Mapping Together Learning Together

MICAMP’S 26TH ANNUAL FALL GIS CONFERENCE

SEPTEMBER 22 - 24
BOYNE MOUNTAIN RESORT
GETTING AROUND BOYNE

Conference Registration and Sessions are all held in the Civic Center
CIVIC CENTER

CONFERENCES

Aurora

Civic Center
Lower Level

Alberg 1
Alberg 2

Alberg 3
Alberg 4

Matterhorn A & B

Civic Center
Upper Level

Matterhorn C & D

Rampshead

West Lobby

East Lobby

Registration

Mask Up!
Thank You to all our supporting vendors!

Airspace Link
Amalgam*
Anderwylde LLC
Avineon, Inc.*
BS&A Software*
Cloudpoint Geospatial
Eagleview*
Engineering Supply and Imaging*
Fishbeck
Fleis & VandenBrink Engineering
Hubbell, Roth & Clark
Kucera International*

Nearmap*
North Arrow Technologies, Inc
OHM Advisors
Prein & Newhof
Sanborn
Seiler Instrument*
The Atlantic Group*
TriMedia Environmental & Engineering*
Tunnel Vision Pipeline Services
Williams Aerial & Mapping, Inc.*
Woolpert*

*A special thank you to Engineering Supply & Imaging for printing the conference program

*Vendor Booth Memberships
2020 - 2021
BOARD OF DIRECTORS

Board Officers
President: Nathan Fazer - GIS Technician, Midland County
Vice-President: Trevor Floyd, GISP - GIS Analyst, St. Clair County
Treasurer: Brent Thelen - GIS Coordinator, Calhoun County
Secretary - Nathan Coon, GIS Coordinator, EUP Regional Planning

Trustees
Chris Cantrell, GISP MCAO - GIS/IT Coordinator, Midland County
Jay Anderson, GISP - Consumers Energy
Michael Cousins, GISP - OHM Advisors
*Chad Burke - GIS & Mapping Coordinator, City of Coldwater
^Ben Dubois, Planner - CUPPAD

Term Replacements
*Nathan Warrick, City of Auburn Hills
^Nicholas Bogen, GIS Coordinator - Bay City
**WEDNESDAY, SEPTEMBER 22**

1 PM - 4 PM  
Registration / Check-In  
Meet The Vendors  
Wednesday Mixer  
Dinner - Your Pick  
Icebreaker/Bonfire

**THURSDAY, SEPTEMBER 23**

8 AM - 9 AM  
Breakfast in Civic Center  
Registration / Check-In  
MiCAMP Business Meeting

9:30 AM - 10:30 AM  
Plenary Session  
Bill Johnson, AppGeo  
Matterhorn C/D

**MATTERHORN C/D**

10:45 AM - 11:20 AM  
Drone Analysis/Open Source  
Robert Goodwin, MSU RS&GIS

Open Source Drone Deployment  
RS&GIS is in the process of building a open source solution for deploying drones. This solution, which will utilize free, or nearly free, software for acquisition, processing and analysis, will allow communities to reduce drone-related costs considerably while still obtaining GIS-grade data for their programs.

Advanced Drone Collection and Processing  
RS&GIS operates numerous drones for both research and outreach activities. Recently, we have deployed a cutting-edge system that includes both hyperspectral and LiDAR to assess crop health for MSU research activities. This presentation will demonstrate the process involved and discuss challenges and opportunities of this advanced system.

11:25 AM - 12 Noon  
Practical UAS Applications  
Tony Sauerbrey, NMC

This discussion will cover topics such as: getting a commercial drone license, selecting a drone to use, collecting good data with a drone, software packages that are typically used to create survey models, and where you can go for training. Emphasis will be placed on how to use this tool from beginning to end.

**ALBERG 1/3**

10:45 AM - 11:20 AM  
GeoEvent Use in Elections  
Chelsea Robinson, Calhoun County

*This session is a pre-recorded video*

Calhoun County uses ArcGIS GeoEvent Server to live update election results throughout election night. Staff leveraged a combination of ArcGIS GeoEvent Server and ArcGIS Election Solutions to maintain polling location maps pre-election and representative maps post-election. Attend this session and see how GIS delivered up-to-date election information to citizens.

11:25 AM - 12 Noon  
USGS 3DEP & National Map Update  
Cyndi Rachol, USGS

*This session is a pre-recorded video*

The USGS 3D Elevation Program (3DEP) has a goal for acquiring a national lidar dataset (with IFSAR in Alaska). In this presentation, you will be updated on the current status of the national 3DEP program, learn about the availability of lidar data in Michigan, and how to access this data through the National Map. Additionally, a broad overview of the National Map's other geospatial support themes will be presented. As time allows, a newly available dashboard for USGS water data will also be presented.

**ALBERG 2/4**

10:45 AM - 11:20 AM  
Community Imagery Use  
NearMap/OHM Advisors

Nearmap products can help local municipalities throughout Michigan smartly strategize their expansion with a full stack of aerial content that enables GIS professionals to clearly visualize, plan, advertise, and track projects.

Learn how GIS professionals can use Nearmap to: improve data transparency, streamline operational efficiency, empower planning and decision-making capabilities, improve department workflows, and boost data-driven insights by integrating Nearmap products with various applications.

11:25 AM - 12 Noon  
Pro's Deep Learning Tools  
Nathan Fazer, Midland County GIS

Nathan will discuss Midland County’s experience with Pro’s Deep Learning tools and Esri’s models to detect building footprints, pools, and solar panels. Nathan will provide an overview of what’s required, recommended, and examples of what worked (and what didn’t).
Bay County Non-Motorized Survey
Ryan Smith, Bay County BCATS

In 2020, the Bay County Transportation Planning division was busy completing the update to the Bay City Area Transportation Study (BCATS) Non-Motorized Transportation Plan (NMTP). In doing so, staff developed an Esri StoryMap with embedded Survey123 forms in an effort to not only collect public comments on the NMTP, but to allow for survey-takers to digitize new non-motorized features within the urbanized area. BCATS staff will discuss what worked well for this survey and how it may help with future public engagement.

Environmental Health FetchGIS App
Joel Strasz, Bay County Health Dept.

Bay County Health Department was awarded a Grant in the amount of $700,000 to replace failing septic systems. The tool that allowed us to locate these failing systems and obtain grant approval is Fetch EH. A powerful mapping and septic system management tool developed by Amalgam. Utilizing a tool within Fetch EH we are able to locate septic systems with the highest risk of failure, visit these sites and offer help in the form of funding to replace systems in failure. This presentation will focus on details of the grant and how GIS mapping software plays a key role to obtain the funding needed to replace failing septic systems.

Drone Projects / Uses
Nathan Fazer, Midland County GIS
Nathan Coon - EUPRPDC

Midland County and EUPRPDC will give some examples and updates of drone projects and drone work done in Midland and the EUP.

Midland will discuss post-flood drone work, creating interactive veteran’s memorials using drone imagery, social media videos, and beta testing the next version of Drone2Map.

EUPRPDC will discuss different video footage projects, a volume and aerial imagery project for a gravel pit, and video work for the Michigan Aerospace Manufacturing project at the Chippewa County EDC Industrial Park.

Community Engagement from SLBA
Brian Woodin, State Land Bank Authority

With parcels spanning from the Ohio border to the UP and Detroit to Muskegon, the State Land Bank Authority (SLBA) utilizes GIS to engage communities on past, present, and future land-use issues concerning tax-reverted, blighted, and contaminated properties. In this session, Brian Woodin will show how federal Home Owners Loan Corporation maps from the 1930s and 40s correspond to current SLBA and county land bank inventories. Next, Jennifer Quinlivan will highlight Mecosta County’s Canadian Lakes community and how reimagining the landscape can help return over 700 parcels to productive use. Finally, Ryan McNeil will explore the utilization of SLBA and other state-owned land for solar energy generation projects as part of the State’s effort to switch state-owned facilities to 100% renewable energy by 2025.
THURSDAY, SEPTEMBER 23 CONTINUED

MATTERHORN C/D
3:15 PM - 4:30 PM (Almost) Everything AGOL
Nathan Fazer, Midland County

Credits: Get a quick snapshot of credit usage using the credit dashboard, and export a detailed item report to find what items are being used.

User Roles: Utilize User Roles to fine-tune your users’ permissions and experience.

Community Maps: Hear how easy it is to enroll in Esri’s CMP to share your local data for Esri’s basemaps and other Esri products. Midland County will show examples of the data it has shared with the CMP so far.

Open Data: Hear how Midland County is using a Hub site and AGO to openly share GIS data.

ALBERG 1/3
3:15 PM - 3:50 PM
Merit Broadband
Amy Stuyvesant, GIS Analyst
Pierrette Renée Dagg, Marking Director

Michigan Moonshot: A survey is sent to residents focused on capturing granular internet speed tests and user sentiment data for municipalities as part of their journey to expand fixed broadband infrastructure and close the digital divide. Merit will show how it uses Esri, R-ArcGIS Bridge, Dashboards, etc.

Merit’s Journey to GIS: Historically, Merit used Google Earth and kmz files for mapping. In the past year, Merit has developed a GIS program. Hear about the process, the GIS Strategic Plan, and how GIS is used in focus areas (infrastructure asset management, non-Esri enterprise integrations, data analysis, and membership engagement/storytelling), and some lessons learned.

3:55 PM - 4:30 PM
Connected Nation - Michigan
Dan Manning, Community Tech. Advisor
Ashley Hitt, VP, GeoAnalytics, Connected Nation

Hear from Connected Nation on broadband mapping and analysis across the state, as well as the community engagement work to address the challenges associated with a lack of internet services and technology adoption in each unique community to enhance economic development and local opportunities. There will be a review of current federal broadband data collections and new requirements, collaborations and public-private partnerships that make a difference, solutions for accurate and granular broadband mapping, and state success stories.

THURSDAY EVENING ACTIVITIES
4:30 PM - 6:30 PM
Vendor Reception
Matterhorn A/B

Dinner
Vienna

Thursday Night Reception
Stein Eriksen’s/Patio

THURSDAY DEMO THEATER

Ramshead (behind vendor area)

10:45 AM - 11:20 AM
Field Maps
Seiler GeoSpatial

The Collector for ArcGIS app has evolved into a new app for iOS and Android. In this presentation, we will cover what is new and what is on the horizon for the Collector platform, which is now called Field Maps. Highlights include: Overview, Tips and Tricks, Using GNSS Receivers, and What’s Coming for Field Maps.

11:25 AM - 12 Noon
Imagery Integration
EagleView

2:10 PM - 2:45 PM
Mobile Mapping
Seiler GeoSpatial

Mobile Mapping and Mobile LiDAR has gone mainstream. The hardware has been integrated. The software that supports asset extraction has become easier to use. Together this has made the possibility of high efficiency/mass capture in Mapping and Surveying a new reality. Highlights include: What is Mobile Imaging, Available Tools, and Gathering/Collecting Data.

THURSDAY EVENING ACTIVITIES

2:10 PM - 2:45 PM
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Seiler GeoSpatial

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3:15 PM - 4:30 PM
Underground Utility Mapping & Using USGS LiDAR
OHM Advisors

3:55 PM - 4:30 PM
Free GIS Resources
Dr. Mark Francek, Central Michigan University

From land-use modelling to tracing the path of a watershed’s raindrop, these free GIS resources don’t require a sign or special software. Give your non-specialist stakeholders experience with the power of GIS!
FRIDAY, SEPTEMBER 24

8 AM - 9 AM  Breakfast in Civic Center  Matterhorn A/B
9 AM - 12 Noon  State of Michigan Update  Matterhorn C/D

FRIDAY BREAK
10:15 AM - 10:45 AM

FRIDAY LUNCH
12 Noon - 1:00 PM  Vienna

STATE OF MICHIGAN UPDATES

9:00 AM - 9:30 AM
MGF Project Update
Mark Holmes

10:45 AM - 11:15 AM
MiSAIL Update
Everett Root, Ulrika Zay

9:30 AM - 9:45 AM
1Spatial Demo

11:15 AM - 11:30 AM
MDOT Updates
Kyle Clem

9:45 AM - 10:00 AM
Department of Military and Veteran Affairs
Ashley Cunningham

11:30 AM - 12 Noon
State Hydrology Project Update
Mark Holmes

10:00 AM - 10:15 AM
Michigan State Police
Walter Chomentowski
Thank You for attending the 2021 MiCAMP GIS Conference.

Mark Your Calendars

The 27th Annual MiCAMP Conference is planned for September 21 - 23, 2022