



11TH ANNUAL

# STRUCTURAL ENGINEERING



CONFERENCE :: APRIL 8, 2010

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN  
ILLINI UNION :: 1401 WEST GREEN STREET, URBANA, IL

Sponsored by the University of Illinois at Urbana-Champaign  
Department of Civil and Environmental Engineering  
Office of Continuing Education

[www.conferences.illinois.edu/structural](http://www.conferences.illinois.edu/structural)

11TH ANNUAL

# STRUCTURAL ENGINEERING

CONFERENCE :: APRIL 8, 2010

All program sessions will be held at the Illini Union  
1401 West Green Street | Urbana, IL 61801  
University of Illinois at Urbana-Champaign

Sponsored by:

Department of Civil and Environmental Engineering  
Office of Continuing Education

## WHO ATTENDS?

The participants are a diverse group of engineers from local, state, and federal agencies; consulting and contracting firms; and universities. The conference is designed for professionals in structural engineering to discuss exciting new developments in the field, gain timely job-related information, network with colleagues, and renew their sense of professional purpose.

## CONFERENCE PLANNING COMMITTEE

The Conference program was developed by a distinguished group of practicing structural engineers from the Chicago, central Illinois, and St. Louis regions, in cooperation with the structural engineering faculty of the University of Illinois at Urbana-Champaign.

## CONTINUING EDUCATION CREDITS

The conference will provide 5.5 hours of credit towards the state of Illinois structural engineering license continuing education requirements. It will provide 6 PDHs for professional engineers.

## PARKING

Public metered parking is available in Garage B-4 (University and Mathews avenues), Lot B-1 (Springfield and Mathews avenues), Garage C-3 (John and Sixth streets), and Lot D-9 (Lincoln Avenue and Illinois Street) at \$0.75 per hour. Hang tags that can be used at University meters in these lots and on streets can be ordered in advance when registering. Tags ordered by March 22 will be mailed to you. After that date, you will need to pick them up at the registration desk.

## REGISTRATION FEE

The conference registration fee is **\$150 per person** and includes attendance at all program sessions, conference materials, refreshments, and lunch.

**Full-time students may attend the conference at no cost and may attend lunch for \$10.**

## REGISTRATION DEADLINE

To ensure a place in the conference, please register and send your payment by **April 1, 2010**. Payment in full must accompany your registration form. Please use the registration form as your invoice.

**Students must preregister by April 1.**

## CANCELLATION POLICY

If you register and find you cannot attend, a refund, less a \$25 processing fee will be made if you notify the Conferences & Institutes office (217-244-9687 or nsimp1@illinois.edu) by **April 1, 2010**.

**No refunds will be granted after April 1; however, substitutions are allowed.**

## HOTEL INFORMATION

Blocks of rooms have been held at the hotels listed to the right for the nights of **April 7 and 8, 2010**. Mention "Structural Engineering Conference" when making your reservation. After the rooms are released, any remaining will be offered on a space-available basis.

## I HOTEL & CONFERENCE CENTER

1900 South First Street  
Champaign, Illinois 61820  
217-819-5000

**\$129 :: single or double**

Reservations may be made online at [www.stayatthei.com](http://www.stayatthei.com) - Code is ASEC.

Complimentary parking is available at the hotel.  
Rooms released on March 7, 2010.

## HAMPTON INN

1200 West University Avenue  
Urbana, Illinois 61801  
217-337-1100

**\$89 :: single or double**

Complimentary parking is available at the hotel.  
Rooms released on March 7, 2010.

# Schedule

## MORNING SESSION

<b>8:00 AM</b>	<b>REGISTRATION AND COFFEE</b> Illini Union Rooms A and B
<b>8:50 AM</b>	<b>GENERAL SESSION</b> <b>Presiding</b> Jerome Hajjar and Daniel Abrams, conference co-chairs <i>University of Illinois at Urbana-Champaign, Urbana, Illinois</i> <b>Welcome</b> Amr Elnashai <i>Department Head, Civil and Environmental Engineering University of Illinois at Urbana-Champaign, Urbana, Illinois</i>
9:00 AM	<b>Federal Surface Transportation Program Re-Authorization and Outlook</b> Kenyon Gleason <i>American Road and Transportation Builders Association, Washington, DC</i>
9:40 AM	<b>Net Positive Energy Masdar Headquarters Building, Abu Dhabi</b> Robert Sinn, P.E., S.E. <i>Thornton Tomasetti, Chicago, Illinois</i>
<b>10:20 AM</b>	<b>BREAK</b>
10:40 AM	<b>Infinity Tower in Dubai</b> William F. Baker, P.E., S.E. <i>Skidmore, Owings &amp; Merrill LLP, Chicago, Illinois</i> Bradley Young, P.E., S.E. <i>Skidmore, Owings &amp; Merrill LLP, Chicago, Illinois</i>
11:20 AM	<b>Design and Construction of the New Dallas Cowboys Stadium</b> R. John Aniol, P.E., S.E. <i>Walter P. Moore and Associates, Inc., Dallas, Texas</i>
<b>12:00 PM</b>	<b>BOXED LUNCH</b>

## AFTERNOON SESSIONS

### CONCURRENT SESSION 1: BUILDING STRUCTURES

Presiding: Larry Fahnestock  
*University of Illinois at Urbana-Champaign*

<b>1:00 PM</b>	<b>ASCE-7 Wind Loads: Changes in 2010</b> Larry Griffis, P.E. <i>Walter P. Moore and Associates, Inc., Austin, Texas</i>
<b>1:40 PM</b>	<b>Blue Cross/Blue Shield Vertical Expansion</b> Louis Rossetti <i>Walsh Construction Co., Chicago, Illinois</i>
<b>2:20 PM</b>	<b>BREAK</b>
<b>2:40 PM</b>	<b>Russia Tower: Stability and Design</b> Carrie L. Warner, S.E. <i>Halverson and Partners, Chicago, Illinois</i>
<b>3:20 PM</b>	<b>Strut and Tie Modeling of Reinforced Concrete Structures</b> Daniel A. Kuchma, Ph.D. <i>University of Illinois at Urbana-Champaign, Urbana, Illinois</i>
<b>4:00 PM</b>	<b>ADJOURNMENT</b>

### CONCURRENT SESSION 2: BRIDGES

Presiding: Bassem Andrawes  
*University of Illinois at Urbana-Champaign*

<b>1:00 PM</b>	<b>The New I-70 Mississippi River Bridge</b> Steven T. Hague, P.E., S.E. <i>HNTB Corporation, Kansas City, Missouri</i>
<b>1:40 PM</b>	<b>The Bond Cable-Stayed Bridge – Procurement and Design Challenges</b> Patrick Cassity, P.E. <i>Parsons, Chicago, Illinois</i>
<b>2:20 PM</b>	<b>BREAK</b>
<b>2:40 PM</b>	<b>Steel Truss Gusset Plate Behavior and Design</b> Donald White, Ph.D. <i>Georgia Institute of Technology, Atlanta, Georgia</i>
<b>3:20 PM</b>	<b>Construction Considerations in the Selection and Design of Drilled Shaft Foundations for Bridges</b> Paul J. Axtell, P.E. <i>Dan Brown and Associates, PLLC, Overland Park, Kansas</i>
<b>4:00 PM</b>	<b>ADJOURNMENT</b>

WEB SITE :: Go to [www.conferences.illinois.edu/structural](http://www.conferences.illinois.edu/structural) to register online.

FAX :: Fax your registration form to **217.333.9561** (available 24 hours).

PHONE :: Call **217.244.9687** to register by phone.

MAIL :: Mail your registration form and payment to:

**Structural Engineering Conference  
Cashiering Office  
University of Illinois  
162 Administration Building  
506 South Wright Street  
Urbana, IL 61801**

## Ways to Register

REGISTRATION DEADLINE :: APRIL 1, 2010

## Registration Form PLEASE USE THIS FORM AS YOUR INVOICE.

### CONTACT INFORMATION

Please type or print name exactly as it should appear on badge

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Contact Person \_\_\_\_\_

Company/Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail\* \_\_\_\_\_

\*Your E-mail address will be used by the University of Illinois and will not be shared with others

### REGISTRATION FEES

- Regular Registration Fee: \$150     Student Lunch: \$10  
 Student Registration Fee: FREE     Parking Hang Tag: \$9 each \_\_\_\_ # of tags

**TOTAL AMOUNT DUE \$ \_\_\_\_\_**

### METHOD OF PAYMENT

- Check or money order enclosed payable to the University of Illinois  
 Please charge credit card:     Visa     MasterCard     AmEx     Discover

Card # \_\_\_\_\_

Signature \_\_\_\_\_

Exp. Date \_\_\_\_\_ V-Code ? \_\_\_\_\_

### FOR OFFICE USE ONLY

C-FOAP #1-301768-912010-305300-912391 :: INDEX 912573

TITLE: STRUCTURAL ENGINEERING 2010 :: FEIN #37-6000511

**WHAT'S THIS?** The V-Code is a 3-digit, non-embossed number printed on the upper right corner of the signature panel on the back of Visa, MasterCard, and Discover cards. On American Express, the 4-digit number is printed above the account number on the front of the card. The V-Code is recorded as an additional security precaution.