



# 66th Illinois Traffic Engineering and Safety Conference

University of Illinois at Urbana-Champaign



**October 18-19, 2017**  
iHotel & Conference Center  
1900 S. First Street  
Champaign, IL 61820

# Director's Welcome



On behalf of the program planning committee and my colleagues at the University of Illinois, I'd like to welcome you to the 66th 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. We hope you enjoy our Route 66 theme that coincides with our 66th 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

Kyle Armstrong, IDOT

Ray Benekohal, UIUC/CEE

Maureen Kastl, IAHE

Bill Langheim, ISP

Dwight Lockwood, NHTSA Region 5

Paul Lorton, IDOT

Dean Mentjes, FHWA

Mehdi Nassirpour, IDOT

Michael Pedigo, IACE

John Wirtz, ITE

Eric Wolf, IPS

Julie Wrightsman, ATSSA

## Tuesday 10/17/2017

### Pre-Conference

**12:00pm - 5:00pm**

ITE Student Chapter Golf Outing  
University of Illinois Orange Course

**5:30pm - 7:30pm**

### Welcome Reception

Houlihan's @ the I Hotel

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

**General Session**

**Location:** Chancellor Ballroom  
**Moderator:** Jose Rios, Engineer of Operations,  
IDOT District 1, Schaumburg, IL

**8:50 am**      **Opening Remarks**  
Ray Benekohal  
Conference Director and Professor  
Department of Civil & Environmental Engineering  
University of Illinois at Urbana-Champaign  
Urbana, IL

**9:00 am**      **Safety Engineering Certification**  
Paul Lorton  
Bureau Chief  
Bureau of Safety Programs and Engineering  
Illinois Department of Transportation  
Springfield, IL

**9:35 am**      **Safety Culture**  
Michael T. Long  
Senior Safety & Operations Manager  
Short Line Safety Institute  
Washington D.C.

**10:05 am**      **Vehicle Technologies- The Road to Autonomy**  
Jennifer Buckman  
Safety Strategy Manager  
Ford Motor Company  
Dearborn, Michigan

**10:40 am**      **Break**

**11:00 am**      **USDOT Update**  
Michael Griffith  
Director, Office of Safety Technologies  
FHWA  
Washington, DC

**11:35 am**      **Illinois DOT Update**  
Aaron Weatherholt  
Deputy Secretary  
Illinois Department of Transportation  
Springfield, IL

**12:10 pm**      **Luncheon- Route 66**  
**Moderator:** Ray Benekohal  
Anne Haaker  
President  
Illinois Route 66 Scenic Byway  
Springfield, IL  
Geoff Ladd  
Assistant Director  
Illinois Route 66 Scenic Byway  
Springfield, IL

## Safety Performance & Services

**Location:** Lincoln Room

**Moderator:** Paul Lorton, Bureau Chief, Bureau of Safety Programs and Engineering, IDOT, Springfield, IL

## Operations & Management

**Location:** Chancellor Ballroom

**Moderator:** Joel Moore, President, Illinois Association of County Engineers, Watseka, IL

## Traffic/Signal

**Location:** Alma Mater Room

**Moderator:** Marshall Metcalf, Project Implementation Unit Chief, IDOT Bureau of Operations, Springfield, IL

### 1:45 pm Research for Pedestrian Treatments at Uncontrolled Locations

Yan Qi

Assistant Professor

Southern Illinois University at Edwardsville  
Edwardsville, IL

### Network Design under Uncertainty Using Fast Traffic Assignment Models

Hadi Meidani

Assistant Professor of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

### Reinventing Chicago Union Station

Erik Cempel

Infrastructure Planning Manager  
Chicago Union Station  
Amtrak  
Chicago, IL

### 2:20 pm I-90 Smart Road Operational Features

Scott Lee

Senior Project Manager

Parsons  
Schaumburg, IL

Amarpal Matharu

Traffic Operations Manager  
Illinois Tollway  
Downers Grove, IL

### Supplemental Notice of Proposed Amendment: Maintaining Pavement Marking Reflectivity

Kyle Armstrong

Acting Engineer of Traffic Operations  
Illinois Department of Transportation  
Springfield, IL

### Transit Signal Priority: Untangling the Interagency Coordination Web

Josh Zvolanek

Senior ITS/Traffic Engineer  
Jacobs  
Chicago, IL

### 2:55 pm

## Break in Exhibit Hall (Illinois Ballroom)

### 3:25 pm Contributing Factors to National and Regional Crash Patterns Over Recent Years

Mehdi Nassirpour

Manager of Evaluation Section, Bureau of Safety Programs and Engineering  
IDOT, Springfield, IL

Kim Kolody Silverman

Highway and Traffic Safety Practice Lead  
CH2M, Chicago, IL

### Pavement Marking Material Selection

Carmine Dwyer

Senior Engineer

Applied Research Associates, Inc.  
Champaign, IL

Jason Stergion

Epoplex  
Maple Shade, NJ

### Flashing Yellow Arrows

Randall Laninga

Traffic Engineer

Illinois Department of Transportation  
Peoria, IL

**4:00pm** **Incorporating Human Factors into Road Safety Assessment and Reviews**

Dave Piper  
Transportation Engineer  
CH2M  
Springfield, IL

**Work Zone Traffic Control-Best Practices**

Dean Mentjes  
Transportation Operations Engineer  
FHWA-Illinois Division, Springfield, IL

**ITAP-Illinois Transportation Automated Permits**

Sergeant Jeff Darko  
Illinois State Police  
Peoria, IL

Juan Pava  
Work Zone Safety Engineer, Bureau of Safety Programs and Engineering  
Illinois Department of Transportation  
Springfield, IL

Geno Koehler  
Permit Unit Chief  
Illinois Department of Transportation  
Springfield, IL

**4:35pm** **Illinois Strategic Highway Safety Plan (SHSP) Implementation**

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

**Unmanned Aircraft Systems Applications in Traffic Crash Reconstruction and IDOT Inspections**

Brian Miller  
Illinois State Police, Springfield, IL

**Strategies for Making Multimodal Urban Environments Safer**

Kim Kolody Silverman  
Highway and Traffic Safety Practice Lead  
CH2M  
Chicago, IL

Linda Schumm  
Bureau Chief, Bureau of Aviation Safety  
Illinois Department of Transportation  
Springfield, IL

Bill Viste  
Project Coordinator, Bureau of Airport Engineering, Illinois Department of Transportation, Springfield, IL

**7:00am**      **Coffee and Breakfast (Illinois Ballroom)**

**General Session**

**Location:** Chancellor Ballroom  
**Moderator:** Major Eric Wolf  
Illinois State Police  
Springfield, IL

**8:00am**      **Transportation Law Updates in Illinois**

Master Sergeant Joe Hutchins  
Illinois State Police  
Springfield, IL

Lieutenant John Thompson  
Illinois State Police  
Springfield, IL

**8:35am**      **LIDAR for Roadside Data Collection**

Mitch Caya  
Sales & Marketing Manager  
Mandli Communications, Inc.  
Fitchburg, WI

**9:10am**      **Vision Zero: Chicago's Initiative to Eliminate Severe Crashes by 2026**

Eric Hanss  
Principal Pedestrian Planner  
Chicago Department of Transportation  
Chicago, IL

**9:45am**      **Break**

**10:15am      The 5 W's of Autonomous Vehicles**

Matt McAnarney  
Assistant to the Chief of Staff  
Illinois Department of Transportation  
Springfield, IL

**10:50am      Tollway Project Updates**

Paul Kovacs  
Chief Engineering Officer  
Illinois Tollway  
Downers Grove, Illinois

**11:30am      North Lakeshore Drive with CDOT**

Kimberly Murphy  
Consultant Studies Unit Head  
Illinois Department of Transportation  
Schaumburg, IL

Nathan Roseberry  
Coordinating Engineer  
Chicago Department of Transportation  
Division of Engineering  
Chicago, IL

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