

Mapping

Together

Learning

Together



MICAMP'S 26TH ANNUAL

FALL GIS CONFERENCE



MICAMP.ORG

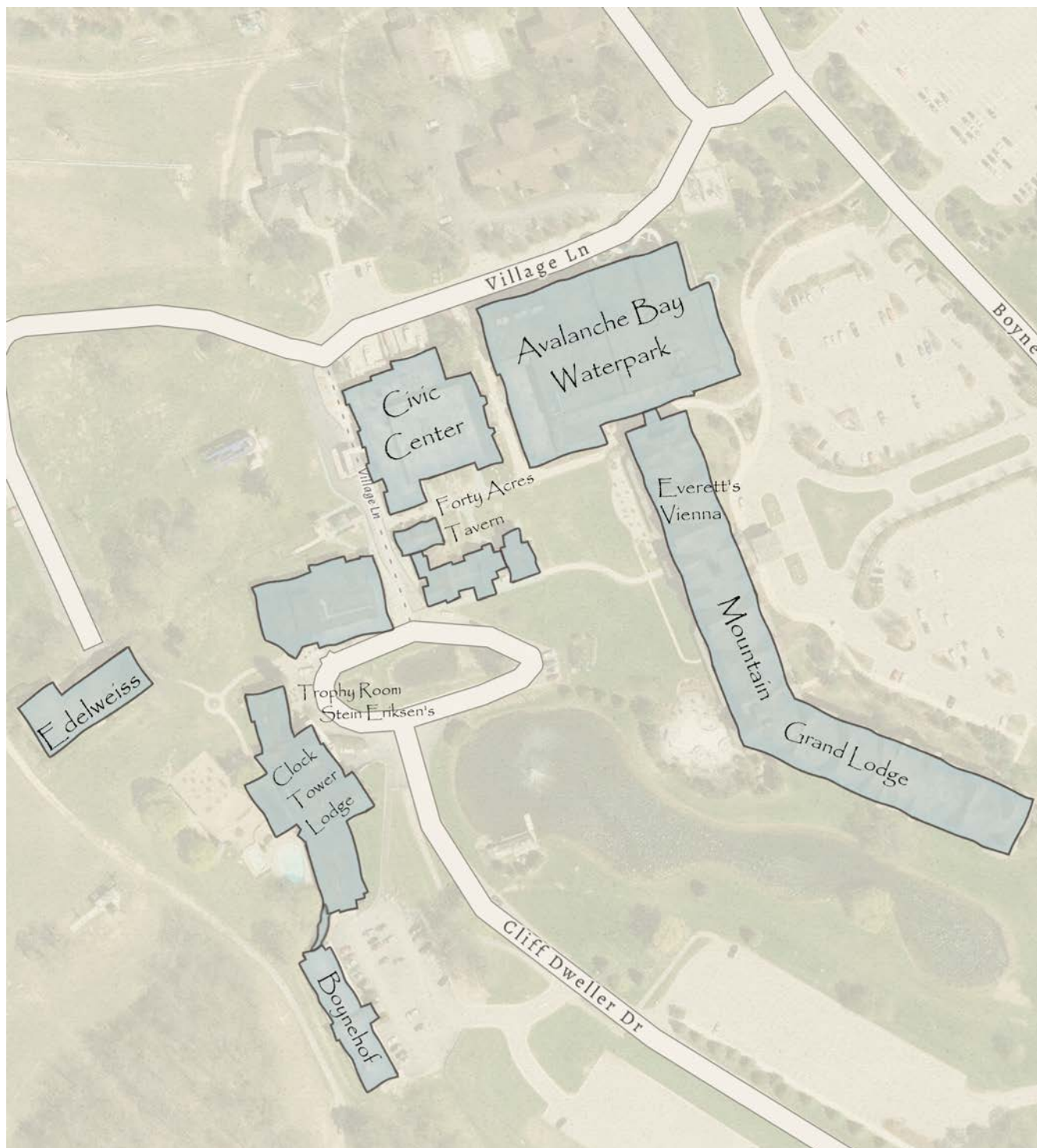
Michigan Communities Association of
MAPPING PROFESSIONALS

SEPTEMBER 22 - 24
BOYNE MOUNTAIN RESORT

BOYNE MOUNTAIN

GETTING AROUND BOYNE

Conference Registration and Sessions are all held in the Civic Center

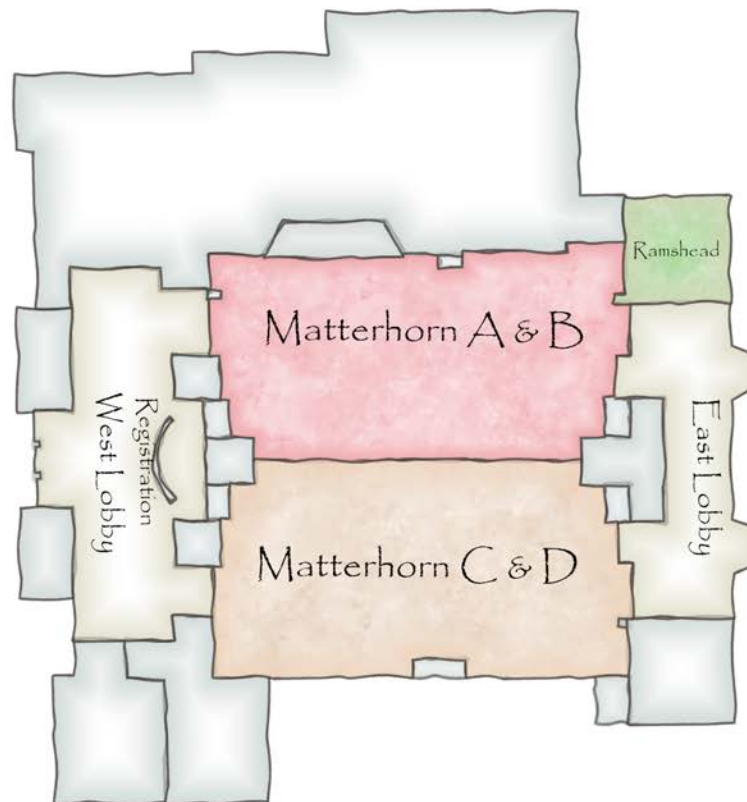


CONFERENCE CIVIC CENTER

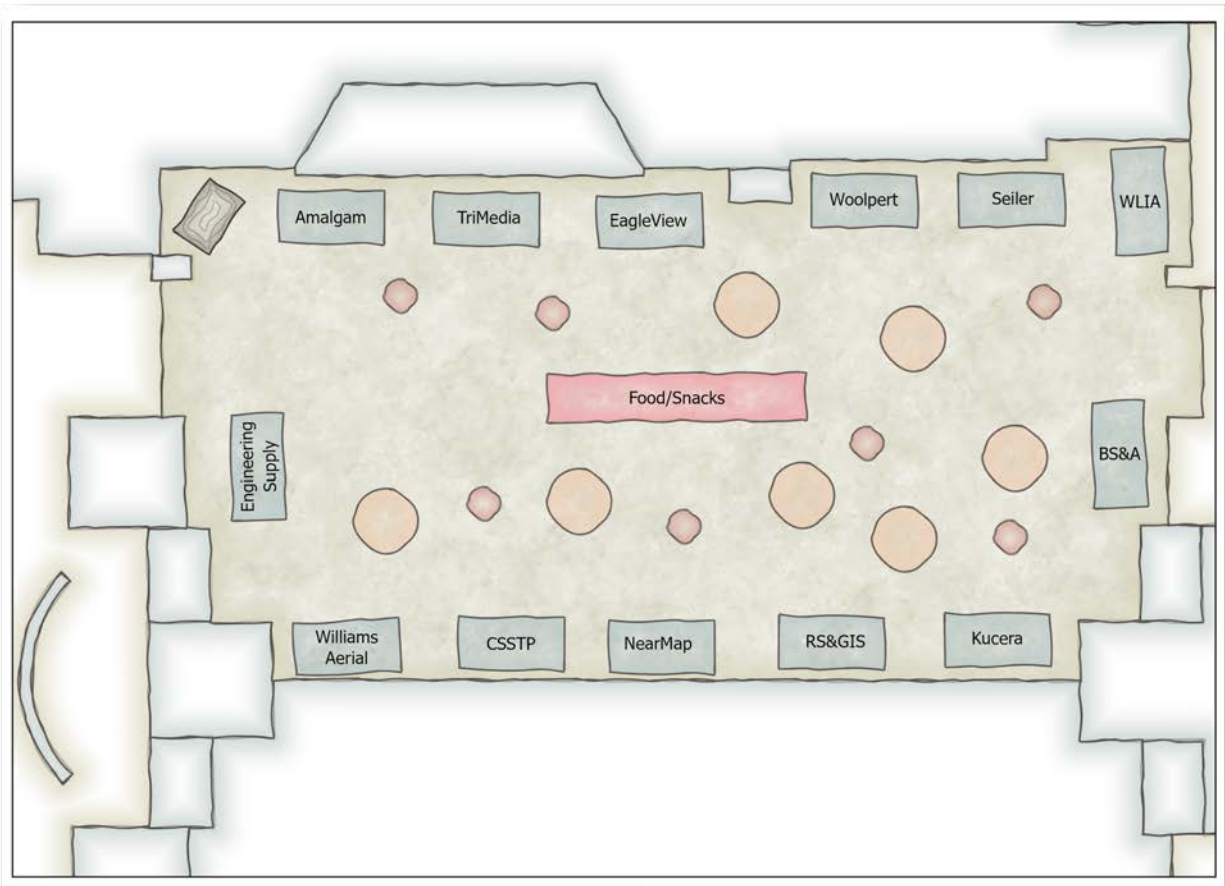
Civic Center
Lower Level



Civic Center
Upper Level



VENDOR AREA MATTERHORN A/B



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*

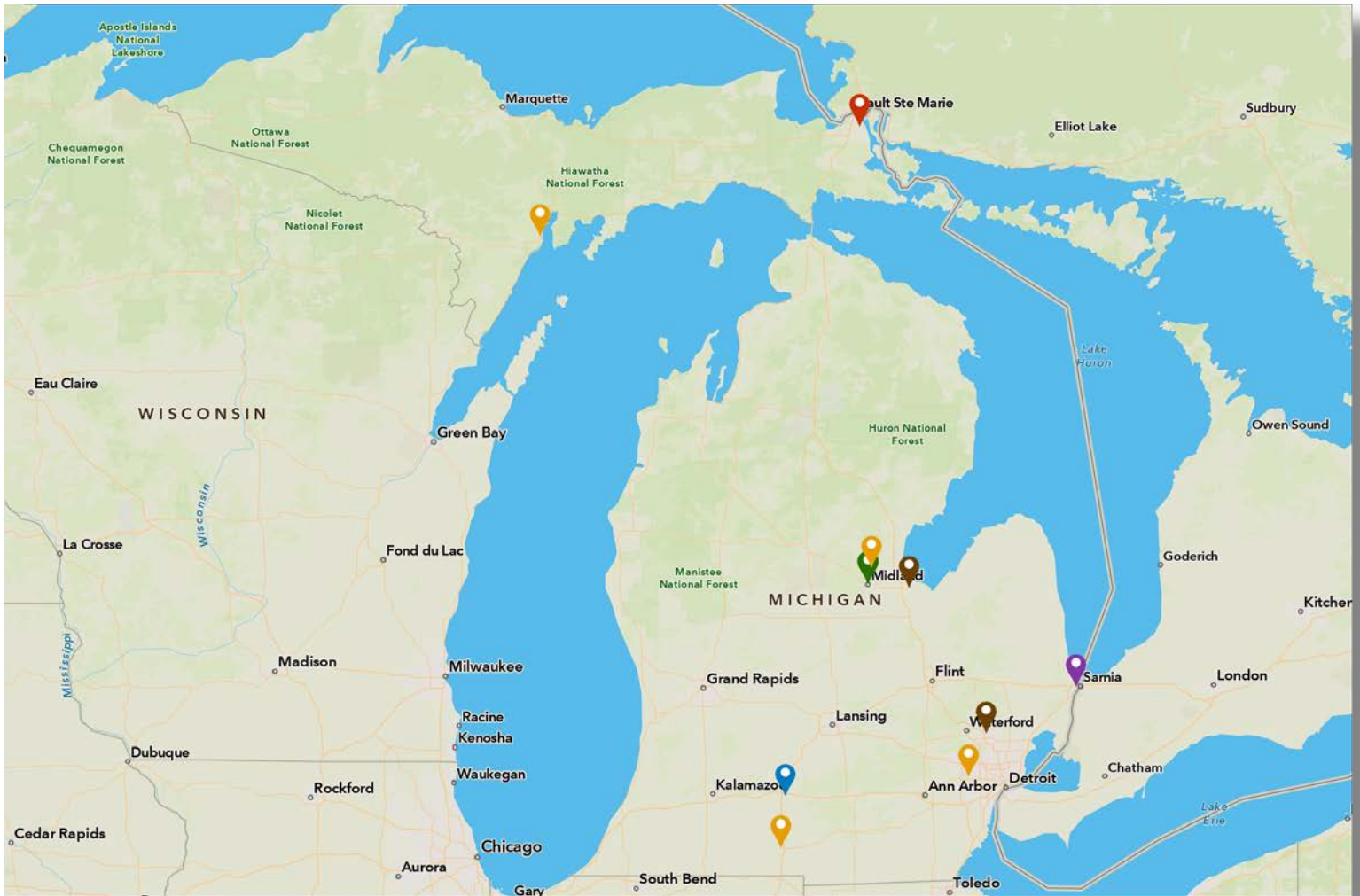
Nearmap*
North Arrow Technologies, Inc
OHM Advisors
Prein & Newhof
Sanborn
Seiler Instrument*
The Atlantic Group*
TriMedia Environmental & Engineering*
Tunnel Vision Pipeline Services
Williams Aerial & Mapping, Inc.*
Woolpert*

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

CONFERENCE SCHEDULE

WEDNESDAY, SEPTEMBER 22

1 PM - 4 PM
2 PM - 4 PM
4 PM - 6 PM
6 PM - 8 PM
7 PM - CLOSE

Registration / Check-In
Meet The Vendors
Wednesday Mixer
Dinner - Your Pick Dinner Ticket Value is \$30
Icebreaker/Bonfire

West Lobby
Matterhorn C/D
Matterhorn A/B
Trophy Room, Everett's, Forty Acres Tavern
Trophy Room/Stein Eriksen

THURSDAY, SEPTEMBER 23

8 AM - 9 AM
8 AM - 9 AM
9 AM - 9:30 AM

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

Matterhorn A/B
West Lobby
Matterhorn C/D

THURS. BREAKS

10:30 AM - 10:45 AM
2:45 PM - 3:15 PM
Matterhorn A/B

THURS. LUNCH

12 Noon - 1:30 PM
Vienna

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).



CONFERENCE SCHEDULE

THURSDAY, SEPTEMBER 23 CONTINUED

MATTERHORN C/D

1:30 PM - 2:05 PM

Airspace Link
Michael Healander

Learn how your community can safely integrate drones to fuel human progress, advance social equity, the environment, and the economy.

We will also discuss how the FAA, Michigan and communities are providing digital data (GIS) and physical infrastructure to safely integrate drones into the national airspace and our communities at scale. Learn how to participate in current and upcoming projects, grants and tests in the state.

2:10 PM - 2:45 PM

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.

ALBERG 1/3

1:30 PM - 2:05 PM

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.

2:10 PM - 2:45 PM

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.



ALBERG 2/4

1:30 PM - 2:05 PM

Building a GIS: A Manager's Perspective
Chris Cantrell, Midland County
Brent Thelen, Calhoun County

GIS managers/directors are familiar with "running" a GIS program. But what if you had to build a GIS program from the ground up? Midland and Calhoun Counties will discuss their experiences creating, and growing, County GIS programs.

2:10 PM - 2:45 PM

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.



CONFERENCE SCHEDULE

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 using your credits.

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 2/4

3:15 PM - 3:50 PM

GTTC Student Presentations
Henry Ford Academy

Hear from Henry Ford Academy students on internship projects they recently completed.

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!

ALBERG 1/3

3:15 PM - 3:50 PM

Merit Broadband
Amy Stuyvesant, GIS Analyst
Pierrette Renee Dagg, Marketing 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/story telling, 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.

THURS 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

1:30 PM - 2:05 PM

Community Imagery
NearMap

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.

3:15 PM - 4:30 PM

Underground Utility Mapping & Using USGS LiDAR
OHM Advisors

THURSDAY EVENING ACTIVITIES

4:30 PM - 6:30 PM

Vendor Reception

Matterhorn A/B

6:30 PM - 8 PM

Dinner

Vienna

8 PM - Close

Thursday Night Reception

Stein Eriksen's/Patio



CONFERENCE SCHEDULE

FRIDAY, SEPTEMBER 24

8 AM - 9 AM

9 AM - 12 Noon

Breakfast in Civic Center

State of Michigan Update

Matterhorn A/B

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



NOTES

NOTES

THANK YOU

Thank You for attending the 2021 MiCAMP GIS Conference.

Mark Your Calendars

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

