

IMAGIN 2022 Annual Conference

A Awards
 B Break
 L Lunch
 M Meal
 N Meeting
 P Presentation
 R Registration
S Social
 T Technical Session 1
 C Technical Session 2
 H Technical Session 3
 E Technical Session 4

JUNE 5 • SUNDAY

- | | | |
|--------------------------------------|--|---|
| PINNED
2:00pm –
4:00pm | R Early Vendor Registration & Setup
<i>Moderators: Amy Kraus, Susan Pries</i>
Early Vendor Registration & Setup | Sound Stage & Foyer (1 Lake Shore Dr, Mackinac Island, MI 49754) |
| PINNED
3:00pm –
5:00pm | S Biddle House Historical Tour
<i>Moderators: Eric Kerney</i>
Join colleague Eric Kerney (Airspace Link, LLC) at the historic Biddle House at 3:00 pm for a guided tour of the museum. | Biddle House (7406 Market St, Mackinac Island, MI 49757) |
| PINNED
3:00pm –
5:00pm | S Horseback Riding
<i>Moderators: Janet Mocadlo</i>
Join colleague Janet Mocadlo (SEMCOG) for two-hours of horseback riding around the island. Meet at Cindy's Riding Stable at 3:00 pm. | Cindy's Riding Stable (7447 Market St, Mackinac Island, MI 49757) |
| PINNED
3:00pm –
5:00pm | S Mackinac Island Bike Ride
<i>Moderators: Brett Heist, Damien Finkbeiner</i>
Join colleagues Brett Heist (SCS Engineers) & Damien Finkbeiner (TriMedia Environmental & Engineering) as they lead you on a two-hour bike ride around Mackinac Island. Meet outside of the Boxwood Cafe Coffee Shop at Mission Point for a 3:00 pm departure. Visit https://imagin.org/conference_social_events for more details. | Outside Boxwood Coffee Shop & Café (1 Lake Shore Dr, Mackinac Island, MI 49754) |
| PINNED
8:00pm –
11:59pm | S Sunday Night Ice Breaker
<i>Moderators: April Kibby</i>
Sunday night ice breaker event at the Cypress Room & Patio with lawn games, bonfire, and miniature glow golf. Outdoor events are weather dependent. | Cypress Room & Patio (1 Lake Shore Dr, Mackinac Island, MI 49754) |
| PINNED
9:30pm –
10:30pm | S Mini Glow Golf
<i>Moderators: Brodey Hill</i>
<i>Sponsors: Engineering Supply & Imaging</i>
Join your colleagues for a round of glow golf! Featuring 18 real bent grass greens, the Greens of Mackinac will be lit up for a truly unique golfing experience. | Greens of Mackinac (1 Lake Shore Dr, Mackinac Island, MI 49754) |

- A Awards
 B Break
 L Lunch
 M Meal
 N Meeting
 P Presentation
 R Registration
S Social
 T Technical Session 1
 C Technical Session 2
 H Technical Session 3
 E Technical Session 4

JUNE 6 • MONDAY

M Breakfast Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED
 7:30am – 8:15am
Sponsors: Fishbeck
 Monday morning breakfast presented by Fishbeck. Visit <https://fishbeck.com/> or contact Melissa Blaser or Andrew Schwailler about what Fishbeck can do your organization.

R Registration Open Sound Stage Foyer (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED
 7:30am – 9:45am
Moderators: Amy Kraus, Susan Pries
 Visit the registration table for name badge and awesome IMAGIN swag!

P Welcome & Opening Remarks Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED
 8:15am – 8:30am
Speakers: Thomas Van Bruggen
 Welcome & Opening Remarks from IMAGIN President Thomas Van Bruggen

P Monday Morning Keynote Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED
 8:30am – 9:30am
Moderators: Thomas Van Bruggen
Speakers: John Nelson
Sponsors: Esri
 It's wake up time! What better way to kick off #IMAGIN2022 than with Michigan's own cartographic wizard John Nelson? Join John on a trip around the most cartographically interesting state in the union and learn why Mapping in Michigan Couldn't Be Any Cooler.

B Refreshment Break Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED
 9:30am – 9:45am

T Indoor GIS Friendship Altar (1 Lake Shore Dr, Mackinac Island, MI 49754)
 9:45am – 10:30am
Moderators: Rawan Hinzman
Speakers: Phillip Julian
 ArcGIS Indoors is a complete indoor mapping system for smart building management. It organizes computer-aided design (CAD), building information modeling (BIM), site scans, and operational datasets into floor-aware indoor maps to support facilities, workplace operations, maintenance applications, and various use cases. Executives, supervisors, mobile staff, and employees can better understand, maintain, and operate workplace environments with ArcGIS Indoors.

T Model Builder in ArcGIS Pro Arch Rock (1 Lake Shore Dr, Mackinac Island, MI 49754)
 9:45am – 10:30am
Moderators: Jonathon Merrick
Speakers: Shane Pavlak
 Creating and scheduling models built in ArcGIS Pro.

9:45am – 10:30am	<p>T The Evolution of the Photogrammetry Industry and how Nearmap has Adapted <i>Moderators: Chad Misiuk</i> Robinson's Folly (1 Lake Shore Dr, Mackinac Island, MI 49754) <i>Speakers: Tyler Behle, Kevin Korth</i> <i>Sponsors: Nearmap</i></p> <p>The field of aerial imagery has exploded in the last two decades. Advancements in technology and capture methodology have made aerial images better, cheaper, and more accessible to a wide range of users. Today aerial imagery is used in a number of diverse sectors including engineering, construction, transportation, energy, state and local governments and many more. In this presentation we will provide an overview of the aerial imagery industry, insights into photogrammetry derived data, and multidimensional data applications, all while showing how Nearmap has been able to adapt and evolve with these changes and improvements.</p>
9:45am – 10:30am	<p>T Transparency Through GIS Eagle Point Cave (1 Lake Shore Dr, Mackinac Island, MI 49754) <i>Moderators: Janet Mocado</i> <i>Speakers: Chad Collins</i> <i>Sponsors: Avineon</i></p> <p>Governmental transparency provides information to citizens about operations and spending and is key to promote public accountability. As capital improvement projects are a highly visible indication of government spending, it can be effective to provide detailed information about these projects to the public to promote transparency. The City of Concord, CA has recognized the benefits of providing detailed spatial and tabular information to the public regarding capital improvement projects happening in the City. In this presentation, Avineon will demonstrate how this was accomplished using a custom Esri ArcGIS StoryMaps Shortlist app template to serve as a public-facing viewer and a custom Esri ArcGIS Web AppBuilder (Developer Edition) app used to administer its content.</p>
9:45am – 11:30am	<p>T Getting Started with the ArcGIS Utility Network Sugar Loaf (1 Lake Shore Dr, Mackinac Island, MI 49754) <i>Moderators: Tony Bedogne, GISP</i> <i>Speakers: Virginia VanderVeen</i></p> <p>This workshop will walk participants through the Utility Network migration process using sanitary sewer data. The focus will be on four primary stages, which include planning (getting to know the data dictionary and understanding the Utility Network structure), migration (data loading tools and asset packages), creation (staging the Utility Network and applying the asset package), and implementation (publishing the Utility Network and working with Utility Network tools). This is intended to be a basic introduction.</p>
9:45am – 11:30am	<p>T Statewide GIS Hydrography Data Improvement Project - The Process and Beyond Amphitheater (1 Lake Shore Dr, Mackinac Island, MI 49754) <i>Moderators: Matt Malone</i> <i>Speakers: Robert Goodwin, Mark Holmes</i></p> <p>The State of Michigan is developing an updated hydrographic data catalog based on the 3DEP LiDAR that now covers the state. Through this collaborative project that involves many stakeholders, the GIS hydrography data will be more complete and accurate.</p>
PINNED 10:30am – 10:45am	<p>B Refreshment Break Conference Center (1 Lake Shore Dr, Mackinac Island, MI 49754) Break</p>
10:45am – 11:30am	<p>C Extending Survey123 with JavaScript Arch Rock (1 Lake Shore Dr, Mackinac Island, MI 49754) <i>Moderators: April Kibby</i> <i>Speakers: Kray Freestone</i></p> <p>Do you ever find yourself frustrated with the limitations of Survey123's limited calculation abilities? What if you could distill complicated formulas into JavaScript and insert that into your form? What if you could get live weather data, or even ArcGIS Online Data in your form? All of this, and more, is possible with Survey123. A basic understanding of Survey123 and JavaScript is helpful but not required.</p>

10:45am – 11:30am	C Grand Valley Metro Council's Regional GIS	Eagle Point Cave (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Shane Pavlak</i>	
	<i>Speakers: Jason Moore</i>	
	Since 1997, GVMC's REGIS has been a single centralized GIS department for 19 local governments.	
	Presentation will focus on the current state of REGIS and provide project examples for each local government service area. Clerks, DPW/Engineers, Public Safety, Planners, Parks and Recreation among others.	
10:45am – 11:30am	C Streamlining Project Workflows that Involve Multiple Esri Applications	Robinson's Folly (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Ariana Toth, Janet Mocado</i>	
	<i>Speakers: Kate Berg</i>	
	ArcGIS StoryMap Collections offer a simple browser-based solution for our project workflows that involve multiple processes across ArcGIS Dashboard, Survey123, and Experience Builder and allow us to create a one-stop-shop. This new system streamlines previously clunky and confusing methods that required the use of multiple browser tabs and desktop software now into one comprehensive location. Another strength of this solution is that it can be used by any staff, regardless of GIS expertise. This presentation will go into how we are using this framework in several projects across EGLE, including in our Drinking Water and Environmental Health Division to track and evaluate public drinking water concerns and in our Remediation and Redevelopment Division to submit and display our environmental remediation projects. We will discuss how we are utilizing several powerful Esri tools within the Collections as well as how we harness the power of Survey123 webhooks to conditionally send customized alerts to staff. Our solution has greatly increased usability and decreased technical difficulties, and consequently has made both our project staff and GIS teams more efficient and effective.	
10:45am – 11:30am	C The Evolution of a Public Facing Tree Map - A GIS Solution	Friendship Altar (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Melissa Blaser</i>	
	<i>Speakers: Jerry Swanson</i>	
	The story of how an idea for a public facing tree inventory map evolved from a simple web map to integrating Survey 123, FME, Square and an email server into a robust and not so out of the box solution.	
PINNED 11:30am – 11:45am	B Break	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Break	
PINNED 11:45am – 12:45pm	L Lunch	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Sponsors: Giffels Webster</i>	
	Monday afternoon lunch sponsored by Giffels Webster. Visit https://www.giffelswebster.com/ or find Keith Rikli to learn how Giffels Webster can help your organization!	
PINNED 12:45pm – 1:15pm	P National Spatial Reference System Overview	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Thomas Van Bruggen</i>	
	<i>Speakers: Jacob Heck</i>	
	In this presentation, Jacob will provide an overview of the National Spatial Reference System, NGS's efforts to modernize it, and the tools that NGS maintains to meet the positioning needs of the geospatial community.	
PINNED 1:15pm – 1:45pm	N IMAGIN General Membership Meeting	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Speakers: Thomas Van Bruggen</i>	
	Join fellow members at the annual IMAGIN General Membership Meeting.	
PINNED 1:45pm – 2:15pm	B Refreshment Break	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Break	

-
- 2:15pm – 3:00pm H **Advancing the Michigan Statewide Authoritative Imagery and Lidar Program (MiSAIL)**
Moderators: Scott Ambs Arch Rock (1 Lake Shore Dr, Mackinac Island, MI 49754)
Speakers: Everett Root, Ulrika Zay
 The State of Michigan manages a successful aerial imagery program called MiSAIL. The imagery and lidar collected is available to all State agencies and State Partners. State Partners include, but are not limited to, local, federal, and tribal governments. New services have been added as a result of the complex request for proposals that the team finished in 2020. This presentation will describe the details of the State's imagery and lidar services.
-
- 2:15pm – 3:00pm H **Digital Cultural Heritage Mapping and Predictive Model**
Moderators: Jerry Swanson Eagle Point Cave (1 Lake Shore Dr, Mackinac Island, MI 49754)
Speakers: Jubin Cheruvellil
 We present an innovative approach to cultural heritage management and preservation through the development of unique geodatabase that incorporates historical and cultural features as a basis for the development of predictive model for decision making.
-
- 2:15pm – 3:00pm H **LiDAR for Environmental, Natural Resources, Hydrological, Engineering and Geological Applications**
 Robinson's Folly (1 Lake Shore Dr, Mackinac Island, MI 49754)
Moderators: Scott Swan
Speakers: John Esch
 LiDAR (Light Detection And Ranging) has fundamentally changed how we view and interpret the landscape and has revolutionized geological mapping. Often subtle features can be seen in the LiDAR topography data that are not visible on aerial photography, topographic maps, or digital elevation models (DEMs). This presentation will show the widely varying uses of LiDAR for geological, environmental, and hydrological applications across Michigan.
-
- 2:15pm – 3:00pm H **What's new with ESRI Field Maps** Friendship Altar (1 Lake Shore Dr, Mackinac Island, MI 49754)
Moderators: Nichole Bowman
Speakers: Andrew Kline
 With ESRI Field Maps replacing all ESRI Collector and Collector Classic, we will be discussing what ESRI Field Maps is, as well as updates available and what's coming. We will also be discussing the pros and cons of dedicated GNSS units, showing how ESRI Field Maps handles important information such as correction and other metadata associated with a data collection using a Trimble Catalyst Device, and how to make sure ArcGIS Collector is collecting the GNSS metadata.
-
- 2:15pm – 4:00pm H **PostGIS and GISquirrel and PostgreSQL..Oh My!** Amphitheater (1 Lake Shore Dr, Mackinac Island, MI 49754)
Moderators: Janet Mocado
Speakers: Chad Misiuk
 SEMCOG uses PostGIS and PostgreSQL to store and update data that we use in our Regional Development Forecast. GISquirrel is an ArcMap addin that allows you to view and edit data that is stored in PostgreSQL and has become a critical tool in our workflow.
-
- 2:15pm – 4:00pm H **Re-integrating Divergent Spatial Data Stores** Sugar Loaf (1 Lake Shore Dr, Mackinac Island, MI 49754)
Moderators: Jason Moore
Speakers: Brooks Kelley, Chad Collins
Sponsors: Avineon
 Dominion Energy is a large energy company with a well-developed, Esri-based GIS. To meet regulatory requirements, Dominion developed a Survey123 solution for field asset inspections using a Cloud-hosted snapshot its asset data store. Following deployment, Dominion migrated its asset data store to the Utility Network. This resulted in two competing data stores (one developed through workorder-based data entry and the other on field validation) using different models. This presentation describes Avineon's approach towards reintegrating these.
-

PINED	B Break	Conference Center (1 Lake Shore Dr, Mackinac Island, MI 49754)
3:00pm – 3:15pm	Break	
3:15pm – 4:00pm	E ArcGIS Field Maps <i>Moderators: Scott Swan</i> <i>Speakers: Phillip Julian, Matt Robinson</i> <i>Sponsors: Esri</i>	Friendship Altar (1 Lake Shore Dr, Mackinac Island, MI 49754)
	ArcGIS Field Maps is a new mobile app that brings together map viewing, data collection, asset inspection, and location tracking workflows into one application. Join this session to learn the basics of how Field Maps can improve your field workflows. We will discuss what's on the horizon for Field Maps and answer your questions.	
3:15pm – 4:00pm	E Dashboard Palooza: Tips & Tricks for Building ArcGIS and Cityworks Dashboards <i>Moderators: April Kibby</i> <i>Speakers: Keri Blough</i>	Robinson's Folly (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Take a tour of a few ArcGIS dashboards created to explore residential property sales, Capital Improvement Program (CIP) projects, and road construction projects. The dashboards support City of Novi departmental operations and make data more accessible to the public. Cityworks Dashboards created as part of the Respond module help us track work activities and show change in demand for services over time.	
3:15pm – 4:00pm	E Open Source Drone Mapping: Try Before You Buy <i>Moderators: Keith Rikli</i> <i>Speakers: Matt Kurkowski</i>	Eagle Point Cave (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Put your fancy new drone to work for free. Open Drone Map has many options available to get one's feet wet with Orthomosaics, Point Clouds, 3D Models and much more.	
3:15pm – 4:00pm	E Pandas, Pythons, and Parking Tickets <i>Moderators: Magdalena DiFranco</i> <i>Speakers: Tony Bedogne, GISP</i>	Arch Rock (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Workflow and implementation discussion of the creation of a parking ticket application created for city police services analysts. Parking Tickets detail captured by handheld devices is warehoused in a vendor cloud. The use of python to download records from an ftp drive, then apply some heavy processing using the pandas module for python. The output of daily processing lands in a referenced feature class used in a map application. Presentation will highlight the business value and workflow design of the effort.	
PINED	N IMAGIN Board of Directors Meeting <i>Speakers: Thomas Van Bruggen</i>	Sugar Loaf (1 Lake Shore Dr, Mackinac Island, MI 49754)
4:00pm – 4:15pm	IMAGIN Board of Directors meeting to reveal election results, hear proposed slates for the Executive Team (President, Vice-President, Treasurer, Secretary), and vote on the Executive Team for 2022-2023	
PINED	S Vendor Appreciation Reception	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
4:00pm – 5:00pm	Reception hosted by IMAGIN to recognize the contributions that vendors and sponsors made to make the conference possible	
PINED	P Wi-Fi Sponsor Address <i>Moderators: Thomas Van Bruggen</i> <i>Speakers: Matt Robinson</i> <i>Sponsors: Esri</i>	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
5:00pm – 5:05pm	As wi-fi sponsor, Esri addresses conference attendees on what they can do for your organization	

-
- P** **Monday Night Social Event Sponsor Address** Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
Moderators: April Kibby
Speakers: Jen Tucker
Sponsors: Nearmap
Nearmap sponsors the Monday night social event. Hear from Jen Tucker as she gives a brief overview of how Nearmap can help your organization!
-
- S** **Dinner** Mackinac Island (1 Lake Shore Dr, Mackinac Island, MI 49754)
Dinner on your own on beautiful Mackinac Island
-
- S** **Scavenger Hunt** Mackinac Island (1 Lake Shore Dr, Mackinac Island, MI 49754)
Moderators: Jonathon Merrick
Speakers: April Kibby
Sponsors: Nearmap
Grab the QR code, available following the Vendor Appreciation Reception, and get out hunting! One point is awarded for each correct answer with challenging bonus questions. Meet back at the Cypress Room at 9 pm for prizes! Brought to you by Nearmap.
-
- S** **Monday Social Event** Cypress Room & Patio (1 Lake Shore Dr, Mackinac Island, MI 49754)
Moderators: April Kibby
Sponsors: Nearmap
Join your colleagues for an island scavenger hunt as you traverse the island. Meet at the Cypress Room for networking and prizes.
-

- A Awards
 B Break
 L Lunch
 M Meal
 N Meeting
 P Presentation
 R Registration
S Social
 T Technical Session 1
 C Technical Session 2
 H Technical Session 3
 E Technical Session 4

JUNE 7 • TUESDAY

M Breakfast Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED Tuesday morning breakfast
 7:30am –
 8:30am

R Registration Open Sound Stage Foyer (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED Visit the registration table for name badge and awesome IMAGIN swag!
 7:30am –
 9:30am

P Tuesday Morning Keynote - Digging Through History Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED *Moderators: Thomas Van Bruggen*
 8:30am – *Speakers: Lynn Evans*
 9:15am
 The Straits of Mackinac is one of the most historic places in Michigan. One of the ways Mackinac State Historic Parks has learned more about the everyday lives of the people there is through archaeological excavation. Colonial Michilimackinac, in Mackinaw City, is the site of one of the longest archaeological excavations in North America. Numerous smaller scale excavations have been carried out on Mackinac Island as well. In this keynote, MSHP Curator of Archaeology Lynn Evans will present an overview of several of these projects.

B Break Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED Break
 9:15am –
 9:30am

9:30am – **T Imagery Workflows in ArcGIS Online** Friendship Altar (1 Lake Shore Dr, Mackinac Island, MI 49754)
 10:15am
Moderators: Eric Kerney
Speakers: Matt Robinson
Sponsors: Esri
 ArcGIS can support your entire imagery workflow in the cloud, including imagery management, analysis with machine learning, visualization, and sharing your results with your audience. In this session, take a tour of imagery capabilities available in ArcGIS, see demonstrations, and learn the next steps to get you started.

9:30am – **T Onboarding to the Upgraded Statewide NG911 GIS Repository** Eagle Point Cave (1 Lake Shore Dr, Mackinac Island, MI 49754)
 10:15am
Moderators: Scott Ambs
Speakers: Mark Holmes
 The statewide NG911 GIS repository has been a model for statewide GIS data integration and a new upgraded version of the repository has just been launched. This presentation will outline steps for onboarding to the new system, demonstrations on how to leverage all of the data validation tools, the viewer and download capabilities for 911 systems, and a review of current and future standards from the National Emergency Number Association.

9:30am – **T Whitetail Wanderings: Geospatial Tech and Aerial Deer Surveys in Farmington Hills** Arch Rock (1 Lake Shore Dr, Mackinac Island, MI 49754)
 10:15am
Moderators: Sarah Merz
Speakers: Matt Malone
 Brief history of the annual aerial deer surveys that have been conducted since 2015 in the Farmington Hills area. The presentation will cover data collection; changes in app technology; and cartographic analysis/output techniques of the final datasets.

9:30am – 11:15am	T Keeping Your Map Cache Current Using ArcGIS Pro & ArcGIS Server	Amphitheater (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Rawan Hinzman</i> <i>Speakers: Tony Bedogne, GISP, Chad Misiuk</i>	
	Moderated Panel Discussion using ArcGIS Server to host routinely updated tile caches. Discussion of best management practices and Automation options.	
9:30am – 11:15am	T So Many Options! How To Choose Between Instant Apps, Experience Builder, WebApp Builder, Dashboards And StoryMaps To Create Your Own Web App in ArcGIS Online	Sugar Loaf (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Shane Pavlak</i> <i>Speakers: Magdalena DiFranco</i>	
	Making your own web apps has never been easier. Without writing a single line of code ArcGIS Online allows you to create a large variety of web apps tailored to your data, purpose and audience. However, how do you choose the right application from so many options? Let's take a look at Instant Apps, Experience Builder, WebApp Builder, Dashboards and StoryMaps to compare and contrast their capabilities.	
PINNED 10:15am – 10:30am	B Refreshment Break	Conference Center (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Break	
10:30am – 11:15am	C Advancing Campus Efficiencies by Developing and Utilizing Indoors Data	Arch Rock (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Scott Swan</i> <i>Speakers: Scott Holland</i>	
	In this presentation, we will review the MSU Spatial Data Management team's development of indoor data and processes that led to the implementation of the ArcGIS Indoors platform. The presentation will demonstrate how the Spatial Data Management team utilized FME to create a custom indoors data model. As well as discussing how the creation of floor-aware GIS applications has led to increased efficiency throughout Campus.	
10:30am – 11:15am	C Drive by Data Collection using QuickCapture	Eagle Point Cave (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Brett Heist</i> <i>Speakers: April Kibby</i>	
	Field data collection made easy with QuickCapture's customizable interface. This solution allows the user to stay in motion while gathering accurate field data with little cleanup. Demonstrating how St Joseph Charter Township used and deployed this tool to capture all their trails and make the data available to citizens in a "quick" turnaround time.	
10:30am – 11:15am	C Enterprise GIS with QGIS & PostGIS	Friendship Altar (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Keri Blough</i> <i>Speakers: Jessica Kane</i>	
	Using the open source desktop GIS application QGIS with a PostgreSQL/ PostGIS database forms a great foundation for a fully functional enterprise GIS solution. This presentation will cover several key features that allow employees of an organization to easily access shared data, projects, and styling. We'll also touch on mobile and web tools that integrate with QGIS, rounding out an enterprise system.	
PINNED 11:15am – 11:30am	B Break	Conference Center (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Break	

11:30am – 12:15pm	H A Statewide Network for Access to Emergency Management GIS Tools	Amphitheater (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Eric Kerney</i>	
	<i>Speakers: Walter Chomentowski</i>	
	Geographic Information Systems are essential tools for emergency management. Through mobile applications, dashboards, and imagery, GIS provides data to emergency managers for informed decision making. The Michigan State Police Emergency Management Homeland Security Division has developed a statewide network, using ArcGIS Online, to provide GIS tools for emergency managers. One hundred emergency managers across the state have free access relevant applications available for monitoring and managing emergencies. This network, developed using the ArcGIS Online platform allows data and applications to flow back and forth from federal, state, and local emergency managers.	
11:30am – 12:15pm	H Cartography, Hackology, and Geo-shenanigans	Sugar Loaf (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Janet Mocado</i>	
	<i>Speakers: John Nelson</i>	
	<i>Sponsors: Esri</i>	
	Sure, you could make a map the way the software intends, or you could foster a blatant disregard for convention and make the maps you want by misusing tools and stringing together hacks. Here are some ways to use ArcGIS (mostly Pro) to do that. We'll also discuss helpful ways of transitioning from out old pal ArcMap.	
11:30am – 12:15pm	H Custom MapStore Conversion to ArcGIS Pro	Eagle Point Cave (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Christopher Van Horn</i>	
	<i>Speakers: Mallory Walczesky</i>	
	Washtenaw County MapStore's conversion from multiple project templates in ArcMap to using the layout features in ArcGIS Pro.	
11:30am – 12:15pm	H USGS: Bringing Maps and Data to Your Desktop	Arch Rock (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Jerry Swanson</i>	
	<i>Speakers: Cynthia Rachol</i>	
	Update on USGS activities and introduction to "new" National Map Liaison for Michigan	
11:30am – 12:15pm	H Using Cellphone Data to Understand Spatial Dimensions of Socio-economic Equity	Friendship Altar (1 Lake Shore Dr, Mackinac Island, MI 49754)
	<i>Moderators: Nichole Bowman</i>	
	<i>Speakers: Rowan Brady</i>	
	Every person experiences physical space differently. Race, gender, and socio-economic status influence how we move and operate in the urban landscape. In this session, I will demonstrate how cell phone mobility data can be used to identify areas with high socio-economic inequality. This method goes beyond census-designated boundaries providing an accurate and granular picture of the relationship between socio-economic status and location. The presentation will use Grand Rapids as a methodological case study.	
PINNED 12:15pm – 12:30pm	B Break	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Break	
PINNED 12:30pm – 1:30pm	M Lunch	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
	Lunch presented by NV5 Geospatial. Visit https://www.nv5.com/geospatial/ , or seek out Andrew Brenner on how NV5 can help your organization	

PINNED 1:25pm – 1:30pm	P Awards Luncheon Sponsor Address <i>Moderators: Thomas Van Bruggen</i> <i>Speakers: Andrew Brenner</i> <i>Sponsors: NV5 Geospatial</i> NV5 Geospatial sponsors the Tuesday Awards Luncheon. Listen to Andrew Brenner as he introduces NV5 Geospatial and how they can help your organization.	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED 1:30pm – 2:15pm	A 29th Anniversary Awards Ceremony <i>Speakers: Thomas Van Bruggen</i> <i>Sponsors: NV5 Geospatial</i> 29th Anniversary Awards Ceremony	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED 2:15pm – 2:30pm	S Drawing for Drone <i>Speakers: Thomas Van Bruggen</i> Drawing for any remaining conference attendee to win a DJI Mini 2 drone. Must be present to win.	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED 2:15pm – 2:30pm	S Silent Auction Winners Announced <i>Speakers: Thomas Van Bruggen</i> Winners of the silent auction items are announced. Payment can be made at the registration desk.	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
PINNED 2:30pm – 2:30pm	Conference Close	Sound Stage (1 Lake Shore Dr, Mackinac Island, MI 49754)
