OKC

OKSCAUG 2021

Sept 14-17, 2021

Full Speed Ahead!

The OKSCAUG Steering Committee

welcomes you to the

24th Annual OKSCAUG Conference

"The world has a way of changing, but there's some things that always stay the same."

The OKSCAUG Conference is currently in its third decade of serving the State of Oklahoma and the SCAUG region.

"Hey, we do what we do best. We improvise, all right?"

OKSCAUG wants to keep everyone on the map, so we are offering a hybrid conference: in-person and virtual.

"The most important thing in life will always be the people in this room. Right here, right now."

Whether you join us in person or in a virtual room, your presence and contributions matter.

"You've got the best crew in the world standing right in front of you, give them a reason to stay."

OKSCAUG is the GIS networking organization for the State of Oklahoma. We are proud of how our members work together and support each other.

"I don't have friends. . . I got family."

When you attend the conference, you become part of the OKSCAUG organization. Welcome.

The above quotations are from the Fast & Furious film series distributed by Universal Pictures.

Charles Brady, III	**Shellie Willoughby**	**Carrie Landgraf**	**Madeline Dillner**
Joel Foster	**Pamela Jurney**	**Kevin Dyke**	**Judy Franco**
	Sohail Hasanjee	**James Allen**	**Traci Tracey**

Download the 2021 OKSCAUG Conference Guide.

Send us your conference pictures.

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KEYNOTE ADDRESS—BILL JOHNSON

"FULL SPEED AHEAD"

8:30 AM

Stronger Together -- What I've learned through 37 years of GIS coordination

This presentation will focus on some of the intangible elements of a geospatial career that are not often talked about. There will be no "shop talk" about *how* to do GIS. Nor will there be any coverage concerning the latest data, or software, or machine learning, or other *methods* to accomplish your GIS work. Instead, Bill will offer insights learned and from his career journey, which has been dedicated to state and national geospatial coordination. You'll hear some stories that highlight how these experiences have honed and affirmed the value of working together. You will also hear about frameworks that can help you understand the elements that must come together for successful collaborations. The goal is to inspire you to anchor your own career in a solid set of values and behaviors, especially towards working together to achieve goals not attainable working alone.

About Bill: Bill is a seasoned GIS professional with more than 36 years of experience. Upon completion of his MA in Geography at Michigan State University in 1984, he started his career at the New York State Department of Transportation, which at that time was the home of the statewide mapping program. His initial work involved converting the mapping program from photo-mechanical to state-of-the-art digital production, in preparation for color printing, publication, and sale of 1:24,000 scale quadrangles, county base maps, the NYS atlas, and other maps. In the late 1980's and early 1990's, he and his team also led one of the largest civilian GIS deployments of that era, serving more than 1,000 users in 11 regional DOT offices. Since then, he rose through the GIS ranks in New York State government, culminating in being named New York's first Geographic Information Officer in 2013. He retired from state service in 2016 and spent the next two years leading GIS program development in Washington, DC for the Universal Service Administrative Company (USAC), the nonprofit responsible for nationwide broadband support programs on behalf of the Federal Communications Commission (FCC). In April of 2018, Bill joined Applied Geographics, Inc where he is applying his carpe geo philosophy of building trust through collaboration, of effecting fundamental change through thoughtful investment, and of consistent attention to excellence, as AppGeo's carpe geo evangelist.

TUESDAY WORKSHOPS

All Day Workshops — 8:30 AM to 4:30PM
- Creating Apps with Web AppBuilder with ArcGIS (Virtual)*
- Getting the Most from Your Lidar Data (Virtual)*

Morning Only Workshop — 8:30 AM - 12:00 PM
- Experiential Team Building

Afternoon Only Workshop — 1:00 PM - 4:30 PM
- **Communications**

THURSDAY AND FRIDAY TRAINING

Thursday
Scripting in ArcGIS with Arcade (Virtual)* - 8:30 AM - 4:30 PM

Friday
Working with Attribute Roles in ArcGIS Pro to Improve Data Integrity (Virtual)* - 8:30 AM - 4:30 PM

Excel 365 - 8:30 AM to 12:00 PM and again from **1:00 PM to 4:30 PM**

Thursday and Friday
ArcGIS Pro Quick-Start for the GIS Professional (Virtual) - 8:30 AM - 4:30 PM**

****GISP Credits for 1-Day Training (8 hours): EDU - 0.2 credit***
*****GISP Credits for 2-Day Training (16 hours): EDU - 0.4 credit***

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- Parcel Fabric implementation
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EMPOWERING
ALL COMMUNITIES
TO LIVE BETTER.

User Presentations

10:20 AM—10:45 AM

Room 111

Telling the Story of Lost Doctor Who Episodes

Lance Yarema — City of Tyler

GIS is used in many fields like utilities, public safety, land development, and more, but what about applying it to pop culture? One particular genre in British pop culture is Doctor Who, the world's longest running sci-fi series. Most people are familiar with the series, but many do not realize some of the early episodes are missing from the BBC's archive. Over the decades, missing episodes have been recovered all around the world! This presentation is divided into two sections. The first section gives a synopsis of the history of why these episodes are missing. The second provides the meats and potatoes of using GIS to map the recovery locations by using StoryMaps.

Room 112

GIS Technology & Best Practices of Oklahoma Emergency Management Officials - A Panel Discussion

Join Oklahoma State and Local Government emergency management officials, along with members of the ESRI Public Safety team to discuss data sharing and collaboration best practices. In this discussion, our presenters will discuss how they use location technology to support situational awareness in the field (Damage Assessment), incident command posts, and emergency operations centers.

Moderators:

Jeff Baranyl, Emergency Management Technical Lead, Esri

Jonathan Doherty, Account Executive, Esri

Panelists:

Greg Hakman, GIS Coordinator, City of Midwest City

Devin Lindley, GIS Developer, Choctaw Nation of Oklahoma

Exhibitor Session

10:20 AM — 10:50 AM

ROOM 207

Let's talk about how to take that data to the next level and create a "Digital Twin"

Bridget Marcotte, Project Manager — Sanborn Map Company

Although physicists have studied the possibility of a 2D universe, I'm perfectly happy living in our 3D and it is natural progression for GIS to evolve from 2D to 3D, essentially creating a digital twin. This presentation will discuss the following

- 3D Modeling and the Level of Details for Models
- Enhancing 3D models to develop a Digital Twin
- Applications of 3D Models and Digital Twins

Esri Technical Session

10:20 AM — 10:50 AM

ROOM 210

Advantages of Migrating to ArcGIS Pro

Alex Munoz — Esri

Many organizations are still using ArcMap, when is it time to consider the move to ArcGIS Pro? Many ArcMap users are making the switch to ArcGIS Pro for the advantages it offers for modern GIS desk top workflows. Besides the technical improvements, will this migration benefit other aspects of your organization?

Are you looking for an alternative source of Oblique Imagery?

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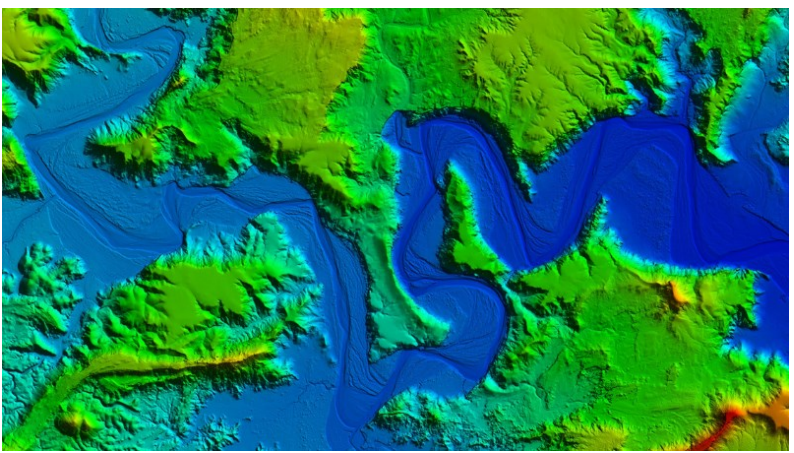


User Presentation

11:00 AM—11:25 AM

Room 111

Cooking with Attribute Rules: Utilizing Esri's Data-Sous Chef

Jordan Carmona — Town of Prosper

While it is true that you can't make an [actionable] omelette without [data entry]-ing a few eggs, modern spatio-culinary techniques allow us to whip up datasets with ease. Esri's Attribute Rules provide methods to knead, chop, and whisk away the labor of manually mincing your data. We'll be sifting through examples of attribute rules, peeling back their logic, and clarifying an approach to tackling new recipes. Come into the kitchen, sharpen your [Arcade], and watch as this [data]monger reveals Esri's 11 secret herbs and spices.

Followed by 5 Minute Exhibitor Spotlight: Surdex Corporation

Your Strategic Geospatial Resource

- Aerial imagery acquisition
- Digital orthoimagery
- Lidar acquisition and processing
- Digital mapping
- Unmanned Aerial Systems

CONTACT Jack King, Business and Development
direct: (601) 405-4070
jack.king@surdex.com

SURDEX CORPORATION

surdex.com
636-368-4400

User Presentation

11:00 AM—11:25 AM

Room 112

Change Detection… Change is Inevitable

Mike Morrison — Oklahoma County Assessor

All seventy-seven counties in Oklahoma are required by statute to physically examine properties on a four-year inspection cycle. The Oklahoma County Assessor's Office simulated a project to discover if geo-referenced polygons could be used to detect changes for variances in real estate. APEX software, Oklahoma County's sketch vendor, converted our sketches to polygons, also known as "building footprints". These footprints were then geo-referenced over the current high resolution aerial imagery. This process resulted in high efficiency in recognizing the changes on properties for both major and minor variances. Along with confirming overall accuracy of our parcel data, it gave status to other variances like "pool" and "additional building". The data was then made available to our field appraisers to load on their personal accounts in the Nearmap viewer. This showed us the proof of concept we needed to move forward. However, our internal process was time consuming. This encouraged our office to seek further streamlining of this change detection procedure by exploring GeoViewPort, a mapping cloud service provided by our vendor iLOOKABOUT. This vendor used our color-coding system from the original data conversion process which created an easy transition to the new software while capturing the same efficiency and accuracy. Utilizing our results in easily recognizable layers, this process guided our work in a "user friendly" format for the vendor to duplicate without the need of loading individual layers to an account. The GeoViewport cloud service can represent layers and shapes in the format required to continue the assessment process in a timely manner. Thankfully our vendors were able to work in conjunction with our office to provide the appraisers with a superior product that can be used in our office or out in the field. Thank you for your help and support: iLookabout, Nearmap, Apex, ESRI, Patriot, and Prognose.

Exhibitor Session

11:00 AM — 11:30 AM

ROOM 207

Oklahoma NG9-1-1 GIS Readiness: A Statewide Training Initiative

Annie Cahill, Customer Success Manager — DATAMARK

Oklahoma is moving towards Next Generation 9-1-1! Is your GIS ready? The Oklahoma 9-1-1 Management Authority, in partnership with the Oklahoma Office of Conservation and DATAMARK, the public safety team of Michael Baker Intl., developed a statewide GIS training program containing a series of courses focused on GIS, NG9-1-1 and public safety fundamentals, the State of OK Geographic Information NG9-1-1 and Addressing Standard, the NG9-1-1 Toolkit, and the State NG9-1-1 Repository. Join this session to learn more about the statewide training program, what training was provided to Oklahoma's 9-1-1 and GIS stakeholders, and how you can ensure your GIS is ready for NG9-1-1.

Esri Technical Session

11:00 AM — 11:30 AM

ROOM 210

A GIS Master Plan for Public Works

Sean Gill — Esri

Many Public Works organizations face numerous demands and challenges daily, and many are seeing an increased demand for services as population and developments grow. Find out how these challenges and more are met head on with ArcGIS.

User Presentations

12:40 PM— 1:05 PM

Room 111

What's New with Oklahoma Next Generation 911 and How Do We Get There?

Lance Terry — Oklahoma 911 Management Authority

Charles Brady III — City of Ardmore

This presentation will focus on an overview of the latest developments with Oklahoma Next Generation 911. Topics will include a discussion of the recent GIS 911 Training Courses, the use of the NG911 GIS Toolkit, and the Statewide Repository. The Oklahoma 911 Management Authority will review GIS grant opportunities and provide updates about 911 GIS vendors available on the Oklahoma Statewide Contract.

Followed by 5 Minute Exhibitor Spotlight: United Geo Tech LLC

User Presentations

12:40 PM— 1:05 PM

ROOM 112

Transforming the Parcel Management Process with Parcel Fabric in Pro

Tim Conner — Oklahoma County Assessor's Office
Ruth Workman— Pro-West & Associates

Learn how Oklahoma County converted its parcel data from CAD to Esri's Parcel Fabric in ArcGIS Pro with the goal of creating accurate data and eliminating inefficiency in the county's map production process. During the session we will share:

- Why the Parcel Fabric made sense for the county
- What the migration process looked like
- Challenges encountered and lessons learned along the way
- The process of maintaining data in a single parcel fabric instead of multiple CAD files
- Value the county is achieving as a result

Followed by 5 Minute Exhibitor Spotlight: Pro-West & Associates

Exhibitor Session

12:40 PM — 1:10 PM

Room 207

Empowering ESRI Field Apps with High Accuracy Location

Noah Ward, MGIS Sales — AllTerra Central

Discussion surrounding integrating high accuracy Trimble GNSS solutions with ESRI suite of apps such as Field Maps and Survey 123. In this presentation, we will cover topics such as latest configuration examples, data preparation, and tips and tricks to get the most out of your field efforts.

Esri Technical Session

12:40 PM — 1:10 PM

Room 210

ArcGIS Velocity & ArcGIS GeoEvent Server: Real-Time and Big Data Analytics

Brig Bowles — Esri

Join this session to learn how to create real-time analytics to detect patterns of interest from continuous streams of events. As real-time data accumulates, learn how to create and schedule big data analytic models to process high-volume historical data to gain insights into patterns, trends, and anomalies in your big data.

User Presentations

1:20 PM — 1:45 PM

Room 111

Ranking Arterial Widening Projects using ArcPy Scripting

Kevin Gustavson — City of Tulsa, Engineering Services

The City of Tulsa's "Transportation Improvement Projects Prioritization Plan" allows city engineers to objectively rank arterial road segments for widening through an approved scoring system using criteria in 11 categories. In the past, an engineer has filled out hundreds of numbers in an Excel spreadsheet to arrive at project rankings. Now, the automation and scripting capabilities of GIS drives the process once the necessary layers of data are gathered or created. Scripts iterate through each arterial road segment, search for relevant data from other map layers, and manipulate and store the updated data in the feature class table. Another script calculates subscores for each category and final scores as outlined in the prioritization plan. Finally, the feature class table is exported to Excel for ranking and review by the engineers. In the end, what was an excruciating task for a project engineer is now largely automated, saving a tremendous amount of effort and time.

Followed by 5 Minute Exhibitor Spotlight: Blue Marble Geographics

BLUE MARBLE GEOGRAPHICS

User Presentations

1:20 PM — 1:45 PM

Room 112

Linear Referencing - When you need your data to stay in line!

Sam Coldiron — Oklahoma Department of Transportation

Linear Referencing is a method of locating physical features or data along a known linear asset. How do I find an intersection when all I know is that it's 3.2 miles down Highway 1? How do I find Valve 'ABC' when all I know is that it's 6,000 meters down Pipeline Gamma. Linear Referencing allows you to build out a network of routes, pipelines, railways, power line, rivers, etc. and locate data along them using the distance or measures along those features. This presentation will give you an overview of Linear Referencing and some common applications of it.

Followed by 5 Minute Exhibitor Spotlight: Property Records Preservation, LLC

ParcelInfo. io

Exhibitor Session

1:20 PM — 1:50 PM

ROOM 207

Cityworks for FEMA Reporting

Veronica Schindler — CItyworks a Trimble Company

Natural disasters are increasing in quantity and severity and municipalities are left grappling with the need to support emergency response and recovery while documenting expenses to be reimbursed by FEMA. Learn how Cityworks and ArcGIS can streamline emergency event operations and improve documentation to meet FEMA reporting requirements

Esri Technical Session

1:20 PM — 1:50 PM

ROOM 210

ArcGIS Image for ArcGIS Online

Pamela Kersh — Esri

ArcGIS Image for ArcGIS Online is a SaaS offering that empowers you to manage, visualize, and analyze imagery collections without the need for infrastructure. From ArcGIS Online, render your imagery layers in maps and apps, share imagery content, and perform analysis including time series analysis, deep learning, and terrain processing. Attend this session to learn about ArcGIS Image Online.

User Presentations

2:40 PM — 3:10 PM

Room 111

Development of a Municipal Land Information System For the City of Universal City

Wesley T Keller — City of Universal City

Over a three year period, the City of Universal City has developed a Land Information System. The system provides information for parcels with the City limits. Information includes physical address, zip code, county clerks office volume and page, recordation date, a legal description, AICUZ status, gas provider service area, sewer provider service area, zoning, lot square footage, legal acreage, DBA, structure square footage, construction year, number of stories, number of rooms, school district, legal instrument type, police district, alternate name (AKA), DACA number, AICUZ tract number, geographic ID, parcel ID, and code compliance zone. Links to PDFs of legal documents are also provided. The system is hosted on ArcGIS Online and integrated with a content management system (CMS) called Publitas. This presentation will show the historical development of the system and give a brief demonstration.

Followed by 5 Minute Exhibitor Spotlight: Texian GAS

User Presentation

2:40 PM — 3:05 PM

ROOM 112

What's going on with City of Edmond GIS in 2021?

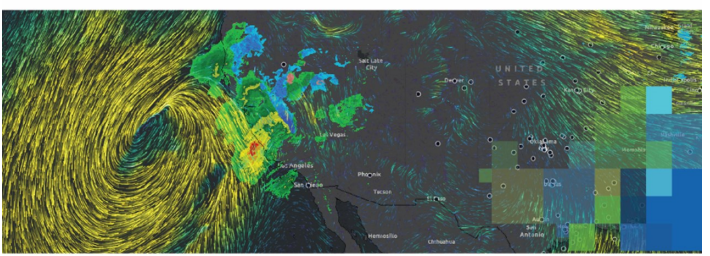
Ian Peebles — City of Edmond

The City of Edmond continues to make great progress towards expanding the capabilities of Geographic Information Systems (GIS) technology. This presentation provides an overview of GIS technology use within the City of Edmond and focuses specifically on the geodatabase, desktop applications, web applications, application integration, data hub, custom tools and automating process workflows. Challenges of introducing new technology are discussed. This presentation concludes with covering the future road map of GIS within the organization.

Followed by 5 Minute Exhibitor Spotlight: DTN Weather

GIS Solutions from DTN with 90+ weather data services hosted on ArcGIS server

DTN



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Exhibitor Session

2:40 PM — 3:10 PM

Room 207

Transforming Web AppBuilder for ArcGIS® Widget Development

Scott Stafford-Veale — VertiGIS North America Ltd.

Web AppBuilder for ArcGIS® is a great framework for quickly delivering purpose-based web GIS applications. In situations where you may need capabilities that aren't offered out-of-the-box, the typical path has generally been custom widget development. . . but it doesn't always need to be. While custom development has its benefits, there can be costly drawbacks, particularly as technology evolves and custom functionality needs to be rewritten.

In this session, you'll learn how Geocortex is transforming widget development in Web AppBuilder. We'll show you how you can deliver custom experiences and functionality in your applications, all through configuration. See how we can add value to your investment in Esri technology with intuitive, web-based design tools to help you save time and money. Best of all, you can do it all without writing custom code!

Esri Technical Session

Room 210

2:40 PM — 3:10 PM

Esri and Microsoft Better Together: Exploring the Possibilities

Jonathan Doherty — Esri

Esri and Microsoft have enjoyed a 20+ year relationship. Esri's ArcGIS product suite is deeply integrated into many Microsoft applications and services that are deployed on the Azure cloud platform. In this presentation we will explore the various products and integration opportunities for linking ArcGIS and the Microsoft suite of productivity tools like ArcGIS for Teams, ArcGIS for Power BI, ArcGIS for Office & Microsoft 365, and ArcGIS for SharePoint. We will also discover how ArcGIS Survey123 results are enhanced using connectors to Microsoft tools like PowerAutomate.

User Presentation

3:20 PM — 3:45 PM

Room 111

Using Survey123 to improve efficiency in our Citizen Complaints Program

Derrick Stark — Oklahoma Water Resources Board

The Oklahoma Water Resources Board's Citizen Complaints program allows citizens to bring to our attention specific rule violations in water use permitting, water well drilling and pump installation, dam safety, and floodplain management. Previously citizens filed complaints through a form that was downloaded from our website and mailed or faxed in, or by calling in directly. To streamline this process and to provide staff investigating the complaints a way to view them on a map, we used Survey123 to create an online form that citizens can use to report their complaints. Another benefit is the ability to cross-reference the complaint location with existing GIS data. This presentation will go over the process of building the survey that helped make our complaints process more accessible for the public as well as more efficient.

Followed by 5 Minute Exhibitor Spotlight: Eagleview

Room 112

GISCI & GISP Certification: History, Process, and Future Directions

Tony Spicci — GIS Certification Institute

This presentation will cover the current GISP process, including the Portfolio requirements and the Exam structure and content. This session will focus on the value and growth of GIS professional certification and where GISCI and the GISP certification will go from here.

Followed by 5 Minute Exhibitor Spotlight: MidAmerica GIS Consortium (MAGIC)

Exhibitor Session

3:20 PM — 3:50 PM

ROOM 207

Enterprise GIS and evolving Web GIS technologies & workflows

Gary Parker — NewEdge Service

Enterprise GIS evolves with each new release. This presentation introduces the core components of an Enterprise GIS System. We will then discuss some of the newer technologies in the later releases and workflows will evolve. This includes edit versioning workflows with branch Versioning and database access using bulk publishing.

GIS Services

Consulting
Database Design
Custom Applications
Utility Mapping
Parcel/Lease Mapping

Asset/Work Management

Utilities
Facilities Maintenance
Traffic & Streets
Warehouse
Treatment Plants

Cloud Hosting

Full Service
Secure Access
Field Deployment
GIS & Cityworks
Permitting

Esri Technical Session

3:20 PM — 3:50 PM

Room 210

Tips & Tricks for Success with ArcGIS Survey 123

Michael Seybert — Esri

Survey123 is a smart form solution that integrates with the ArcGIS system. Whether using simple web-configured forms or forms that include complex XLS driven logic, ArcGIS Survey123 has you covered. This presentation will provide what's new with ArcGIS Survey123 and tips and tricks to ensure success when deploying to the field.

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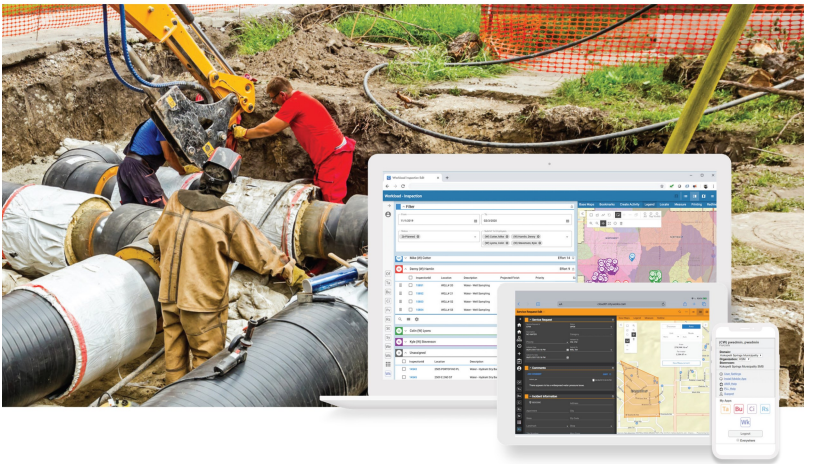

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Give staff the power of GIS and automation. Cityworks AMS is built exclusively on ArcGIS, giving both office staff and field crews access to real-time data and simplified workflows.

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Improve collaboration. Share asset data and streamline communication among employees, across departments, and with your customers.

Identify and evaluate risk. Cityworks and ArcGIS can help you identify your riskiest assets and put the right plans in place to improve them.

Make insightful decisions. Use dashboards, analytics, and maps to visualize data, understand resources, and report more accurately.

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- Work Orders
- Service Requests
- Inspections
- Warehouse Management
- Reports and Analytics
- Mobile Workforce
- Infrastructure Management
- Vegetation Management
- Pavement Management
- Facilities and Plant Management

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Facilitates Alignment with Industry Standards
Supports Sustainable Governance
Software as a Service Platform
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7:30 AM - 2:00 PM	Registration	
7:30 AM - 8:30 AM	Exhibitor Visits	
8:30 AM - 9:30 AM	Welcome & Keynote	
9:30 AM - 10:15 AM	Sendoff & Exhibitor Visits	
SESSIONS	**Room 111**	**Room 112**
BLOCK 1 **10:20 AM - 10:45 AM**	**Telling the Story of Lost Doctor Who Episodes** Lance Yarema - City of Tyler	**GIS Technology & Best Practices of Oklahoma Emergency Management Officials - A Panel Discussion** Panelists: Greg Hakman, Devin Lindley Moderators: Jon Doherty and Jeff Baranyi
10:45 AM—10:50 AM		
10:50 AM - 11:00 AM	*Break*	*Break*
BLOCK 2 **11:00 AM - 11:25 AM**	**Cooking with Attribute Rules: Utilizing Esri's Data-Sous Chef** Jordan Carmona - Town of Prosper	**Change Detection... Change is Inevitable** Mike Morrison - Oklahoma County Assessor
11:25 AM - 11:30 AM	Surdex Corp	
11:30 AM - 11:40 AM	*Break*	*Break*
11:40 AM—12:40 PM	LUNCH + POSTER COMPETITION + NETWORKING	
BLOCK 3 **12:40 PM - 1:05 PM**	**What's New with Oklahoma Next Generation 911 and How Do We Get There?** Lance Terry - Oklahoma 911 Management Authority Charles Brady III - City of Ardmore	**Transforming the Parcel Management Process with Parcel Fabric in Pro** Tim Conner - Oklahoma County Assessor Ruth Workman - Pro-West & Associates
1:05 PM - 1:10 PM	United Geo Tech LLC	Pro-West & Assoc.
1:10 PM - 1:20 PM	*Break*	*Break*
BLOCK 4 **1:20 PM - 1:45 PM**	**Ranking Arterial Widening Projects using ArcPy Scripting** Kevin Gustavson - City of Tulsa, Engineering Services	**Linear Referencing - When you need your data to stay in line!** Sam Coldiron - Oklahoma Department of Transportation
1:45 PM - 1:50 PM	Blue Marble Geographics	Property Records Preservation, LLC
1:50 PM - 2:00 PM	*Break*	*Break*
2:00 PM - 2:40 PM	AFTERNOON BREAK + EXHIBITOR VISITS	
BLOCK 6 **2:40 PM - 3:05 PM**	**Development of a Municipal Land Information System For the City of Universal City** Wesley T Keller - City of Universal City	**What's going on with City of Edmond GIS in 2021?** Antonio Adolphues & Ian Peebles - City of Edmond
3:05 PM - 3:10 PM	Texian GAS	DTN Weather
3:10 PM - 3:20 PM	*Break*	*Break*
BLOCK 7 **3:20 PM – 3:45 PM**	**Using Survey123 to improve efficiency in our Citizen Complaints Program** Derrick Stark & Byron Waltman - Oklahoma Water Resources Board	**GISCI & GISP Certification: History, Process, and Future Directions** Tony Spicci - GIS Certification Institute
3:45 PM - 3:50 PM	Eagleview	MidAmerica GIS Consortium (MAGIC)
3:50 PM – 4:00 PM	*Break*	*Break*
4:00 PM - 4:30 PM	CLOSING REMARKS + PRIZES	

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Sendoff & Exhibitor Visits		9:30 AM - 10:15 AM
Room 207	**Room 210**	**SESSIONS**
Let's talk about how to take that data to the next level and create a "Digital Twin" Bridget Marcotte - Sanborn Map Company	**Advantages of Migrating to ArcGIS Pro** Alex Munoz - Esri	**BLOCK 1** **10:20 AM - 10:45 AM**
Break	*Break*	**10:50 AM - 11:00 AM**
Oklahoma NG9-1-1 GIS Readiness: A Statewide Training Initiative Annie Cahill - DATAMARK	**A GIS Master Plan for Public Works** Sean Gill - Esri	**BLOCK 2** **11:00 AM - 11:30AM**
Break	*Break*	**11:30 AM - 11:40 AM**
LUNCH + POSTER COMPETITION + NETWORKING		**11:40 AM—12:40 PM**
Empowering ESRI Field Apps with High Accuracy Location Noah Ward - AllTerra Central	**ArcGIS Velocity & ArcGIS GeoEvent Server: Real-Time and Big Data Analytics** Brig Bowles - Esri	**BLOCK 3** **12:40 PM - 1:05 PM**
Break	*Break*	**1:10 PM - 1:20 PM**
Cityworks for FEMA Reporting Veronica Schindler - Cityworks a Trimble Company	**ArcGIS Image for ArcGIS Online** Pamela Kersh - Esri	**BLOCK 4** **1:20 PM - 1:45 PM**
Break	*Break*	**1:50 PM - 2:00 PM**
AFTERNOON BREAK + EXHIBITOR VISITS		**2:00 PM - 2:40 PM**
Transforming Web AppBuilder for ArcGIS® Widget Development Scott Stafford-Veale - VertiGIS North America Ltd.	**Esri and Microsoft Better Together: Exploring the Possibilities** Jonathan Doherty - Esri	**BLOCK 6** **2:40 PM - 3:05 PM**
Break	*Break*	**3:10 PM - 3:20 PM**
Enterprise GIS and Evolving Web GIS Technologies & Workflows Gary Parker - NewEdge Services	**Tips & Tricks for Success with ArcGIS Survey 123** Michael Seybert - Esri	**BLOCK 7** **3:20 PM – 3:45 PM**
Break	*Break*	**3:50 PM – 4:00 PM**
CLOSING REMARKS + PRIZES		**4:00 PM - 4:30 PM**

Posters, story maps, and hubs

Oklahoma COVID-19 Vaccine Phase Builder Dashboard

Jack Dimpsey III & Zakary Legarda — Oklahoma State Department of Health

This dashboard was designed in partnership between the Oklahoma State Department of Health and the Oklahoma Army National Guard. The Oklahoma COVID-19 Vaccine Phase Builder dashboard was designed to assist the local and state COVID-19 vaccine planning team develop a plan for administering COVID-19 vaccine according to the phases defined by the Oklahoma State Department of Health. On the dashboard, you can dynamically select the identified population subgroups by phase and filter by area to get an estimation of the target population size by phase as well as a dot density visual to understand where the target populations reside. This dashboard was one of the many reasons why Oklahoma was the in the top 5 states for vaccine administration by population for the the first few months when COVID-19 vaccine was initially made available.

Places to Walk and Run

Ty Simmons — INCOG

This map identifies places to walk and run around the city of Tulsa. It includes paths, trails, and sidewalks located in parks, as well as regional multi-use trails and sidewalks throughout the city. The map also utilizes the Near Me widget to enable users to find parks and trails near their location.

Posters, story maps, and hubs

ACOG Bicycle and Pedestrian Resource Center

Jordan Evans and Hannah Nolen — Association of Central Oklahoma Governments

The ACOG Bicycle and Pedestrian Resource Center is a collection of bicycle and pedestrian related maps, documents, and other resources which may be useful to city planners, engineers, advocates, and area residents.

Cushing Refinery Cleanup Project Hub Website

Amy Brittain — Oklahoma Department of Environmental Quality

This Hub site was set up by ODEQ in Fall 2020 to mark the start of the final waste cleanup of the former KerrMcGee Refinery in Cushing, OK. The Hub site hosts site information for the public, including a site map, a recording of a public meeting held for the project, a DEQ video about the history of oil refining in Oklahoma and site contact information. This project is available to public on the ODEQ's Voluntary Cleanup Program website at https://www.deq.ok.gov/land-protection-division/cleanup-redevelopment/voluntary-cleanup/kerr-mcgee-refinery-soil-program-and-groundwater-remediation/

Posters, story maps, and hubs

The Hunt for Lost Doctor Who Episodes

Lance Yarema — City of Tyler

The StoryMap explores the various locations around the world where Doctor Who lost episodes have been recovered.

PLISKA FIELD, BULGARIA - AN EXAMPLE OF CULTURAL HUMAN FOOTPRINT CONTINUITY

Stefan Stamenov, Vanya Stamenova — Space Research and Technology Institute - Bulgarian Academy of Sciences

Traces of human activities on the Earth surface has been left over the centuries and millennia of human culture and civilizations. This traces are also referred to as anthropogenic features or human footprints and the process anthropogenisation. This process is directly linked with the way of human living, results is reshaping the landscape and changing the nature in regional and in modernity even on global scale. Scientific studies devoted to this process have long discovered, that the anthropogenisation is not pointless, but appear as a specific, expected and sometimes planned result of various human activities pointed to secure the existence and prosperity of a particular human society or humanity in general.

Posters, story maps, and hubs

Central Oklahoma Bicycle Composite Index

Jordan Evans — Association of Central Oklahoma Governments (ACOG)

The Association of Central Oklahoma Governments (ACOG) produced the Bicycle Composite Index (BCI) to help city, county, and state planners and officials understand what areas need safe and convenient bicycle facilities, such as bicycle lanes, shared use paths, and trails. The BCI analysis used Geographic Information Systems to measure the relationship between where bicyclist activity might be generated and where bicyclists might have difficulty moving about. When combined, this information suggests regional priority areas for investment.

Disc Golf Longview, Texas

Marcus Arreguin — City of Longview - Information Services

The Longview, Texas Disc Golf App shows each of the three City of Longview disc golf courses. The app consists of interactive maps of the disc golf courses at Guthrie, Hinsley, and Ingram Parks, each shown on a separate tab. The maps show disc golf data such as teeboxes, fairways, and baskets. The disc golf layers are overlaid on our aerial imagery plus relevant vector layers such as restrooms, trails, parking lots, park roads, and park boundaries. Pop-up boxes show pertinent information such as photos of the teeboxes and baskets as well as pars and lengths for each hole.

Posters, story maps, and hubs

OK NG911 GIS Toolkit

Emma Baker and Riley Baird — ODOT

Adapted from the Kansas NG911 Toolkit, the Oklahoma Next-Generation 9-1-1 Toolkit is a collection of Toolsets modified to identify possible errors and assist the user in complying with the NG911 Oklahoma Standards.

Walk & Bike: Longview - Gladewater - White Oak, Texas

Marcus Arreguin — City of Longview - Information Services

The Walk and Bike Plan 2018 was authored by the Longview Metropolitan Planning Organization (MPO) in conjunction with area leaders and other citizens. The Walk and Bike Plan is a forward-looking, strategic roadmap for making the region's communities safe and enjoyable places for people of all ages and abilities to walk, run, bike and be active. This plan is in the process of being implemented in the MPO, which includes the area from Longview to Gladewater, Texas. This app describes the plan and shows progress on it. The app shows detailed maps of walk and bike infrastructure within the MPO that currently exists, has been committed to implement, and has recommended by the plan to build in the future. The app also includes a slide show of the different types of walk and bike infrastructure mentioned in the plan. Most of the photos illustrating the app were taken in the Longview area.

Posters, story maps, and hubs

Urban Sprawl, Anthropogenisation and Risk

Stefan Stamenov, Vanya Stamenova — Space Research and Technology Institute - Bulgarian Academy of Sciences

The development of the modern civilization during the last two centuries has enormously increased the intensity of human-nature interactions leading to ever-growing anthropogenisation of the landscape both as planned and as side effect. Initially, the best places of the landscape have been chosen for building towns and cities, but in time as the urban sprawl appeared and grew faster the different parts of the city may reach zones of risks caused by natural phenomena or processes. Today, in our crowded and strongly urbanized world this is a common situation in the big cities. Sofia is an excellent example of a fast growing city, which has enlarged his territory 100 times for the last 140 years. Considering the physical geography and relief of Sofia valley the growing process of city has inevitably lead to put the human infrastructure in dangerous proximity to the landslides in the area, 76 of which has been registered during the last

Bike Ped Crashes in Tulsa Metro 2010 - 2019 (No Highway)

Nimish Dharmadhikari — INCOG

This map shows data from Oklahoma DOT's Safe-T crash data (https://oksafe-t.org/). The data shown is from 2010 to 2019. Crashes shown in this map are on non-highway system. This is important to showcase that there are many Bike-Ped crashes on local roads.

Posters, story maps, and hubs

The Oklahoma WPA Map: Collection Capturing a snapshot of rural Oklahoma during the Great Depression

Kevin Dyke, Tyler Morrison — Oklahoma State University Library

During 1935 and 1936, the Works Progress Administration and the Oklahoma Tax Commission produced approximately 2,400 maps to determine the value of real estate. The maps indicate the owner of all the farmland in each county and each usually represents a full 6 by 6 mile township. To make the collection more accessible, we georeferenced and combined all of the maps into a single, interactive experience, and are currently in the process of transcribing the data to create a unified database of historic rural land ownership across Oklahoma. **Not eligible for voting.**

2021 Street Pavement Condition Index

Zach Clark — City of Tyler

A graphic that displays previous street projects and the scoring of current streets.

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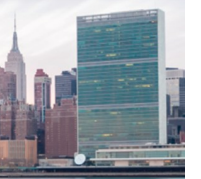

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- Web AppBuilder for ArcGIS
- Field Data Collection -Collector® and Survey123®
- Python for ArcGIS (ArcMap|Pro)
- Introduction to FME
- ModelBuilder® (ArcMap|ArcGIS Pro)
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Blue Marble's products include Geographic Calculator®, the industry standard for precise spatial data conversion and advanced coordinate system management; Global Mapper®, an all-in-one GIS application with a comprehensive array of data processing and analysis tools; and the Global Mapper Lidar Module®, a suite of powerful tools for editing and processing lidar and photogrammetric point clouds from drone-captured images. All of these desktop tools are also available as software developer toolkits and libraries.

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TECHNOLOGY PRACTICE- DATAMARK® PUBLIC SAFETY GIS

DATAMARK®, the Public Safety GIS team of Michael Baker, consists of a skilled group of subject matter experts in Public Safety and GIS whose mission is to build trusted relationships by providing the necessary education, fact-finding, and solutions to ease the transition to and development of workflows for NG9-11. DATAMARK is the go-to authority on GIS data for NG9-1-1. Its data-forward, full-service but configurable NG9-1-1 solutions provide the highest levels of Public Safety GIS data completeness and accuracy that empower informed decision making. Michael Baker International is a national leader in advanced technology solutions supporting clients in local, state, and national government.

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DTN delivers actionable insights to empower our customers' success on a daily basis in the agriculture, energy, weather, financial analytics and transportation markets. We believe that when our customers are supported with the most reliable and innovative information to the Nth Degree, they prosper and we all win. We are an ESRI enterprise partner using Esrís ArcGIS Server to provide real-time, historic, and forecast global weather content for use in ArcGIS for Desktop, ArcGIS Pro, ArcGIS Online/Portal for ArcGIS, and the ArcGIS API for JavaScript. The DTN weather content offering includes over 90 REST endpoints (map, feature, and image services) providing access to hazardous weather detection and prediction, high-resolution forecasts, decision analytics, and much more. To learn more visit https://www.dtn.com/gis-catalog

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eagleview

Eagleview provides orthogonal and oblique aerial imagery, LiDAR elevation data, planimetric, hydrographic and topographic mapping with a fleet of over 115 aircraft. Our authoritative, seamless orthomosaic complies with positional accuracy requirements that meet USGS requirements. Our small-format cameras allow us to collect imagery at lower altitudes which results in maximum clarity, less building and feature lean and more detail that would otherwise be obscured by atmospheric degrading.

Esri was founded to help solve some of the world's most difficult problems. We do so by supporting our users' important work with a commitment to science, sustainability, community, education, research, and positive change. ArcGIS software and apps combine mapping and data analytics to deliver location intelligence and meet digital transformation needs for

Established in 1999, Geocortex is a software and services organization based in beautiful Victoria, B.C. We believe that geographic information has the power to help people make better decisions and positively impact the world around them; we empower them to do this with Geocortex technology.

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The **GIS Certification Institute** (GISCI) is a not-for-profit organization that provides the geographic information systems (GIS) community with an internationally-recognized, complete certification program. GISCI offers participants from the first early years on the job until retirement, a positive method of showing value for professionals and employers in the GIS profession. There are currently over 6,500 active GISPs located throughout the world.

The current GISP Certification process consists of a portfolio that describes an applicant's background in Ethics, Education, Experience, and Contributions to the Profession.
The GISCI Geospatial Core Technical Knowledge Exam has now been developed and added to the GISP Certification process. It is based on a job analysis, informed by the GIS &T Body of Knowledge, and guided by the Geospatial Technical Competency Model (GTCM). It is offered twice each year, in the Summer and Fall.

The MidAmerica GIS Consortium is a network of dedicated leaders in the field of mapmaking, location services, and data development. We support the growing infrastructure of geospatial data analysis through coordination, networking, outreach and education.

The people who run MAGIC are volunteers who believe in educating those who support this infrastructure so that they understand the industry standards, the ways in which they can ensure data authenticity, and are able to explain the integrated relationships of the tools and services in this realm.

MAGIC represents 9 states in the region. But, we are not limited to just state representation. Our network spans the gamut from local government to academia to private industry.

NewEdge Services, LLC is focused on implementing GIS, Cityworks Work/Asset Management Solution, Cityworks Permitting/Code Enforcement Solution, Cloud Hosting, and Related Services. Our experience includes:

- ArcGIS Enterprise implementation and support
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- Cityworks implementation, upgrades and training
- Hosted cloud solutions
- Custom web and mobile applications
- GIS data creation
- GIS analysis
- Hard copy map/plan inventory, cataloging, and georeferencing
- System integrations
- Asset/Work management system implementation and integration
- Permitting system implementation and integration
- User training and support
- Custom Unique ID tool
- Custom integration between Munis and Cityworks

Our goal is to provide industry leading services with timely and economical deliveries. Our references and our high number of repeat clients indicate that NewEdge is achieving that goal.

Pro-West is an award-winning, employee-owned small business focused entirely on making its clients successful with GIS. We have been helping local, state and federal government across the country transform business processes, engage with citizens and get more from their location technology investments for over 30 years. Counties and cities benefit from our services in Parcel fabric, Enterprise GIS implementation, Esri GIS solution configuration, ArcGIS Hub deployment, Geospatial data services, Custom application development, System integration, GIS strategic plans, and GIS training. Pro-West is a multi-award-winning Esri partner with a track record in empowering local government by pioneering new ways of solving real-life challenges with Esri-based solutions. www.prowestgis.com

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United Geo Technologies, LLC

United Geo Technologies LLC (UGT) is a small, woman-owned business (WBE/DBE) providing a variety of geospatial services. These geospatial services include Geographic Information Services, Photogrammetry, Orthoimagery, LiDAR, and UAV/Drone. UGT's geospatial services are customized to meet or exceed our clients' requirements. UGT has provided expert geospatial services to our clients' for more than 10 years.

UGT's expertise includes photo/topo mapping, planimetrics, DTM, and contours. UGT's LiDAR expertise includes bare earth processing, creation of digital surface models, colorizing LiDAR, and capturing plan from LiDAR. UGT's orthoimagery is geospatially accurate for each customized end-product. UGT's drone products include high resolution aerial images of residential-commercial buildings, low resolution for web sites, and LiDAR for waterline studies. UGT's personnel, equipment, updated software, and expertise give an advantage to our clients' for their successful project.

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Sanborn delivers mapping, analysis, visualization and 3D solutions for customers worldwide. The firm currently operates a fleet of aircraft located strategically across the United States. Embracing cutting-edge technology, Sanborn specializes in oblique imagery, lidar, orthophotography, 3D modeling, and visualization services, HD Maps, indoor mapping, and unmanned aircraft system (UAS) services. Sanborn is an ISO 9001:2015-certified contractor.

TeachMeGIS has been providing GIS training and consulting services for over 20 years. In addition to our regularly scheduled standard GIS training, our team has developed GIS courses for different industries, such as petroleum, public health, NextGen 911 and emergency response, transportation, and more. We offer our training in person at our training center or at client sites around the world. In addition, our Instructor-led virtual environment is also available for both our public and private courses.

Our team of trainers have mastered the technique of getting people not only trained in, but also excited about, the use of their GIS software. We work hard to make each course relevant to the participant's current needs by bringing numerous industry examples into the classroom, and by encouraging discussion of common industry challenges.

We can also customize private courses to use the client's data and workflows, tailoring the classes to the needs of the audience.

Texian Geospatial and Asset Solutions, LLC. is a privately owned consulting firm based in San Marcos, Texas. Founded in 2012, Texian Geospatial specializes in a wide spectrum of IT, GIS and GPS services for asset management in municipal utilities, oil & gas, pipeline operators and environmental markets.

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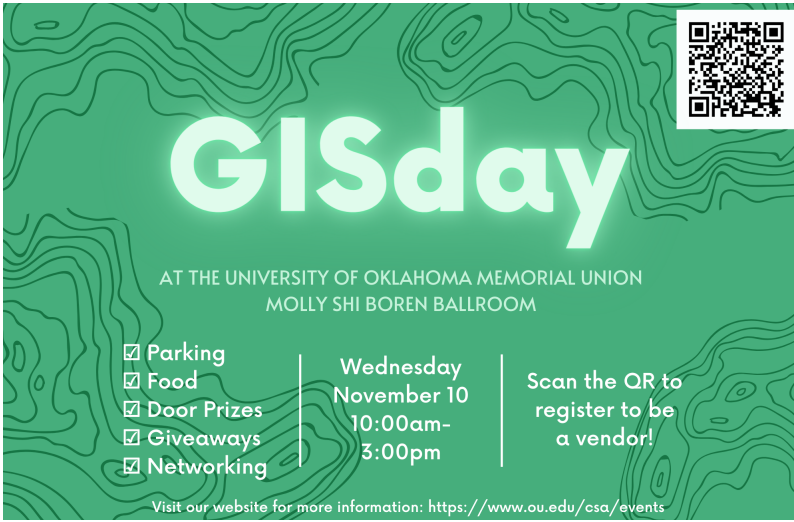

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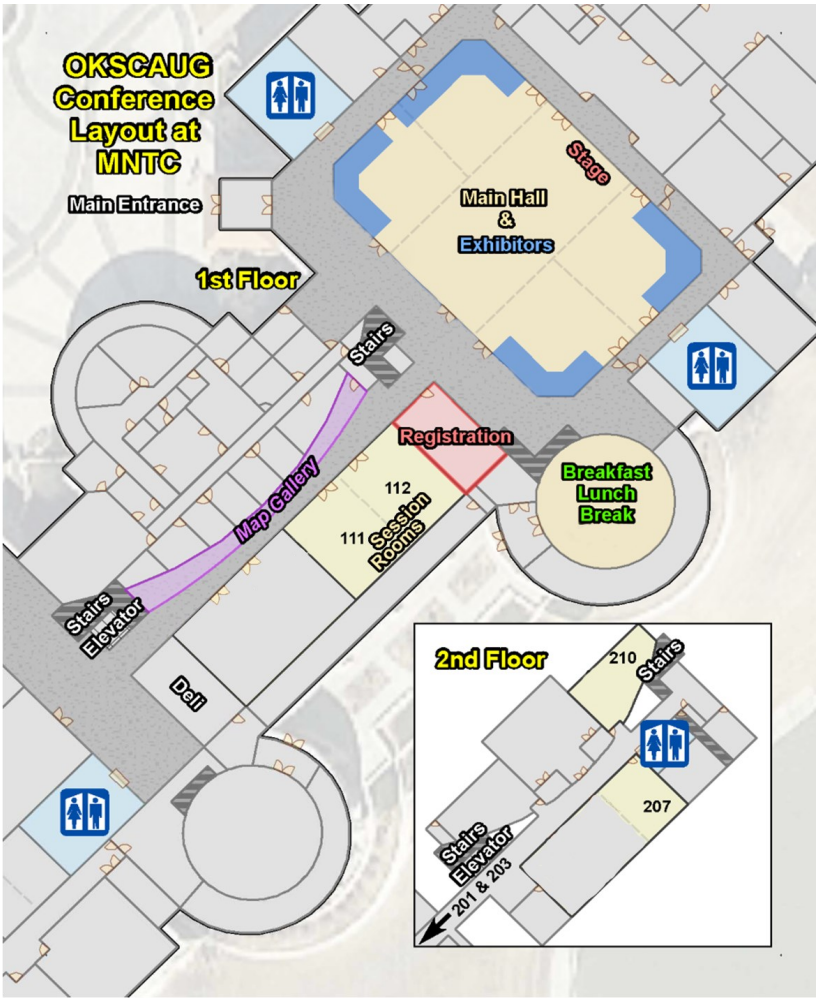
2021 OKSCAUG GISP

WORKSHOPS (4 & 8 HOUR) *(WORKSHOP CERTIFICATE REQUIRED FOR DOCUMENTATION CREDIT.)*	TYPE	CREDIT	RECERT CREDIT	CREDITS EARNED
TMGIS - Creating Apps with Web AppBuilder with ArcGIS *(8 hours)*	EDU	0.2	1.33	_____
TMGIS - Getting the Most from Your Lidar Data *(8 hours)*	EDU	0.2	1.33	_____
MNTC - Experiential Team Building *(4 hours)*	EDU	0.1	0.67	_____
MNTC - Communications *(4 hours)*	EDU	0.1	0.67	_____
TMGIS - ArcGIS Pro Quick-Start for the GIS Professional *(16 hours)*	EDU	0.4	2.67	_____
TMGIS - Scripting in ArcGIS with Arcade *(8 hours)*	EDU	0.2	1.33	_____
TMGIS - Working With Attribute Rules in ArcGIS Pro to Improve Data Integrity *(8 hours)*	EDU	0.2	1.33	_____
MNTC - Excel *(4 hours)*	EDU	0.1	0.67	_____
SCAUG CONFERENCE (8 HOUR)				
Attendee.....	EDU	0.2	1.33	_____
Presenter.....	CON	1	3	_____
Poster Presenter.....	CON	1	3	_____
Poster Award Winner.....	CON	2	6	_____
INSTRUCTORS				
1/2 Day Training Instructor : _____	CON	3	9	_____
1 Day Training Instructor : _____	CON	3	9	_____
2 Day Training Instructor : _____	CON	6	18	_____
Total GISP Points Earned				_____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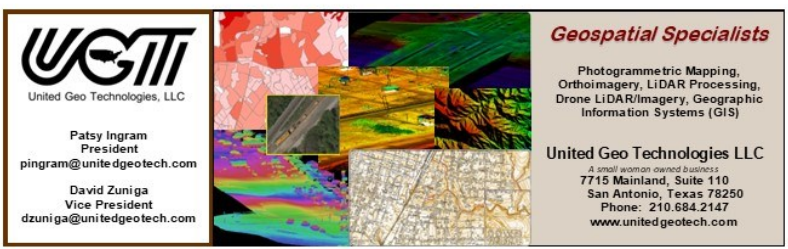

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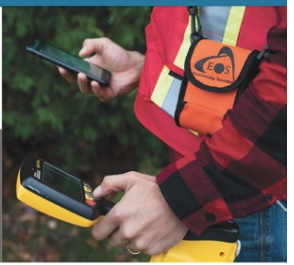
Eos Locate™ for ArcGIS Collector

Map buried assets with submeter or centimeter accuracy



Eos Locate™ for ArcGIS Collector is the world's first real-time, high-accuracy, underground-mapping solution for utilities using Esri Collector. With Eos Locate™ for Collector, utilities can map their buried infrastructure (e.g., electric, gas, water, telecommunications assets) with submeter or centimeter accuracy. All a field worker needs is an Eos Arrow GNSS receiver, Esri Collector, and a compatible locator device.

BETTER SAFETY

Ditch blind digging. Prevent liabilities to your constituents, employees, and third parties by keeping accurate records of underground pipes, cables, and wires.

MORE EFFICIENCIES

Roll just one truck, but get the value of rolling two. Consolidate your underground locate trips with your GPS data collection. All your GNSS and locate data is sent to ArcGIS Online in the push of one button!

PREPARE FOR 3D

Pave the way for the future of work — by collecting what's under the pavement. 3D asset management and augmented reality will require integrated depth of cover and precise elevations.

KEY FEATURES

- Map buried assets with submeter or centimeter accuracy.
- Single-user setup allows for simultaneous locate and GPS-mapping workflows.
- Exclusively compatible with Esri Collector, Arrow GNSS receivers and leading utility locator devices.
- Simple solution design takes advantage of the intuitive iOS platform.

Who is this solution recommended for?

- Electric utilities
- Gas utilities
- Pipeline operators
- Telecommunications
- Ports
- Co-Ops
- Water utilities
- Municipalities
- Parks and zoos
- Campuses

FOUR ERGONOMIC CONFIGURATIONS

1. Chestpack with rangepole (for use with iPad/iPad mini)
2. Safety vest with rangepole (typical for iPhone use)
3. Receiver in pouch (belt clip/shoulder strap) with softhat (typical for iPhone use)
4. Survey rangepole (required for centimeter)

Required Technology

- Eos Arrow GNSS receiver (any model)
- Eos Tools Pro (free iOS app; latest version)
- Esri Collector for ArcGIS* (latest version)
- iOS device (iPad, iPhone)
- Vivax-Metrotech vLoc Series of locator devices*

** Additional devices will be supported soon. Contact Eos for details.*

AUTHORIZED RESELLER

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Hindsight is 2020

April 12-14, 2022

Branson Convention Center, Branson, MO

MIDAMERICA GIS

For more information, to begin membership, or to register, visit magicgis.org

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