

THE



91st ANNUAL ILLINOIS

February 22 & 23, 2005
Illini Union
University of Illinois
at Urbana-Champaign

www.conferences.uiuc.edu/the

Transportation and Highway Engineering Conference

Sponsored by the

University of Illinois at Urbana-Champaign
Department of Civil and Environmental Engineering
Illinois Department of Transportation
Illinois Association of County Engineers
Public Works Section, Illinois Municipal League
Township Officials of Illinois
Associated General Contractors of Illinois
Illinois Association of Highway Engineers
Illinois Division, Federal Highway Administration



Office of Continuing Education

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T.H.E. 2005
February 22 & 23, 2005

TUESDAY
FEBRUARY 22, 2005

CONFERENCE PROGRAM

Future Conference Dates

STRUCTURAL ENGINEERING
www.conferences.uiuc.edu/structural
April 7, 2005

ILLINOIS TRAFFIC ENGINEERING AND SAFETY
www.conferences.uiuc.edu/traffic
October 20 & 21, 2005

ILLINOIS BITUMINOUS PAVING
www.conferences.uiuc.edu/bituminous
December 2005

T.H.E. 2006
www.conferences.uiuc.edu/the
February 21 & 22, 2006

T.H.E. Conference Program Committee

Robert B. Andrews
Illinois Association of County Engineers, Oakwood

Kevin Burke
Illinois Department of Transportation, Springfield

Thomas Dagley
Illinois Association of Highway Engineers, Paris

David Dratnol
Illinois Municipal League, Public Works Section, Lombard

Dale Schultz
Township Officials of Illinois, Clifton

Kevin Ward
FHWA – Illinois Division, Springfield

Tim Zahrn
Illinois Department of Transportation, Springfield

William Buttlar
Conference Director, University of Illinois at Urbana-Champaign

8:00 AM Registration and Assembly
Lobby, North Entrance, Illini Union Building

GENERAL SESSION Illini Rooms, Illini Union Building

Chairperson: William Buttlar, Associate Professor of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign

9:00 A FOCUSED APPROACH TO SAFETY: FEDERAL AND STATE PERSPECTIVES
Rudolph M. Umbs, Chief Highway Safety Engineer, FHWA, Washington, D.C.

Priscilla Tobias, State Safety Engineer, IDOT, Springfield, IL

9:40 CONTINUOUS FLOW INTERSECTIONS
Michael Bruce, ABMB Engineers, Inc., Baton Rouge, LA

10:15 INTERMISSION - REFRESHMENTS SERVED

10:30 PAVEMENT PRESERVATION: THE MINNESOTA EXPERIENCE
William Zerfas, Mn/ROAD, Office of Materials, Minnesota Department of Transportation

11:00 REBUILDING FOR ENDURING FREEDOM
Craig Johnson, Stanley Consultants, Minneapolis, MN

1st Lt. Jason Cowin, 231st Civil Engineering Flight/Task Force Coyote/FHWA – Illinois Division, Springfield, IL

12:00 RECESS FOR LUNCH

1:30-4:30 PM SUBJECT GROUP MEETINGS

Each subject listed below is scheduled for presentation and discussion with an intermission.

BRIDGES AND STRUCTURES Illini Room A, Illini Union Building

Chairperson: Ralph E. Anderson, Bureau Chief of Bridges and Structures, IDOT, Springfield, IL

1:30 PM PRELIMINARY STUDIES FOR A NEW MISSISSIPPI RIVER CROSSING FOR THE QUAD CITIES
Lidia Pilecky, Project Manager, CH2M Hill, Chicago, IL

2:10 SHORTENING AN EXISTING TRUSS SPAN OF THE I-74 ILLINOIS RIVER BRIDGE
David Morrill, Vice-President - Senior Project Manager, Alfred Benesch & Company, Chicago, IL

2:50 INTERMISSION - REFRESHMENTS SERVED

3:10 EMERGENCY RESPONSE TO A TRAIN DERAILMENT FROM A BRIDGE OVER I-57
Gregory Smothers, Operations Manager, IDOT, Carbondale, IL

3:50 EVALUATION OF THE USE OF SLIP-FORMING FOR THE CONSTRUCTION OF BRIDGE PARAPETS
Daniel Brydl, Division Bridge Engineer, FHWA, Springfield, IL

TRANSPORTATION FACILITIES DESIGN, CONSTRUCTION AND MAINTENANCE Illini Room B, Illini Union Building

Chairperson: Norman R. Stoner, Division Administrator, FHWA – Illinois Division

1:30 REDUCED CONSTRUCTION TIME THROUGH INNOVATIVE PROJECT DELIVERY
Dan Sanayi, Construction & System Preservation Engineer, FHWA, Washington, D.C.

2:10 ASSET MANAGEMENT—A COMPREHENSIVE APPROACH TO MANAGING RESOURCES AND THE TRANSPORTATION SYSTEM
Kirk T. Steudle, Chief Deputy Director, Michigan Department of Transportation

2:50 INTERMISSION - REFRESHMENTS SERVED

3:10 THE CHALLENGE OF CONNECTING THE ROAD TO THE BRIDGE
Hal Wakefield, Infrastructure and Technology Team Leader, FHWA – Illinois Division, Springfield, IL

LOCAL ROADS AND STREETS Illini Room C, Illini Union Building

Chairperson: Robert B. Andrews, County Engineer, Vermilion County

1:30 PM RETROREFLECTIVITY STANDARDS UPDATE
Mike Staggs, Mobility and Safety Team Leader, FHWA – Illinois Division, Springfield, IL

2:10 ADA TRUNCATED DOME REQUIREMENTS: INSTALLATION LESSONS LEARNED
David A. Dratnol, Village Engineer, Lombard, IL
Ed Benesh, Civil Engineering Technician

2:50 INTERMISSION - REFRESHMENTS SERVED

3:10 PAVEMENT PRESERVATION PROJECT IN FULTON COUNTY
William C. Kuhn, Fulton County Engineer, Canton, IL

3:50 SEALCOAT APPLICATIONS AND COLD MIX FOR PAVEMENT MAINTENANCE
Bill Pine, Heritage Research Group/Emulsicoat, Inc., Urbana, IL

HIGHWAY AND TRAFFIC ENGINEERING AND OPERATIONS Room 314-A, Illini Union Building (Third Floor, North Side)

Chairperson: Priscilla Tobias, State Safety Engineer, IDOT, Springfield, IL

1:30 PM FUTURE TRAFFIC PROJECTION MODEL
Rob Robinson, Office of Planning & Programming, IDOT, Springfield, IL

2:10 GIS APPLICATIONS
Cecil Renshaw, Bureau of Information Processing, IDOT, Springfield, IL

2:50 INTERMISSION - REFRESHMENTS SERVED

3:10 ILLINOIS ITS STRATEGIC PLAN AND REGIONAL ARCHITECTURES
Scott Lee and David Zavatterro, ITS Program Officers, IDOT

3:50 MEDIAN CROSSOVER CRASHES: THE PROBLEM AND THE SOLUTION
Dave Piper, IDOT, Springfield, IL

RECESS FOR THE DAY

5:00 ANNUAL FISH FRY AT ILLINOIS CONCRETE COMPANY
(Plant on North Edwin Street, Champaign)

WEDNESDAY
FEBRUARY 23, 2005

GENERAL SESSION
Illini Rooms, Illini Union Building

Chairperson: Kevin Burke,
Technology Transfer Program
Manager, Bureau of Local
Roads and Streets, IDOT,
Springfield, IL

8:30 DESIGN-BUILD

AM David Downs, President,
Downs Consulting, Inc.,
Castle Rock, CO

**9:10 IDOT TERRORISM TASK
FORCE, HOMELAND
SECURITY**

Tom Korty, Policy & Safety
Manager, Bureau of
Operations, IDOT, Springfield, IL

**9:55 AWARD PRESENTATIONS
2004 IDOT ENGINEER AND
TECHNICIANS OF THE
YEAR**

Victor A. Modeer, Director of
Highways Chief Engineer,
IDOT, Springfield, IL

**ILLINOIS ASSOCIATION OF
COUNTY ENGINEERS**

William Lorence, President,
Illinois Association of County
Engineers

ILLINOIS DIVISION FHWA

Norman R. Stoner, Division
Administrator, FHWA – Illinois
Division

10:15 INTERMISSION -

REFRESHMENTS SERVED

**TRANSPORTATION PLANNING
AND FUNDING PERSPECTIVES**

10:30 THE FEDERAL VIEW

J. Richard Capka, Deputy
Administrator, FHWA,
Washington, D.C.

11:15 THE ILLINOIS VIEW

Timothy W. Martin, Secretary
of Transportation, IDOT,
Springfield, IL

12:00 ANNUAL LUNCHEON

PM Illini Room C
Price \$16.00 per plate.
Tickets should be purchased
before noon on Tuesday,
February 22.

**12:45 INTRODUCTIONS OF
TRANSPORTATION/
HIGHWAY AGENCY
REPRESENTATIVES**

Presiding: William G. Buttler,
T.H.E. Conference Director

**FEDERAL HIGHWAY
ADMINISTRATION**

Norman R. Stoner, Illinois
Division Administrator

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

Victor A. Modeer, Director of
Highways Chief Engineer

ILLINOIS COUNTIES

William Lorence, President,
Illinois Association of County
Engineers

ILLINOIS MUNICIPALITIES

Robert D. Hotz, Chairman,
Public Works Section, Illinois
Municipal League

**TOWNSHIPS AND ROAD
DISTRICTS**

Robert E. Porter, President,
Township Commissioners
Division, Township Officials
of Illinois

**LUNCHEON
PRESENTATION:**

Andy Dallas,
magician/illusionist

**CONCLUSION OF T.H.E.
CONFERENCE FOR 2005**

T.H.E. CONFERENCE
ADMINISTRATION, 2005

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

David Daniel, Dean, College of
Engineering

Robert H. Dodds, Jr., Head,
Department of Civil &
Environmental Engineering
William Buttler, Conference
Director

Marshall Thompson, Emeritus
Professor, Past Conference
Director

**Illinois Department of
Transportation**

Timothy W. Martin, Secretary of
Transportation

Victor A. Modeer, Director of
Highways Chief Engineer

**Illinois Association of County
Engineers**

William Lorence, President,
DeKalb County

Darrell Cates, Vice President, St.
Clair County

Craig Fink, Secretary-Treasurer,
DeWitt County

**Public Works Section, Illinois
Municipal League**

Kenneth A. Alderson, Executive
Director, Illinois Municipal League

Robert D. Hotz, Chairman, Public
Works Committee

Township Officials of Illinois

Barbara M. Weyrick, President

Bryan E. Smith, Executive Director

**Associated General Contractors
of Illinois**

Steve Halverson, President

Eric Fields, Executive Director

**Illinois Association of Highway
Engineers**

Terry McCleary, Chairman of the
Board

**Illinois Division, Federal
Highway Administration**

Norman R. Stoner, Division
Administrator

**Office of Continuing Education,
University of Illinois**

James Onderdonk, Head,
Conferences & Institutes

David Ward, Program Coordinator,
T.H.E. Conference

Recommended Lodging and Parking

For lodging during the conference, please call the hotel of your choice directly to make a reservation. The planning committee recommends the Chancellor Hotel (217-352-7891, 1501 S. Neil Street, Champaign). Hawthorn Suites and the Illini Union do not have any more rooms available. The Illinois Association of Highway Engineers is sponsoring a shuttle from the Hawthorn and Chancellor to the Union. Please do not park at those hotels if you are not staying there. Other hotel options relatively close to campus include the Hampton Inn (800-426-7866) and the Historic Lincoln Hotel (800-251-1962). Free parking is available for all participants in the southeast section of Lot E-14, located west of the Assembly Hall in Champaign. Free shuttles will be available from this lot to the Union. Please see the website for detailed parking information and more hotel options.

If anyone wishes to get in touch with you at the Illini Union during the conference, have them call 217-840-0794 and leave a message.

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at Urbana-Champaign

REGISTER NOW!

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Please provide the following information. (Provide name as it should appear on name badge).

FOUR EASY WAYS TO REGISTER

1. Web registration

www.conferences.uiuc.edu/the

2. Fax registration form to

217-333-9561

(available 24 hours a day)

3. Call 217-333-2880 or

877-455-2687 to register by

phone.

4. Mail registration form and payment to

T.H.E.

Cashiering Office

University of Illinois

162 Administration Building

506 South Wright Street

Urbana, IL 61801

1. Name

2. Name

3. Name

Organization

Address

City County State

Zip Telephone () Ext.

Would you like to receive future program notifications by e-mail? Yes No

E-mail

REGISTRATION FEES

Program Fee - \$45.00 + Lunch - \$16.00 = Total Enclosed

Method of Payment: (Prepayment is required)

Check enclosed (Make checks payable to the University of Illinois)

I prefer to pay by credit card

Visa Master Card American Express Discover

Card No.

Expiration Date

Signature of card holder

V-Code

(The V-Code is the number printed in the signature box on the back of your card. Only the unique, 3 digit segment is needed.)

Please use this registration form as your invoice. You will not receive an additional bill.



Office of Continuing Education

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