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MICHIGAN

# Winter

Operations Conference



**October 17-18, 2023**

**Shanty Creek Resort - Summit Village**

**Bellaire, MI**

**Please give us your feedback & get entered to win a free conference registration!**

Visit <https://vevox.app/#/m/177469722>

**OR** Scan the QR Code and select the conference evaluation.

**Session ID:** 177-469-722



# WELCOME



*Winter Operations Conference is a 2-day conference intended for township, city, county, and state employees in positions ranging from Operators, Superintendents, Mechanics, Managers, Foremen, Directors of Public Works, and anyone else who is involved in any step of the process of moving snow! Generally, sessions will address a range of winter-related processes, safety measures, updates, and more.*

*Michigan Winter Operations Conference is hosted by the Center for Technology & Training (CTT), home of Michigan's Local Technical Assistance Program (LTAP).*



## Center for Technology & Training

The Center for Technology & Training (CTT) is a research center housed at the Department of Civil, Environmental, and Geospatial Engineering at Michigan Technological University.

The CTT works with local road agencies, the Michigan Department of Transportation, the Federal Highway Administration, and other transportation-related organizations to build, maintain, and manage public infrastructure.



## Michigan's Local Technical Assistance Program

**Michigan's Local Technical Assistance Program**  
Michigan's Local Technical Assistance Program (LTAP) serves state, county, and municipal transportation personnel. Its mission is to bridge the gap between research and practice by conducting training sessions, providing engineering technical assistance, and serving as a clearinghouse for information related to state-of-the-art technology in the construction and maintenance of roads, bridges, and other transportation infrastructure.



Michigan's  
Local Technical  
Assistance Program



# Agenda

Day 1 - October 17, 2023

Join us in the Bellaire Room  
for a pre-conference  
networking event!  
Monday, Oct 16 at 5:00pm

07:00 AM REGISTRATION & BREAKFAST

08:00 AM WISCONSIN SALT WISE  
**Moderators:** Justin Droste, PE & Bryan Pickworth  
**Presenter:** Allison Madison

09:00 AM ELECTRIC VEHICLE FIRE SAFETY  
**Presenter:** James Lafrinere

10:00 AM BREAK

10:15 AM NOAA WEATHER UPDATE  
**Presenter:** Pat Bak

11:00 AM MOCK WEATHER EVENT - PANEL DISCUSSION  
**Moderator:** Matt Wiktorowski  
**Panel:** Rob Hudec, Kent Dubord, Jesse Ball, Adam Lape

12:00 PM LUNCH

01:00 PM SLEEP HYGIENE  
**Presenters:** Naomi Hyso & Nicole Persing-Wethington

01:30 PM KEEPING MDOT'S SOCIAL MEDIA FOLLOWERS UP TO DATE  
**Presenter:** Jesse Ball

02:00 PM WHAT'S NEW/NEW TO YOU - INTERACTIVE SESSION  
**Moderator:** Bryan Pickworth  
**Presenter:** Tom Trice

02:30 PM UPDATE: AUTONOMOUS WINTER ROAD MAINTENANCE  
DECISION-MAKING USING AI  
**Presenters:** Hossein Tavakoli, MD & Zhen (Leo) Liu, PhD, PE

03:00 PM EXHIBITOR SHOW

## Exhibitors

Cargill Road Safety  
Certified Power Solutions  
Co-Op Industries, Inc.  
Falcon Asphalt Repair Equipment  
Great Lakes Chloride, Inc.  
Hoekstra Equipment  
K-Tech Specialty Coatings, Inc.  
Kimco USA Inc.  
Knapheide Truck Equipment  
Liquid Calcium Chloride Sales, Inc.

Michigan CAT  
Michigan Chloride Sales LLC  
SoundOff Signal  
St. Regis Culvert, Inc.  
Truck & Trailer Specialties  
Truck & Trailer Specialties of Boyne Falls, Inc.  
UNIQUE Paving Materials Corp.  
Vaisala Inc.  
Versalift Midwest LLC  
Wolverine Truck Group

# Agenda

Day 2 - October 18, 2023

07:00 AM	REGISTRATION & BREAKFAST
08:00 AM	LTAP: WHO WE ARE AND WHAT WE OFFER <i>Presenter: Ingrid Sandberg, PE</i>
08:15 AM	LIQUIDS IN MICHIGAN <i>Moderator: Kevin McCarthy, PE</i> <i>Panel: Justin Droste, PE &amp; Bryan Pickworth</i>
08:45 AM	NEW DEVELOPMENTS IN TRUCK INSPECTIONS <i>Presenters: Mike Phillips &amp; Rob Hudec</i>
09:45 AM	BREAK
10:00 AM	BLIZZARD OF 1978 <i>Moderator: Duane Poole</i> <i>Presenter: Tom Trice</i>
10:30 AM	SALT SHED UPDATE <i>Presenter: Adam Lape</i>
10:45 AM	TRUCK BUILDOUT <i>Presenters: Joe Pline &amp; Colby Page</i>
11:15 AM	EQUIPMENT PANEL DISCUSSION <i>Panel: Joe Pline, Colby Page, John McKeown, Kevin McCarthy, PE, Scott Schantz</i>
12:00 PM	LUNCH & ADJOURN

## Door Prize

You could win  
a solo stove Bonfire 2.0!  
**MUST BE PRESENT TO WIN.**



## CTT Photo Contest

Submit your photo(s) at [michiganltap.org/2023photocontest](https://michiganltap.org/2023photocontest)  
for a chance to win:

**Per Category:** FREE registration for a CTT webinar

**Grand Prize:** FREE registration for a 1-day CTT conference

**Categories:** \*Summer & Winter Road Maintenance, \*Bridges  
& Culverts, \*People, \*Equipment

**Don't forget to complete the conference evaluation for a chance  
to win a free registration gift certificate for a future conference!**

Visit <https://vevox.app/#/m/177469722>

**OR** Scan the QR Code and select the  
conference evaluation.

**Session ID:** 177-469-722



# SESSION SUMMARIES

DAY 1 - OCTOBER 17

## Wisconsin Salt Wise

This presentation will cover some best practices and the efforts being made toward reducing salt pollution in Wisconsin lakes, streams and drinking water.

**Moderators:** *Bryan Pickworth, City of Farmington Hills & Justin Droste, PE Support Engineer - MDOT-TSM&O*  
**Presenter:** *Allison Madison, Program Manager - Salt Wise*

## Electric Vehicle Fire Safety

This presentation will cover the safety procedures and safety best practices revolving around electric vehicle fires. The session will also involve identifying electric vehicles involved in vehicle fires and accidents.

**James Lafrinere, Automotive Technology Instructor - Cheboygan Area Schools**

## NOAA Weather Update

This presentation will revolve around the challenges of winter weather forecasting, finding winter weather information on the National Weather Service websites, and the current winter outlook for the 2023-2024 season.

**Pat Bak, Warning Coordinator - National Weather Service**

## Mock Weather Event

A panel of city, county, and MDOT personnel will discuss how their agencies prepare for, fight, and recover from snow events. You'll learn tips and strategies to bring back to your organization to improve your process for snow fighting.

**Moderator:** *Matt Wiktorowski, Field Operations Senior Manager - City of Novi*  
**Panel:** *Rob Hudec, Maintenance Superintendent - Saginaw County Road Commission*  
*Kent Dubord, Director - City of Escanaba*  
*Jesse Ball, Social Media Coordinator - Michigan Department of Transportation*  
*Adam Lape, Director of Operations - Washtenaw County Road Commission*

## Sleep Hygiene

Sufficient sleep is essential for optimal health and wellbeing. In this session, participants will learn about the importance of sleep for physical and mental health; explore sleep hygiene; identify strategies to improve sleep; and learn about the effectiveness of the Sleep Education for Everyone Program.

**Naomi Hyso, Health Educator - MSU Extension**  
**Nicole Persing-Wethington, Health Educator - MSU Extension**

# SESSION SUMMARIES

DAY 1 - OCTOBER 17

## Keeping MDOT's Social Media Followers Up To Date

Michigan Department of Transportation (MDOT) social media coordinator Jesse Ball will discuss how MDOT leverages social media to keep the public informed about department news and information, as well as travel information, especially during the winter months. Ball will also explain how MDOT's transportation operations centers keep the Mi Drive traffic website updated 24/7, and using that information to post to Twitter.

*Jesse Ball, Social Media Coordinator - Michigan Department of Transportation*

## What's New/New to You - Interactive Session

This will be an interactive session in which attendees will have the chance to share and discuss some of their new, or newly adopted procedures, practices, and equipment.

*Moderator: Bryan Pickworth, City of Farmington Hills*

*Presenter: Tom Trice, Local Government Consultant - Bloomfield Township (retired)*

## UPDATE: Autonomous Winter Road Maintenance Decision-Making Using AI

During this session, Tavakoli and Dr. Liu will introduce the best practices and processes involved in making winter road maintenance decisions using data and artificial intelligence (AI). The use of a free app, SmartMDSS.org, and its possible customization for better serving your snow and ice control work in Michigan will also be discussed.

*Zhen (Leo) Liu, PhD, PE, Adjunct Associate Professor - Michigan Technological University*  
*Hossein Tavakoli, MD, Researcher - University of Virginia*

# SESSION SUMMARIES

DAY 2 - OCTOBER 18

## LTAP: Who We Are and What We Offer

Ingrid will give a brief overview of what the Local Technical Assistance Program (LTAP) is, and the resources and offerings it provides.

*Ingrid Sandberg, PE, Research Engineer - Center for Technology & Training*

## Liquids in Michigan

A discussion about how Michigan snowfighters are using deicers, anti-icing, and pre-wetting techniques; calibration; equipment; and training.

*Panel: Justin Droste, PE, Support Engineer - MDOT-Transportation Systems Management & Operations  
Bryan Pickworth - City of Farmington Hills - MI-DPW*

## New Developments In Truck Inspections

Are you wondering what “reasonably safe” means? Or what makes a driver a “competent inspector”? Mike Phillips (MCRCSIP) and Rob Hudec (Saginaw County) will help answer these questions and more in a newly developed presentation about pre-trip and post-trip truck inspections. You’ll learn where to find additional resources and why truck inspections benefit you as a driver as well as the motoring public.

*Mike Phillips, Senior Loss Control Rep. - Michigan County Road Commission Self-Insurance Pool  
Rob Hudec, Maintenance Superintendent - Saginaw County Road Commission*

## Blizzard of 1978

Tom will use the Blizzard of 1978 as an example of some of the potential major weather events that could take place during any Michigan winter, so attendees can think about and discuss some of the things they would do if a devastating weather event were to occur.

*Moderator: Duane Poole, Road Foreman - Bloomfield Township  
Presenter: Tom Trice, Local Government Consultant - Bloomfield Township (retired)*

## Salt Shed Update

Adam Lape will give an update on the progress of the Washtenaw County Road Commission’s salt shed project and offer some lessons from the process.

*Adam Lape, Director of Operations - Washtenaw County Road Commission*

# SESSION SUMMARIES

DAY 2 - OCTOBER 18

## Truck Buildout

Joe Pline and Colby Page will discuss the development, maintenance, and repairs involving the statewide Winter Maintenance Truck (WMT) Buildup. They will discuss the process to build WMT's, the challenges with mechanic retention, variation with International/WesternStar, all the components that need to be procured for the build, variation with different truck builds (wings, spreaders, dumps, DVT's, hook loaders, tow-plows etc.,).

***Joe Pline, Heavy Equipment Mechanic Supervisor - MDOT***

***Colby Page - Fleet Manager - MDOT***

## Equipment Panel Discussion

This session will involve a discussion with the panelists about everything from maintenance to recordkeeping.

***Joe Pline, Heavy Equipment Mechanic Supervisor - MDOT***

***Colby Page - MDOT***

***John McKeown, Fleet & Facilities Technician - WB Parks***

***Kevin McCarthy, PE, Superintendent (Retired) of the Division of Public Works - City of Farmington Hills***

***Scott Schantz, Equipment Superintendent - Barry County Road Commission***



# ABOUT THE PRESENTERS

## Pat Bak

### National Weather Service

Pat Bak is a warning coordination meteorologist for the National Weather Service (NWS) – Gaylord. Bak leads office outreach programs and works extensively with external partners. Bak is also responsible for assessing and improving office products and services. Bak has been a NWS employee since 1993, beginning as a meteorologist intern in Sault Ste. Marie and then progressing to general meteorologist in Gaylord and senior meteorologist in Lincoln, Illinois. Bak holds a Bachelor of Science in Meteorology from Northern Illinois University.

## Jesse Ball

### Michigan Department of Transportation

Jesse Ball joined the Michigan Department of Transportation (MDOT) in 2008 with the first task of launching the department's social media presence. Since then, Ball has been recognized for handling MDOT's Facebook, Twitter, Instagram, YouTube, and Threads accounts, dealing with the positives and negatives of social media interactions and always making sure followers' questions and concerns are addressed as quickly as possible.

## Justin Droste, PE

### Michigan Department of Transportation

Justin Droste has worked at the Michigan Department of Transportation (MDOT) since 2005, and with Transportation Systems Management and Operations (TSMO) Maintenance Operations since 2012. As TSMO Region Support Engineer, Droste leads a team that provides statewide support for roadway maintenance systems and best practices. Droste has earned a Bachelor of Science in Civil Engineering from Michigan State University.

## Kent Dubord

### City of Escanaba

Kent Dubord has been employed with the City of Escanaba since 2021. Recently, Dubord was promoted to director. Dubord oversees mechanics, street work, construction projects, concrete work, trees, snow plowing, parks, painting, garbage, and storm sewers. Previously, Dubord spent seven years managing properties in Traverse City. Dubord was also a laborer for one year, and an assistant city director for one year. Dubord has earned a Bachelor of Business Administration degree from Lake Superior State University and belongs to the Landfill Committee Board.

# ABOUT THE PRESENTERS

## **Rob Hudec**

### **Saginaw County Road Commission**

Rob Hudec has been with the Saginaw County Road Commission since 1999, and has been the maintenance superintendent since 2003. Prior to coming to the road commission, Hudec worked for MDOT's Bay Region including performing bridge tender duties for bridges over the Saginaw River. Hudec earned an associate's degree from Delta College and attended Ferris State University-Flint for business management. Hudec is a board member and past president of the Association of County Road Superintendents of Michigan, member of Saginaw Counties Emergency Operations Center, a board member of the Saginaw County Storm Water Authority, and a member of Saginaw County Road Commission's safety committee.

## **Naomi Hyso**

### **Michigan State University Extension**

Naomi Hyso has been a health educator at Michigan State University (MSU) Extension since 2018. In this role, Hyso delivers a variety of evidence-based chronic disease-related programs ranging from SLEEP to Tai Chi for Michigan residents, and more. Previously, Hyso was a community nutrition instructor at MSU Extension. Hyso has been a certified instructor in Tai Chi for Health since 2020, and has been certified in Adult Mental Health First Aid since 2018. Hyso also serves as chair of the Healthy Lifestyles Committee in Oceana County, which involves outreach events and putting on diabetes workshops in Spanish.

## **Hossein Tavakoli, MD**

### **University of Virginia**

Mr. Hossein Tavakoli has been a PhD graduate researcher at the University of Virginia since August 2023. Previously, Hossein worked as a researcher at Michigan Technological University for over two years.

## **Adam Lape**

### **Washtenaw County Road Commission**

Adam Lape has been the director of operations at the Washtenaw County Road Commission since June of 2022. As the director, Lape, oversees all operational aspects of the road commission including road and highway maintenance, buildings and grounds maintenance, and equipment maintenance. Prior to his current role, Lape worked for the Ohio Department of Transportation starting as a summer intern in 2005 and working his way up to manager before coming to Washtenaw County as a superintendent of maintenance in 2014. Lape is the past president for the Board of Directors Association of County Road Superintendents of Michigan, an active APWA member, and serves on the Homeland Security Task Force for Washtenaw County. Lape has a bachelor's of science in health care management from the University of Phoenix.

# ABOUT THE PRESENTERS

## **James Lafrinere**

### **Cheboygan Area Schools**

James Lafrinere has been the Automotive Technology Instructor at Cheboygan Area Schools since 2008. Lafrinere is a certified ASE Technician and an SOM Certified Teacher. Lafrinere is also certified in GM High Voltage Systems and is a Certified Firefighter and Fire Instructor. Lafrinere is involved in the ASE Educational Foundation and the Michigan Industrial and Technology Education Society. Lafrinere is a Captain of the Inverness Fire Department.

## **Zhen (Leo) Liu, PhD, PE**

### **Michigan Technological University**

Dr. Liu is an adjunct associate professor of Civil, Environmental, and Geospatial Engineering (CEGE) at Michigan Technological University (MTU). Dr. Liu recently joined the Department of Civil and Environmental Engineering at the University of Virginia. Dr. Liu is a registered professional engineer in Michigan and holds a PhD in Civil Engineering from Case Western Reserve University.

## **Allison Madison**

### **Wisconsin Salt Wise**

Allison Madison became the program manager and first-ever staff person at Wisconsin Salt Wise in June 2020. In this roll, Allison has spearheaded statewide collaboration around salt reduction. Allison has over 10 years of experience in science and sustainability education in both formal and informal settings, from the Appalachian Mountains to Olympic National Park, in classrooms in inner-city Milwaukee, and the ponderosa pine forests of Colorado's Front Range. Allison graduated from St. Olaf College and holds a joint Master of Science degree in Environment and Resources and Soil Science from the University of Wisconsin. Allison is passionate about protecting Wisconsin's freshwater resources.

# ABOUT THE PRESENTERS

## **Kevin McCarthy, PE**

### **City of Farmington Hills**

Kevin McCarthy is the retired superintendent of the Division of Public Works (DPW) for the City of Farmington Hills. McCarthy was with the City for over 36 years. McCarthy's responsibilities included managing 35 employees who conducted roadway maintenance, storm-water system maintenance, and right-of-way maintenance, as well as repairs for more than 300 centerline miles of public streets and for waste collection systems serving approximately 80,000 residents. McCarthy oversaw city-wide fleet acquisition, as well as management and maintenance of over 350 vehicles and heavy equipment. McCarthy was previously the city traffic engineer and senior engineer. McCarthy is a member of the American Public Works Association, the Southeastern Oakland County Public Works Association, and the Michigan section of the Institute of Transportation Engineers. McCarthy holds a Bachelor of Science in civil engineering from Michigan State University and is a 2014 graduate of the Michigan Public Service Institute. McCarthy is a licensed professional engineer in the state of Michigan.

## **John McKeown**

### **West Bloomfield Parks**

John McKeown is the fleet & facilities technician at WB Parks, where he has worked since 2007. John has a strong passion for repairing and building things. John's job includes: maintaining the parks, recreation and transportation's fleet of vehicles and equipment; repairing and upgrading the parks' facilities, including the HVAC, plumbing, electrical, construction and building automation; and welding and fabricating metals. John's innovative ideas, designs and problem-solving abilities have saved the department money, improved processes, and have been recognized by the Michigan Recreation and Park Association through several prestigious awards. John is a highly experienced and skilled automotive, truck, trailer, and equipment repair and maintenance technician with 39 years of experience. John is proficient in welding, fabricating, automotive bodywork, and painting. John is also an ASE Master Automobile and Medium/Heavy Truck Technician. John is an asset to WB Parks and to the community. John is a skilled and experienced technician with a passion for his work.

## **Colby Page**

### **Michigan Department of Transportation**

Colby Page works for the Michigan Department of Transportation as a Transportation Systems Management & Operations Fleet Manager.

# ABOUT THE PRESENTERS

## **Nicole Persing-Wethington**

### **Michigan State University Extension**

Nicole Persing-Wethington is a health educator for Michigan State University Extension's Health and Nutrition Institute. Nicole delivers research and evidence-based curricula relating to disease prevention and management, and social-emotional health. Educational programs include mindfulness, stress management, caregiving, chronic disease, chronic pain, sleep, adverse childhood experiences, and many more. Nicole has worked with audiences across the lifespan and focuses on improving lives through education and empowerment.

## **Bryan Pickworth**

### **City of Farmington Hills - MI-DPW**

Bryan spent over 32 years as a full-time employee of the City of Farmington Hills, Michigan working up from a laborer to supervisor. Bryan is a graduate of Michigan Public Service Institute. In 2011, the City of Farmington Hills, Michigan received the APWA's National Snow and Ice Control Award. Since then, Bryan has served on the APWA's National Snow and Ice subcommittee. Bryan continues to serve on various APWA certificate programs as an instructor and assist review committees. After 18 years as a supervisor and coordinating various right of way maintenance and safety trainings to educate team members, Bryan will continue his position as a part-time safety and technical projects team member.

## **Mike Phillips**

### **Michigan County Road Commission Self-Insurance Pool**

Mike Phillips is the senior loss control representative for the Michigan County Road Commission Self-Insurance Pool. Phillips holds a bachelor's degree in Occupational Safety and Health from Grand Valley State University and has been working in the Insurance and Construction Industry for over 25 years.

## **Joe Pline**

### **Michigan Department of Transportation**

Joe Pline has been a heavy equipment mechanic supervisor at the Michigan Department of Transportation (MDOT) since 2019. In this role, Pline supervises the maintenance garage where maintenance and repairs are made to Lansing-based statewide crews' vehicles and equipment, and to the statewide Winter Maintenance Truck (WMT) Buildup. Pline also leads the statewide mechanic training committee. Pline joined MDOT in 2004 as a heavy equipment mechanic, working mainly on the WMT Buildup. Prior to joining MDOT, Pline worked as a mechanic and a salesman at an agricultural equipment dealer. Pline holds an associate's of business degree from NBC Tech in Lima, Ohio where he majored in Auto-Diesel Technology.

# ABOUT THE PRESENTERS

## Duane Poole

### Bloomfield Township

Duane Poole is a road foreman for Bloomfield Township. Poole began working for Bloomfield Township in 1999 as an equipment operator and was promoted to road division foreman in 2009. Poole is responsible for overseeing the daily operations of the road division, which include general paved and gravel road maintenance, patch paving, forestry operations, beautification projects, and snow and ice control. Poole was the president of the State Chapter - Michigan American Public Works Association in 2021-2022. Poole has a Bachelor of Arts degree from Michigan State University and a Michigan Public Service Institute certificate from Central Michigan University.

## Ingrid Sandberg, PE

### Center for Technology & Training

Ingrid Sandberg has been a research engineer for The Center for Technology & Training since 2021. Previously, Sandberg worked at Shannon & Wilson, Inc. for over nine years as a geotechnical engineer. Sandberg assisted in the practical design and construction recommendations, and trained geotechnical staff, geologists, and technicians in construction observation and soil sampling activities. Sandberg also worked as an assistant to the Michigan Tech campus construction engineer for 4 years. Sandberg holds bachelor's and master's degrees in Civil Engineering from Michigan Technological University.

## Scott Schantz

### Barry County Road Commission

Scott Schantz is the equipment superintendent at Barry County Road Commission (BCRC). In this role, Schantz is responsible for all equipment and facility repairs and maintenance. This includes asset disposal, and equipment, parts and supplies purchasing. Previously, Schantz was BCRC's lead mechanic from December 2012 until May 2023. Prior to joining BCRC, Schantz worked as a field tech for AIS Construction Equipment. Schantz also served for 14 years in the United States Marine Corps and for 10 years in the MI Air National Guard.

## Tom Trice

### Bloomfield Township (retired)

Tom Trice is currently a local government consultant. Previously, Trice was the director of the Public Works Department for Bloomfield Township. Trice has served in local government since 1968 in positions such as: the maintenance supervisor of the City of Farmington Hills, superintendent director of public services, and city manager for the city of Royal Oak. Trice has also served as the president of the American Public Works Association (APWA).

# ABOUT THE PRESENTERS

## **Matt Wiktorowski**

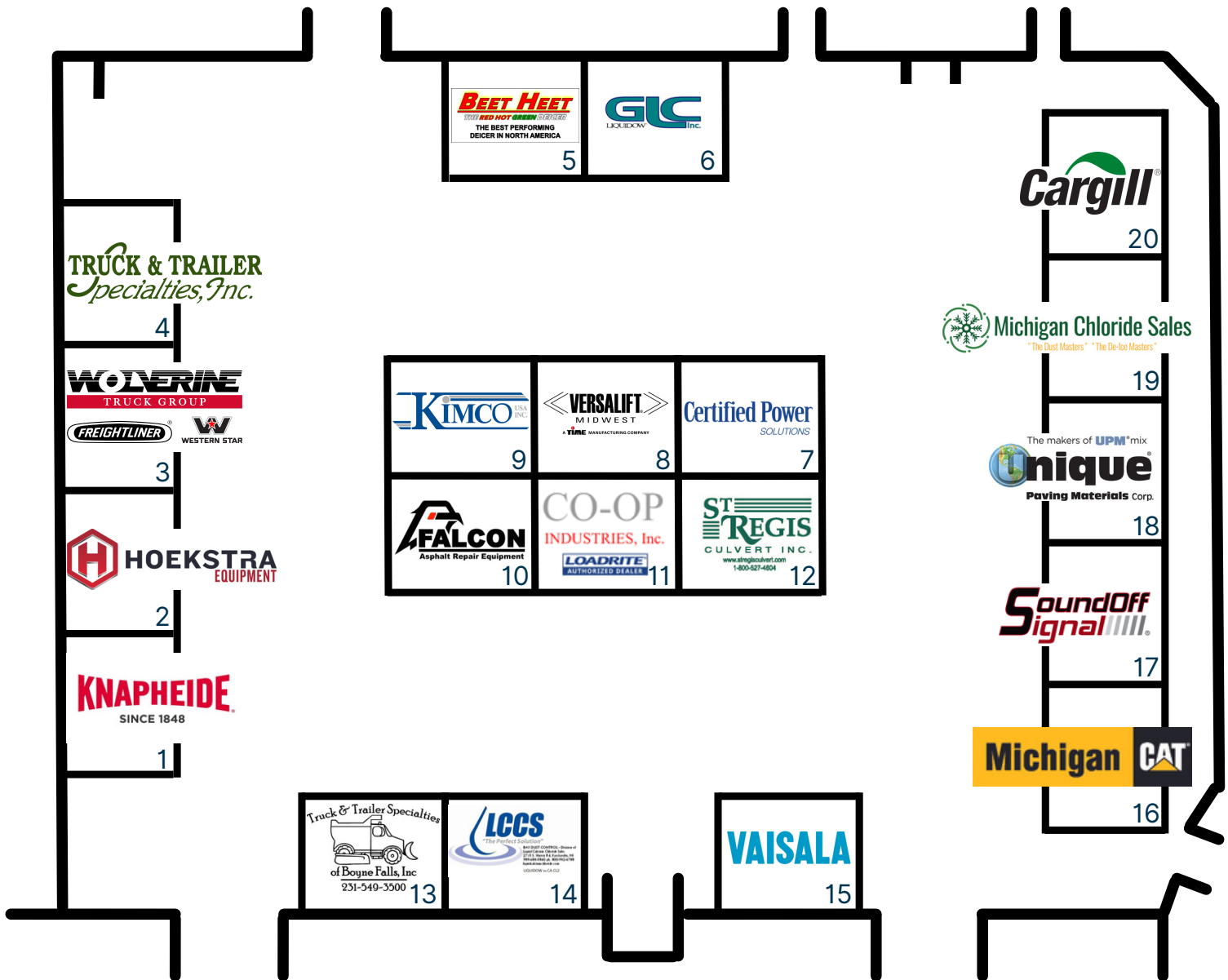
### **City of Novi**

Matt Wiktorowski is the field operations senior manager for the City of Novi. Matt is responsible for the progressive oversight of all roadway, storm drain, forestry, and refuse/recycling operations. Matt also oversees the City's team-driven snow-and-ice removal service, which has been recognized for excellence nationally since 2013. Wiktorowski's focus has been developing and enhancing a team-based environment in order to find solutions for existing concerns and to identify future opportunities for cultural change, technological advancement, and internal leadership development. Matt is affiliated with the American Public Works Association (APWA), the International City/County Management Association (ICMA), and the National Recreation and Park Association (NRPA). Wiktorowski holds a bachelor of science degree from Grand Valley State University and has completed the Leading, Educating, and Developing Program with the University of Virginia Darden School of Business and the Michigan Public Service Institute with Central Michigan University.

# EXHIBITOR SHOW

DAY 1 - OCTOBER 17

3:00 PM - 6:00 PM



Attendees who registered for the conference on-time will have a chance to win a door prize!



# 2024 Great Ideas Challenge

## Do you have a great idea?

The Great Ideas Challenge rewards the great work that gets done at local road-owning agencies in Michigan. What makes a great idea? We're looking for innovative ideas that improve safety and efficiency, are cost effective, and can easily be adopted by other agencies. Submit your great idea today!



Visit [www.michiganltap.org/great-ideas](http://www.michiganltap.org/great-ideas) to Learn about prizes & submit your great idea today!



- Engraved plaque
- Free registration for two people to a CTT conference  
(County Engineers' Workshop, Bridge Week, Highway Maintenance, or Winter Operations)
- Entry in the 2023 National LTAP's "Build a Better Mousetrap" competition



- Framed certificate
- Free registration for one person to a CTT conference  
(County Engineers' Workshop, Bridge Week, Highway Maintenance, or Winter Operations)

**Questions & submissions  
can be emailed to:  
[ctt@mtu.edu](mailto:ctt@mtu.edu)**

# UPCOMING EVENTS

BY THE



Date(s)	Event	Delivery Method	Registration Deadline
10/24/2023	Local Concrete Seminar	In-Person (Livonia)	10/17/2023
10/24/2023	Advanced Topics in Bridge Load Rating: Part 2	Webinar	10/23/2023
10/25/2023	Roadsoft Special Topics: Sign Module	Webinar	10/24/2023
10/26/2023	Local Concrete Seminar	In-Person (Okemos) & Virtual	10/17/2023
11/01/2023	Chlorine Disinfection and CT Calculations for Small Water Systems	Webinar	10/31/2023
11/02/2023	Materials Acceptance Process Virtual Seminar	Webinar	10/23/2023
11/03/2023	Introduction to Welding Defects & Discontinuities	Webinar	11/02/2023
11/07/2023 OR 11/09/2023	Introduction to MERL	Webinar	11/06/2023 OR 11/08/2023
11/28/2023	Wellhead Protection for Small Water Systems	Webinar	11/27/2023
11/29/2023 To 11/30/2023	Intro to Roadsoft: Just the Basics 2-Day Webinar	Webinar	11/26/2023



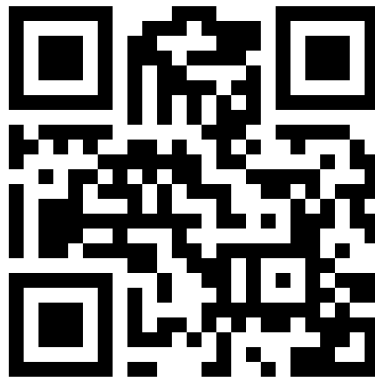
# Thank you for attending!



## In-person reminder:

Sign in at the registration table every day to receive credit for your continuing education hours.

Scan the QR code to ask the presenter(s) a question & to fill out the conference evaluation:



Or visit: <https://vevox.app/#/m/177469722>

Session ID: 177-469-722

*\*Evaluation takes about 5 minutes.\**

