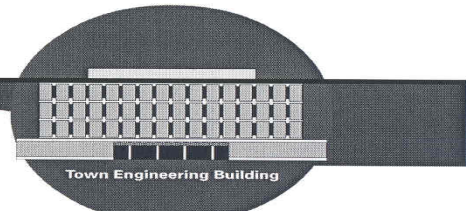


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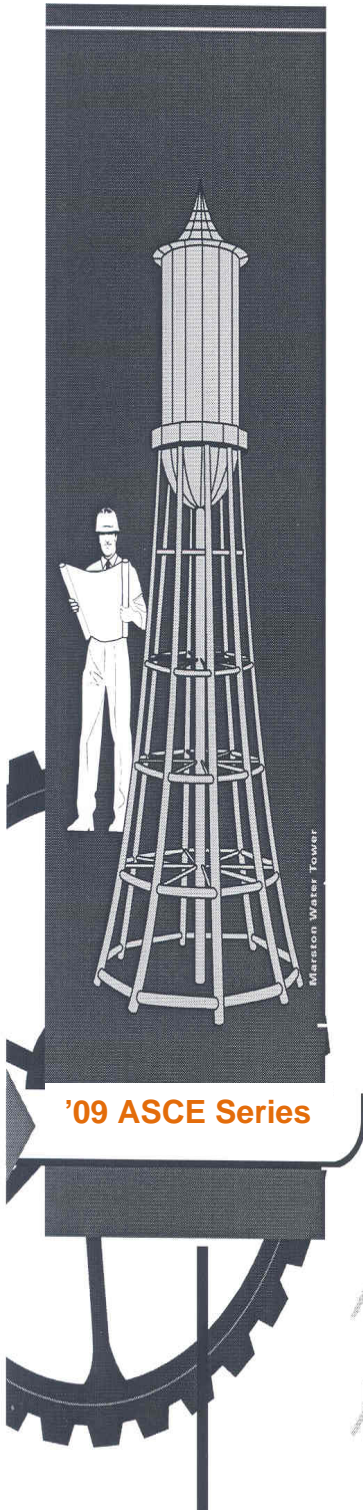
IOWA STATE UNIVERSITY  
Scheman Building • AMES, IOWA



# ASCE Structural Engineering Conference

MONDAY, NOVEMBER 2, 2009

- **Learn more about procedures for designing structural repairs from three interesting case studies.**
- **Learn more about the protocols and requirements for “special inspections” related to building construction and code compliant requirements.**
- **Update your knowledge of the special design provisions for wind and seismic (SDPWS-2008) for wood structures. Presentation includes framing and sheathing, connections, wood-frame diaphragms, wood-frame shear walls, and wood structural panels designed to resist combines shear and uplift from wind.**
- **Learn more about new admixture technology used for development and application of ultra-high performance concrete.**
- **Improve your knowledge of the design, inspection and specification of steel gusset plates for bridges during a special concurrent session on the topic. Presentation will include results from the I-35W bridge collapse as well as new research for testing. Get the latest information on inspection tips and FHWA guidelines for design and load ratings.**
- **Learn more about the design and construction of the new pedestrian bridge across the Missouri River at Omaha/Council Bluffs.**
- **Learn more about “structural condition assessments” and how they are performed. Presentation includes field inspection work, documentation, analyses/reports, business and legal issues, and several case studies.**
- **Learn more about the structural renovation of the F. Lloyd Wright “Park Hotel” in Mason City, IA.**
- **Improve your understanding of the legal and ethical issues related to structural failures and application of the “standard-of-care” principles.**



Iowa Section  
**ASCE** American Society  
of Civil Engineers

ISU Civil, Construction, and Environmental  
Engineering Extension

IOWA STATE UNIVERSITY  
University Extension

# ASCE STRUCTURAL ENGINEERING CONFERENCE

## Program Agenda

### Sunday November 1, 2009

- 6:00 p.m. Social hour for speakers and planners at Gateway Hotel  
7:00 – 9:00 Dinner for speakers and planners at Gateway Hotel

### Monday, November 2, 2009

- 7:30 a.m. Registration – Scheman Building

#### **General Session (Benton Auditorium)**

Presiding: Donita Fredricks, P.E., CBI, Des Moines, IA

- 8:30 **Structural Repairs – Three Case Studies**  
Bill Caldwell, P.E., Senior Associate, Wiss, Janney, Elstner & Associates, Inc., Lakewood, CO

- 9:15 **Special Inspections**  
Kent Dvorak, P.E., Terracon, Inc., Lenexa, KS

#### **Concurrent Session A (Benton Auditorium)**

Presiding: Donita Fredricks, P.E., CBI, Des Moines, IA

- 10:15 **AF&PA SDPWS 2008 Special Design Provisions for Wind and Seismic.**  
Greg Bundy, P.E., Simpson Strong-Tie Company, Inc., Columbus, OH.

- 11:15 **New Technologies to Improve Concrete Performance**  
Jack Gibbons, P.E., Concrete Reinforcing Steel Institute, Schaumburg, IL

#### **Concurrent Session B (Room 171)**

Presiding: Mike LaViolette, P.E., HNTB, Omaha, NE

- 10:15 **Gusset Plates – A State Bridge Engineer's Perspective.**  
Norm McDonald, P.E., Iowa DOT, Ames, IA

- 10:45 **I-35W Bridge Gusset Plate Investigation.**  
William J. Wright Ph.D., P.E., Via Dept of Civil & Environmental Engineering, Virginia Tech, Blacksburg, VA

- 11:30 **Gusset Plates – Research and Testing.**  
William J. Wright Ph.D., P.E., Via Dept of Civil & Environmental Engineering, Virginia Tech, Blacksburg, VA

- 12:00 Lunch; Presiding: Norm McDonald, P.E., Iowa DOT  
**Pedestrian Bridge @ Missouri River (Co. Bluffs/Omaha)**  
Scott Gammon, APAC Construction, Omaha, NE

#### **Concurrent Session C (Benton Auditorium)**

Presiding: Doug Weihe, P.E., S.E., Shoemaker-Haaland, Inc., Coralville, IA

- 1:15 **Structural Condition Assessment – Why? What? How?**  
Robert T. Ratay, Ph.D., P.E., Manhasset, N.Y.

- 2:15 **F. Lloyd Wright Structure Renovation & Hotel Project, Mason City, IA.**  
Chuck Saul, P.E., AIA, Charles Saul Engineering, Inc., Des Moines, IA

#### **Concurrent Session D (Room 171)**

Presiding: Norm McDonald, P.E., Iowa DOT

- 1:15 **Gusset Plate Inspections & MnDOT perspective on I-35W.**  
Jennifer L. Zink, P.E., Minnesota DOT Bridge Inspection

- 2:00 **Gusset Plate Analysis and Ratings per FHWA Guideline.**  
Mike LaViolette, P.E., HNTB, Omaha, NE

#### **Joint Session (Benton Auditorium)**

Presiding: Doug Weihe, P.E., S.E., Shoemaker-Haaland, Inc., Coralville, IA

- 3:20 **Structural Failures and Standard of Care: Legal and Ethical Issues.**  
Jeffrey W. Coleman, P.E., Coleman, Hull & van Vliet, PLLP, Minneapolis, MN  
4:30 **Adjourn**



## About ASCE

Founded in 1852, the American Society of Civil Engineers (ASCE) is committed to the advancement of the civil engineering profession and the individual engineer. ASCE acts as a forum for communication among individuals and groups involved in the practice of civil engineering. ASCE also offers a variety of professional development opportunities to members of the profession.

The Iowa Section of ASCE, founded in 1920, exists so that Iowa civil engineers and associates may group together locally for their mutual benefit and professional advancement. Marlee Walton, P.E., is the current president of the Iowa Section.

## Who Should Attend

If you are involved in the planning, design, or construction of buildings, bridges, or other transportation structures, you should plan to attend this conference. The conference is designed to be of interest to engineers and technicians, public and private, who work in the structural engineering design and construction area. The conference provides a variety of topics related to advances in structural materials, case studies of structural design projects, design guidelines and codes for building and transportation structures, sustainable design protocols, legal implications in design and construction contract documents, and managing and leading design teams. The planning committee strives to present a program that will be of interest to you directly, in your work, or in your community development projects. Learn from the experiences of other engineers in the structural engineering field by attending.

## Conference Planning Committee

**Norm McDonald, P.E.**, Iowa DOT, Chair  
**Karen Kontos, P.E.**, Iowa DOT  
**Richard Berndt, P.E.**, Shive-Hattery, Inc.  
**Fouad Fanous, P.E.**, ISU/CCEE  
**Jon Fussell, P.E.**, City of Des Moines, IA  
**Donita Fredricks, P.E.**, CB&I, Des Moines  
**Stephen Jones, P.E.**, ISU/CCEE Extension  
**Jeff Butler, P.E.**, Iowa Prestressed Concrete, Inc  
**Doug Weihe, P.E.**, Shoemaker and Haaland, Coralville, IA  
**Wayne A. Sunday, P.E.**, Iowa DOT  
**Mike Vander Wert, P.E.**, Calhoun Burns & Assoc., Inc.  
**Wayne Klaiber, P.E.**, ISU/CCEE  
**Mike Laviolette, P.E.**, HNTB Corporation, Omaha, NE

## Professional Development

This conference has been planned in accordance with the criteria established by the ISBELSE for professional development hours (PDH's).

## Tax Deduction

The expense of continuing education, when taken to maintain and improve professional skills is tax deductible. Contact your accountant for details.

## Registration

The registration fee for the 2009 ASCE Structural Engineering Conference is \$175 for ASCE members and \$200 for non-members who register on or before October 28. Registration is \$190 for ASCE members and \$215 after October 28.

You may register on-line at [www.cepd.iastate.edu/events](http://www.cepd.iastate.edu/events) and clicking on "ASCE Structural Conference" in the alphabetized list. Or mail a completed registration with payment to the address indicated on the form. You may also register by fax by calling 515/294-6223. Your registration fee includes all program materials, lunch, and all refreshment breaks.

## Change in Plans?

If you cannot attend the conference, you may send a substitute. Your registration fee will be refunded less a \$25 cancellation fee if you cancel your registration on or before October 28, 2009. No refunds after October 28. Call ISU Continuing Education & Professional Development (515) 294-6222.

## Directions and Parking

Ames is easily accessed by U.S. Highways 30 and 69, as well as I-35. The Scheman Building is located in the Iowa State Center on the Iowa State University campus. From Interstate 35, take U.S. Highway 30 west into Ames. Take the University Boulevard exit and go north past Jack Trice Stadium. The Scheman Building is located between the Hilton Coliseum and the C.Y. Stephens Auditorium. Free parking is available surrounding the Scheman Building.

## Lodging

Individuals are responsible for their own individual lodging requirements. A list of area motels is included below.

Americinn and Suites	(515) 233-1005
Best Western-University Park	(515) 296-2500
Comfort Inn	(515) 232-0689
Country Inn and Suites	(515) 233-3935
Days Inn	(515) 232-0280
Fairfield Inn	(515) 232-4000
Hilton Garden Inn	(515) 233-8000
Holiday Inn	(515) 268-8808
Gateway Hotel & Conference Center	(800) 367-2637
Grandstay Residential Suites	(800) 388-7829
Hampton Inn	(515) 239-9999
Heartland Inn	(800) 334-3277
Holiday Inn	(515) 268-8808
Holiday Inn Express Hotel	(515) 232-2300
Iowa State Memorial Union	(515) 292-1111
Microtel Inn	(515) 233-4444
Quality Inn at Starlight Village	(800) 903-0009
Super 8 Motel	(800) 800-8000

## For More Information

For questions about program content, contact Stephen Jones at 515-294-3957, or e-mail at [sejones@iastate.edu](mailto:sejones@iastate.edu). For registration questions, call Continuing Education & Professional Development (515) 294-6222 or e-mail [cepd-info@iastate.edu](mailto:cepd-info@iastate.edu).

**ASCE Structural Engineering Conference**  
*November 2, 2009 – Scheman Building in Ames*

10-2024

**Registration Information:** \*       Mr.    Ms.    Mrs.    Dr.                       Female    Male

First Name _____	Middle Name (Initial) _____	Last Name _____
Company/Affiliation _____	Day Phone _____	
E-mail _____	Fax Number _____	
Mailing Address _____		
City _____	State _____	Zip Code _____
		Iowa County _____

**Conference Registration:**

*Conference registration fee includes all program materials, lunch, and refreshment breaks. Cancel by October 28 to receive a refund less at \$25 processing fee. No refunds after October 28.*

	<b>on/before 10/28</b>	<b>after 10/28</b>
ASCE Member - Registration Fee	<input type="checkbox"/> \$175.00	<input type="checkbox"/> \$200.00
Non-member Registration Fee	<input type="checkbox"/> \$190.00	<input type="checkbox"/> \$215.00
Total	\$ _____	\$ _____

I have special dietary needs and/or need accommodations for a disability:

**It's easy to register!**

**On-line:**

[www.cepd.iastate.edu/events](http://www.cepd.iastate.edu/events)  
*(Click on ASCE Structural Conference)*

**Mail:**

Continuing Education &  
 Professional Development  
 Iowa State University  
 102 Scheman Building  
 Ames, IA 50011

**Fax: (515) 294-6223**

**Phone: (515) 294-6222**

**Method of Payment:**

**Check (Payable to Iowa State University)**

**Credit Card**     **Visa**         **MasterCard**         **Discover**  
 Card Number \_\_\_\_\_ Exp. Date \_\_\_\_/\_\_\_\_

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Telephone/Fax: \_\_\_\_\_

*\* Iowa State University requests this information to pre-register you for a conference. No one outside the university, with the exception of participants in this conference, is routinely provided this information. If you fail to provide the required information, we cannot promise accurate registration.*

*(Reference: Iowa Code, Chapter 22.11; Iowa Fair Information Practices Act)*

**Office Use Only**

**(Only one registration per form – Duplicate for additional registrations)**