



# 67th Illinois Traffic Engineering and Safety Conference

## OCTOBER 17-18, 2018

### PRE-CONFERENCE OCTOBER 16



**I CEE AT ILLINOIS**



Illinois Department of Transportation



# DIRECTOR'S WELCOME



On behalf of the program planning committee and my colleagues at the University of Illinois, I would like to welcome you to the 67th 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 clients, 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

Kyle Armstrong, IDOT  
Ray Benekohal, U of I/CEE  
Jeffrey Birch, IACE  
Abraham Emmanuel, CDOT  
Ryan Jacox, ITE  
Maureen Kastl, IAHE

Adam Lintner, Illinois Tollway  
Dean Mentjies, FHWA  
Mehdi Nassirpour, IDOT  
Michael Pedigo, IACE  
Chris Weidler, ISP  
Julie Wrightsman, ATSSA

# TUESDAY 10/16/2018

## **PRE-CONFERENCE**

**9:00 am - 12:00 pm**

**Work Zone Traffic Impact Analysis using Work Zone Q- Pro**

**Ray Benekohal's Research Team**

**1:00 pm - 5:00 pm**

**Synchro Software Overview**  
**Christopher B. Burke Engineering, Ltd.**

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

**Welcome Gathering-Houlihan's @ the I Hotel**  
**Complimentary appetizers & soft drinks**

## 7:00 AM REGISTRATION AND COFFEE/BREAKFAST IN EXHIBIT HALL (ILLINOIS BALLROOM)

### GENERAL SESSION

**Location:** Chancellor Ballroom

**Moderator:** Maureen Kastl, Bureau Chief of Local Roads and Streets, IDOT, Springfield, IL

**9:00 am**

#### **Opening Remarks**

Ray Benekohal

Conference Director and Professor

Department of Civil & Environmental Engineering

University of Illinois at Urbana-Champaign

Urbana, IL

**9:05 am**

#### **Illinois DOT Update**

Randy Blankenhorn

Secretary

Illinois Department of Transportation

Springfield, IL

**9:40 am**

#### **Tollway Update/For Safer Roads: Give them the Distance**

Paul Kovacs

Chief Engineering Officer

Illinois Tollway

Downers Grove, IL

Steven Mednis

Incident Manager

Illinois Tollway

Downers Grove, IL

**10:20 am**

#### **Break**

**10:50 am**

#### **USDOT Update**

James Pol

Acting Director

FHWA Office of Safety Research and Development/

US Department of Transportation

Washington, DC

**11:25 am**

#### **Jane Byrne (Circle) Interchange Project Update**

Brian Kuttab

Project Manager

Illinois Department of Transportation

Schaumburg, IL

Eric Ray

Resident Engineer

Illinois Department of Transportation

Schaumburg, IL

**12:10 pm**

#### **Luncheon - Illinois Transportation Crossroads**

**to**

**Moderator:** Maureen Kastl

**1:35 pm**

Mike Matejka

Governmental Affairs Director

Great Plains Laborers District Council

Bloomington, IL

**Safety Performance & Services**

**Location:** Lincoln Room  
**Moderator:** Michael Smart, Field Engineer Manager, FHWA, IL Division, Springfield, IL

**Operations & Management**

**Location:** Alma Mater Room  
**Moderator:** David Marth, President, IACE, Greene County Engineer, Carrollton, IL

**Traffic/Signal**

**Location:** Chancellor Ballroom  
**Moderator:** Lisa Heaven-Baum, Acting Bureau Chief of Traffic Operations, IDOT, Schaumburg, IL

1:45 pm

**Advanced Technologies for preventing Work Zone Intrusions**

Gary Kinberg  
 President  
 Astro Optics PLC (LLC)  
 (a TAPCO Company)  
 Elgin, IL

**Technology and Innovation Applied to the Interstate Resurfacing Project**

Matthew A. Daeda	John Clinnin
Expressway Traffic Operations Engineer	Vice President, Director of Transportation & Infrastructure
IDOT Schaumburg, IL	Wight & Company Darien, IL

**IDOT Guidelines for Crosswalks at Uncontrolled Locations/RRFBs**

Marshall Metcalf	Kyle Armstrong
Project Implementation Unit Chief	Engineer of Traffic Operations
IDOT Springfield, IL	IDOT Springfield, IL

2:20 pm

**Effectiveness of Rumble Strips on Rural Two-lane Roads**

Kim Kolody	Mahdi Rajabi
Program Manager	Project Engineer
Jacobs Springfield, IL	Jacobs Springfield, IL

**Chicago Electronic Crash Reporting System**

Abraham Emmanuel  
 Deputy Commissioner  
 CDOT  
 Chicago, IL

**IDOT Update- Intelligent Transportation Systems Projects**

Terrence Heffron	Kevin Price
ITS Unit Manager	ITS Operations Engineer
IDOT Schaumburg, IL	IDOT Schaumburg, IL

2:55 pm

**BREAK IN EXHIBIT HALL (ILLINOIS BALLROOM)**

3:25  
pm

**Accessing and Using Roadway  
and Crash Data**

Tom Casson  
County Engineer  
Menard County Highway  
Department/IACE  
Petersburg, Illinois

Doug Keirn  
Programming Engineer  
IDOT  
Springfield, IL

**Life after the Construction  
of Innovative Intersections  
(DDI, SPUI, CGT, & RCUT)**

Carrie Nelsen  
Program Development Engineer  
IDOT  
Carbondale, IL

**Data Science and Vision Zero:  
CDOT's Predictive Multimodal  
Crash Model**

Jacqueline Henrikson  
Consultant Project Manager  
Civiltech Engineering, Inc.  
Chicago, IL

Gene Leynes  
Project Manager & Data Scientist  
Department of Innovation and  
Technology, City of Chicago  
Chicago, IL

4:00  
pm

**IDOT Fatality Reduction Task  
Force**

Allison Schmidt  
Assistant to the Director, Finance  
and Administration  
IDOT  
Springfield, IL

**Fiber Optic Network**

Doug Pershall  
Director of Business Development  
gba Systems Integrators  
Moline, IL

**Transportation Innovations in  
a Smart Cities Era**

Scott Lee  
Chief Engineer, Innovation and  
Technology  
TranSmart/EJM  
Downers Grove, IL

4:35  
pm

**Seat Belt Use a Generation  
Later (Historical  
Perspective)**

Mehdi Nassirpour  
Manager of the Evaluation  
Section  
IDOT  
Springfield, IL

**Driving in Ireland**

Dennis Bachman  
Asset Management/Pavement &  
Materials Engineer  
FHWA, IL Division  
Springfield, IL

**Engineering & Behavioral  
Approaches to Pedestrian/  
Pedalcyclist Safety**

Jon McCormick  
Safety Policy & Initiatives  
Engineer  
IDOT  
Springfield, IL

5:10  
pm

**-Poster Session and Reception-**

**7:00AM COFFEE AND BREAKFAST  
(CHANCELLOR BALLROOM HALLWAY)**

**GENERAL SESSION**

**Location:** Chancellor Ballroom  
**Moderator:** Abraham Emmanuel,  
Deputy Commissioner, CDOT, Chicago, IL

**8:10 am Transportation Law Updates in Illinois**

Master Sergeant Joe Hutchins  
Illinois State Police  
Springfield, IL

Lieutenant John Thompson  
Illinois State Police  
Springfield, IL

**9:00 am Making Streets Safer with Driving Behavior Data: Rethinking Insurance Data for DOTs**

Lauren Haynes  
Smart Cities Product Manager  
Arity  
Chicago, IL

**9:40 am Truck/Freight Updates**

Matt Hart  
Executive Director  
Illinois Truckers Association  
Springfield, IL

**10:20 am Break**

**10:40 am CMAP Presentation on the ON TO 2050 Regional Comprehensive Plan**

Jesse Elam  
Deputy Executive Director/Policy and Programming  
Chicago Metropolitan Agency for Planning  
Chicago, IL

**11:20 am Connected and Automated Vehicle  
Technology  
Transforming Mobility from the  
Ground Up**

Jerry Quandt  
Executive Director  
IL Autonomous Vehicles Association  
(ILAVA)  
Chicago, IL

**12:00 pm Evaluations & Adjourn**

## EXHIBITORS

3M  
CLOVERLEAF CORP  
ENNIS-FLINT  
IMPACT RECOVERY SYSTEMS  
PSS  
ITERIS, INC.  
JOHN THOMAS, INC.  
MS SEDCO

ZINCFIVE, INC.  
IRD (INTERNATIONAL ROAD DYNAMICS)  
ROSECRANCE CENTRAL ILLINOIS  
TRAFFIC CONTROL CORPORATION  
MOBO TREX, INC.  
TRAFFIC CONTROL PRODUCTS, INC.  
SUMMITCREST  
TRANPO INDUSTRIES, INC.  
INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION

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