

THE 97th ANNUAL ILLINOIS TRANSPORTATION AND HIGHWAY ENGINEERING CONFERENCE



UNIVERSITY OF ILLINOIS
at URBANA - CHAMPAIGN

DIRECTOR'S WELCOME



On behalf of the program planning committee and my colleagues at the University of Illinois and the Illinois Center for Transportation, I'd like to welcome you to the 97th Annual Transportation and Highway Engineering Conference! For nearly a century, this conference has been a place where transportation professionals from the public and private sector have met annually to present key accomplishments, to discuss new trends and new specifications, and to renew old friendships. I trust that you will enjoy the diverse array of technical presentations, agency and industry updates, interactive exhibits, awards presentations, and social events at this year's conference. As always, the program committee welcomes your comments and suggestions.

William G. Buttlar, THE Conference Director

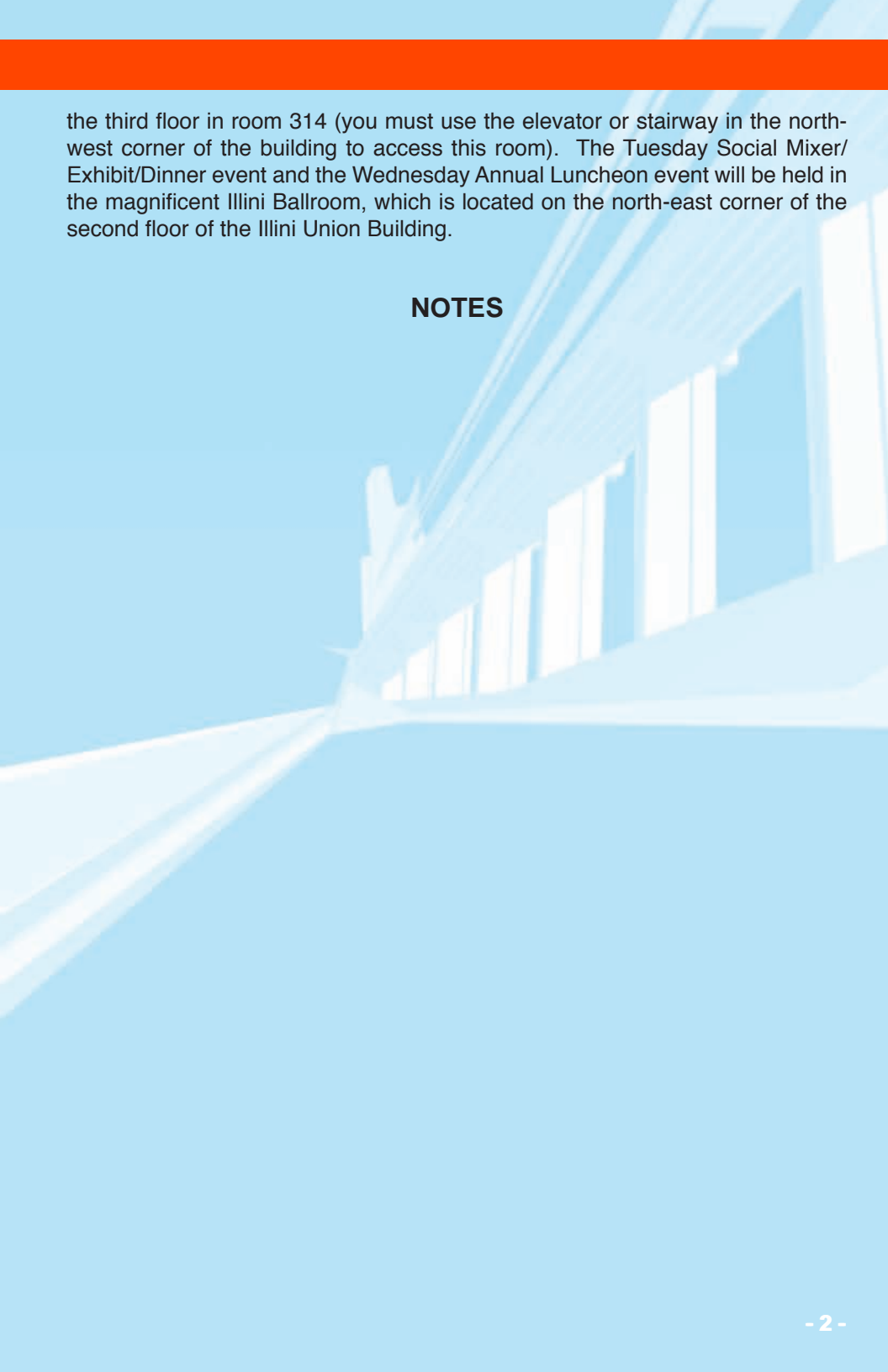
CONFERENCE VENUE

Each year (and for as long as we can remember) we have gathered at the Illini Union Building on the University of Illinois' Urbana-Champaign campus. Built in 1939, and dedicated by First Lady Eleanor Roosevelt in 1941, The Illini Union is an establishment rich in history. Modeled after colonial Virginia, most of



the interior woodwork was carved by hand including an ornate lettering above the Pine Lounge fireplace that spells 'Illini.' Not only does the interior reflect the colonial tradition but special details highlight the exterior as well. The two clock towers are topped by an 11-foot bronze weather vane that supports an 8-foot bronze arrow.

Conference registration is located in the North Lounge of the ground level of the Illini Union Building. Exhibits and conference breaks will take place in the South Lounge, and will overflow into the West Entrance. General sessions will be held in Illini Rooms A, B, and C, which are located adjacent to the registration and exhibit areas. Breakout sessions will be held in Illini Rooms A, B, and C, and on



the third floor in room 314 (you must use the elevator or stairway in the north-west corner of the building to access this room). The Tuesday Social Mixer/ Exhibit/Dinner event and the Wednesday Annual Luncheon event will be held in the magnificent Illini Ballroom, which is located on the north-east corner of the second floor of the Illini Union Building.

NOTES

GENERAL SESSION

University of Illinois, Illini Union, Illini Room, Urbana, IL

Chairperson: William Buttlar, Professor of Civil and Environmental Engineering
University of Illinois, Urbana, IL

7:30 REGISTRATION, North Lounge

EXHIBIT & Continental Breakfast, South Lounge

9:00 INTELLIDRIVE

Monique Evans
Director, Office of Safety Research and Development
Federal Highway Administration
Turner Fairbank Highway Research Center
Washington, D.C.

Jim Wright
Operations Support
AASHTO
Washington, D.C.

9:45 Illiana Expressway

Pete Harmet
Bureau Chief of Programming
IDOT District 1
Schaumburg, IL

10:25 INTERMISSION

EXHIBIT & REFRESHMENTS, South Lounge

10:40 SB-51

Bill Grunloh
Chief Procurement Officer - IDOT
Illinois Executive Ethics Commission
Springfield, IL

Don Kupferschmid
Special Assistant to the Office of the Secretary
Illinois Department of Transportation
Springfield, IL

11:20 C-U: Sharing the Road

Jennifer Selby
Civil Engineer
City of Urbana Public Works
Urbana, IL

TUESDAY, FEBRUARY 22, 2011

- 12:00 RECESS FOR LUNCH
EXHIBIT OPEN, South Lounge
- 1:30 - 4:30 TUESDAY AFTERNOON TECHNICAL BREAKOUT
SESSIONS
- 4:30 - 7:30 Exhibit / Mixer / Midwest BBQ Buffet Dinner
Illini Union, Illini Ballroom

Our sponsors and exhibitors invite you to join them for a casual evening filled with conversation, music, prizes, and delicious food and drink in the stunning Illini Union Ballroom. At this event, you will have the opportunity to...

- **Network** with colleagues and keep up with the latest industry trends...
- **Stroll** through informative **Exhibits** as you enjoy gourmet fruit, cheese and crackers throughout the evening...
- **Dine** at our Midwest BBQ **Buffet Dinner** (you won't leave hungry!), which will be served at the same venue, starting around 5:30 PM...
- **Win Big!!!** All registered THE Conference Participants present at this event will be eligible to win one of **twelve amazing door prizes!!!** The drawing will be held during the opening remarks, which will occur just before the buffet dinner.

You must be present to win.

BRIDGES AND STRUCTURES

Illini Union, Room A

Chairperson: Carl Puzey, Acting Engineer of Bridges and Structures,
IDOT, Springfield, IL

1:30 Culvert End Sections with Safety Grates in Clear Zones

Brad Cushman
Studies and Plan Squad Technician
IDOT District 2
Dixon, IL

David Greifzu
Hydraulics Unit Chief
IDOT Bureau of Bridges and Structures
Springfield, IL

2:10 FHWA Every Day Counts: Geosynthetic Reinforced Soil – Integrated Bridge Systems

Daniel Alzamora
Geotechnical Engineer
FHWA – Resource Center
Lakewood, CO

Warren Schlatter
County Engineer
Defiance County
Defiance, OH

**2:50 INTERMISSION
EXHIBIT & REFRESHMENTS, South Lounge**

3:10 NBIS Inspections Using Trimble NOMAD Devices

Peter Dombrowski
Senior Structural Engineer
RJN Group
Wheaton, IL

3:50 Compliance with the National Bridge Inspection Standards: New NBIS Metrics

Dan Brydl
Division Bridge Engineer
FHWA – Illinois Division
Springfield, IL

TRAFFIC, OPERATIONS AND MAINTENANCE

Illini Union, Room 314

Chairperson: Aaron Weatherholt, Bureau Chief,
IDOT Central Bureau of Operations, Springfield, IL

1:30 IL Supplement to the 2009 National MUTCD

Kyle Armstrong
Engineering and Standards Unit Chief
IDOT Central Bureau of Operations
Springfield, IL

Lawrence Gregg
Acting Engineer of Traffic Operations
IDOT Central Bureau of Operations
Springfield, IL

2:10 Implementation of Flashing Yellow Arrow Signals

Randy Laninga
Design and Planning Engineer
IDOT District 4 Bureau of Operations
Peoria, IL

**2:50 INTERMISSION
REFRESHMENTS, Room 314**

3:10 The Highway Safety Manual and Applications at IDOT

Dave Piper
Safety Implementation Engineer
IDOT Bureau of Safety Engineering
Springfield, IL

**3:50 SAFETEA-LU Section 1201: Real-Time System
Management**

Information Program
Chris DiPalma
Transportation Management/System Operations Engineer
FHWA - Illinois Division
Chicago, IL

LOCAL ROADS AND STREETS

Illini Union, Room C

Chairperson: Douglas R. Staske, County Engineer,
Vermilion County Highway Department, Oakwood, IL

1:30 Ultra-Thin Whitetopping

Dave Kreeger
Project Manager
Civiltech Engineering, Inc.
Itasca, IL

Mark Dachsteiner
Construction Project Manager
Baxter & Woodman, Inc.
Itasca, IL

2:10 Wind Farm Developments

Robert Lenz
Attorney at Law
Bloomington, IL

Brian Brakebill
Owner / Manager
Brian Brakebill Consulting, LLC
Bloomington, IL

**2:50 INTERMISSION
EXHIBIT & REFRESHMENTS, South Lounge**

3:10 MUTCD Changes for Pavement Markings

Kelly Morse
Analytical Lab Supervisor
IDOT Bureau of Materials and Physical Research
Springfield, IL

Kyle Armstrong
Engineering and Standards Unit Chief
IDOT Central Bureau of Operations
Springfield, IL

**3:50 Field Performance Evaluations of Illinois Aggregates for
Subgrade Replacement and Subbase**

Erol Tutumluer
Professor
University of Illinois at Urbana-Champaign
Urbana, IL

DESIGN AND CONSTRUCTION

Illini Union, Room B

Chairperson: Norman Stoner, Division Administrator,
FHWA – Illinois Division, Springfield, IL

1:30 **Mississippi River Bridge Project**
Gregory Horn
Mississippi River Bridge Project Director
Missouri Department of Transportation
St. Louis, MO

2:10 **North Chicago Wetland Mitigation Project**
Angela La Porte
Senior Environmental Planner
Illinois State Toll Highway Authority
Downers Grove, IL

2:50 **INTERMISSION**
EXHIBIT & REFRESHMENTS, South Lounge

3:10 **Elgin O'Hare-West Bypass**
Pete Harmet
Bureau Chief of Programming
IDOT District 1
Schaumburg, IL

3:50 **Safety Edge**
Mike Staggs
Engineering Team Leader
FHWA – Illinois Division
Springfield, IL

GENERAL SESSION

University of Illinois, Illini Union, Rooms B and C, Urbana, IL

Chairperson: Kevin Burke, Local Policy & Technology Engineer,
IDOT Bureau of Local Roads & Streets, Springfield, IL

7:30 EXHIBIT & Continental Breakfast, South Lounge

8:30 Diverging Diamond Interchange

Jason Salley
Geometrics Studies Unit Head
IDOT – District 1
Schaumburg, IL

Adam Lintner
Geometrics Engineer
Illinois Tollway
Chicago, IL

9:05 Illinois Center for Transportation Update

Imad Al-Qadi, Director
Illinois Center for Transportation
University of Illinois at Urbana-Champaign

**Highlighted ICT Project: Development of
Online Distance Learning Courses**

Dr. James Hall
Associate Professor
Department of Management Information Systems
University of Illinois at Springfield

Dr. William Buttlar
Professor
Department of Civil & Environmental Engineering
University of Illinois at Urbana-Champaign

9:40 AWARD PRESENTATIONS

2010 IDOT ENGINEER AND TECHNICIANS OF THE YEAR
Christine Reed, Director of Highways, IDOT, Springfield, IL

ILLINOIS ASSOCIATION OF COUNTY ENGINEERS
Carl Schoedel, President, IACE, Kane County Engineer

ILLINOIS DIVISION, FHWA
Norman R. Stoner, Illinois Division Administrator,
FHWA – IL Division, Springfield, IL

10:15 **INTERMISSION**
EXHIBIT & REFRESHMENTS, South Lounge

TRANSPORTATION PLANNING AND FUNDING PERSPECTIVES

10:35 **INDUSTRY VIEW**
Doug Whitley
President, Illinois Chamber of Commerce
Springfield, IL

11:00 **THE FEDERAL VIEW**
Victor Mendez
Administrator, Federal Highway Administration
Washington, D.C

11:25 **THE ILLINOIS VIEW**
Christine Reed
Director of Highways
Illinois Department of Transportation
Springfield, IL

12:00 **ANNUAL LUNCHEON**
Illini Union, Illini Ballroom

Price \$20.00 per plate. Tickets should be purchased at the time of registration or before noon on Tuesday, February 22.

Lunch Served

12:30 **Presiding: WILLIAM G. BUTTLAR,**
T. H. E. Conference Director

Introductions of Transportation / Highway Agency Representatives

12:40 **Balanced Transportation: Rail as The Third Leg of The Stool**
Mark Walbrun
Market Leader Transit and Rail – East Region
CH2M Hill
Chicago, IL

PARKING AND TRAVEL INFORMATION

Illini Union and the Urbana Holiday Inn

I.A.H.E. and I.A.C.E. are providing a shuttle between the Illini Union and the Urbana Holiday Inn.

Location: Illini Union circle drive located at the north entrance

Schedule:

Tuesday: 7:30 am – 9:30 am and 4:00 pm to 8:00 pm

Wednesday: 7:30 am – 9:00 am and 12:00 pm to 1:30 pm

Free Park & Ride

Illini Union and Parking Lot E-14

There is free parking in Lot E-14 (south campus) and free bus service from Parking Lot E-14 to the Illini Union. The Mass Transit District (MTD) has a free bus service, Free Park & Ride, which you can ride for free from Parking Lot E-14 to the Illini Union.

You must print and display the Parking Lot flyer (which can be found on the THE website) on the dashboard of your car for parking lot E-14. There is no overnight parking. Flyer is only valid through 2:00 am.

Parking Lot E-14 is located on the corner of St. Mary Road and First St. in Champaign, south of campus, just west of Assembly Hall. You may take a free MTD bus to campus.

Bus Schedule to Campus:

- Bus 1N Yellow to the Illini Bookstore and the Follett Bookstore, both on Wright Street every 10 minutes, leaves parking lot E-14 6:33, 6:45, 7:08, 7:38, 8:12 am, & every 10 minutes thereafter until 2:52 pm, and then :12, :22, :42, :52 minutes after the hour until 6:22 pm. Entrance to the Illini Union is approximately 1 block due east.

To return to Parking Lot E-14 from the Illini Union anytime before 9:00 pm, you may take a free MTD bus.

Bus Schedule to Parking Lot E-14:

- Bus 1S Yellow is recommended, which can be boarded at the Transit Plaza just 1 block west of the Union on the west side of Wright Street near the Illini Union Bookstore at 6:45, 7:12, 7:29 & 8:07 am, then at :17, :37, :47, :07, :17, :17, :37 minutes after the hour until 2:37 pm, then every 10 minutes at :47, :57, :07, :17, :27, :37 minutes after the hour until 6:37 pm, then at 6:53, 7:03 pm, and then every 30 minutes after the hour.
- After 6:57 pm, Bus 100S Yellow runs at 7:03 pm and then every 30 minutes after the hour at :29 and :59, until 8:59 pm.
- Please see <http://www.cumtd.com/> and look under campus routes for full details and maps.



T.H.E. CONFERENCE PROGRAM COMMITTEE

Jeffery Allen
Illinois Association of Highway Engineers
Paris, IL

Imad Al-Qadi
Illinois Center for Transportation
University of Illinois at Urbana-Champaign
Urbana, IL

Thomas Berns
Berns, Clancy & Associates
Urbana, IL

Patricia Broers
Executive Ethics Commission
Springfield, IL

Kevin Burke
Illinois Department of Transportation
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William G. Buttlar
Conference Director
University of Illinois at Urbana-Champaign
Urbana, IL

David Dratnol
Illinois Municipal League
Village of Lombard, IL

Robert Miller
Township Officials of Illinois
Crystal Lake, IL

John Peisker
Associated General Contractors of Illinois
Springfield, IL

Brian Pfeifer
Federal Highway Administration – IL Division
Springfield, IL

Douglas Staske
Illinois Association of County Engineers
Oakwood, IL

Gregory Stukel
Illinois State Toll Highway Authority
Downers Grove, IL

University of Illinois at Urbana-Champaign

Ilesanmi Adesida, Dean, College of Engineering

Amr Elnashai, Head, Department of Civil & Environmental Engineering

William Buttlar, Conference Director, Department of Civil & Environmental Engineering

Carol Czajkowski, Conference Support Staff, Department of Civil & Environmental Engineering

Illinois Department of Transportation

Gary Hannig, Secretary of Transportation

Christine Reed, Director of Highways

Illinois Association of County Engineers

Carl Schoedel, President, Kane County

Tom Klasner, Vice President, Jersey County

Bruce Bird, Secretary-Treasurer, Macon County

Public Works Section, Illinois Municipal League

Larry Frang, Executive Director, Illinois Municipal League

Mike Drey, Chairman, Public Works Committee

Township Officials of Illinois

Michael Goral, President

Bryan Smith, Executive Director

Associated General Contractors of Illinois

Holly Bailey, President

Illinois Association of Highway Engineers

Warren Norris, Chairman of the Board

Illinois Division, Federal Highway Administration

Norman Stoner, Division Administrator

Illinois Center for Transportation

Imad Al-Qadi, Director

Trachia Wilson, Outreach Coordinator

T.H.E. CONFERENCE EXHIBITION

Tuesday 7:00 am - 4:00 pm, South Lounge
Tuesday 4:00 pm - 8:00 pm, Illini Union Ballroom, 2nd Floor
Wednesday 7:00 am - 10:30 am, South Lounge

Sponsors

CH2M Hill	Jacobs Engineering
IL Assoc. of County Engineers	IL Assoc. of Highway Engineers
IL Department of Transportation	IL Center for Transportation

Exhibitors

Black-Jack Grout Pumps, Inc.	CEE Online MS Program at UIUC
Chicago Testing Laboratory, Inc.	CONTECH Construction Products
ESI Consultants, Ltd.	Fabreeka International, Inc.
Gateway Traveler Information System	HYSpan Bridge Systems
Illinois Center for Transportation	Infrastructure Engineering
LONCO, Inc.	PSC Industrial Outsourcing, LP
Rhythm Engineering	Skycomp, Inc.
TAPCO (Traffic Parking & Control)	Taylor & Francis Group
The Reinforced Earth Company	Unique Paving Materials Corp.
2IM GROUP, LLC	

All T.H.E. Conference Registrants Welcome!

