



Michigan  
Transportation Asset  
Management Council

Presentation

## 2020 TAMC Conference – Fall “Adapt & Overcome”

Wednesday, October 28 – Thursday, October 29, 2020

### Day 1

- 9:00 Welcome, Opening Comments, & TAMC Update  
Bob Slattery, Jr., *Department of Public Works – City of Burton, Michigan*  
Tim Colling, PhD, PE, *Center for Technology & Training*  
Joanna Johnson, *Road Commission of Kalamazoo County*
- 1 9:15 Adapting to a Digital Environment: Updating Michigan's GIS Assets  
Patrick Allen, PE, *Michigan Department of Transportation*  
Kyle Nelson, *Michigan Department of Transportation*  
Mark Holmes, *Michigan Department of Technology, Management and Budget – Center for Shared Solutions*  
Michael Reynolds, *Michigan Department of Transportation*
- 2 10:00 Paving to Win: Methods for Overcoming Pavement Problems  
Christopher Bolt, PE, *Jackson County Department of Transportation*  
Karl Hanson, PE, *Wexford County Road Commission*
- 10:50 Break
- 3 11:00 Asset Management Plans: Planning to Overcome Challenges  
Alex Elsenheimer, PE, *Marquette County Road Commission*  
Travis Mabry, PE, *City of Walker*  
Alex Patsy, PE, *Genesee County Road Commission*

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TAMC CONFERENCE HOSTED BY THE CENTER FOR TECHNOLOGY & TRAINING  
AT MICHIGAN TECHNOLOGICAL UNIVERSITY

## Agenda, continued

12:00 Virtual Networking Lunch with TAMC Members & Support Team

Dave Jennett, *Michigan Department of Transportation*

Roger Belknap, *Michigan Department of Transportation*

12:30 Adjourn

Share your feedback for day 1 at  
<https://www.surveymonkey.com/r/39P33Z5>

### Thursday, October 29

4 9:00 Overcoming Nature's Wrath: Tittabawassee River Flooding of 2020

Jonathan Myers, PE, *Midland County Road Commission*

Dave Pettersch, *Gladwin County Road Commission*

Kimberly Zimmer, PE, *Michigan Department of Transportation Bay Region*

5 9:45 Climate Resilience & Flooding Mitigation in Southeast Michigan

Rachael Barlock, *Southeast Michigan Council of Governments*

Steven Minton, PE, *Michigan Department of Transportation Metro Region*

10:35 Break

6 10:45 From a Concerned Citizen: Strategies for Communicating Michigan's Bridge Needs

Kristi Tanner, PhD, *Detroit Free Press*

Jeff Cranson, *Michigan Department of Transportation*

7 11:15 International Perspectives & Looking Forward: What's Next for the U.S.?

Gareth McKay, *US Advisory Services, WSP Detroit*

John Patrick O'Har, PhD, PMP, *KPMG, LLP*

12:00 Virtual Networking Lunch and Extreme Transportation Makeover Challenge Photo Results

12:30 Adjourn

Share your feedback for day 2 at  
<https://www.surveymonkey.com/r/F6CXR7P>

**YOUR FEEDBACK IS IMPORTANT!** (<https://www.surveymonkey.com/r/F6CXR7P>)



## Presenter Bios

### **Patrick Allen, PE, *Act 51 Engineer***

Michigan Department of Transportation

Patrick Allen, PE, is a transportation engineer for the Michigan Department of Transportation (MDOT). He has been with MDOT for 20 years and has been involved with Act 51 mileage certification in some capacity during his entire tenure. Prior to joining MDOT, he worked for the California Department of Transportation for nine years. Allen earned a bachelor's degree in civil engineering from Michigan State University and a master's degree in civil engineering from North Carolina State University.



(517) 335-2900 | [AllenP@michigan.gov](mailto:AllenP@michigan.gov)

### **Rachael Barlock, *Water Resources Engineer***

Southeast Michigan Council of Governments

Rachael Barlock is a water resources engineer for the Southeast Michigan Council of Governments. She has seven years of experience working in the water and wastewater industry. Currently, she is currently working on an underground water infrastructure regional asset database and capital improvement coordination tool as well as climate resiliency and flooding risk analysis for the transportation network in Southeast Michigan. Barlock received her Bachelors of Science in Environmental Engineering and Master of Science in Water Resources Engineering from Michigan Technological University.



(313) 319-1062 | [barlock@semcog.org](mailto:barlock@semcog.org)

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**Roger Belknap**, *Michigan Transportation Asset Management Council Coordinator*

Michigan Department of Transportation

Roger Belknap is the coordinator of the Michigan Transportation Asset Management Council (TAMC), a role he has served since January 2016. Belknap brings a strong planning and infrastructure management background to this role that he gained while working as the Public Works director for both the City of Cedar Springs and the Village of Spring Lake. Prior to serving as TAMC coordinator, Belknap worked for the Kent County Road Commission for 11 years as a transportation planner and was heavily involved with the Pavement Surface Evaluation and Rating (PASER) data collection for the TAMC and other local transportation planning initiatives. Belknap earned both a bachelor's and master's degrees in Public Administration from Grand Valley State University.



**Christopher Bolt, PE**, *Managing Director*

Jackson County Department of Transportation

Christopher Bolt, PE, is the managing director of the Jackson County Department of Transportation (DOT). He has served in this role since 2014. He has over 25 years of experience as a civil engineer and public administrator, with a focus on building and leading high-performance organizations through dedicated service as an innovator, strategist, and servant leader. Bolt holds a civil engineering degree from the University of Iowa and a Master of Public Administration from Western Michigan University. He has also completed coursework towards a doctoral degree. He is a licensed professional engineer in Michigan and Wisconsin.



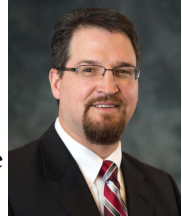
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### **Tim Colling, PhD, PE, *Director***

Center for Technology & Training

Tim Colling, PhD, PE, is the director of the Center for Technology & Training (CTT), which houses the Michigan Local Technical Assistance Program, and the Great Lakes Environmental Infrastructure Center at Michigan Technological University. He has been with the CTT



since 2002 and assumed directorship in 2010; he assumed directorship of the Environmental Protection Agency's Region 5 environmental finance center—the Great Lakes Environmental Infrastructure Center—in 2016. His expertise and focus is in asset management and asset management systems. Prior to joining the CTT, Colling was a civil engineering consultant for 10 years. Currently, Colling is primarily involved in outreach and technical support to transportation agencies in the state of Michigan. He also performs research activities in pavement management and traffic safety engineering. In 2016, Colling was a recipient of the Michigan Transportation Asset Management Council's Carmine Palombo Individual Award for his leadership in asset management in Michigan and throughout the United States. Colling earned a bachelor's degree in environmental engineering and both master's and doctorate degrees in civil engineering from Michigan Technological University. He is a licensed professional engineer in both Michigan and Wisconsin.

(906) 487-2102 | [ctt@mtu.edu](mailto:ctt@mtu.edu)

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**Jeff Cranson**, *Director of Communications*  
Michigan Department of Transportation

Jeff Cranson is the director of communications for the Michigan Department of Transportation (MDOT). In this role, he is responsible for all MDOT internal and external communications, media relations, and communication strategies. He supervises a staff of media relations representatives in MDOT regions as well as mapping, photo, video, and graphics units. Before joining MDOT, Cranson was a columnist and editor at Grand Rapids Press, coordinating political, government, health, environmental, and transportation coverage. Under his direction, the MDOT Office of Communications created an award-winning campaign to educate the public about the perils of under-investment in infrastructure. He has also put emphasis on growing the department's social media presence and explaining multi-modal needs, including the growth in Michigan's intercity passenger rail program, a long-awaited Regional Transit Authority in Southeast Michigan, and MDOT's role in the development of connected and automated vehicles and the Michigan Mobility Challenge.

cransonj@michigan.gov



**Alex Elsenheimer, PE**, *Civil Engineer*  
Marquette County Road Commission

Alex Elsenheimer is a civil engineer for the Marquette County Road Commission (CRC). His responsibilities include completing grant applications, assisting with developing, coordinating and reviewing public work project documents, technical construction inspection and testing, and in-service bridge



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inspection. Elsenheimer has worked for the Marquette CRC for three years and previously worked for AECOM for four years in Phoenix, Arizona, and Madison, Wisconsin, as a traffic engineer. He is an active member of ASCE. Elsenheimer has a Bachelor of Science in Civil Engineering at Michigan Technological University and is a licensed professional engineer in the state of Michigan.  
aelsenheimer@marqroad.org

**Karl Hanson, PE, *County Highway Engineer***  
Wexford County Road Commission

Karl Hanson, PE, is the county highway engineer of Wexford County Road Commission. He is a very active member of the County Road Association of Michigan's Engineering Committee, serving on the Joint Apprenticeship and Training Committee and Soil Erosion Engineering Subcommittee, heading the Bituminous Engineering Subcommittee, and heading the Federal Aid Eligible Preventative Maintenance Engineering Subcommittee.



**Mark Holmes, *Geospatial Services Manager***

Michigan Department of Technology, Management and Budget – Center for Shared Solutions

Mark Holmes, GISP, is the geospatial services manager for the Michigan Department of Technology, Management, and Budget (DTMB). Holmes' responsibilities include managing the enterprise GIS services that are provided for state agencies and maintaining



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their GIS data and solutions for their operations. Through partnerships with federal, regional and local government, he is also involved in fostering collaboration for the sharing of authoritative data needed for daily business and analysis. Holmes has 25 years of GIS experience in both public and private sectors. His experience includes GIS planning and consulting for information technology, public safety, transportation, environment, and broadband for state and local governments. Holmes graduated from the geography program at the University of Western Ontario and obtained a GIS Application Development Specialist certification from Sir Sandford Fleming College.

holmesm3@michigan.gov

### **Dave Jennett, *Transportation Planner***

Michigan Department of Transportation

Dave Jennett is a transportation planner for the Michigan Department of Transportation. He is part of the Asset Management and Policy Division support staff that serves the Michigan Transportation Asset Management Council (TAMC). He is responsible for the council's website and dashboard programs, annual report, and assists with compliance reviews of PA 51 Investment Reporting requirements. Jennett has substantial background with the TAMC and the Investment Reporting Tool (IRT) that includes program coordination, training, data analysis and collection, help desk oversight, and delivering multiple presentations including a one-on-one presentation with Governor Snyder and a presentation for the 21st Century Commission. Prior to joining MDOT in 2017, Jennett worked with the State of Michigan Center for Shared Solutions for almost 13 years as a project manager and business analyst coordinating all the related activities of the Central Data



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## Presenter Biographies, *continued*

Agency. He played key roles in the collaboration with all the partnering agencies and different aspects of the program including the Road and Bridge Conditions Interactive Map and development of TAMC's IRT since its inception in 2005. Jennett also managed and lead quality assurance efforts on numerous other projects for multiple state agencies including the Department of Environmental Quality (DEQ); Department of Natural Resources (DNR); Department of Technology, Management and Budget (DTMB); and Michigan Department of Transportation (MDOT). Jennett received a Bachelor of Science in Environmental Engineering from Michigan Technological University in 1994, and also has completed graduate work at Eastern Michigan University and Michigan State University.

jennettd@michigan.gov

### **Joanna Johnson, *Managing Director***

Road Commission of Kalamazoo County

Joanna Johnson is the managing director of the Road Commission of Kalamazoo County (RCKC). As managing director, she oversees the operations of the road commission, which maintains over 1,267 miles of county roads, bridges, and infrastructure. She was appointed to the Transportation Asset Management Council (TAMC) in October 2013 and is currently serving as the TAMC's chair. Johnson is the current president of the County Road Association of Michigan and the current chair of the Southwestern Council of Road Commissions. She is a member of the Western Michigan University Civil and Construction Engineering Advisory Board and the



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## Presenter Biographies, *continued*

Western Michigan University College of Engineering and  
Applied Sciences Industry Advisory Board.

[jjohnson@kalamazoocountyroads.com](mailto:jjohnson@kalamazoocountyroads.com)

### **Travis Mabry, PE, *Assistant City Engineer*** City of Walker

Travis Mabry, PE, is the assistant city engineer for the City of Walker, Michigan. Mabry manages road, bridge, storm, sanitary, water main, traffic signal, roundabout, trail, and sidewalk projects. He is also responsible for the city's bridge inspection, asset management, and Act 51 programs.

Previously, he served in the United States Air Force as a civil engineering officer and was stationed in Colorado Springs, Colorado. Mabry earned his bachelor's degree in civil engineering from Virginia Technological University.



### **Gareth McKay, *Principal Consultant*** US Advisory Services, WSP Detroit

Gareth McKay is a principal consultant for the US Advisory Services, WSP Detroit. He has been with WSP Detroit since 2018. Prior to moving to the United States, McKay was responsible for road and highway projects in New Zealand, Canada, and the United Kingdom. Over the last seven years,

McKay has led transportation asset management initiatives with departments of transportation and local agencies in the United States and was involved with the group that updated the American Association of State Highway and Transportation Officials transportation asset management guide. He has also supported the Federal Highway Association



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and National Cooperative Highway Research Program by developing research and guidance for transportation asset management initiatives.

(313) 202-1165 | Gareth.McKay@wsp.com

**Steven Minton, PE, Metro Associate Region Engineer –  
Development**

Michigan Department of Transportation Metro Region

Steve Minton, PE, is the associate region engineer of development for the Michigan Department of Transportation (MDOT) Metro Region. Minton is responsible for managing the Metro Region's \$2.4 billion dollar Five-Year



Road and Bridge Program that is used to maintain the region's trunkline system of 4500 roadway lane miles and 1600 bridges. He has worked for the MDOT Metro Region for over 20 years in a variety of positions, including project management, construction, and geotechnical areas. He was formerly the deputy project manager for the I-75 modernization project in Oakland County. Minton earned his Bachelor of Science in Civil Engineering from Michigan State University.

(586) 524-0167 | MintonS@michigan.gov

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### **Jonathan Myers, PE, *Managing Director-County Highway Engineer***

Midland County Road Commission

Jon Myers, PE, serves as the manager and county engineer for the Midland County Road Commission. He is responsible for planning, developing, and implementing all road commission programs and construction projects. As part of this position, he oversees the development of the road commission budget and monitors expenses. He also represents the road commission for all collaboration at the local, state, and federal level. Prior to joining the road commission, Myers spent almost 20 years with the Michigan Department of Transportation where he worked in a variety of roles including design, traffic and safety, and project development. Myers has a Bachelor of Science in Civil Engineering from Michigan State University and is a licensed professional engineer.



### **Kyle Nelson, *Transportation Planner & Information Steward*** Michigan Department of Transportation

Kyle Nelson is a transportation planner and data steward for the Michigan Department of Transportation (MDOT). He has served the department for over four years, working in two different positions. Most of his time has been spent in the role of data steward for transportation project data. Nelson serves as an information steward for the Bureau of Transportation Planning and has helped form the current iteration of data governance at MDOT. Nelson earned a bachelor's degree in Urban and Regional Development from the University of Arizona.



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### **John Patrick O'Har, PhD, PMP, *Director, Infrastructure Strategy***

KPMG, LLP

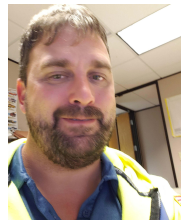
John Patrick "J.P." O'Har, PhD, PMP is a director in KPMG's Infrastructure Advisory practice. He has more than ten years' experience in asset management analysis, planning, strategy, and implementation across infrastructure sectors including transit, rail, aviation, facilities, roadways, and utilities. O'Har is a member of the Institute of Asset Management (IAM) and of the Transportation Research Board (TRB)'s Asset Management Committee. He has also conducted applied research on asset management in transportation, namely in the areas of risk management and climate change. O'Har holds a bachelor's, master's, and doctoral degrees in civil engineering from Georgia Tech and is a certified project management professional (PMP).

(212) 954-4459 | ohar@kpmg.com



### **Alex Patsy, PE, *Program & Development Engineer*** Genesee County Road Commission

Alex Patsy is the program and development engineer for the Genesee County Road Commission (CRC), where he has worked for over 11 years. Prior to his current position, he was a construction project engineer for Genesee CRC. Patsy holds a Bachelor of Science in Civil Engineering from the University of Michigan and a Master of Science in Civil Engineering



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from Columbia University. He is a licensed professional engineer in the state of Michigan.

apatsy@gcrc.org

**Dave Pettersch**, *Managing Director*  
Gladwin County Road Commission

Dave Pettersch has been the managing director of the Gladwin County Road Commission since 2014. He previously worked for Rieth-Riley Construction and J. Ranck Electric, Inc., managing MDOT construction projects all over the state of Michigan. Pettersch graduated from Michigan State University in 2004 with a degree in construction management.



**Michael Reynolds**, *Linear Referencing System Coordinator*  
Michigan Department of Transportation

Michael Reynolds is a transportation planner for the Michigan Department of Transportation (MDOT). He started his career with MDOT as a student assistant in 2011, working for the project manager of the Gordie Howe International Bridge (GHIB), and then joined the traffic collection unit in 2015. In 2016, he joined MDOT full time as the National Functional Class (NFC) coordinator and GIS support for HPMS. Reynolds assumed the position of linear referencing coordinator in 2018 and has been in that role ever since. Reynolds earned his Bachelor of Science in Geography from Michigan State University.



(517) 241-1244 | ReynoldsM4@michigan.gov

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### **Bob Slattery, Jr., *Director***

Department of Public Works – City of Burton,  
Michigan

Bob Slattery is the director of the Department of Public Works for the City of Burton, Michigan, where he oversees and directs operations of its various divisions—Streets, Water and Sewer, Planning and Zoning, Engineering and Inspection, Motor Pool, Building and Code Enforcement, and Facilities. Prior to assuming this role in 2015, he was director of planning for the Genesee County Road Commission and senior transportation planner for the Road Commission for Oakland County. Slattery served as mayor of his home town of Mt. Morris, Michigan, from 1991 to 2009 after having been chairman of the planning commission there for several years. He is also a past president of the Michigan Association of Mayors. Slattery remains active in the Michigan Municipal League, for which he served as president from 2001 to 2002 and as chairman of the Transportation, Infrastructure and Environmental Affairs Committee from 1995 to 2006. He was awarded Honorary Life Membership to the League in 2006. Slattery is currently representing the League on the Michigan Transportation Asset Management Council (TAMC). He served as vice-chairman for TAMC from 2006 to 2014. Slattery holds a master's degree of urban planning from the University of Michigan and a bachelor's degree in resource planning from the University of Michigan-Flint.



[r.slattery@burtonmi.gov](mailto:r.slattery@burtonmi.gov)

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### **Kristi Tanner, PhD, *Reporter-Analyst***

Detroit Free Press

Kristi Tanner, PhD, is a data reporter on the investigations team at the Detroit Free Press. Tanner's research interests include urban politics and policy. She is also an adjunct professor at Wayne State University where she teaches graduate level statistics. She has extensive experience in data analysis in the private, public, and nonprofit sectors. Tanner holds a master's and a doctoral degree in public policy administration at the University of Missouri – St Louis.

(313) 222-8877 | [ktanner@freepress.com](mailto:ktanner@freepress.com)



### **Kimberly Zimmer, PE, *Associate Region Engineer – Operations*** Michigan Department of Transportation Bay Region

Kimberly Zimmer, PE, is the associate region engineer for Operations for the Michigan Department of Transportation Bay Region. She has been with MDOT for 21 years. Zimmer has over 24 years of engineering experience, which has included design, project management, utilities, permitting, construction, maintenance, traffic, safety, and operations. Prior to her current position, Zimmer served as manager for the Davison Transportation Service Center where she was responsible for managing the design, construction, operations, and maintenance for state trunklines in Genesee, Lapeer, and Shiawassee counties. She also served as the Bay Region Traffic, Safety, and Operations engineer in the Saginaw office for eight years where she managed the Bay Region signal operations, safety projects, intelligent transportation projects, work-zone mobility, incident management, and signing and pavement markings. She is a member of the Michigan Technological



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## Presenter Biographies, *continued*

University Civil and Environmental Engineering Professional Advisory Council. Zimmer holds a bachelor's degree in civil engineering and a master's degree in business administration—Marketing and Human Resources/Labor Relations from Central Michigan University. She also holds a master's certificate in project management and is a licensed professional engineer in Michigan.



## Michigan Transportation Asset Management Council

### 2020 Transportation Asset Management Council Members

#### Joanna Johnson, Chair

Managing Director  
Road Commission of Kalamazoo County  
3801 E. Kilgore Road  
Kalamazoo, Michigan 49001  
Telephone: (269) 381-3171 – ext. 220  
E-mail: [jjohnson@KCRC-roads.com](mailto:jjohnson@KCRC-roads.com)  
Fax: (269) 381-1760  
Voting Member: County Road Association of Michigan

#### William McEntee, Vice Chair

Retired  
Road Commission for Oakland County  
Telephone: (248) 672-5459  
E-mail: [billfacts@aol.com](mailto:billfacts@aol.com)  
Voting Member: County Road Association of Michigan

#### Gary Mekjian

Assistant City Manager  
City of Farmington Hills  
31555 W. Eleven Mile Road  
Farmington Hills, Michigan 48336  
E-mail: [gmekjian@fhgov.com](mailto:gmekjian@fhgov.com)  
Telephone: (248) 871-2510  
Fax: (248) 871-2501  
Voting Member: Michigan Municipal League (MML)

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## 2020 Transportation Asset Management Council Members, *continued*

### Robert Slattery, Jr.

Director of Department of Public Works

City of Burton

4093 Manor Drive

Burton, Michigan 48519

Telephone: (810) 742-9230 – ext. 3110

E-mail: [r.slattery@burtonmi.gov](mailto:r.slattery@burtonmi.gov)

Fax: (810) 742-8015

Voting Member: Michigan Municipal League (MML)

### Christopher Bolt

Managing Director

Jackson County Department of Transportation

2400 Elm Road

Jackson, Michigan 49201

Telephone: (517) 788-4230

E-mail: [cbolt@co.jackson.mi.us](mailto:cbolt@co.jackson.mi.us)

Voting Member: Michigan Association of Counties (MAC)

### Derek Bradshaw

Director-Coordinator

Genesee County Metropolitan Planning Commission

1101 Beach Street, Room 223

Flint, Michigan 48502

Telephone: (810) 766-6546

E-mail: [dbradshaw@co.genesee.mi.us](mailto:dbradshaw@co.genesee.mi.us)

Fax: (810) 257-3185

Voting Member: Michigan Association of Regions (MAR)

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## Michigan Transportation Asset Management Council

### 2020 Transportation Asset Management Council Members, *continued*

#### Todd White

Director

Bureau of Transportation Planning, Michigan Department of  
Transportation

P.O. Box 30050

Lansing, Michigan 48909

Telephone: (517) 335-2300

E-mail: whitet5@michigan.gov

Voting Member: Michigan Department of Transportation (MDOT)

#### Jennifer Tubbs

Township Manager

Charter Township of Watertown

12803 Wacousta Road

Grand Ledge, Michigan 48837

Telephone: (517) 626-6405

E-mail: jtubbs@watertowntownship.com

Voting Member: Michigan Township Association (MTA)

#### Jonathan Start

Executive Director

Kalamazoo Area Transportation Study

5220 Lovers Lane #110

Portage, Michigan 49002

Telephone: (269) 343-0766 – ext. 12

E-mail: jrstart@katsmpo.org

Voting Member: Michigan Transportation Planning Association  
(MTPA)

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## 2020 Transportation Asset Management Council Members, *continued*

### Bradley C. Wieferich

Director

Bureau of Development, Michigan Department of Transportation  
P.O. Box 30050

Lansing, Michigan 48909

Telephone: (517) 241-3998

E-mail: [wieferichb@michigan.gov](mailto:wieferichb@michigan.gov)

Voting Member: Michigan Department of Transportation (MDOT)

### Rob Surber

Director of Enterprise Portfolio Management Office

Michigan Department of Technology, Management and Budget

Lewis Cass Building, 2nd Floor

320 S. Walnut Street, P.O. Box 30026

Lansing, Michigan 48909

Telephone: (517) 373-7910

E-mail: [surberr@michigan.gov](mailto:surberr@michigan.gov)

Non-voting Member

## 2020 TAMC Coordinator

### Roger Belknap

Michigan Department of Transportation

P.O. Box 30050

Lansing, Michigan 49002

Telephone: (517) 335-4580

E-mail: [belknapr@michigan.gov](mailto:belknapr@michigan.gov)

## Transportation Asset Management Workshop

An introduction to asset management principles where you can develop proficiency with applying pavement condition ratings and an understanding of network versus project management. Also, learn the tools to set goals and manage performance, the skills to implement simple models to develop and strategy, and the ways you can predict future conditions.

For more information:  
[ctt.mtu.edu/training-request](http://ctt.mtu.edu/training-request)

## Pavement Asset Management Workshop

A hands-on opportunity to start realizing asset management goals! Create a customized pavement asset management plan using your agency's specific asset information, identify maintenance and corrective solutions, and optimize financial investments in pavement assets.

For more information:  
[ctt.mtu.edu/training](http://ctt.mtu.edu/training)  
Spring and summer sessions available

## TAMC Bridge Asset Management Webinar & Workshop Series

An introduction to bridge asset management principles and advanced discussion of cost estimating and optimization of bridge preservation strategies. *Plus*, a hands-on workshop for developing your agency's own unique asset management plan!

For more information:  
[ctt.mtu.edu/training](http://ctt.mtu.edu/training)  
Spring and summer sessions available



# Center for Technology & Training

Michigan Technological University • Department of Civil & Environmental Engineering

ctt@mtu.edu •

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**MARK YOUR CALENDAR: 2021 County Engineers' Workshop**  
*February 9-11 – Bellaire*

**MARK YOUR CALENDAR: 2021 Highway Maintenance Conference**  
*Pre-conference workshop: April 27 – Bellaire*  
*Conference: April 28 – Bellaire*



## 2020 Advanced Roadsoft Training 6-part Webinar Series

- 1: October 7 – *Surface Sub-types, Treatment, & Curve Defs*
- 2: October 14 – *Data Clean-up*
- 3: October 21 – *Strategy Evaluation & Optimization Tool*
- 4: October 28 – *Project Planning & Selection Tool*
- 5: November 4 – *Project Builder*
- 6: November 11 – *Extended Service Life Calculator*



**MARK YOUR CALENDAR: 2021 Michigan Bridge Week**  
*March 16-18 – Ypsilanti*



## 2020 MERL Webinars

- Project Estimator: November 3*  
*Local Job Manager: November 4, November 12*  
*Bid Utility: November 10*

Center for Technology & Training at Michigan Tech – Home of the Michigan LTAP, Roadsoft, MERL, Michigan Bridge Load Rating Program, and the Great Lakes Environmental Infrastructure Center



Michigan Technological University  
**Civil and Environmental  
Engineering**