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65th Illinois Traffic Engineering and Safety Conference

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October 19-20, 2016
 iHotel & Conference Center
 1900 S. First Street
 Champaign, IL 61820



On behalf of the program planning committee and my colleagues at the University of Illinois, I'd like to welcome you to the 65th annual Traffic Engineering and Safety (TES) Conference. For decades, this conference has been the premier meeting in the Midwest region for transportation and safety professionals. It is a great place to network with colleagues and client's, discuss ideas and issues with experts, gain job-related knowledge and know-how, meet with students, and renew your sense of professional purpose.

I trust that you will enjoy the diverse array of technical presentations, agency and industry updates, interactive exhibits, the poster session, and the social events at this year's conference.

The program committee welcomes your comments and suggestions for future conferences.

Ray Benekohal, Director

University of Illinois at Urbana-Champaign
Department of Civil & Environmental Engineering

Program Committee

Bill Langheim, ISP
Chester Kropidowski, ITE
Dean Mentjes, FHWA
Lyn Warren, NHTSA Region 5
Jamal Simington, ISP
Kyle Armstrong, IDOT
Maureen Kastl, IAHE

Mehdi Nassirpour, IDOT
Michael Conoscenti, ATSSA
Michael Pedigo, IACE
Tracy Shandor, ITE
Priscilla Tobias, IDOT
Ray Benekohal, U of I/CEE

*A special thank you to Eric Wolf, ISP and Kim Kolody, CH2M for assisting the Program Committee.

10:15am **Traffic Management for the Jane Byrne Interchange-Construction, Staging, and Detour Planning**
Dan Manojlovski
Vice President
AECOM
Chicago, IL

Charles Stenzel
Principal
TranSystems
Schaumburg, IL

Matthew Daeda
Expressway Traffic Engineer
Illinois Department of Transportation
Schaumburg, IL

10:50am **Tollway Activities Update**
Paul Kovacs
Chief Engineer
Illinois Tollway
Downers Grove, IL

11:30am **Next Generation Traffic Control with Connected and Automated Vehicles**
Henry Liu
Professor, Department of Civil & Environmental Engineering at the University of Michigan
Research Professor, Transportation Research Institute - UMTRI
Ann Arbor, Michigan

12:10pm **Conference Evaluation**

12:20pm **Adjourn**

7:00am Coffee and Breakfast (Illinois Ballroom)

General Session

Location: Chancellor Ballroom
Moderator: Lieutenant Colonel Jamal Simington,
 Illinois State Police, Springfield, IL

8:00am **Traffic Management Update**

Lieutenant John Thompson
 Illinois State Police
 Springfield, IL

Sergeant Joe Hutchins
 Illinois State Police
 Springfield, IL

8:35am **Transportation Robotics**

Joshua Peschel
 Research Assistant Professor, Department of Civil
 & Environmental Engineering
 University of Illinois at Urbana-Champaign
 Urbana, IL

9:10am **Cyber and Physical Security of
 Transportation Networks**

Dan Wilcox
 Chief Information Officer
 Illinois Department of Transportation
 Springfield, IL

9:45am **Break in Exhibit Hall (Illinois Ballroom)**

General Session

Location: Chancellor Ballroom
Moderator: Darin Jones, Regional Administrator,
 NHTSA, Region 5, Chicago, IL

7:00am **Registration and Coffee/Breakfast in Exhibit
 Hall (Illinois Ballroom)**

8:50am **Welcome Remarks**

9:00am **GIS Applications**
 Jonathan Hodel
 President
 Cloudpoint Geographics, Inc.
 Peoria, IL

9:40am **New Research and Trends on Distracted Driving**

Beth Mosher
 Director of Public Affairs
 AAA
 Chicago, IL

10:20am **Break in Exhibit Hall (Illinois Ballroom)**

10:50am **IL DOT Funding Update**

Randy Blankenhorn
 Illinois Transportation Secretary
 Illinois Department of Transportation
 Springfield, IL

11:30am **USDOT Update**

Elizabeth Alicandri
 Associate Administrator for Safety
 Federal Highway Administration
 Washington, DC

12:10pm **Keynote Address and Luncheon (Illinois Ballroom)
 Connected Automation-Disruptive Transformation**

Jim Barbaresso
 National Practice Leader in AV/CV and ITS
 HNTB Corporation
 Detroit, Michigan

Safety Performance & Services

Location: Lincoln Room
Moderator: Eric Seibring, Coutry Engineer, Piatt County, Monticello, IL

Operations & Management

Location: Chancellor Room
Moderator: John Wirtz, Vice President, ITE, Illinois Section Chicago, IL

Traffic/Signal

Location: Alma Mater Room
Moderator: Kyle Armstrong Acting Engineer of Traffic Operations, Bureau of Operations, IDOT, Springfield, IL

1:45pm Road Assessment/Multiple Case Studies

Sean Coyle - Safety Technologist, CH2M, Peoria, IL
 Trooper Theodore Pappas - Illinois State Police, Chicago, IL

On Call Smart Work Zone Contract

Keith Roberts - Project Implementation Engineer, Illinois Department of Transportation, Carbondale, IL
 Matthew Daeda - Expressway Traffic Engineer Illinois Department of Transportation, Schaumburg, IL

Highway Capacity Manual Update 2016

Ray Benekohal - Professor, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

2:20pm Safety Programs under the New Reorganization

Priscilla Tobias - Director of Program Development, Illinois Department of Transportation, Springfield, IL

Managed Lanes on Freeways

Steven Schilke - Major Products Unit Head District 1, Illinois Department of Transportation, Schaumburg, IL

Effects of Intersection

Right Turn Lane Design
 Kerrie Schattler - Professor, Department of Civil Engineering & Construction, Bradley University, Peoria, IL

2:55pm

Break in Exhibit Hall (Illinois Ballroom)

3:25pm FHWA MASH Hardware Requirements

Dave Piper - Transportation Engineer, CH2M, Jacksonville, IL

Smart Work Zone Technology

Paul Lorton - Acting Chief, Bureau of Safety Programs and Engineering, Illinois Department of Transportation, Springfield, IL

The Evolution of Bike Lanes in Chicago

Bradley Topol
 Senior Engineer, T.Y. Lin International, Chicago, IL

4:00pm HSIP Application- Local Roads

Alan Ho
 Mobility and Safety Team Leader, Federal Highway Administration, Springfield, IL
 Thomas Winkelman
 Acting Local Program Development Engineer, Illinois Department of Transportation, Springfield, IL

Technologies, Challenges and Opportunities of the Trucking Industry

Don Schaefer
 Executive Vice-President, Mid-West Truckers Association, Springfield, IL

Chicago Loop Link: The Ultimate Complete System

Soliman Khudeira - Section Chief - Special Projects, CDOT-Division of Engineering, Chicago, IL

Stanley Wang - Associate Vice President, AECOM, Chicago, IL

4:35pm Keeping Workers Safe in Complex Work Zones

Michael Conoscenti - ATSSA Illinois President, Woodridge, IL

Speed Harmonization - Design Speed vs. Operating Speed

Yanfeng Ouyang - Professor, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

Adaptive Signal Control Technology Research

Kyle Armstrong - Acting Engineer of Traffic Operations, Bureau of Operations, Illinois Department of Transportation, Springfield, IL

Ray Benekohal
 Professor, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

5:10pm

Poster Session/Social Hour in Exhibit Hall (Illinois Ballroom)