

Program at a Glance

Wednesday, March 13

10:00 a.m.-noon	Participant Registration, Continental Breakfast, and Exhibits						
Noon-1:30 p.m.	Welcome and Plenary Session <i>John Sileo: The Hacker's Blacklist: 7 Critical Cybersecurity Threats & Solutions</i>						
1:30-2:00 p.m.	Break and Exhibits						
	Diversity	Mega Projects	Big Data	CAV	Bike/Ped	Transit	Maintenance/Operations
2:00-3:30 p.m. Concurrent Sessions	Session 1: Hidden in Plain Sight: Using Transportation as a Gateway to STEM Careers Meeting Rooms 2-3	Session 2: Cross-Agency Collaboration for the Mega Project on I-35W and I-94 Ballroom D	Session 3: How Big Data Can Make a Big Difference Meeting Room 6	Session 4: Latest Trends in Advancing Connected and Automated Vehicle Work in Minnesota Meeting Rooms 4-5	Session 5: Collaboration in Bicycle and Pedestrian Planning Meeting Room 9	Session 6: What's New in the World of Transit Meeting Room 7	Session 7: World of Operations Meeting Room 8
3:30-4:00 p.m.	Break and Exhibits						
4:00-5:00 p.m. Concurrent Sessions	Session 8: Using Contracting and Purchasing Power to Increase Economic Opportunity—MnDOT's Results and Resolve Meeting Rooms 2-3	Session 9: Twin Ports Interchange (TPI) CMGC Project: Overview and Perspectives from Owner, Designer, and Contractor Ballroom D	Session 10: 3D Underground Utility Modeling Meeting Room 6	Session 11: Connected and Automated Vehicles: Studies and Scenarios Meeting Rooms 4-5	Session 12: Pedestrian and Bicycle Safety Meeting Room 9	Session 13: A Multimodal Approach to Improve Mobility in the Highway 169 Corridor and MnPASS System Vision Meeting Room 7	Session 14: Safety Culture Meeting Room 8
5:00-6:30 p.m.	Reception						

Thursday, March 14

7:30-8:30 a.m.	Participant Registration, Continental Breakfast, and Exhibits						
8:30-10:00 a.m.	Plenary Panel Session FAST Act Reauthorization: Getting Started on the Next Multiyear Funding Act for Surface Transportation						
10:00-10:45 a.m.	Break and Exhibits						

Program at a Glance

Thursday, March 14 (continued)

	Legislative	Asset Management	Engagement	Data for Planning	Partnerships	Transit	Multimodal Facilities
10:45-11:45 a.m. Concurrent Sessions	Session 15: New and Innovative Transportation Funding Meeting Rooms 2-3	Session 16: Institution of Asset Management (IAM): Best of Presentations Meeting Room 7	Session 17: Data-Driven Community Engagement Strategies Ballroom D	Session 18: Advancing Shared Mobility Meeting Room 8	Session 19: Corridors of Commerce—Overview and Project Selection Meeting Rooms 4-5	Session 20: Transit Reliability for Light Rail and Signal Design Meeting Room 6	Session 21: Minnesota Airports 101 Meeting Room 9
11:45 a.m.-1:30 p.m.	Lunch and Plenary Session <i>Ellie Krug: Bridging Divides: Fear, Grit, Resiliency, and the Four Commonalities</i>						
1:30-2:30 p.m. Concurrent Sessions	Session 22: Advancing Transportation Equity Meeting Rooms 2-3	Session 23: Asset Management Planning Meeting Room 7	Session 24: 3D Visualization Technology, and the Future of Virtual Reality and Augmented Reality Ballroom D	Session 25: Using Big Data to Support Traffic Design Decisions Meeting Room 8	Session 26: Cooperative Agreements Provide Funding Options for Local Agencies Meeting Rooms 4-5	Session 27: Pedestrian and Transit Planning in a Rural Context Meeting Room 6	Session 28: ABC Parking Ramps: Reimagining the Future of Parking and Multimodal Transportation Options Meeting Room 9
2:30-3:15 p.m.	Break and Exhibits						
3:15-4:15 p.m. Concurrent Sessions	Session 29: Incorporating Climate Risk into Construction Meeting Rooms 2-3	Session 30: What's Next for UAS Programs and How They Will Impact Your Projects Meeting Room 7	Session 31: Community Connections Ballroom D	Session 32: Successful Approaches to Accommodate Additional Modes and Services in Existing Right of Way Meeting Room 8	Session 33: Leveraging Partnerships to Help Deliver a Large Project Meeting Rooms 4-5	Session 34: Greater Minnesota Five-Year Transit Plans Meeting Room 6	Session 35: Environmentally Sustainable Designs Meeting Room 9

Program Schedule

Wednesday, March 13, 2019

**Participant Registration,
Continental Breakfast, and Exhibits** 10:00 a.m.–noon

Welcome Plenary Session: Noon–1:30 p.m.

**The Hacker's Blacklist: 7 Critical Cybersecurity
Threats and Solutions**

Grand Ballroom

John Sileo

To avoid becoming the next disastrous data-breach headline, you must foster a healthy culture of security that addresses both the technological and human elements of data defense. Change happens when you create energy and buy-in among the people who handle your mission-critical information. When it comes to the latest data security threats, you can't possibly do everything—but you must do the right things. This cyber security training crash course forges a high-level, nontechnical path through the often-confusing web of human decision making, cyber defense, mobile technology, IoT, social media, and cloud computing—critical components of your success. This highly interactive presentation builds on John's experience of losing everything to cybercrime, and ends with an actionable Roadmap of Next Steps.

Breaks and Exhibits 1:30–2:00 p.m.

Twitter

We're on Twitter!

Use hashtag

#mntc2019 to continue
this year's conference
conversation.

Concurrent Sessions

2:00–3:30 p.m.

Session 1: Hidden in Plain Sight: Using Transportation as a Gateway to STEM Careers

Meeting Rooms 2–3

Marcia Lochner (MnDOT), *Nicole Bartelt* (MnDOT), *Richard Davis* (MnDOT), *Tim Barrett* (Minnesota Department of Education), *Lisa Breu* (SRF Consulting), *Teri Vogt* (Science Museum of Minnesota)
Moderator: *Denise Woods* (AGC)

Everyone uses roads, bridges, transit, sidewalks, and other forms of transportation to get where they need to go every day. We want to leverage those assets to help inspire and encourage the next generation of transportation professionals.

This presentation provides an overview of resources, activities, and upcoming events available to educators and the public, and explains how anyone could use these resources to help secure a diverse future transportation workforce. We will also discuss the changing nature of career and technical education and preparing students for the broader variety of transportation and industrial technology careers.

Session 2: Cross-Agency Collaboration for the Mega Project on I-35W and I-94

Ballroom D

Aaron Tag (MnDOT), *Derek Berube* (Metro Transit), *Paul Glaser* (KLJ), *Jim Henricksen* (MnDOT), *Kristin Thompson* (Metro Transit)
Moderator: *Jim Grube* (Hennepin County)

The I-35W Downtown to Crosstown project in Minneapolis successfully progressed from its design through its most impactful stage in 2018. This session will provide an update on the project from a communications standpoint. It will also describe the accelerated design and construction of the METRO Orange Line 12th Street Transit Ramp and how transit service was maintained during the construction stages.

Session 3: How Big Data Can Make a Big Difference

Meeting Room 6

Bryan Nemeth (Bolton & Menk), *Lyndon Robjent* (Carver County),
Angie Bersaw (Bolton & Menk), *Brad Utecht* (MnDOT)

Moderator: *Scott Burfeind* (HDR)

This presentation will discuss a first-of-its-kind, data-driven crash analysis tool. The tool identifies crash trends and potential future problem locations. This tool was used recently by Carver County to review their transportation system. The session will also discuss the process to incorporate third-party speed data to evaluate Greater Minnesota mobility and reliability.

Session 4: Latest Trends in Advancing Connected and Automated Vehicle Work in Minnesota

Meeting Rooms 4-5

Jay Hietpas (MnDOT), *Sue Mulvihill* (MnDOT), *Kristin White* (MnDOT),

Moderator: *Tim Burkhardt* (WSP)

The State of Minnesota is rapidly advancing policy and technology for Connected and Automated Vehicles (CAV). This session will focus on the Governor's Advisory Council, policy updates, MnDOT CAV strategic plan, and MnDOT CAV Testing and Deployment.

Session 5: Collaboration in Bicycle and Pedestrian Planning

Meeting Room 9

Fay Simer (City of Saint Paul), *Nichole Morris* (University of Minnesota),
Steven Elmer (Metropolitan Council), *Mackenzie Turner Borgen* (MnDOT)

Moderator: *Maria Wardoku* (Alta Planning + Design)

The Metropolitan Council and MnDOT Metro District have developed policy plans to coordinate bicycle infrastructure in planning efforts. These plans will work together to improve investment and project development decisions in a way that helps to ensure a secure future for bicycle transportation. This session will include Saint Paul's Pedestrian Plan to guide infrastructure decisions at uncontrolled intersections.

Session 6: What's New in the World of Transit

Meeting Room 7

Charles Carlson (Metro Transit), *Matt Dake* (Metro Transit),
Kirby Becker (MnDOT), *Mark Nelson* (MnDOT)

Moderator: *Nick Thompson* (Metropolitan Council)

Transit is ever evolving with new innovations in technology. Learn how the electrification of buses in the Twin Cities Region is changing the needs of infrastructure and how route planning and future plans need to accommodate this new advancement. The session will also look at innovations in the rural transit setting to allow for greater flexibility with these opportunities.

Session 7: World of Operations

Meeting Room 8

Todd Stevens (MnDOT)

Moderator: *Anita Benson* (Stonebrooke Engineering)

MnDOT has billions of dollars of assets to operate and maintain, including bridges, roads, roadsides, buildings, and many more. Hear about the new tools, technology, and innovations MnDOT is using to do that work safely and efficiently.

Breaks and Exhibits

3:30-4:00 p.m.

Concurrent Sessions

4:00-5:00 p.m.

Session 8: Using Contracting and Purchasing Power to Increase Economic Opportunity—MnDOT's Results and Resolve

Meeting Rooms 2-3

Mary Schmidt (MnDOT), *Mindy Heinkel* (MnDOT), *Brad Hamilton*
(MnDOT)

Moderator: *Nelrae Succio* (Terracon)

In the last two years, MnDOT has doubled the dollar value of its prime contracts awarded to local small businesses, particularly those owned by women, persons of color, Native Americans, and veterans. This presentation will highlight how MnDOT has created a more open, inclusive, and supportive procurement system.

Session 9: Twin Ports Interchange (TPI) CMGC Project: Overview and Perspectives from Owner, Designer, and Contractor

Ballroom D

Patrick Huston (MnDOT), *Tom Jensen* (Alliant Engineering),
Stephen Kaldenbach (Kraemer North America)

Moderator: *Ross Jentick* (WSB)

MnDOT's unique "Can of Worms" interchange in Duluth has a new name, "Twin Ports Interchange," and it's about to be reconstructed. Learn about this important northeastern Minnesota CMGC megaproject, its many risks and challenges, and how the project team is tackling the project development from three perspectives: owner, designer, and contractor.

Session 10: 3D Underground Utility Modeling

Meeting Room 6

Michael Picha (Cardno Inc.), *Mike Woods* (Cardno Inc.), *Curt Fakler*
(Utility Mapping Services Inc.), *Phil Meis* (Utility Mapping Services Inc.)

Moderator: *Brad Henry* (MN2050)

Unknown underground utilities can have a huge impact on the schedule and cost for a project. Find out what is being done in Minnesota and elsewhere to make 3D underground projects a reality. 3D underground can help the project life cycle in planning, design, construction, and maintenance.

Session 11: Connected and Automated Vehicles: Studies and Scenarios

Meeting Rooms 4-5

Praveena Pidaparathi (MnDOT), *Tim Burkhart* (WSP), *Joe DeVore* (KLJ)

Moderator: *Bernie Arseneu* (HDR)

MnDOT is currently developing a Connected and Automated Vehicle Strategic Plan. The plan seeks to identify short-, medium-, and long-term strategies to help guide MnDOT decision making in this uncertain future. The session will discuss a study for a segment of I-35W that looked at the feasibility to repurpose existing freeway lanes for different Automated Vehicle lanes.

Session 12: Pedestrian and Bicycle Safety

Meeting Room 9

Tao Tao (University of Minnesota), *Hoki Tse* (Metro Transit)

Moderator: *Tom Fidler* (Stantec)

Safety is Metro Transit's top priority. Metro Transit has been looking for innovative solutions to minimize accidents around buses. This presentation will summarize what innovative efforts are being done to minimize accidents around buses including a model for pedestrian and bicycle crash probabilities.

Session 13: A Multimodal Approach to Improve Mobility in the Highway 169 Corridor and MnPASS System Vision

Meeting Room 7

Lisa Freese (Scott County), *Brad Larson* (MnDOT),
Adele Hall (SRF Consulting), *Paul Morris* (SRF Consulting)

Moderator: *Cole Hiniker* (MetCouncil)

As MnDOT plans for the future, the MnPASS High Occupancy Toll (HOT) lanes play an ever-increasing role in mitigating congestion and promoting greater accessibility. This session will focus on the updates to the MnPASS vision future expansions for additional corridors. To think holistically about the right solutions in the Highway 169 corridor, MnDOT, Metropolitan Council, and Scott County collaborated on an innovative planning study which for the first time in the Twin Cities Metropolitan Area analyzed bus rapid transit (BRT), MnPASS Express Lanes, and highway spot mobility improvements in a single coordinated effort, the Highway 169 Mobility Study.

Session 14: Safety Culture

Meeting Room 8

Craig Collison (MnDOT), *Daniel Anderson* (MnDOT), *Lisa Dumont* (MnDOT)

Moderator: *Boris Veleusic* (Michels Corporation)

Worker safety is something we value at MnDOT, yet some construction and utility companies have injury rates 5 to 10 times lower. Hear how MnDOT is creating a culture of safety to eliminate injuries to its employees.

Reception

5:00–6:30 p.m.

Sponsored by Alliant Engineering Inc.

Exhibit Hall A

Thursday, March 14, 2019

**Participant Registration,
Continental Breakfast, and Exhibits** **7:30–8:30 a.m.**

Plenary Panel Session: **8:30–10:00 a.m.**

**FAST Act Reauthorization: Getting Started on the Next
Multiyear Funding Act for Surface Transportation**

Grand Ballroom

Dean Franks, Arthur L. Guzzetti, Susan Howard

The FAST Act will expire in 2020. Congress will need to develop a new multiyear surface transportation authorization act and the sooner they get started, the more time we will have to build support and get a new bill passed on time. National transportation organizations are working to develop and present recommendations on behalf of state DOTs and the transportation industry.

Breaks and Exhibits **10:00–10:45 a.m.**

Concurrent Sessions **10:45–11:45 a.m.**

Session 15: New and Innovative Transportation Funding

Meeting Rooms 2–3

Margaret Donahoe (Minnesota Transportation Alliance),
Ken Buckeye (MnDOT)

Moderator: *Khani Sahebjam* (SRF Consulting)

This session will explore the future of transportation funding, including innovative funding ideas being used in other states and metropolitan regions. Conference participants will learn valuable information about the status of funding for projects in Minnesota.



**Session 16: Institution of Asset Management (IAM):
Best of Presentations**

Meeting Room 7

Ross Bintner (Edina Engineering), *Brian Cahill* (Ramsey County),
Russ Matthys (Eagan Public Works)

Moderator: *Brad Henry* (MN2050)

The IAM chapter of Minnesota has recently formed with the goal of improving infrastructure asset management. This session will discuss how to create a Transportation Asset Management Plan, how to select an Enterprise Asset Management System and how to develop an Asset Management Strategic Plan.

Session 17: Data-Driven Community Engagement Strategies

Ballroom D

Jennifer Wiltgen (MnDOT), *Erik Baxstrom* (MnDOT),
Darin Mielke (Carver County Public Works), *Mike Vallari* (MCES)

Moderator: *Emily Hyland* (HDR)

Projects across the metro area are collecting data that could be used to drive future engagement strategies. This session will look at how MnDOT, Metropolitan Council Environmental Services, and Carver County are using this data to enhance future engagement.

Session 18: Advancing Shared Mobility

Meeting Room 8

Jessica Treat (Move Minnesota), *Joshua Johnson* (City of Minneapolis),
Nico Probst (Lime), *Claire Repp* (Lyft)

Moderator: *Mike Bittner* (KLJ)

New transportation modes are showing up on a regular basis, sometimes arriving literally overnight. The Twin Cities Shared Mobility Collaborative has been a critical resource to sustained coordination and collaboration. In this panel session, members will share insights into what is coming on the horizon for shared mobility options.

Session 19: Corridors of Commerce—Overview and Project Selection

Meeting Rooms 4-5

Tony Heppelmann (WSB), *DJ Sosa* (WSB), *Chris Roy* (MnDOT)
Moderator: *Chris Hiniker* (SEH)

MnDOT was tasked with selecting projects from the latest round of Corridors of Commerce funding. This session will detail the history of the program, the goals of the program, the scoping process, and the prioritization of the selected projects.

Session 20: Transit Reliability for Light Rail and Signal Design

Meeting Room 6

Matt Broughton (Metro Transit), *Mark Benedict* (Metro Transit),
Hoki Tse (Metro Transit), *Gary Nyberg* (Metro Transit)
Moderator: *Michelle Julius* (AECOM)

Transit Signal Priority was first implemented in 2010 and has steadily grown to 90 intersections today. With ambitious plans to expand BRT service across the Twin Cities, Transit Signal Priority will be the backbone to ensure customer reliability. Metro Transit has developed a process to identify light rail service reliability with terminal departures and traffic signals.

Session 21: Minnesota Airports 101

Meeting Room 9

Kevin Carlson (MnDOT—Office of Aeronautics), *Ryan Gaug* (MnDOT—Office of Aeronautics), *Rylan Juran* (MnDOT—Office of Aeronautics),
Christopher Morgan (MnDOT—Office of Aeronautics)
Moderator: *Kaci Nowicki* (SEH)

There are 135 Minnesota publicly funded airports that are available for use. This session will discuss the State Aviation System Plan and the State Aviation Economic Impact Study. Check out this discussion to increase your multimodality and better understand the highways of the sky.

Lunch and Plenary Session: 11:45 a.m.–1:30 p.m.

Bridging Divides: Fear, Grit, Resiliency, and the Four Commonalities

Grand Ballroom

Ellie Krug

Humans are hardwired to be with others who look, think, and act like they do. This “tribal” tendency pervades all aspects of day-to-day life. Things work until tribe members encounter folks who aren’t part of their tribe—people who constitute the “Other.” Indeed, we humans can make anyone Other if we work at it.

All of us are capable of accepting humans who are Other and of bridging the divide between “us” and “them” that seems to pervade America today. That bridging takes honesty, mindfulness, fearlessness, compassion and a darn lot of work. Hard work.

Concurrent Sessions

1:30–2:30 p.m.

Session 22: Advancing Transportation Equity

Meeting Rooms 2-3

Keith Mensha (MnDOT), *Mariyam Naadha* (MMB),
Yunlei Qi (University of Minnesota)
Moderator: *Beth Bartz* (SRF Consulting)

MnDOT completed the Community Conversations pilot project that focused on individuals that are underrepresented in transportation processes to learn about the transportation experiences of these communities and how the agency includes equity in future decision-making. This session will also discuss a phenomenon known as “Transit-Induced Gentrification.”



Session 23: Asset Management Planning

Meeting Room 7

Shannon Foss (MnDOT), *Dave Solsrud* (MnDOT), *Trisha Stefanski* (MnDOT), *Tom Zimmerman* (MnDOT)

Moderator: *Joe Weaver* (TKDA)

MnDOT has implemented a highly functional, integrated, and comprehensive asset management system for assets beyond pavements and bridges. This session will focus on how the assets are identified and how MnDOT has developed a risk-based life cycle planning strategy for the assets.

Session 24: 3D Visualization Technology, and the Future of Virtual Reality & Augmented Reality

Ballroom D

Jeff Christiansen (WSB)

Moderator: *Keith Farquhar* (Mead and Hunt)

Creating visualizations for highway corridors is becoming more interactive and continues to push the industry boundaries. This session will show cutting-edge technologies, including virtual reality and augmented reality to demonstrate how design and aesthetic elements can be visualized and used in the decision-making process.

Session 25: Using Big Data to Support Traffic Design Decisions

Meeting Room 8

Katherine Manzo (StreetLight Data), *Dale Gade* (MnDOT)

Moderator: *John Crawford* (KLJ)

The recent growth in mobile locational data supply has provided new insights in transportation demand and real-world travel patterns. These tools can help planners maximize the impact of planning initiatives and allow for a better understanding of the most promising multimodal solutions.

Session 26: Cooperative Agreements Provide Funding Options for Local Agencies

Meeting Rooms 4-5

Jake Chapek (KLJ), *Phil Bergem* (MnDOT), *Bobby Kuennen* (Dakota County)

Moderator: *Jeff Rhoda* (AECOM)

Cooperative agreement projects provide construction funding for mutually beneficial roadway improvement projects. This presentation will discuss a recent Rosemount project that utilized the Local Partnership Program and its associated benefits.

Session 27: Pedestrian and Transit Planning in a Rural Context

Meeting Room 6

Charles Androsky (Mankato/North Mankato Area Planning Organization), *Patrick Hollister* (PartnerSHIP 4 Health), *Greg Lindsey* (University of Minnesota), *Mary Safgren* (MnDOT)

Moderator: *Mary Gute* (Bolton & Menk)

Pedestrians in rural Minnesota face additional safety risks because of the lack of pedestrian infrastructure. This session will focus on collaborating with the Advocacy Council for Tribal Transportation (ACTT) and the State Health Improvement Partnership Organizations (SHIP) to engage communities in planning for making their communities more pedestrian-friendly. There will be a discussion on what Mankato/North Mankato Area Planning Organizations (MAPO) are doing on the journey to implementing their ADA Transition Plans.

Session 28: ABC Parking Ramps: Reimagining the Future of Parking and Multimodal Transportation Options

Meeting Room 9

Lisa Austin (MnDOT), *Frank Douma* (University of Minnesota), *Dan Edgerton* (Zan Associates), *Paul Morris* (SRF Consulting)

Moderator: *Matt Reid* (WSB)

For over 25 years, the ABC Ramps have supported multimodal transportation in downtown Minneapolis. This presentation will focus on a new study that identified future program opportunities to leverage shared mobility trends and the use of mobile applications and technology to provide commuters with increased flexibility and choices for transportation.

Breaks and Exhibits

2:30–3:15 p.m.

Concurrent Sessions

3:15–4:15 p.m.

Session 29: Incorporating Climate Risk into Construction

Meeting Rooms 2–3

Dwayne Stenlund (MnDOT), *Kenny Blumenfeld* (MnDNR)

Moderator: *Jill Mickelson* (Braun Intertec)

Weather extremes are affecting construction budgets and schedules. Due to changes in storm frequency, intensity, and duration, transportation design and constructability considerations must be updated to reflect managing risk, estimating cost, and transportation resiliency.

Session 30: What's Next for UAS Programs and How They Will Impact Your Projects

Meeting Room 7

Amy Grothaus (Braun Intertec), *Jon Gustafson* (WSP), *Anthony Fernando* (MnDOT–Division of Aeronautics), *Joe MacPherson* (MnDOT)

Moderator: *Kate Miner* (Stonebrooke Engineering)

Unmanned Aerial Systems (UAS or “drones”) have been utilized for a number of years in bridge inspection, surveying, and mapping. This presentation will focus on the progression of technology to support MnDOT’s mission and a case study example with Anoka County.

Session 31: New Initiatives in Public-Private Partnerships to Maximize Community Connections

Ballroom D

Jessica Oh (MnDOT), *Cyrus Knutson* (MnDOT)

Moderator: *Charles Cadenhead* (Braun Intertec)

MnDOT has created two new initiatives to support innovative public-private partnerships to maximize the use of right-of-way, reconnect communities, support economic development, and encourage external partners to enhance the aesthetics of the highway roadsides through landscaping, art, and pollinator habitat.

Session 32: Successful Approaches to Accommodate Additional Modes and Services in Existing Right of Way

Meeting Room 8

Scott Pedersen (MnDOT)

Moderator: *Paul Glaser* (KLJ)

The NCHRP initiated a research program that identifies innovative practices related to transportation. Minnesota was selected along with Departments of Transportation from Michigan, Washington, Pennsylvania, and Florida to visit projects throughout the country and document the innovations. The outcome of the program is to document new practices and disseminate this valuable information to transportation officials.

Session 33: Leveraging Partnerships to Help Deliver a Large Project

Meeting Rooms 4–5

Craig Churchward (HDR), *Dan Ryan* (KL Engineering), *Ryan Schanhofer* (KL Engineering)

Moderator: *Steve Howe* (HNTB)

This session will focus on the Interstate 39/90 42-mile corridor expansion from Illinois to Madison of designing/constructing the corridor while navigating through issues regarding changes in funding and multiple stakeholders. We will discuss the FHWA’s 2015 Visual Impact Assessment (VIA) process that has been used to accelerate project delivery with examples across the nation.

Session 34: Greater Minnesota Five-Year Transit Plans

Meeting Room 6

Lee Nichols (WSB), *Sara Dunlap* (MnDOT)

Moderator: *Darwin Yasis* (TKDA)

MnDOT and the Minnesota Public Transit Association (MPTA) have joined to create Five-Year Transit Plans for different regions across the state. The goal of the five-year planning process is to improve coordination of services, increase ridership, and ensure fiscal responsibility as a transit funding agency.

Session 35: Environmentally Sustainable Designs

Meeting Room 9

Nicole Bartelt (MnDOT), Peter Leete (MnDNR), Chris Smith (MnDOT)

Moderator: *Theresa Maahs (Stantec)*

One important aspect of environmentally sustainable roadways designs is habitat connectivity. This session will focus on design tools and processes to facilitate the safe movement of animals across highways. Specific topics will be a new Minnesota culvert design guide for aquatic organism passage and guidance on how to minimize habitat fragmentation.



Exhibitor List

Company	Booth Number	Company	Booth Number
106 Group	8	Kimley-Horn and Associates, Inc.	47
3D Specialties, Inc.	9	KL Engineering	58
3M Transportation Safety Division	52	KLJ	20
AECOM	39	LHB Corporation	6
Alliant Engineering, Inc.	44	Martinez Geospatial	22
American Council of Engineering Companies of Minnesota	15	Mead & Hunt, Inc.	38
American Engineering Testing	5	Michael Baker International	23
Apex Engineering Group	27	Michels Corporation	10
Associated General Contractors of Minnesota	2	Mid-American Signal, Inc.	36
Atlas Tube Pipe Piles	56	Minnesota Department of Transportation	3
Barr Engineering Co.	29	Minnesota Department of Transportation-Research Services	14
Blyncsy	53	Minnesota Local Road Research Board (LRRB)	13
Bolton & Menk, Inc.	42	Minnesota Transportation Alliance	50
Boschung America	30	MoboTrex, Inc.	33
Braun Intertec	21	Moriarty Scheduling Services, LLC	60
Cardno, Inc.	24	MSA Professional Services, Inc.	49
CBS Squared Inc.	62	Quantum Spatial	18
Citilog, Axis Communications	54	Rani Engineering, LLC	61
Collins Engineers, Inc.	59	Sambatek	26
Continental Mapping Consultants	12	SEH, Inc.	28
Daktronics	35	SRF Consulting Group, Inc.	46
Durisol Noise Barriers	32	Stantec Consulting Services, Inc.	19
Foth	31	Stonebrooke Engineering, Inc.	37
Groome Transportation	55	Terracon Consultants, Inc.	16
HDR Engineering, Inc.	43	TKDA	40
Hiway Federal Credit Union	25	Utility Mapping Services, Inc.	1
HNTB Corporation	57	Widseth Smith Nolting	17
Hoffman Construction Company	51	WSB	41
Houston Engineering, Inc.	11	WSP USA	45
HR Green	34		
ISG	48		
Isthmus Engineering, Inc.	7		
ITS Minnesota	4		