAGE                                 | \$0.00                 |
| INFO TECH                               | \$0.00                 |
| CONFERENCE CALLS                        | \$28.33                |
| Misc. Service Fee for Checking          | \$3.00                 |
| Misc. Charges (fraudulent charge)       | \$2066.92              |
| <br><b>BALANCE as of March 12, 2018</b> | <br><b>\$20,378.94</b> |

## **Board Meeting Minutes (Continued)**

### **Committee Reports:**

**Annual Meeting:** Sue Ann Stokes reported that the committee is still looking for workshop presenters. The committee has not heard back from several requests sent to potential presenters.

Entertainment for Tuesday night has been finalized, but Thursday night is still being figured out. Sue Ann asked for any suggestions on possible entertainment options from the board members.

If a hands on lab is being held at the annual meeting, laptops will be needed. Matt Sorenson said he had a contact that may be able to help and that he will contact him.

**Awards:** Nothing to report at this time.

**Certification:** Nothing to report at this time.

**Education:** Katrina Williams wanted to remind everyone about the 601 class that was being held in Lawrence County May 21 – 25, 2018. The cost of the course for MMA members is \$575.00 and non-members \$600.00. This covers instructor fees and material. Brenda Dryer reported that there were only 8 people who have signed up for the class so far. She asked the board to reach out to see if there was anyone they may have overlooked that might be interested in going to the class.

MAGIC Consortium will be held in Omaha, NE April 22 -26, 2018.

ESRI Conference will be held in San Diego, CA July 9 – 16, 2018.

**Historical:** Katrina Williams reported that she would like to send MMA archives to the Missouri State Historical Society. All agreed that this was a good idea.

**Media:** Amanda Bybee reported that she would like to get more content for the newsletter.

**Legislation:** Currently vacant.

**Membership:** Nothing to report at this time.

## **Board Meeting Minutes (continued)**

### **Chapter Reports:**

**East Central Chapter:** Nothing to report at this time.

**West Central Chapter:** Nothing to report at this time.

**South West Chapter:** Nothing to report at this time.

**North East Chapter:** Currently vacant.

**North West Chapter:** Matt Sorenson reported that the chapter was planning a meeting April 6<sup>th</sup>, 2018. He currently had 11 members who were willing to attend. Carla Palmer commended Matt for his effort that he has put into reviving the chapter after being vacant for so long.

**Old Business:** Revisited the flyer/pamphlet for the MMA table. Matt Sorenson said that he would be able to put one together easily using the information that is currently on the website. Carla Palmer offered to provide the MMA digital logo if Matt needed it. Meeting adjourned at 10:45am. Approved by James Theisson and seconded by Tonja Friend.



**Treasurer's Report****June 28, 2018****BALANCE as of March 12, 2018** **\$20,378.94****RECEIPTS** **\$17,430.00****BALANCE + RECEIPTS** **\$37,808.94****DISBURSEMENTS** **\$10,858.86**

ANNUAL MEETING \$100.00

AWARDS \$0.00

POSTAGE \$0.00

HISTORICAL \$0.00

EDUCATION \$9,783.50

DONATIONS \$0.00

ADVERTISING \$400.00

MISC. EXPENSES \$0.00

MILEAGE \$0.00

INFO TECH \$0.00

CONFERENCE CALLS \$60.36

Misc. Service Fee for Checking \$0.00

Misc. Charges (fraudulent charge) \$515.00

**BALANCE as of June 28, 2018** **\$26,950.08**

## Annual Committee Meeting Report

June 28th, 2018

We are 6 weeks away from our 34th Annual MMA Conference AND looking forward to our new location in Springfield this year. Our 2018 schedule includes 3 educational workshops and 8 informative presentations. As always, we hope everyone takes advantage of the networking/social activities we've lined up as well.

Earlier this year we sent out 216 Annual Conference Registrations and 96 Vendor Registrations. Registrations are still coming in but as of today we have received 56 registrations, 22 of those are either new to MMA or did not attend last year. We have a total of 6 Vendors so far. Ken Wilkerson with GISEDGE Inc. is new to MMA.

Respectfully Submitted,

Sue Ann Stokes

MMA Conference Committee Chair



## Certification Committee Report

The Certification Committee has had a candidate successfully complete the PMM exam, and they will be receiving their designation at the Annual Meeting. No one has applied to take the exam since 2009. This marks the first time in Missouri Mappers Association history that anyone has taken the exam in GIS format. For anyone who would like to take the exam, applications will be accepted in January, and the exam will be given in late March or early April. Please contact any Certification Committee member for a copy of the PMM Designation Program Outline.

Respectfully submitted,

Tim Kean PMM

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## Media Committee Report

If you are a current MMA Committee or Chapter Chair please submit your reports for our next newsletter. Like us on Facebook and be sure to check out our website.

Respectfully Submitted,

Amanda Bybee

Media Committee Chair

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Do you know an outstanding mapper?

Do you have an amazing boss?

Nominate them!

Check out the list of past recipients on our website.

<http://www.missourimappers.org/awards/>

## **Membership Committee**

The Membership Committee has been working to identify non-members within county government. As of today (January 30, 2018) our membership stands at 89 paid members. If anyone knows of someone who works in mapping or an associated field, please give them information on Missouri Mappers. A registration form can be found on the MMA website or they can call or email me at the following: Phone - 417-745-6346 or email - [martisuiter@aol.com](mailto:martisuiter@aol.com).

Marti Suiter, PMM

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## **Awards Committee**

The Awards Committee will be presenting awards for “Mapper of the Year” and “Outstanding Boss of the Year” at this years Annual Meeting. Please be thinking of who you want to nominate for next year.

Respectfully submitted,

Alice Lee, PMM

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## **Committees Without Updates to Report:**

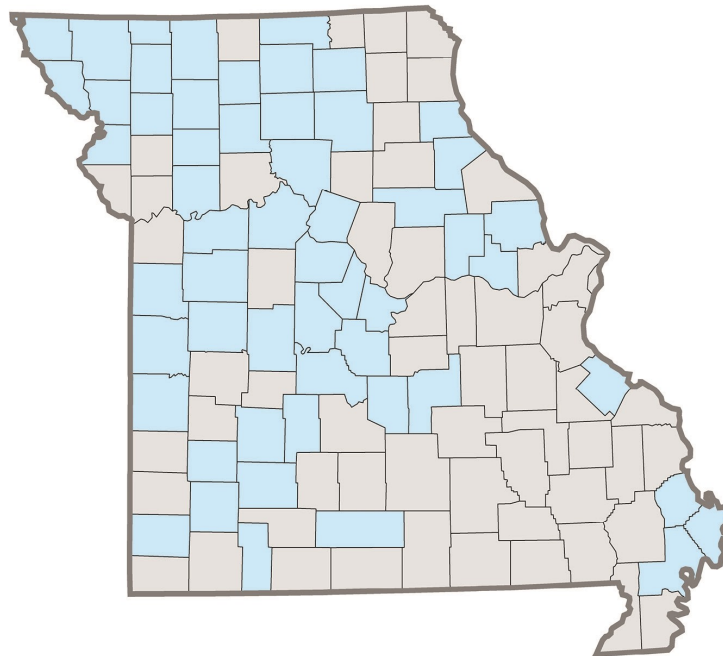
- **Awards Committee**
- **Education Committee**
- **Historical Committee**
- **Legislation Committee**





# PROUD MEMBER

*of Missouri Mappers since 2005!*



Midland GIS Solutions has been mapping Missouri for more than 18 years and provides a wide-range of dependable and accurate GIS solutions for every aspect of local government. We look forward to serving you for many years to come!

Discover a GIS solution for your County or City at [www.midlandgis.com](http://www.midlandgis.com)!



## SEE YOU IN SPRINGFIELD

*at the 34th Annual Conference!*

**Midland GIS Solutions**  
501 N. Market  
Maryville, MO 64468  
Phone: 660.562.0050

**Matt Sorensen**  
Sr. Vice President  
[sorensen@midlandgis.com](mailto:sorensen@midlandgis.com)



## Conference Workshop Information

### **2018 Missouri Mappers Association Conference** **Wednesday Workshops August 8<sup>th</sup>**

#### ***Introduction to ArcGIS Pro Workshop – Ken Wilkerson, GISEDGE, Inc.***

*This workshop helps you get ready for your conversion to ArcGIS Pro. We'll see how to import map documents into ArcGIS Pro and how to perform many of the tasks you are familiar with in your daily use of ArcMap: working with symbology and layer properties, building queries, running tools, making a layout, etc.*

#### ***GIS: Collection to Analysis to Final Product – Kristen Wenzel, TREKK Design Group, LLC***

*Through this workshop, we will be learning the benefits of using GIS, and understanding the process from start to finish. During the workshop, there will be field data collection, importing\exporting into GIS software, and learning different tools within the software to analyze what you collect. There are hundreds of programs out there for both the data collection side, as well as analysis. Together we will go through a few open source options, as well as the ESRI suite to get an overall understanding of what each program can do for you. In addition, we will cover a few new GIS technologies that have recently surfaced, and ones that are in the works. This presentation will not be specific to any one industry in order make sure every participant benefits from the workshop. Come with questions and figure out how GIS can fit for you!*

#### ***Getting Started with ModelBuilder - Ken Wilkerson, GISEDGE Inc.***

*Esri ModelBuilder (MB) provides a visual programming environment for combining data and tools to automate tasks and create custom tools. This course will introduce MB processing with hands-on exercises demonstrating the creation of models ranging from simple to complex. You will learn how to quickly and effectively develop models that help you become more productive ArcGIS users.*



## Conference Workshop Information

### Thursday Presentations August 9<sup>th</sup>

#### **Keynote Speaker- Christopher Dunn**

Chris Dunn is a veteran, business owner, practicing attorney, and expert geospatial witness. He holds a Juris Doctor from the University of Missouri – School of Law, Columbia as well as a Masters and Bachelors in geography from Kansas State University. His firm GeoVelo, LLC, uses Geographic Information Systems (GIS) and 3-D modeling software to make special purpose maps and 3-D digital crime scene reconstructions. Chris's favorite projects involve mapping and documenting complex, long-standing, property boundary conflicts. Past projects have required authenticating the boundaries and the chain of title to a time before Missouri's statehood. Prior to law school, Chris had a 20-year career as the director of several planning, zoning and community development departments. Prior to that, Chris spent some time overseas as an Explosive Ordnance Disposal (EOD) technician defusing IED's, and generally making a mess out of some very bap people's arms stockpiles and critical infrastructure. Chris regularly gives presentations on geospatial legal issues. He is a father, grandfather, member of the Missouri Bar, Eagle Scout, has won awards for his urban planning, filmmaking, and pro-bono legal work. More information is available at [www.MoGovLaw.com](http://www.MoGovLaw.com) or [www.GeoVelo.org](http://www.GeoVelo.org)





## Conference Workshop Information

### **The Canary Project- Ryan Hunt & Jordan Coiner**

Using public data from a variety of sources to complete a wide spectrum analysis of health and social factors to share with project and community partners using the ArcGIS Online Story Map platform as a sharable and presentable repository of this analysis and findings. I will be presenting on the GIS side of things, both analysis and setting up Story Maps. Jordan will be discussing the Health Dept side of the project with use cases, project reach, and some data methodology.

*Ryan Hunt is a Senior GIS Specialist with the City of Springfield. He has worked with the City full time for a little over 2 years now. Prior to that Ryan was with an engineering consulting firm out of Joplin Mo for 2 years working on his own client base in training and GIS maintenance. Ryan graduated with a BS in Geology with a minor in GIS from Missouri State University in 2014.*

*Jordan Coiner is a Performance Management and Data-Driven Decision Making Specialist. He has worked at the Springfield-Greene County Health Department for nearly four years. Jordan graduated from Missouri State University in 2014 with a BS in Biology and a minor in Chemistry. His main focus is to encourage data-driven decision making in the department and community.*

### **Herrmann Brain Dominance Instrument- Karla Deaver**

For some, taking the HBDI® suddenly identifies a lifetime pattern of personal and professional choices. For others, it sends signals as to which area of interpersonal growth cries out for development. And yet others find that HBDI® results lend insight to the inner workings of past and current relationships with family members and friends. Karla's presentation will focus on getting to know ourselves and our thinking styles.

*Karla Deaver is a 4-H Youth Development Specialist with University of Missouri Extension, headquartered in Lawrence County. She holds a M.S. in Dairy Science from the University of Missouri-Columbia, and a B.S. in Dairy Science from Missouri State University. Karla is a certified practitioner of the Herrmann Brain Dominance Instrument, a quick, easy-to-take survey that registers and interprets thinking preferences.*

### **ESRI Survey123 - Joe Madej & Carol Burnis**

Carol and Joe will be talking about ESRI Survey123. They will be talking about how to turn your paper form into a usable crowdsourced data collection form.

*Carol Burnis has over 10 years of experience in the GIS/Mapping industry in various roles. Previous to working for Seiler, she worked for a local municipality's Public Works, Planning and Parks departments performing field collection, data analysis, cartography, database design/maintenance, training and support. Before starting this role, Carol provided Mapping Technical Support to Seiler's customers across all markets and hopes to be a resource to our customers in this position as well.*

Joe is a member of the Seiler Instrument Mapping Technical Support team in St Louis, MO. He serves in technical support and a Certified Trimble trainer of both Trimble mapping hardware and software. Prior to Seiler, Joe has spent his 10+ year GIS career working on Federal and Local Government projects, rural water line mapping, and field data collection. Joe holds a Bachelor's degree in Science with an Area of Specialization in GIS from Southern Illinois University Edwardsville. He also holds his GIS Professional Certification.

## Conference Workshop Information

### **UAS Mapping - Steve Kasten**

UAS mapping has become a popular topic today for GIS professionals. Many GIS users are making use of imagery and mapping data extracted from UAS imagery. As the software for these applications has developed, we have seen various levels of accuracy and precision being created. This presentation will address some of the issues associated with the collection, processing and exploitation of UAS imagery and present techniques to assess and assure the quality of the data produced.

*Steve Kasten has over 35 years of experience in the fields of photogrammetric engineering application development, photogrammetric mapping, geodesy, cartography and surveying. While at Surdex, Steve has performed disparate duties that include the management of photogrammetric projects, airborne GPS survey data and triangulation. In addition to his extensive project management experience, Steve has experience providing direct photogrammetric engineering support services. He is skilled in developing algorithms for sensor modeling, post processing of GPS data, error propagation, photogrammetric data reduction, and implementing algorithms into engineering programs.*

### **Python - Next Level: User Interface, Error Logging, Configuration Files – Robert Meier**

This presentation will introduce TKinter, the most popular GUI library for Python. You will learn how to create basic forms with buttons, labels, text boxes and list boxes, as well as, call message, file and folder dialogs.

For lengthy and complicated scripts, error catching and logging can be an important debugging tool, you will be shown how to create a log file, catch errors and log different messages.

Configuration files can add versatility to a script, instead of hard coding values in your code, read them from a configuration file. Holding values (file paths, field names, text values, etc.) in a configuration file specific to a process or client, can make one script usable for multiple jobs.

*Robert "Bert" Meier has been a GIS professional for over 25 years. He has experience ranging from data creation to application development. He has worked in municipal government and private industry where he provided GIS services to public works, water, wastewater and rail clients. He is an expert in most ESRI software and an experienced developer using, C#, VB, JavaScript and Python. Currently with TREKK Design Group, Bert is using his programming skills to automate Sanitary Sewer Evaluation Studies and MACP data processes.*



## Chapter Reports

### Northwest Chapter Report

The NW Chapter meeting was held at the Nodaway County Administration Center on April 6, 2018. We had a really good turn out with 12 attendees from various counties in the NW region.

I gave everyone that attended the meeting a MMA membership application and pulled up the MMA website to inform everyone what MMA is about and to let them know about the upcoming MMA conference in Springfield.

The following items were discussed and demonstrated at the meeting:

- ♦ How counties are utilizing Pictometry imagery directly within their GIS websites.
- ♦ How counties are analyzing and displaying their CAMA data within a GIS platform.
- ♦ The new ArcPro software

Matt Sorensen, Northwest Chapter President

### West Central Chapter Report

Our group was very excited to be able to have a fall meeting last year. We took a tour of the Shryock corn maze in Callaway County. It was a great time mapping out the maze and finding as many of the 8 checkpoints as possible. We ended our time with a meeting around the campfire roasting hot dogs and marshmallows to discuss possible locations for our next meeting and way to boost membership. It was great to see some new faces attend and we look forward having at least one more meeting before seeing everyone this summer at the MMA conference in Springfield.

Arron Kettle, Chapter President



## State & Local GIS Events

# Ninth Annual Southeast Missouri Geographical Information Systems (GIS) Symposium



### ***Making GIS work in Southeast Missouri***

Cape Girardeau Career and Technology Center  
1080 S. Silver Springs Road  
Cape Girardeau, MO 63703

**Sponsored by:** MGISAC - <http://www.mgisac.org>;  
Missouri Mappers Association - <http://www.missourimappers.org>;  
Cape Girardeau Career & Technology Center - <http://www.capectc.org>;  
and East Central Missouri Mappers



Missouri Mappers Assoc.  
& the  
East Central Chapter  
of the MMA

**Date:** Wednesday, September 19, 2018  
**Times:** 8:00 a.m. - 3:00 p.m.



### **Conference Presenters:**

- |                    |  |
|--------------------|--|
| 8:00 – 8:30 a.m.   | Sign In and Vendor Set Up  |
| 8:30 – 9:00 a.m.   | Sponsor Recognition and Introductions  |
|                    | Stan Balsman, Southeast Missouri Regional Planning Commission:   |
|                    | Sue Ann Stokes, Missouri Mappers Association Update  |
|                    | Colin Duewell, MGISAC Chair: Updates with MGISAC   |
| 9:00 – 9:30 a.m.   | ESRI   |
| 9:30 – 10:00 a.m.  | Brian McCutchin, Park Superintendent, Fort Donnelson, TN: <i>Uncovering the REAL Battlefield: Utilizing Historic Maps with Modern GIS Technologies to Discover the True Battlefield Landscape of Fort Donnelson, TN.</i> |
| 10:00 – 10:15 a.m. | Break with Vendors   |
| 10:15 – 10:45 a.m. | Chris Kleinlein, KFVS: <i>The Future of Location-Based Advertising</i>   |
| 10:45 – 11:15 a.m. | Derek Meisner & Dakota Oehl, NRCS: <i>NRCS's Use of ArcMap &amp; LiDAR</i>   |
| 11:15 – 12:30 p.m. | Lunch Provided: Vendor Introductions and Prize Drawing   |
| 12:30 – 1:00 p.m.  | Sara Van Woert, Police Analyst, Office of the Chief of Police, St. Louis County Police Department: <i>GIS and Crime Analysis</i>   |
| 1:00 – 1:45 p.m.   | Jeff Briggs, Earthquake Program Manager, Missouri State Emergency Management Agency: <i>Earthquakes &amp; the New Madrid Seismic Zone</i>  |
| 1:45 – 2:30 p.m.   | Brian Blake, Central US Earthquake Consortium, Memphis, TN: <i>Using GIS to Support Disaster Risk Reduction &amp; Emergency Management Planning</i>  |
| 2:30 – 3:00 p.m.   | Carol Burnis, Seiler Equipment: <i>Using Survey 123 with Collector for ArcGIS</i>  |
| 3:00 p.m.          | Wrap Up  |

## MGISAC Workshop

Southwest Regional GIS Workshop – November 1, 2018  
Begin: 8:30 AM -TBA

Location: Carthage Water and Electric Plant  
627 W. Centennial Ave., Carthage Mo., 64836

## In the News

### **Smart Cities**

The potholed streets, coin-operated parking meters, and drafty brick buildings many of us interact with every day haven't changed much in a century. But it's finally happening, cities across the globe are installing technology to gather data in the hopes of saving money, becoming cleaner, reducing traffic, and improving urban life. For more information from the article, visit:

[Digital TRENDS - America's Premier Smart City](#)

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### **Technology Driven**

By 2020, Census hopes to reduce nonresponse follow-up, increase self-response and better communicate with community leaders with the Response Outreach Area Mapper, or ROAM. For more information from the article, visit:

[Government CIO Media - GIS Tech 2020 Census](#)

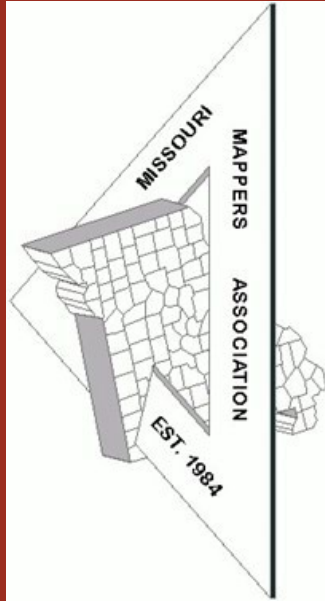
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### **Mixed Reality - More Than Gaming**

Len Bundra of Toms River Municipal Utilities Authority (TRMUA) sees many uses for GIS data and mixed reality. One involves coordinating the input of various agencies when planning buildings. Through an AR device, "You can have the New Jersey DOT sitting in Trenton, the water company sitting in Parsippany, the MUA sitting in Toms River, all looking at the same mini-map from the same perspective, discussing what's going to happen to this vacant lot in Toms River when it becomes a four-story condo," Bundra says. For more information, check out this one of many drone articles:

[ESRI - Mixed Reality](#)





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|                      |                        |
|----------------------|------------------------|
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| <b>1/4 Page</b>      | <b>\$50 per issue</b>  |
| <b>1/2 Page</b>      | <b>\$75 per issue</b>  |
| <b>Full Page</b>     | <b>\$100 per issue</b> |

Article and news submissions for any topic that cover issues that are important to all of members and the mapping community be sent via email or snail mail to the following address for consideration for future publications.

Amanda Bybee  
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Suite B  
Springfield, MO 65807  
[abybee@trekkdesigngroup.com](mailto:abybee@trekkdesigngroup.com)

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