



2020 Midwest Esri Utility User Group Conference



March 25th thru the 27th at the Kahler Grand Hotel in Rochester, MN
Hosted by Rochester Public Utilities



Track 1	GIS Beginners Classes
Track 2	GIS Intermediate & Advanced Classes
	Sponsor Presentations

Wednesday, March 25, 2020

11:30 am - 4:30 pm		Registration
12:30 pm - 5:00 pm	Exhibits Open	Sponsor Presentations -
12:30 pm - 1:15 pm		Clevest - Showing more value from your investment in GIS
1:15 pm - 2:00 pm		Power System Engineering - GIS Integration Workflows with SCADA/AMI/OMS Systems
2:00 pm - 2:15 pm		Afternoon Break
2:15 pm - 3:00 pm		Ptarmigan Software - Latest Developments from Ptarmigan
3:00 pm - 3:45 pm		WSB - WSB's Datafi: Utilizing Esri's Platform for Effective Field to Office Data Management
3:45 pm - 4:30 pm		POWER Engineers - POWER Better Decision Making Through Improved Energy Asset Management
5:00 pm - 8:00 pm		Vendor Hall Evening Social & Digital Showcase*
<p>*Digital Showcase – Bring your favorite device and showcase how you are using Collector, Explorer, Survey 123, or Operations Dashboard. No device. No problem. Laptops will be available to display your applications. If you are interested please contact MWEUUG Committee Members.</p>		

Booth Sponsors



Break Sponsor



Logo Sponsors



Utility Break Sponsor



Hotel Information

A block of rooms has been reserved at: The Kahler Grand Hotel

Address: 20 2nd AVE SW, Rochester, MN 55902

Phone: (507) 280-6200

Rooms must be reserved by March 4th to receive the group rate of \$129. After 3/4/20 any rooms reserved will be subject to their Best Available Rate and the Group Rate will not be honored. Mention **Mid-West ESRI Utility Users Group Conference** when making your reservation or use the following link: [2020 Annual MWEUUG Conference](#)

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Thursday, March 26, 2020

8:00 am - 8:05 am	Welcome - General Assembly	
8:05 am - 9:00 am	Plenary Session - Tell us what you are doing	
9:00 am - 10:00 am	Keynote Speaker - What must a modern utility GIS deliver to create value? Pat Hohl Esri Director - Electric Industry Solutions	
10:00 am - 10:15 am	Morning Break	
10:15 am - 12:00pm	Esri - Utilities overview Keith Krall	
12:00 pm - 1:00 pm	Lunch Break	
1:00 pm - 2:00 pm	Survey 123 for your Utility Stella Harm - Riverland Energy	Empower your organization through GIS Ryan Elvrum - Moorhead Public Service
2:00 pm - 3:00 pm	Getting Started with ArcGIS Pro Robert Borchert - Great River Energy	Creating a GIS roadmap to gain management Buy-in Kate Scheurer - Owatonna Public Utilities
3:00 pm - 3:15 pm	Afternoon Break	
3:15 pm - 5:30 pm	GIS at Arrowhead: Hosting data in ArcGIS Online Steve Waver - Arrowhead Electric Cooperative	Implementing an ArcGIS Upgrade along with Portal Joe Jakusz - Dairyland Power
	Portal Collaboration Angela Hauge - Elk River Municipal Utilities Mike Siedschlag - Great River Energy	Getting your organization off Google Earth & into Web GIS Pete Metzger - Minnkota Power
		Survey 123, Office 365, and SharePoint for encroachment applications Jeff Grussing - Great River Energy
6:00 pm - 10:00 pm	Group Dinner and Social at Dooley's Pub	

Exhibits Open at Breaks

Utility Sponsors



Friday, March 27, 2020

8:00 am - 9:00 am	MWEUUG Business Meeting / Q & A Session
9:00 am - 9:15 am	Morning Break
9:15 am - 11:45 pm	Digital Showcase Follow-up Discussion Monitor you GIS System Health with ArcGIS Monitor Ryan Moore - Rochester Public Utilities Disaster Recovery: Do you have a backup plan? Panel Discussion Jeff Grussing, Chad Schauf, Jay Forstner, Todd Copeland Conversion to ArcGIS Pro from AutoCAD...Year <u>THREE</u> are we done yet!?!? Steve Hanson - Detroit Lakes Public Utilities
	Adjourn
	11:45 pm

Vendor Presentations – Wednesday March 25

Clevest - Brad Johnson

Showing more value from your investment in GIS

Explaining the value of an investment in technology is not typically a topic covered in formal training for GIS professionals, but is something that more and more you are being asked to do today. Brad Johnson will walk through several scenarios that GIS Professionals are using as examples of returning value to a utility for their investment in GIS and the continued improvement of both the tools and the quality of the data. He will also discuss several future use cases that are gaining popularity in the utility industry including the use of augmented reality, which will rely heavily on highly-accurate GIS data as a foundation.

Power System Engineering, Inc. - Logan Suhr

GIS Integration Workflows with SCADA/AMI/OMS Systems

Leveraging GIS data in foundational utility systems like SCADA and AMI/OMS opens the door to managing your distribution systems with much greater visibility. This session will share examples of integrations other utilities are implementing when integrating with a GIS. We will discuss integration processes with the ArcGIS web mapping API, tile caching, data transformation with FME and MultiSpeak calls that can operate on top of geometric as well as utility network connectivity models.

Ptarmigan Software - Gregg Noland

Latest Developments from Ptarmigan

Demonstrations and discussions about the latest work going on at Ptarmigan to support the Esri Utility customer base.

Gregg Noland is VP of Operations for Ptarmigan Software, an Esri Business Partner located in Topeka, KS. He oversees the product development and services work performed for utility clients across the continental US, Alaska and Guam. Gregg's past experience is in the gas and electric transmission and distribution space with over 30 years as Senior Manager of IT for the Engineering and Operations group of a major electric utility.

WSB - Justin Hansen

WSB's Datafi: Utilizing Esri's Platform for Effective Field to Office Data Management

Datafi is a field-to-office data management solution that's designed to streamline your organization's operations. Built upon ArcGIS and Esri technology, Datafi simplifies field data collection process by integrating Esri's mapping and field technologies together in one single work flow. Use Datafi to manage projects, property assessments, incident response and more. Assign tasks to your workforce to complete inspections, capture project photos, perform audits, and collect GIS data.

POWER Engineers - Bill Hoisington

POWER Better Decision Making Through Improved Energy Asset Management

POWER360AMS is a GIS-centric asset and work management solution from POWER Engineers. Built on the successful Cityworks AMS and ESRI GIS platforms, the POWER360AMS solution combines data from multiple systems to provide a complete asset registry for Generation, Transmission and Distribution assets. POWER360AMS provides flexible workflows configurable to support each stage of the asset lifecycle. Establishing a traceable workflow, configured to each utility's needs, POWER360AMS provides the data and analysis tools required to improve ROI, reliability, and safety.

General Session Presentations – Thursday March 27

Plenary

Chad Schauf, Todd Copeland

In this group discussion we will focus on you and how you are or plan to use GIS, discuss challenges you face and what you're Utilities future GIS plans are. How are you using GIS currently? What challenges are you encountering? What projects are you working on? What do you want to implement but need assistance with? What is your GIS plan or initiatives for next year, five years and ten years?

Keynote Speaker

What must a modern utility GIS deliver to create value?

Pat Hohl Esri Director - Electric Industry Solutions

Utilities face many challenges including; advanced network management, increasing customer expectations, aging workforce and infrastructure. Location technology is an enabler to manage all forms of information, understand its true meaning, and communicate the business value to all stakeholders.

Pat Hohl, PE is Esri's Director of Electric Industry Solutions. He oversees the planning and execution of Esri's go-to-market strategies in the Electric Industry, primarily in the U.S.A. Hohl was a pioneer in electric utility GIS technology. He has a broad business background with over 35 years of progressive experience in engineering, technology, operations, and executive management. Hohl is an accomplished author, consultant, and university professor. He is a registered professional engineer in the state of California.

Beginner Breakout Sessions

Getting Started with ArcGIS Pro

Robert Borchert - GRE

ArcMap Desktop program for many is the bread and butter of their Geographical Information System interface. More and more GIS are migrating towards supplying GIS to the end user on line. Enter ArcGIS Pro, a software application designed for the GIS creator who wants to put content online. ArcGIS Pro is built for GIS online, but it is different enough from ArcMap that it may be difficult to get started without some sort of training. This session will start off with the expectation that you have never used ArcGIS Pro but would like to learn how to get started. We will see how well ArcGIS Pro interfaces with ArcGIS Online and Portal and how it may assist in developing your online presence.

Robert Borchert has a degree in Geography from Saint Cloud State University and I have been a GIS Professional since 1997. I have worked in E911 and Electric for Transmission & Distribution since 2001. A large part of my Electric work has been the conversion from other formats into ESRI GIS, maintaining those databases and providing deliverables (paper map products and CarryMap). My last 2-3 years my focus has shifted entirely to providing GIS Online for Great River Energy. I currently work mostly with Telecommunications.

GIS at Arrowhead: Hosting data in ArcGIS Online

Steve Waver - Arrowhead Electric Cooperative

Low cost way for small utilities to get into GIS using ArcGIS online and hosting your data in the cloud. See how Arrowhead Electric Cooperative is using AGOL to help collect and disseminate their GIS data for office and field operations.

Survey 123 for your Utility

Stella Harm - Riverland Energy

Riverland uses Survey123 currently for the crews to complete pole change outs, all of their inspections, chargeable accidents, and outage meal expenses. The office employees also use it for fire extinguisher inspections, mileage reimbursements, and personnel expense vouchers. I will show how to get started with Survey123, including cheat sheets, create and publish a survey with the features, and show how to create web hooks to have the survey submissions emailed out in Word and PDF format.

Stella has been with Riverland Energy Cooperative for 5 years. She is responsible for maintaining and updating the company map, monitoring the outage management system, assisting and scheduling the meter technicians, and maintaining all ESRI based applications. Stella also implemented the use of Survey123 to help Riverland transition into going paperless.

Portal Collaboration

Angela Hauge - Elk River Municipal Utilities

Mike Siedschlag - Great River Energy

Distributed collaboration is a way to connect multiple Enterprise portals together to share precisely the GIS content they desire between two or more organizations, departments, or business. In this presentation, we will explore what is distributed collaboration, layout the steps needed to establish trust between two enterprise portals, and the steps needed to share the desired GIS content using collaboration.

Intermediate and Advanced Breakout Sessions

Empower your organization through GIS

Ryan Elvrum - Moorhead Public Service

Through the use of interactive, visual, and accessible tools, GIS can improve workflows, increase situational awareness, and keep its users in sync with their spatial-related responsibilities. Show your organization that you're more than just a map-maker by leveraging technology and data to rapidly adapt to the evolving needs of your organization. I will be discussing ways of using web maps, applications, mobile devices, and data that lead to more informed decisions, enhance day-to-day operations, and empower your organization through GIS.

Ryan is a GIS analyst with Moorhead Public Service (MPS), a water and electric utility located in Moorhead, Minnesota. He has been doing GIS at MPS for just over 2.5 years. Ryan attended Minnesota State University Moorhead where he received a B.S. in Geoscience with an emphasis in Geology in 2017. Some things I enjoy are making beautiful maps, traveling, reading, and coffee!

Creating a GIS roadmap to gain management Buy-in

Kate Scheurer - Owatonna Public Utilities

Have you ever had management say you are the expert and then look to you for the vision of GIS? Maybe you asked for more resources such as software, hardware, or personnel and received a no. Or my favorite, what is there left to do? As GIS professionals we all know there is so much more we could be doing if we could get decision makers to see the overall vision. I will be sharing with you the presentation I used to gain attention from management and help outline the progress that is still needed to reach the full potential of GIS in our organization.

Kate Scheurer is a GIS Analyst at Owatonna Public Utilities. At OPU, she helps manage municipal electric, gas, water, and company fiber systems in a two-person GIS department. Kate has transformed the electric system from CAD to Enterprise GIS with NISC outage management integration in six years. In that time, OPU has also developed an ESRI Enterprise environment in Amazon Web Services and deployed mobile apps for use in the field.

Implementing an ArcGIS Upgrade along with Portal - Best Practices, Tips & Tricks

Joe Jakusz - Dairyland Power

Dairyland Power performed an upgrade from ArcGIS 10.4.1 to 10.7.1 along with a new installation of Portal for ArcGIS in December 2019. This presentation will detail the process from design, implementation, tips and tricks, and lessons learned on bringing these systems on to a production system. Topics to be covered are new software installs, resource needs, ArcGIS server requirements, database upgrades, migration of data, relocation of processes and services, licensing needs, internal WebGIS modifications, and mobile application considerations.

Survey 123, Office 365, and SharePoint for encroachment applications

Jeff Grussing - Great River Energy

Learn how to use Survey 123 and the connector provided between Microsoft Office 365 to manage day to day workflows. The use case example will be how Great River Energy's encroachment application process.

Getting your organization off Google Earth and into your Web GIS, finding solutions to break the grip.

Pete Metzger - Minnkota Power

Google Earth is one of the most popular GIS out there and has some proprietary information that people look to, namely Street view and their higher resolution imagery comprised, largely of, Digital Globe satellite imagery. Street view is not available to integrate with our Esri enterprise GIS (and is outdated for our use at this point), and Digital Globe imagery is prohibitively expensive. This led us to look for new solutions to meet our user's needs. We will be demonstrating how we used both ground and low altitude aerial photography, using a UAS, to demonstrate how we can gain higher spatial and temporal resolution imagery of our assets. I'll also demonstrate how to include this data in your web GIS.

Conference Surveys

Use this link <https://arcg.is/1WfCfn> or the QR Code Below to access the conference surveys.



General Session Presentations – Friday March 28

Business Meeting MWEUUG Committee

We look to the users to provide direction for next year's conference. What should we change or better improve upon? What are your likes and dislikes about the conference. What topics do you want to hear presented on? We will also show you the ArcGIS Ideas page and how we can be an influence on the direction of Esri's development team. Announce next year's venue and host utility.

Utility Presentations

Digital Showcase Follow-up Discussion: Collector for ArcGIS, Explorer, Survey 123, Operations Dashboard... Lightning Talks

Quick five minute presentations showcasing your digital masterpiece. Bring your favorite device and showcase how you are using Collector, Explorer, Survey 123, or Operations Dashboard. No device. No problem. We will have laptops for you to display your application. If you are interested please contact MWEUUG Committee Members.

Monitor your GIS System Health with ArcGIS Monitor Ryan Moore - Rochester Public Utilities

Identifying performance issues within your GIS platform can be difficult to troubleshoot. Is it due to server hardware constraints such as CPU, RAM, Disk Space? Is your enterprise geodatabase state tree or version count high? What data can you use to prove or disprove "slow performance" reported by your users? ArcGIS Monitor can be another tool in your toolbox to help answer these and other questions.

Ryan Moore has 22 years of GIS experience with state and local government agencies. Ryan has worked the past 12 years in the utility industry with Rochester Public Utilities. He currently serves as the GIS Manager at RPU.

Panel Discussion: Disaster Recovery: Do you have a backup plan? Panel Members: Jeff Grussing, Chad Schauf, Jay Forstner, Todd Copeland

*How critical is GIS to your organization? - Who uses GIS and what is GIS used for?- OMS / SCADA / AVL
What is disaster recovery & what does disaster recovery mean to you? - Why should you be thinking about disaster recovery & is it REALLY needed? Have you seen your company's disaster recovery plan & did you provide input?
Who has a Disaster Recovery Plan? - Share your plan*

Conversion to ArcGIS Pro from AutoCAD...Year THREE are we done?!? Steve Hanson - Detroit Lakes Public Utilities

Over the past several years, the City of Detroit Lakes has been planning to convert to ESRI for our GIS System. Steve will be going over the steps it took to convert his drawing, as well as the work he has been doing to make sure his AutoCAD drawing was ready for the conversion.

