

Mid-Continent Transportation Research Symposium

August 16-17, 2007

at Iowa State University, Ames, Iowa

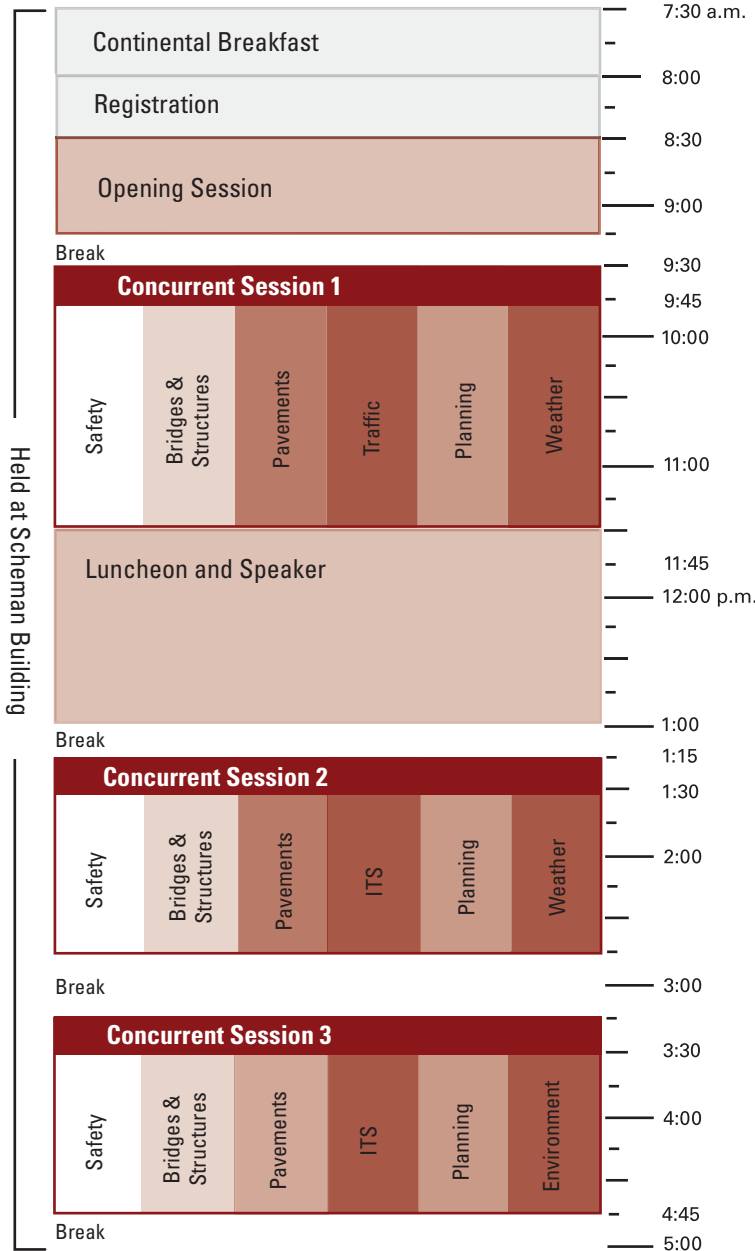


Event Program

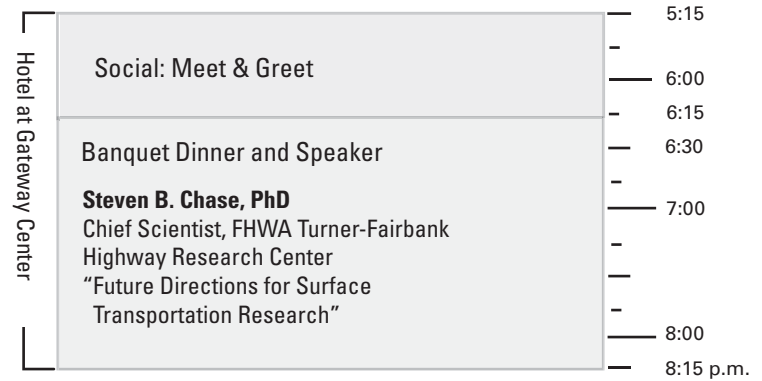
Mid-Continent Transportation Research Symposium

Schedule of Events for August 16–17, 2007

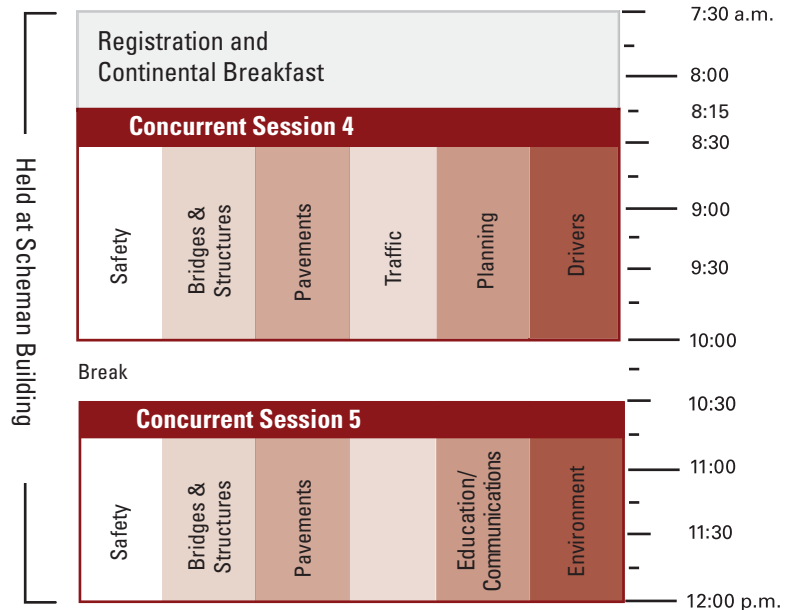
Thursday, August 16th



Thursday, August 16th



Friday, August 17th



Special Speakers

Welcome and Opening Remarks

Shashi Nambisan, CTRE, Iowa State University - Welcome

John Brighton, Iowa State University - Welcome

Sandra Larson, Iowa Department of Transportation - Opening Remarks

Kevin Mahoney, Iowa Department of Transportation - Opening Remarks

Phil Barnes, Federal Highway Administration - Opening Remarks

Steve Andrie, Transportation Research Board - SHRP 2 Briefing:
Accomplishments and Opportunities

Luncheon Speakers

Mark Kushner, Iowa State University - Welcome

Tom Maze, CTRE, Iowa State University - Introduction

Anthony Kane, American Association of State and Highway
Transportation Officials (AASHTO) - Vision for the Future Surface
Transportation System

Banquet Dinner Speaker

Steven B. Chase, PhD, Chief Scientist, FHWA Turner-Fairbank
Highway Research Center - Future Directions for Surface
Transportation Research



Symposium Sponsors

Iowa Department of Transportation

Iowa State University's Center for
Transportation Research and Education;
Department of Civil, Construction and
Environmental Engineering; and Midwest
Transportation Consortium

Wisconsin Department of Transportation
University of Wisconsin's Midwest Regional
University Transportation Center

The University of Iowa's Department of Civil
and Environmental Engineering

Session 1A

Safety and Rural Roadways

(Tom Welch,
Iowa Department of
Transportation,
Moderator)

1. Overview of *SafetyAnalyst* Software

Karen Richard, Darren Torbic, Douglas Harwood, Midwest Research Institute

2. Safety Effects of Offset Right-Turn Lanes at Rural Expressway Intersections

Joshua Hochstein, Thomas Maze, CTRE, Iowa State University;
Howard Preston, Richard Storm, CH2M Hill;
Tom Welch, Iowa Department of Transportation

3. Developing Guidance for Use of Lighting on Rural Roadways

Cari Kinzenbaw, Shauna Hallmark, Zach Hans, Neal Hawkins, Omar Smadi, CTRE, Iowa State University

4. Thirteen County Road Safety Audit Reviews - Lessons Learned

Howard Preston, CH2M Hill

5. A Full Bayesian Assessment of the Effects of Highway Bypasses on Crashes and Crash Rates

Lorenzo Cena, Nir Keren, Wen Li, Iowa State University

Session 1B

Bridge Monitoring

(Lowell Greimann, CTRE,
Iowa State University,
Moderator)

1. Determination of Load Ratings for Non-Composite Steel Girder Bridges through Load Testing

Jeremy Koskie, Mohamed M. Mekkawy, Wayne Klaiber, Iowa State University;
Terry Wipf, Bridge Engineering Center, Iowa State University

2. Development of a Low-cost, Continuous Structural Health Monitoring System for Bridges and Components

Yoon-Si Lee, Brent Phares, Terry Wipf, Bridge Engineering Center, Iowa State University

3. A Bridge Structural Health Monitoring and Data Mining System

Ping Lu, Brent Phares, Terry Wipf, Bridge Engineering Center, Iowa State University;
Justin Doornink, T.Y. Lin International

4. Monitoring the Performance of Timber Bridges Over the Long Term

James P. Wacker, Marc R. Joyal, Joseph F. Murphy, Forest Products Laboratory, USDA Forest Service;
Xiping Wang, Natural Resource Research Institute, University of Minnesota, Duluth

5. Field and Laboratory Studies on High-mast Lighting Towers in Iowa

Robert Connor, Greg Callahan, Purdue University;
Bruce Brakke, Iowa Department of Transportation;
Ian Hodgson, ATLSS Engineering Research Center, Lehigh University;
Mike Koob, Wiss, Janney, Elstner Assoc., Inc.

6. A Discussion on the Efficiency of NBI Translator Algorithm

Basak Aldemir-Bektas, Omar Smadi, CTRE, Iowa State University

Session 1C

Asphalt Mix Design

(Mark Dunn,
Iowa Department of
Transportation,
Moderator)

1. Implementing Percent within Limits for Hot Mix Asphalt

Tamer Breakah, R. Christopher Williams, Amr Kandil, Jennifer Shane, Iowa State University

2. Laboratory Evaluation and Pavement Design for Warm Mix Asphalt

Thomas J. Van Dam, Zhanping You, Shu Wei Goh, Michigan Technological University

3. Local Calibration for Fatigue Cracking Models Used in the Mechanistic-Empirical Pavement Design Guide

Myungook Kang, Teresa Adams, University of Wisconsin-Madison

4. The Utilization of Agriculturally Derived Lignin as an Antioxidant in Asphalt Binder

Nicolaus McCready, R. Christopher Williams, Iowa State University

5. Evaluation of Iowa Climate Data for the Mechanistic-Empirical Pavement Design Guide

Mike Heitzman, Iowa Department of Transportation

Session 1D

Traffic Engineering & Operations

(Neal Hawkins, CTRE,
Iowa State University,
Moderator)

1. Passing Activity on a Busy Recreational Road in Spain: Level and Climbing Sections

Manuel Romana Garcia, Universidad Politécnica de Madrid, Spain

2. Turnberry's Town Square, Las Vegas: Elevated Left Turn Access

Ken Ackeret, Khalil Amrikani, Molly O'Brien, Kimley-Horn and Associates, Inc.

3. A Hybrid Approach for Determining Traffic Demand in Large Development Areas

Xudong Chai, Neal Hawkins, Reginald Souleyrette, CTRE, Iowa State University

4. Traffic Flow Characteristics of a Congested Work Zone in Missouri

Reju Radhakrishnan, Ghulam Bham, University of Missouri-Rolla;
Carlos Sun, Venkat Chilukuri, University of Missouri-Columbia

5. Effect of Unmatched Longitudinal Construction Joints and Pavement Markings on Lateral Position of Vehicles

Sunanda Dissanayake, Vikranth Manepalli, Dean Landman, Gene Russell, Kansas State University

Session 1E

Transportation Planning

(Gary Taylor,
Iowa State University,
Moderator)

1. Investigation of the Impacts of Rural Development on Iowa's Secondary Road Systems

Chris Albrecht, David J. Plazak, Susan DeBlieck, CTRE, Iowa State University

2. Minnesota Trunk Highway 10 Anoka County, Business Stakeholder Involvement Process

David Plazak, Chris Albrecht, CTRE, Iowa State University;
Beth Bartz, SRF Consulting Group, Inc.;
Carolyn Braun, City of Anoka, Minnesota;
Kate Garwood, Anoka County, Minnesota

3. Routine Highway Maintenance: Relationship between Cost and Condition

Teresa Adams, David Sokolowski, Emil Juni, Kamal Kannan, University of Wisconsin-Madison

4. Privatization of Transportation Services in Developing Countries

Greg Karssen, Reginald Souleyrette, CTRE, Iowa State University

5. Critical Issues in Surface Transportation

Richard T. Romer, Orth-Rodgers and Associates, Inc.

Session 1F

Handling Snow & Ice on Roads

(Dennis Kroeger, CTRE,
Iowa State University,
Moderator)

1. Performance Measures for Snow and Ice Control Operations

Dennis Kroeger, Tom Maze, Chris Albrecht, CTRE, Iowa State University

2. Evaluation of Virtual Reality Snowplow Simulator Training

Christopher Masciocchi, Veronica Dark, Derrick Parkhurst, Iowa State University

3. Using Driving Simulators to Train Snowplow Operators: The Arizona Experience

Mary R. Kihl, Peter Wolf, Arizona State University

4. Evaluation of Multiple Blade Snowplow Designs

Sheri Anderson, Dennis Burkheimer, Jim Dowd, Tina Greenfield, Iowa Department of Transportation

Session 2A

Safety Planning & Operations

(Scott Falb,
Iowa Department of
Transportation,
Moderator)

1. Overview of the Strategic Highway Safety Planning Process

Howard Preston, CH2M Hill

2. A Clearly Defined Methodology for Analyzing the Crash History for a Given Location or Corridor

Michael Pawlovich, Tim Simodynes, Iowa Department of Transportation

3. Centerline Curbing Treatment at Railroad Crossings for Improved Safety

Gregory McKnight, Aemal Khattak, Mid-America Transportation Center, University of Nebraska-Lincoln

4. Minnesota CSAH 42: A Case Study Illustrating Traffic Signal Removal as an Access Management Strategy

David Plazak, CTRE, Iowa State University;
Howard Preston, CH2M Hill

Session 2B

Bridge Structures

(Norm McDonald,
Iowa Department of
Transportation,
Moderator)

1. Development, Testing, and Application of Precast Paving Notch

Michael LaViolette, Bridge Engineering Center, Iowa State University
Dean Bierwagen, Wayne Sunday, Iowa Department of Transportation

2. Precast, Post-Tensioned Bridge Approach Pavement

Dean Bierwagen, Mark Dunn, Iowa Department of Transportation;
David Merritt, The Transtec Group Inc.
Michael LaViolette, Brent Phares, Adam Faris, Bridge Engineering Center, Iowa State University

3. Self-Centering Bridge Piers with Structural Fuses

Mark Currie, Jon Rouse, Wayne Klaiber, Iowa State University

Session 2C

Hot Mix Asphalt & Pavement Performance

(Ed Engle,
Iowa Department of
Transportation,
Moderator)

1. Effect of Stiffness Ratio on Slippage Cracking Due to Interlayer Bonding Failure in Hot Mix Asphalt Pavement

Yusuf Mehta, Nusrat Siraj, Rowan University

2. The Effect of Loading Level and Rate in the Indirect Tensile Test

Xinjun Li, R. Christopher Williams, Iowa State University;
Mihai O. Marasteanu, University of Minnesota

3. Performance Prediction and Maintenance of Flexible Pavement

Daba Gedafa, Kansas State University

4. New Film Thickness Models for Iowa Hot Mix Asphalt

Mike Heitzman, Iowa Department of Transportation

Session 2D

ITS

(Michael Jackson,
Iowa Department of
Transportation,
Moderator)

1. Electronic Speed Feedback Signs as a Rural Community Traffic Calming Measure

Eric Fitzsimmons, Shauna Hallmark, Neal Hawkins, Jon Resler, David Plazak, CTRE, Iowa State University

2. Real-Time Traffic Operations Data Using Vehicle Probe Technology

Stan Young, University of Maryland

3. Systematic Evaluation of a Dynamic Late Merge System in Central Missouri

Ghulam Bham, Reju Radhakrishnan, University of Missouri-Rolla;
Carlos Sun, Venkat Chilukuri, University of Missouri-Columbia

Session 2E

Freight Movement & Traffic Impacts

(Jason Bittner, Wisconsin
Transportation Center,
University of
Wisconsin-Madison,
Moderator)

1. Understanding Traffic Impacts Of Large-Scale Traffic Events

Hillary N. Isebrands, Neal Hawkins, CTRE, Iowa State University

2. Building a National Freight Policy

Ernie Wittwer, Wittwer Consulting, Inc.

3. What the Public Sector Needs to Know about Logistics and Freight Management

Xiubin Wang, Jason Bittner, University of Wisconsin-Madison;
Ernie Wittwer, Wittwer Consulting, Inc.

4. Freight Planning at Small MPOs: Current Practices and Challenges

Jennifer Blonn, Christopher Dresser, Kanisa Rungjang, Jessica Guo, Teresa Adams, University of Wisconsin-Madison

Session 2F

IT & Other Applications for Weather

(Chris Albrecht, CTRE,
Iowa State University,
Moderator)

1. Utilizing Wireless Data Network for AVL and Mobile RWIS

Bob McCullough, Wonjin Kang, Michelle Leung, Purdue University;
Jay Lee, Purdue University, Calumet

2. Weather Information for Surface Transportation (WIST): Update on Weather Impacts and WIST Progress

Samuel Williamson, Frank Estis, Office of the Federal Coordinator for Meteorological Services and Supporting Research

3. Determining Practical Standing-Corn Snow Fence Configuration through the Evaluation of Drift Characteristics

Sheri Anderson, Dennis Burkheimer, Jim Dowd, Tina Greenfield, Iowa Department of Transportation

Session 3A

Speed Limits & Safety Practices

(Martha Florey,
Wisconsin Department
of Transportation,
Moderator)

1. Pavement Marking Management: Local Agency Practices

Daniel Ormand, Jon Resler, Omar Smadi, Neal Hawkins, CTRE, Iowa State University

2. An Evaluation of the Relationship between the Seat Belt Usage Rates of Front Seat Occupants and Their Drivers

Vinod Vasudevan, University of Nevada, Las Vegas Transportation Research Center;
Shashi Nambisan, CTRE, Iowa State University

3. The 70 mph Speed Limit: Speed Adaptation, Spillover and Surrogate Measures of Safety

Thomas Stout, Victor Lund, Reginald Souleyrette, CTRE, Iowa State University

4. Speed Limit-Related Issues on Gravel Roads

Litao Liu, Sunanda Dissanayake, Kansas State University

Session 3B

Bridge Material Performance

(Wayne Klaiber, CTRE
Iowa State University,
Moderator)

1. Evaluation of a Timber Bridge for the Secondary Road System using FRP Reinforced Glued-Laminated Girders

Travis Hosteng, Brent Phares, Terry Wipf, Bridge Engineering Center, Iowa State University;
Douglas Wood, Iowa State University;
Mark Nahra, Delaware County, Iowa

2. FRP Deck Bridge: Design, Construction, and Evaluation as a Temporary Bypass Structure

Travis Hosteng, Brent Phares, Bridge Engineering Center, Iowa State University;
Douglas Wood, Iowa State University

3. Design of Buchanan County, Iowa, Bridge Using Ultra High Performance Concrete and PI Girders

Brian Keierleber, Buchanan County, Iowa;
Dean Bierwagen, Iowa Department of Transportation;
Fouad Fanous, Brent Phares, Isaac Couture, Iowa State University

4. Early-Age Cracking of Structures, TxDOT's Experience

Ryan Barborak, Elizabeth Lukefahr, Texas Department of Transportation

Session 3C

Highway Condition Assessment & Cold In-Place Recycled Asphalt

(Chris Williams, CTRE,
Iowa State University,
Moderator)

1. Lessons Learned in Developing a Highway Condition Assessment and Maintenance Quality Assurance Program

Emil Juni, Teresa Adams, University of Wisconsin-Madison

2. Cold In-Place Recycling Forensic Study on U.S. Highway 34, Union County, Iowa

Mike Heitzman, Iowa Department of Transportation

3. Evaluation of Long-Term Field Performance of Cold In-Place Recycled Roads

Charles Jahren, Iowa State University;
Hosin "David" Lee, University of Iowa;
Don Chen, Ball State University;
Jungyong "Joe" Kim, Iowa Department of Transportation

4. Experiences of Developing and Validating a New Mix Design Procedure and Cold In-Place Recycling Using Foamed Asphalt

Yongjoo Kim, Hosin "David" Lee, University of Iowa;
Mike Heitzman, Iowa Department of Transportation

Session 3D

ITS & Information Management Systems

(Bob Younie,
Iowa Department of
Transportation,
Moderator)

1. Kansas Department of Transportation's Experience with Procuring Wi-Fi at Rest Areas

Stan Young, University of Maryland
Barb Blue, Kansas Department of Transportation

2. Iowa Department of Transportation's Statewide DMS Deployment Program

Willy Sorenson, Sandra Larson, Iowa Department of Transportation

3. Sign Inventory: Legacy vs. New Technology

Neal Hawkins, Omar Smadi, Zach Hans, Jon Resler, CTRE, Iowa State University

4. I-95 Corridor Mile Marker and Ramp Designation Signing

Jeffrey Konz, Carl Richey, Thomas Schnell, University of Iowa

Session 3E

Tools for System Planning & Management

(Craig O'Riley,
Iowa Department of
Transportation,
Moderator)

1. Adding Spatial Data to Existing Information Systems

Eric Abrams, Iowa Department of Transportation

2. Discussion of Iowa Department of Transportation's Linear Referencing System

Steve Kadolph, Eric Abrams, Iowa Department of Transportation

3. Scheduling Specification for the Rehabilitation and Reconstruction of I-235

Elizabeth Thoma, Cole Landau, Charles Jahren, Iowa State University

4. An Emerging Development Pressure Index for Corridor Planning

Jessica Guo, Dadit Hydayat, University of Wisconsin-Madison
David Cipra, Wisconsin Department of Transportation

Session 3F

Environment

(Mark Kerper,
Iowa Department of
Transportation,
Moderator)

1. "Smart" Data Collection: Using Custom Forms on a Handheld "Smart-Phone" to Delineate Wetlands

Scott Mattes, Howard R. Green Company

2. Cooperative Wetland Mitigation Clearinghouse

Duane Smith CTRE, Iowa State University

3. Regulatory Compliance and Ecological Performance of Mitigation Wetlands in an Agricultural Landscape

Terry VanDeWalle, Natural Resources Consulting, Inc.;
Kelly Poole, Iowa Water Center, Iowa State University;
Scott Marler, Iowa Department of Transportation;
Neil Bernstein, Mount Mercy College;
Stephen Main, David McCullough, Wartburg College;
James Miller, Eric Walsh, Iowa State University;
Franklin Olsen, Dennis Schlicht, Iowa Lepidoptera Project;
Jeffery Parmelee, Simpson College;
Thomas Rosburg, Drake University;
Martin St. Clair, Coe College;
Craig Chumbley, EarthTech, Inc.

Session 4A
**Vehicle Location
 & Safety**

(John Smythe,
 Iowa Department of
 Transportation,
 Moderator)

1. Evaluating the Effectiveness of Continuous Shoulder Rumble Strips in Reducing Ran-Off-Roadway Single-Vehicle Crashes in Nevada

Shashi Nambisan, CTRE, Iowa State University;
 Mukund Dangeti, Ashok Singh, University of Nevada-Las Vegas;
 Vinay Vanpalli, Stantec Inc.

2. Analysis of Run-Off-Road Crashes in Relation to Roadway Features and Driver Behavior

Ertan Örnek, University of Wisconsin-Madison;
 Alexander Drakopoulos, Marquette University

3. Effectiveness of Iowa's Automated Red Light Running Enforcement Programs

Eric Fitzsimmons, Shauna Hallmark, Tom McDonald, CTRE, Iowa State University

4. Effect of Concrete Pavement Surface Texture on Traffic Safety: Longitudinal or Transverse Tines?

Alex Drakopoulos, Marquette University;
 Ertan Örnek, University of Wisconsin-Madison

Session 4B
**Bridge Construction
 & Testing**

(Ahmad Abu-Hawash,
 Iowa Department of
 Transportation,
 Moderator)

1. Accelerated Construction and Innovations for the 24th Street Bridge in Council Bluffs, Iowa

Ahmad Abu-Hawash, Norm McDonald, Patricia Schwarz, Iowa Department of Transportation;
 Brent Phares, Bridge Engineering Center, Iowa State University;
 Hussein Khalil, HDR

2. Development of a Real-Time Productivity Measurement System for Bridge Replacement

Seonghoon Kim, Yong Bai, University of Kansas

3. Field and Laboratory Study of the Mn/DOT Precast Slab Span System

Matthew Smith, Whitney Eriksson, Carol Shield, Catherine French, University of Minnesota

4. Construction and Testing of an Accelerated Bridge Construction Project in Boone County

Ryan Bowers, Wayne Klaiber, Cole Landau, Iowa State University;
 Samantha Kevern, Walter P. Moore and Associates;
 Robert Kieffer, Boone County, Iowa;
 James Nelson, Iowa Department of Transportation

5. Laboratory and Field Testing of Precast Bridge Elements Used for Accelerated Construction

Vernon Wineland, Wayne Klaiber, Iowa State University;
 Tom Schoellen, Black Hawk County, Iowa

Session 4C
**Geotechnical
 & Soils**

(Halil Ceylan, CTRE,
 Iowa State University,
 Moderator)

1. Embankment Construction QC/QA using DCP and Moisture Control: Iowa Case History for Unsuitable Soils

Brett Larsen, David White, Charles Jahren, Iowa State University;
 Matthew Cushman, Terracon Consultants, Inc.

2. Seasonal Variation in the Subgrade and Base Layers of US Highway 20, Iowa

Thang Huu Phan, David White, Charles Jahren, Iowa State University

3. Development of a New Methodology Base on Conductivity Measurements to Detect Presence of Deleterious Fine Particles in Concrete Aggregate

Jose Munoz, M. Isabel Tejedor, Marc Anderson, Steven Cramer, University of Wisconsin-Madison

4. Stabilizing Granular Shoulders with Soft Foundation Soils: Iowa Case Histories

David J. White, Mohamed M. Mekkawy, Charles T. Jahren, Muhannad T. Suleiman, Iowa State University;
 Duane Smith, CTRE, Iowa State University

Session 4D

Traffic Signals & Operations

(Tony Baes,
Snyder & Associates,
Moderator)

1. Using Crash Data as a Measure of Effectiveness in Evaluating Signal Timing Optimizations along Corridors

Walter Vodrazka, Jr., Orth-Rodgers & Associates

2. Modification of Driver Behavior Based on Information from Pedestrian Countdown Timers

Brandon Bundy, Steven Schrock, University of Kansas

2. Maryland Parkway - Transit signal Priority Program

Tom Wolch, RTC-FAST, Las Vegas

3. Wisconsin Ramp Metering Operations and Implementation

Peter Rafferty, University of Wisconsin-Madison;
Marie Treazise, Wisconsin Department of Transportation

Session 4E

Planning

(Roger Larson,
Iowa Department of
Transportation,
Moderator)

1. Deploying Hybrid Electric School Buses in Iowa

Dennis Kroeger, Shauna Hallmark, CTRE, Iowa State University

2. City of Ames, Iowa, Quiet Zone Assessment

Andrew Mielke, SRF Consulting Group, Inc.

3. Review of Demand Modeling Methodologies for Air Related Transportation: An Institutional Challenge to Intermodalism

Xiubin Wang, National Center for Freight and Infrastructure Research, University of Wisconsin at Madison;
Lei Yu, Texas Southern University

Session 4F

Driver Behavior

(Nir Keren,
Iowa State University,
Moderator)

1. Focus Group Participants' Understanding of Advance Warning Arrow Displays used in Short-Term and Moving Work Zones

Chen Fei See, Steven Schrock, University of Kansas

2. Measurement of Visual Attention and Useful Field of View during Driving Tasks Using a Driving Simulator

Hidetoshi Nakayasu, Yasuhiro Seya, Konan University;
Tetsuya Miyoshi, Toyohashi Sozo University;
Nir Keren, Iowa State University;
Patrick Patterson, Texas Tech University

3. The Use of Video Feedback in Rural Teen Driving: An Intervention Study

Daniel McGehee, Mireielle Raby, Cher Carney, John Lee, Michelle Reyes, University of Iowa

4. Braking Behavior at Rural Expressway Intersections for Younger, Middle-Aged, and Older Drivers

Shan Bao, Linda Boyle, University of Iowa

Session 5A

Work Zones & Traffic

Channelization

(Jerry Roche, FHWA,
Moderator)

1. Assessment of Channelizing Device Effectiveness on High-Speed/High-Volume Roadways

Dennis Kroeger, Reginald Souleyrette, Tom McDonald, CTRE, Iowa State University

2. Determining the Effectiveness of Temporary Traffic Control Measures in Highway Work Zones

Yingfeng Li, Yong Bai, University of Kansas

3. Temporary Traffic Control and Enforcement of Traffic Laws in Closed Road Sections

Cole Landau, Kelly Strong, Iowa State University;
Tom McDonald, CTRE, Iowa State University

4. Investigating the Human Factors Involved in Severe Crashes in Highway Work Zones

Yingfeng Li, Yong Bai, University of Kansas

Session 5C

PCC Pavements & Road

Infrastructure Programs

(Kevin Merryman,
Iowa Department of
Transportation
Moderator)

1. An Overview and Update on TERRA

Laurie McGinnis, Center for Transportation Studies, University of Minnesota

2. Early-Age Smoothness Variations of Jointed Plain Concrete Pavements

Sunghwan Kim, Halil Ceylan, Kasthurirangan Gopalakrishnan, Iowa State University

3. Taking the Bang Out of Transverse Cracks: Fly Ash Slurry Injection Method

Dick McReynolds, Victoria Felker, Bill Parcels, Kansas Department of Transportation

Session 5E

Communications and Education

(Dave Plazak, CTRE,
Iowa State University,
Moderator)

1. An Interdisciplinary Approach to Transportation Education

Greg Waidley, Jason Bittner, Wisconsin Transportation Center, University of Wisconsin-Madison

2. Impact of *Go!*, an Online Magazine about Transportation, on Teens' Career Plans

Michele Regenold, CTRE, Iowa State University

3. Improving Communication on Wisconsin Department of Transportation Construction Projects

Gary Whited, University of Wisconsin-Madison;
Donald Miller, Wisconsin Department of Transportation;
Matthew Grove, Wisconsin Transportation Builders Association

Session 5F

Hydrology

(Mark Kerper,
Iowa Department of
Transportation,
Moderator)

1. Field Investigation of Hydraulic Structures Facilitating Fish Abundance and Passage through Bridges in Western Iowa Streams

Athanasios Papanicolaou, Dimitrios Dermisis, University of Iowa

2. The Effects of Headcut and Knickpoint Propagation on Bridges in Iowa

Athanasios Papanicolaou, John Thomas, University of Iowa

Symposium Program Planning Committee

Sandra Larson, Director, Research and Technology Bureau, Iowa Department of Transportation
Lowell Greimann, Interim Director, Center for Transportation Research and Education, Iowa State University

Jim Alleman, Chair, Department of Civil, Construction, and Environmental Engineering, Iowa State University

Tom Maze, Professor of Civil Engineering and Director, Midwest Transportation Consortium, Iowa State University

John Adam, Director, Statewide Operations Bureau, Iowa Department of Transportation

Steve Andrie, Senior Program Officer for SHRP II / Capacity, Transportation Research Board

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Linda Boyle, Assistant Professor of Mechanical and Industrial Engineering, Human Factors Researcher, Public Policy Center, The University of Iowa

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Carol Culver, Research Coordinator, Research and Technology Bureau, Iowa Department of Transportation

Mark Dunn, Operations Research Engineer, Research and Technology Bureau, Iowa Department of Transportation

Robert Ettema, Chair, Department of Civil Engineering, The University of Iowa

Todd Fonkert, Bremer County (Iowa) Engineer

David Forkenbrock, Professor of Urban and Regional Planning and Director, Public Policy Center, The University of Iowa

Max Grogg, Program Delivery Engineer, Federal Highway Administration–Iowa Division

Paul Hanley, Associate Professor of Urban and Regional Planning, The University of Iowa

Neal Hawkins, Associate Director of Transportation Operations and Traffic Engineering, Center for Transportation Research and Education, Iowa State University

David Johnson, Director of Pavement Research, Minnesota Department of Transportation

Gerry Kennedy, Associate Division Director, FHWA–Iowa Division

Aemal Khattak, Assistant Professor of Civil Engineering, University of Nebraska–Lincoln

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David Plazak, Associate Director for Policy, Center for Transportation Research and Education, and Education Director, Midwest Transportation Consortium, Iowa State University

Laurence Rilett, Professor of Civil Engineering and Director, Mid-America Transportation Center, University of Nebraska–Lincoln

Roger Schletzbaum, Marion County (Iowa) Engineer

Steve Schrock, Assistant Professor of Engineering, University of Kansas

Vern Schaefer, Professor of Civil, Construction, and Environmental Engineering, Iowa State University

Lee Smithson, AASHTO SICOP (Snow and Ice Pooled Fund Cooperative Program) Coordinator

Reg Souleyrette, Gerald and Audrey Olson Professor of Civil Engineering and Associate Director of Research, Center for Transportation Research and Education, Iowa State University

Tim Strauss, Associate Professor of Geography, University of Northern Iowa

Tom Welch, Traffic and Safety Engineer, Iowa Department of Transportation

Terry Wipf, Professor of Civil, Construction, and Environmental Engineering and Director, Bridge Engineering Center, Iowa State University

Partnering to Build America's
Transportation System



About the Symposium

The Mid-Continent Transportation Research Symposium provides an opportunity for transportation professionals from the Midwest and beyond to network with their peers, learn about advancements and applications in their fields, and future directions for research.

Researchers and practitioners from around the country will present papers at this sixth biennial event at Iowa State University. The day-and-a-half symposium will cover a broad spectrum of transportation issues with sessions on both basic and applied research.



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