Center for Transportation Studies

24th Annual Transportation Research Conference

May 22-23, 2013
Saint Paul, Minnesota

About the Conference
The University of Minnesota’s Center for Transportation Studies is pleased to present its 24th Annual Transportation Research Conference, May 22-23, 2013. The conference will be held at the Saint Paul RiverCentre, 175 West Kellogg Boulevard, Saint Paul, Minnesota. The conference acts as a forum for researchers and practitioners from Minnesota and the Upper Midwest to share their research findings in a variety of transportation-related areas. Concurrent sessions are focused in four categories that match the Center’s research emphasis areas – Transportation Safety and Traffic Flow, Transportation Infrastructure, Transportation and the Economy, and Transportation Planning and the Environment – with a fifth category covering Education and Outreach Issues.

Who Should Attend
• Policymakers and practitioners from state, local, regional, and national government
• Private industry and nonprofit representatives
• Faculty, staff, and students from colleges and universities

The Center for Transportation Studies
The Center for Transportation Studies was established by the University of Minnesota in 1987 as a multidisciplinary research, education, and outreach center. The mission of the Center is to be a focal point for strengthening knowledge in transportation using multidisciplinary approaches that address transportation problems. The Center develops research, education, and outreach programs that create an interactive environment for University researchers and the transportation community. As a result of these programs, the Center improves transportation decision making and assists transportation officials in anticipating and preparing for significant national, regional, and state issues.
Conference General Sessions
Transportation: Integral to Creating the Conditions for Good Health

Edward Ehlinger, commissioner, Minnesota Department of Health

Along with economic status, education, and housing, transportation is a social determinant of health—a societal factor that has an impact on health outcomes. Minnesota Commissioner of Health Edward Ehlinger will discuss the many health impacts of transportation on both the individual and community level.

Beyond the immediate health impacts of transportation-related trauma, the process of moving people from one location to another can have a huge impact on the physical, social, and cultural environment. The quality of air, soil, and water influences health and is impacted by transportation, as is the overall quality of life within a community. In addition, obesity, chronic health conditions, asthma, and mental health are affected by transportation and the behaviors it influences. Public health professionals recognize the importance of the transportation system in creating health and quality of life within communities and view individuals and organizations working in this field as part of the overall public health team.

Following Ehlinger’s presentation, a panel of experts will share their perspectives on the link between transportation and public health and its implications for transportation professionals.

New Mobility Options

Elizabeth Deakin, professor of city and regional planning, University of California, Berkeley

New mobility options—systems innovations that integrate new technologies and new ways of delivering and consuming transportation services—are being developed to address many growing transportation challenges. These options make use of new information technologies and advances in sensors, control systems, materials, and designs, as well as new approaches to developing, financing, managing, and marketing transportation services. New mobility options include carsharing and bikesharing, new forms of carpooling, smart transit and paratransit, and smart cars and highways.

Deakin will highlight how these new options improve mobility and access for users. In addition, these options can reduce costs, help shape sustainable urban development patterns, and significantly improve public health, quality of life, and the environment.
### PROGRAM AT A GLANCE

#### WEDNESDAY, MAY 22, 2013

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<tr>
<th>Time</th>
<th>Track 1: Safety and Traffic Flow Meeting Room 6</th>
<th>Track 2: Infrastructure Meeting Room 5</th>
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<td>7:30-8:30 a.m.</td>
<td>Registration and Buffet Breakfast</td>
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| 8:30-10:15 a.m.| Welcome – Laurie McGinnis, director, Center for Transportation Studies, University of Minnesota  
Transportation: Integral to Creating the Conditions for Good Health  
Edward Ehlinger, commissioner, Minnesota Department of Health |                                        |
| 10:15-10:30 a.m.| Break                                        |                                        |
| 10:30-11:45 a.m.| **Session 1**  
Ready Set Go: Traffic Signal Priority | **Session 2**  
Paving the Way to Better Roads |
| 11:45 a.m.-1:30 p.m.| Luncheon and Presentation  
Opening Comments – Charles Zelle, commissioner, Minnesota Department of Transportation  
Keynote Presentation: New Mobility Options  
Elizabeth Deakin, professor of city and regional planning, University of California, Berkeley |                                        |
| 1:30-1:45 p.m.| Break                                        |                                        |
| 1:45-3:00 p.m.| **Session 6**  
Rural Road Safety | **Session 7**  
Moving Water: Culvert Design and Bridge Scour |
| 3:00-3:15 p.m.| Break                                        |                                        |
| 3:15-4:30 p.m.| **Session 11**  
Tools for Making Intersections Safer | **Session 12**  
Roadway Maintenance Techniques |
| 4:30-5:30 p.m.| Reception with Hors d’oeuvres and Cash Bar |                                        |

#### THURSDAY, MAY 23, 2013

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<tr>
<th>Time</th>
<th>Track 1: The Safety Side: Laws, Licensing, Liability</th>
<th>Track 2: Protecting Our Air and Water</th>
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<tr>
<td>8:00-8:30 a.m.</td>
<td>Continental Breakfast</td>
<td></td>
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| 8:30-10:15 a.m.| **Session 16**  
Stayin’ Alive: Pedestrians and Crash Victims | **Session 17**  
Bridge Innovations |
| 10:15-10:30 a.m.| Break                                        |                                      |
| 10:30 a.m.-Noon| **Session 21**  
The Safety Side: Laws, Licensing, Liability | **Session 22**  
Protecting Our Air and Water |
| Noon          | Adjourn                                             |                                      |
Panelists: Bernie Arseneau, deputy commissioner and chief engineer, Minnesota Department of Transportation; Michael Huber, cardiovascular health consultant, Blue Cross and Blue Shield of Minnesota; and Carissa Schively Slotterback, associate professor, Humphrey School of Public Affairs, University of Minnesota.

<table>
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<th>Track 3: ECONOMY</th>
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**Wednesday, May 22, 2013**

**Session 3**  
Supply Chain Changes and Productivity

**Session 4**  
Transitways: Connecting Jobs and Workers

**Session 5**  
Spotlight on TZD

**Thursday, May 23, 2013**

**Session 8**  
Economic Benefits of Transportation Choice for Employers and Households

**Session 9**  
Street Smarts with Complete Streets

**Session 10**  
Corridors of Opportunity  
Innovations in Community Engagement

**Session 13**  
Understanding Minnesota’s Freight Economy

**Session 14**  
Forecasting and Travel Behavior

**Session 15**  
Media Smarts for Community Engagement

**Session 18**  
Paying for Mature Transportation

**Session 19**  
Active Transport and Public Health

**Session 20**  
Public Perceptions and Engagement

**Session 23**  
Stretching the Transportation Dollar

**Session 24**  
Performance-Based Planning

**Session 25**  
The ABCs of ADA for Local Agencies
**Program Schedule**  
**Wednesday, May 22, 2013**

7:30-8:30 a.m. – Registration and Buffet Breakfast

8:30-10:15 – Welcome  
**Grand Ballrooms A-B**  
*Laurie McGinnis*, director, Center for Transportation Studies, University of Minnesota

**Transportation: Integral to Creating the Conditions for Good Health**  
*Edward Ehlinger*, commissioner, Minnesota Department of Health

Along with economic status, education, and housing, transportation is a social determinant of health—a societal factor that has an impact on health outcomes. Minnesota Commissioner of Health Edward Ehlinger will discuss the many health impacts of transportation on both the individual and community level. Beyond the immediate health impacts of transportation-related trauma, the process of moving people from one location to another can have a huge impact on the physical, social, and cultural environment. The quality of air, soil, and water influences health and is impacted by transportation, as is the overall quality of life within a community. In addition, obesity, chronic health conditions, asthma, and mental health are affected by transportation and the behaviors it influences. Public health professionals recognize the importance of the transportation system in creating health and quality of life within communities and view individuals and organizations working in this field as part of the overall public health team.

Following Ehlinger’s presentation, a panel of experts will share their perspectives on the link between transportation and public health and its implications for transportation professionals.

10:15-10:30 – Break

10:30-11:45 – Concurrent Sessions

**1 Ready Set Go: Traffic Signal Priority**  
**Meeting Room 6**

Moderator: *Daryl Taavola*, URS Corporation

PACE’s Transit Signal Priority Program for Six County Suburban Chicagoland Area  
*Taqhi Mohammed*, PACE

Regional Transit Signal Priority Interoperability  
*Mark Pitstick*, Chicago Regional Transportation Authority

Evaluation of TSP Benefits using VISSIM and Lessons Learned  
*Ben Hao*, URS Corporation

**2 Paving the Way to Better Roads**  
**Meeting Room 5**


A Markovian Alternative to Concrete Pavement Condition Monitoring  
*Bernard Izevbekhai*, Minnesota Department of Transportation

Life Cycle Assessment of Reclaimed Asphalt Pavement to Improve Asphalt Pavement Sustainability  
*Christopher DeDene*, Department of Civil Engineering, University of Minnesota

Evaluation of In-Situ Variability of Concrete Pavement Thickness and Revised Measurement Frequency Protocol  
*Mary Vancura*, Department of Civil Engineering, University of Minnesota

**3 Supply Chain Changes and Productivity**  
**Meeting Room 4**

Moderator: *Jeremy LaCroix*, Minnesota Department of Employment and Economic Development

Transportation Economic Development Analysis (TEDA) Project – Developing a Multi-Modal, Multi-Agency Effort Promoting Statewide Economic Development and Partnerships  
*Phil Barnes*, Minnesota Department of Transportation
Frac Sand, Oil Shale and Gas, and Watershed Changes in Energy Transportation
Tom Beekman, Wisconsin Department of Transportation

Evaluation of Logistics Led Economic Development Activities
Jason Bittner, Center for Urban Transportation Research, University of South Florida

4 Transitways: Connecting Jobs and Workers
Meeting Room 3
Moderator: Will Schroeer, Minneapolis Regional and Saint Paul Area Chambers of Commerce

Both Ends of the Commute: Research on How to Achieve System-Level, Transit-Oriented Jobs-Housing Balance
Yingling Fan, Humphrey School of Public Affairs, University of Minnesota

Regional Transit System Return on Investment Assessment
Jay Cowles, The Itasca Project

5 Spotlight on TZD
Meeting Room 2
Moderator: Sue Groth, Minnesota Department of Transportation

2012 TZD Regional Evaluation Report: Findings and Lessons from Centrally Supported Grassroots Efforts to Improve Roadway Safety
Katie Fleming and Eric DeVoe, Minnesota Department of Transportation

Evaluating the Effectiveness of State Toward Zero Deaths Programs
Nam Nguyen, Humphrey School of Public Affairs, University of Minnesota

Minnesota TZD Overview and Successes
Sue Groth, Minnesota Department of Transportation

11:45-1:30 p.m. – Luncheon and Presentation
Grand Ballrooms A-B

Opening Comments
Charles Zelle, commissioner, Minnesota Department of Transportation

Keynote Presentation
New Mobility Options
Elizabeth Deakin, professor of city and regional planning, University of California, Berkeley

New mobility options—systems innovations that integrate new technologies and new ways of delivering and consuming transportation services—are being developed to address many growing transportation challenges. These options make use of new information technologies and advances in sensors, control systems, materials, and designs, as well as new approaches to developing, financing, managing, and marketing transportation services. New mobility options include carsharing and bikesharing, new forms of carpooling, smart transit and paratransit, and smart cars and highways.

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1:30-1:45 – Break
1:45-3:00 – Concurrent Sessions

6 Rural Road Safety
Meeting Room 6
Moderator: Vic Lund, St. Louis County Public Works

Update on Minnesota’s County Roadway Safety Plan
Howard Preston, CH2M HILL

Development and Evaluation of an Advanced LED Warning System for Rural Intersections: Phase 2 (ALERT 2)
Taek Kwon and Husam Ismail, Department of Electrical Engineering, University of Minnesota Duluth

Rural Intersection Conflict Warning Systems
Ken Hansen, Minnesota Department of Transportation
7 Moving Water: Culvert Design and Bridge Scour
Meeting Room 5
Moderator: Walter Eshenaur, SRF Consulting Group, Inc.

Culvert Pipe Materials and Durability: Making the Right Selection for Minnesota
Craig Taylor, St. Anthony Falls Laboratory, University of Minnesota

Fixed Scour Monitoring Implementation in Minnesota
Matthew Lueker, St. Anthony Falls Laboratory, University of Minnesota

Response of the Miller Creek Sumped Culvert with Natural Streambed during the Duluth Floods of 2012
Eric Roerish, SRF Consulting Group, Inc.; Peter Leete, Minnesota Department of Natural Resources

8 Economic Benefits of Transportation Choice for Employers and Households
Meeting Room 4
Moderator: Joan Pasiuk, Transit for Livable Communities/Bike Walk Twin Cities

Economic Benefits of Telework for Employers
Emily Saunoi-Sandgren, Humphrey School of Public Affairs, University of Minnesota

HOURCAR Program
Christopher Bineham, Neighborhood Energy Connection

Public Bike Sharing Program
Bill Dossett, Nice Ride Minnesota

Cycles for Change Community Bike Shop
Claire Stoscheck, Cycles for Change Community Bike Shop

9 Street Smarts with Complete Streets
Meeting Room 3
Moderator: Chris Hiniker, SEH, Inc.

Planning and Implementation of Complete Streets at Multiple Scales
Carissa Schively Slotterback and Cindy Zerger, Humphrey School of Public Affairs, University of Minnesota

Complete Streets – A Resource for Minnesota Local Agencies
Joni Giese, SRF Consulting Group, Inc.

NCHRP Visual Impact Assessment Study Findings
Craig Churchward, Avenue Design Partners/Scenic Quality Consultants

10 Corridors of Opportunity Innovations in Community Engagement
Meeting Room 2
Moderator: Joan Vanhala, Alliance for Metropolitan Stability

Panel Discussion on Best Practices, Successes, and Challenges of Transitway Community Engagement

3:00-3:15 – Break
3:15-4:30 – Concurrent Sessions

11 Tools for Making Intersections Safer
Meeting Room 6
Moderator: Bryan Nemeth, Bolton & Menk, Inc.

An Automatic Performance Evaluation and Diagnosis Tool for Arterial Traffic Signal Systems
Jianfeng Zheng, Department of Civil Engineering, University of Minnesota

A New Approach to Robust Non-Intrusive Traffic Detection at Intersections
Chad Stelzig, Image Sensing Systems

Kentucky’s First Double Crossover Diamond Interchange: One Year Later
Brian Aldridge, Stantec Inc.
12 Roadway Maintenance Techniques
Meeting Room 5
Moderator: Roger Olson, Minnesota Department of Transportation
Evaluation of Rapid-Hardening Cementitious Mixes for Partial Depth Repair of Rigid Pavements
Eshan Dave, Department of Civil Engineering, University of Minnesota Duluth
Evaluate and Develop Innovative Pavement Repair and Patching: Taconite-Based Repair Options – A Summary of Efforts to Date
Lawrence Zanko, Natural Resources Research Institute, University of Minnesota Duluth
Innovative Corridor Maintenance: The Trunk Highway 100 Project
Dale Dombroske, Minnesota Department of Transportation

13 Understanding Minnesota’s Freight Economy
Meeting Room 4
Moderator: Tim Spencer, Minnesota Department of Transportation
Understanding and Enhancing the Value of Freight Economy in Minnesota
Lee Munnich and Frank Douma, Humphrey School of Public Affairs, University of Minnesota
Impacts of Biofuel Production and Distribution on Minnesota Agricultural Transportation
Jerry Fruin, Department of Applied Economics, University of Minnesota
Draft Minnesota Statewide Ports and Waterways Plan
Matthew Pahs, Minnesota Department of Transportation

14 Forecasting and Travel Behavior
Meeting Room 3
Moderator: Jeffrey Peltola, Public Works for Public Good
Twin Cities Travel Behavior Inventory
Jonathan Ehrlich, Metropolitan Council
The MnDOT Bicycle and Pedestrian Counting Initiative: Progress and Opportunities
Greg Lindsey, Humphrey School of Public Affairs, University of Minnesota; Lisa Austin, Minnesota Department of Transportation
Creative Forecasting for a Complex Project – I35W North Managed Lanes Study
Paul Morris, SRF Consulting Group, Inc.

15 Media Smarts for Community Engagement
Meeting Room 2
Moderator: Michael Marti, SRF Consulting Group, Inc.
Leveraging YouTube as a LRRB Communication Tool
Renae Kuehl, SRF Consulting Group, Inc.; Farideh Amiri, Minnesota Department of Transportation
Teen Driving – Message to the Parents!
Gordy Pehrson, Minnesota Department of Public Safety
Lessons from Tweets and Likes: Metro Transit and Social Media
Sharon Feiner and John Sigveland, Metro Transit

4:30-5:30 – Reception with Hors d’oeuvres and Cash Bar
Thursday, May 23, 2013

8:00-8:30 a.m. – Continental Breakfast
8:30-10:15 – Concurrent Sessions

16 Stayin’ Alive: Pedestrians and Crash Victims
Meeting Room 6
Moderator: Tom Sohrweide, SEH Inc.
CrashHelp in Minnesota: An Innovation to Improve Traffic Crash Emergency Medical Response
Thomas Horan, Center for Excellence in Rural Safety, University of Minnesota
Ben Hao, URS Corporation
Safety Impacts and Pedestrian Accommodations in Continuous Flow Intersections
Lawrence Lambert II, Stantec Inc.
Minnesota’s Best Practices for Pedestrian Safety
Howard Preston, CH2M HILL

17 Bridge Innovations
Meeting Room 5
Moderator: Brian Homan, Minnesota Department of Transportation
Investigation and Repair of the Diefenbaker Bridge Fracture
Reed Ellis, Stantec Inc.
Monitoring and Modeling of the I-35W St. Anthony Falls Bridge
Brock Hedegaard, Department of Civil Engineering, University of Minnesota
Shear Distribution in Prestressed Concrete Girder Bridges
Ben Dymond, Department of Civil Engineering, University of Minnesota
Innovative Bridge Construction for Minnesota Local Roads
Christopher Werner, HDR Engineering, Inc.

18 Paying for Mature Transportation
Meeting Room 4
Moderator: Amy Vennewitz, Metropolitan Council
20 Years of the Twin Cities “A” Minor Arterial System: Findings from a Funding Assessment
Mary Karlsson, Metropolitan Council; Steve Peterson, SRF Consulting Group, Inc.
Rural Highway Expansion and Economic Development: Impacts on Private Earnings and Employment
Michael Iacono, Department of Civil Engineering, University of Minnesota
Findings from the Minnesota Road Fee Test
Cory Johnson, Minnesota Department of Transportation
Matching Revenue Streams to Needs
Ryan Wilson, Minnesota Department of Transportation

19 Active Transport and Public Health
Meeting Room 3
Moderator: Lance Bernard, SRF Consulting Group, Inc.
Measuring Particulate Air Pollution Using a Mobile, Bicycle-Based Platform: Implications for Cyclists’ and Pedestrians’ Exposure to Urban Air Pollution
Steve Hankey, Department of Civil Engineering, University of Minnesota
Bike Share System Growth and Physical Activity: A Case Study of Nice Ride Minnesota
Jessica Schoner, Humphrey School of Public Affairs, University of Minnesota; Nirupa Galagedera, Wayzata High School
Bike-Friendly Cities: Built Environment, Transportation Infrastructure, and Travel Attitude Impacts on Propensity and Frequency of Utilitarian Bicycling
Jessica Schoner, Humphrey School of Public Affairs, University of Minnesota
Steps for Improving Vehicle Sharing Among Transportation Providers in Minnesota
Frank Douma and Thomas Garry, Humphrey School of Public Affairs, University of Minnesota

20 Public Perceptions and Engagement
Meeting Room 2
Moderator: Kathryn Quick, Humphrey School of Public Affairs, University of Minnesota

Capital “T” Stands for “Trust”: Collaborative Outreach in Central Corridor Transit Planning
Jill Hentges and Cyndi Harper, Metro Transit; Karyssa Jackson, District Councils Collaborative of Saint Paul and Minneapolis

Communicating Among Expert and Public Perceptions of Local Road Systems Resilience in Minnesota
Kathryn Quick, Humphrey School of Public Affairs, University of Minnesota
Public Art and Urban Trails: A Case Study of Minneapolis
Rachel Engh, Humphrey School of Public Affairs, University of Minnesota
A Comparative Review of Stakeholders and LRT Development Planning
Sam O’Connell, Metro Transit

10:15-10:30 – Break
10:30-12:00 p.m. – Concurrent Sessions

21 The Safety Side: Laws, Licensing, Liability
Meeting Room 6
Moderator: Scott Peterson, Minnesota Department of Transportation

Impacts of Minnesota’s Primary Seatbelt Law
Frank Douma, Humphrey School of Public Affairs, University of Minnesota

From Children to Adults: Protecting our Adolescent Drivers – Does GDL Work in Minnesota?
Leslie Seymour, Minnesota Department of Health

Impact of Liability Rules on Rear Ending Crashes
Indrajit Chatterjee, Department of Civil Engineering, University of Minnesota

22 Protecting Our Air and Water
Meeting Room 5
Moderator: Biz Colburn

Statewide Evaluation of Soils for Improving Construction Site Discharge Through Site-Specific Chemical Treatment
Stephen Druschel, Department of Mechanical and Civil Engineering, Minnesota State University Mankato

Effluent and Material Management from Barge Work Surfaces for Large Bridge Construction: Implications for Research
Dwayne Stenlund, Minnesota Department of Transportation

Maximizing Goals for Stormwater and Forestry - an Urban Street Reconstruction Case Study
Wes Saunders-Pearce and Zach Jorgensen, City of Saint Paul

23 Stretching the Transportation Dollar
Meeting Room 4
Moderator: Lee Munnich, Humphrey School of Public Affairs, University of Minnesota

21st Century Traffic Management Tools
Brian Kary, Minnesota Department of Transportation

I-35W Urban Partnership Agreement Evaluation
Katie Turnbull, Texas A&M Transportation Institute

High Return-on-Investment Transportation Strategies
Tom O’Keefe, Minnesota Department of Transportation
24 Performance-Based Planning
Meeting Room 3
Moderator: Deanna Belden, Minnesota Department of Transportation
Conversion of the Twin Cities Transportation Policy Plan to a Performance Based Planning Methodology
Mark Filipi, Metropolitan Council
Performance Measures Related to Access Gaps - ROCOG’s Experience
Phil Wheeler, Rochester Council of Governments
Sustainable Transportation Analysis and Rating System (STARS): Creating High-Performance Transportation Plans and Projects
Tim Burkhart, Kimley-Horn and Associates
Risk Assessment in Travel Forecasts
Stephen Wilson, SRF Consulting Group, Inc.

25 The ABCs of ADA for Local Agencies
Meeting Room 2
Moderator: James Gersema, SRF Consulting Group, Inc.
Implementation of ADA Transition Plan in Sherburne County
John Menter, Sherburne County; Tim Arvidson, Stonebrook Engineering
Creating an iPad App for Field Inventory
Don Elwood, City of Minneapolis
ADA Retrofit and Construction Management: Richfield and Breckenridge, Minnesota
Tim Lamkin, HR Green; Liz Finnegan, City of Richfield

12:00 Noon – Adjourn

Professional Development Hours (PDHs)
This conference awards up to 10.5 Professional Development Hours (PDHs).

AICP Maintenance Credits
A request for 19.25 American Institute of Certified Planners (AICP) Certification Maintenance credits has been submitted for the opening plenary presentation, luncheon plenary presentation, and several conference sessions. A list of the sessions approved for credit will be posted online at http://www.cts.umn.edu/events/conference/2013 when it becomes available and will also be available at the conference registration table.

CTS Will Be Covering This Year’s Research Conference on Twitter!
You can join the conversation in three ways:
2. Go to the feed directly: http://twitter.com/#search?q=ctsresconf.
3. If you have Twitter SMS on your cellular phone or a Twitter app installed on your 3G phone, feel free to join the conversation! Just be sure to include the hashtag #ctsresconf in your post.
Mark Your Calendars

Toward Zero Deaths Conference
November 14-15, 2013
Saint Cloud River’s Edge Convention Center, Saint Cloud, Minnesota

Minnesota’s Transportation Conference
March 4-6, 2014
DoubleTree by Hilton – Bloomington
Bloomington, Minnesota

Planning Committee

Farideh Amiri, Minnesota Department of Transportation
Mary Kay Bailey, Minnesota Philanthropy Partners
Philip Barnes, Minnesota Department of Transportation
Kirby Becker, Minnesota Department of Transportation
Lowell Benson
Lynne Bly, Minnesota Department of Transportation
Ken Buckeye, Minnesota Department of Transportation
Craig Churchward, Avenue Design Partners
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Jonathan Ehrlich, Metropolitan Council
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Dale Grove, Stantec
Ken Hansen, Minnesota Department of Transportation
Jill Hentges, Metro Transit
Chris Hiniker, SEH Inc.

Michael Iacono, University of Minnesota
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Mihai Marasteanu, University of Minnesota
Michael Marti, SRF Consulting Group, Inc.
Kristy Morter, Hennepin County
Bryan Nemeth, Bolton & Menk, Inc.
Matt Oman, Braun Intertec
Jeff Peltola, Public Works for Public Good
Steve Peterson, SRF Consulting Group, Inc.
Gavin Poindexter, URS Corporation
Carol Shield, University of Minnesota
Fay Simer, Minnesota Department of Transportation
Tom Sohrweide, SEH Inc.
John Tompkins, Minnesota Department of Transportation
Members and Friends of the Education and Outreach Council

Assisted by Center for Transportation Studies staff

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