

# KEYNOTE SESSIONS

## Structural Engineers' BUILDINGS CONFERENCE & EXPO

### WHAT

Presented by *Structural Engineer* magazine, the Structural Engineers' Buildings Conference & Expo is the only annual conference to focus simultaneously on the most up-to-date technical issues in the successful completion of buildings, and the necessary management issues to increase your business expertise.

The conference program is focused on the most timely and important topics to today's structural engineer, including learning sessions on virtual building tools, technical design and analysis, the latest codes and guidelines, risk and liability issues, market opportunity, as well as project management and business strategies.

### 2009 Conference Themes

- **Market Opportunities:** Finding the Bright Spots in a Down Economy
- **Retooling Your Business:** Examining Your Strengths and Expanding Services
- **Business Management:** Effective Leadership and Strategic Business Planning
- **Technical Innovation:** Cutting-Edge Building Design Techniques and Tools

### WHEN

THURSDAY, November 5th and FRIDAY, November 6th, 2009

### WHERE

swissôtel CHICAGO

323 E Wacker Dr.  
Chicago, IL 606011  
(312) 565-0565

### CONFERENCE CHAIRMAN

Charles H. Thornton, PhD, PE, Chairman & CEO, Charles H. Thornton & Company and Founding Principal, Thornton Tomasetti

### WHO WILL BE THERE

This conference program has been designed expressly for owners, CEOs, presidents, COOs, developers, contractors, building code officials, principals, project managers, senior engineers, and design engineers at all organizations responsible for the nation's buildings.

### WHAT'S INCLUDED

Your conference registration fee includes two days of inspiring keynote speakers and intensive learning sessions, breakfasts, luncheons, refreshments, a cocktail reception, and unlimited networking with leaders from some of the most successful firms in the industry.

### CONTINUING EDUCATION

Attendees at the Structural Engineers' Buildings Conference & Expo will receive a certificate of attendance indicating the total number of Professional Development Hours (PDHs) received (maximum of 10). Attendees may submit this certificate to their respective state agencies for professional credits; however, each state differs and some states may not accept this certificate. Please inquire with your state licensing body for questions regarding eligibility.

### PRODUCED BY

**Stagnito** MEDIA Stagnito Media provides valuable and timely information to industry professionals through magazines, electronic newsletters, and special events. AEC professionals use this information to grow their businesses, make better decisions about methods and equipment, increase their value to their firms, and to get a leg up on the competition. Visit us on the web at [www.stagnitomedia.com](http://www.stagnitomedia.com).

### PRESENTED BY

**Structural Engineer**

### SPONSORED BY

**Autodesk**

**SDS/2**  
DESIGN DATA

### IN ASSOCIATION WITH



### AGENDA AT A GLANCE

THURSDAY, November 5, 2009

7:30—8:15am  
Conference Check-in & Continental Breakfast

8:15—8:30am  
Welcome & Introduction  
Charles H. Thornton, PhD, PE, Chairman & CEO, Charles H. Thornton & Company and Founding Principal, Thornton Tomasetti

8:30—9:15am  
**KEYNOTE SESSION**  
**2010 - 2011 Building Industry Outlook: Gradual Return to Expansion**  
Jim Haughey, Director of Economics, Reed Construction Data

9:15—9:45am  
**KEYNOTE SESSION**  
Executive Response Panel

9:45—10:15am  
Networking Break

10:15—11:15am  
**CONCURRENT FOCUS SESSIONS**  
**Building Better Projects and Client Relationships using Integrated BIM and IPD**  
David J. Odeh, P.E., SECB, Principal, Odeh Engineers, Inc.

**Seismic Moment Frames in AISC 341 and AISC 358**  
Amanuel Gebremeskel, Senior Engineer, Technical Assistance, American Institute of Steel Construction (AISC)

**Durability of Post-Tensioned Parking Structures in Corrosive Environments**  
Rashid Ahmed, PE, Walker Parking Consultants

11:15—11:30am  
Networking Break

11:30am—12:30pm  
**CONCURRENT FOCUS SESSIONS**  
**Diversification: Developing the Right Service Make-up for Your Firm**  
Chris D. Poland, Chairman & CEO, Degenkolb Engineers

**Green Concrete: Coupling Design with Formwork for Greater Sustainability**  
Martin Maingot, PE, SE, Associate, Cary Kopczynski & Company (CKC)

**Better Communication Between the EOR and Joist Manufacturer: Codes and Specifications, Loads and Drawings**  
Perry S. Green, PhD, Technical Director, Steel Joist Institute and Tim Holtermann, PE, Corporate Engineering Manager, Canam Steel Corp.

12:30—1:45pm  
Networking Luncheon (Sponsored by **Autodesk**)

1:45—2:30pm  
**SPECIAL KEYNOTE SESSION**  
**Local Spotlight: Chicago Spire**  
Joseph Burns, PE, SE, FAIA, LEED® AP, Managing Principal, Thornton Tomasetti

2:30—3:00pm  
Networking Break

3:00—4:00pm  
**CONCURRENT FOCUS SESSIONS**  
**The 10 Foundations of Risk Management**  
Doug Ashcraft, Principal, Walter P Moore

**State of the Industry: An Overview of Structural Engineering Design Technology Today**  
Brian Quinn, PE, Founder and Lisa Willard, PE, Vice President, SE Solutions, LLC

### CONCURRENT FOCUS SESSIONS CONTINUED...

**Roundtable Discussion – Integrated Design: Expanding Leadership Opportunities for Structural Engineers**  
Facilitator: Jennifer Goupil, PE, Editor, *Structural Engineer*

4:00—4:15pm  
Networking Break

4:15—5:15pm  
**CONCURRENT FOCUS SESSIONS**  
**Re-Innovating the Engineering Firm: Finding Purpose, Passion, and Performance in the New Economy**  
John D. Doehring Jr, Senior Vice President, Strategy and Financial Advisory Services, ZweigWhite

**The Legal Implications of IPD and BIM: Contractual and Other Means to Secure the Best Result Using the New Project Delivery Methods**  
Jeffrey Alitz, Attorney, LeClairRyan and Brian Donnell, Attorney, LeClairRyan

6:30—7:30pm  
Networking Cocktail Reception

### FRIDAY, November 6, 2009

7:30—8:30am  
Continental Breakfast

8:30—8:45am  
Welcome to Day Two  
Charles H. Thornton, PhD, PE, Chairman & CEO, Charles H. Thornton & Company and Founding Principal, Thornton Tomasetti

8:45—9:30am  
**KEYNOTE SESSION**  
**Creating New Architecture: Studies in Structural Topology**  
William F. Baker, SE, CE, PE, FASCE, FStructE, Structural and Civil Engineering Partner, Skidmore, Owings & Merrill LLP (SOM)

9:30—10:00am  
Networking Break

10:00—11:00am  
**CONCURRENT FOCUS SESSIONS**  
**Significant Structural Changes to the 2009 IBC**  
John R. Henry, P.E., Principal Staff Engineer, International Code Council (ICC)

**Diaphragms for Seismic Loading**  
Rafael Sabelli, SE, Director, Seismic Design and Brian Dean, LEED AP, Graduate Engineer, both of Walter P Moore

**Diversity and the Workplace: How to Leverage the Strength of Women for Your Firm**  
Jean L. Cowell, PE, SE, Owner and Managing Principal, Cowell Engineering LLC

11:00—11:15am  
Networking Break

11:15am—12:00pm  
**KEYNOTE SESSION**  
**Structural Engineers: Leaders Running Things**  
Richard G. Weingardt, Chairman, Richard Weingardt Consultants, Inc.

12:00—12:15pm  
Closing Comments – Main Conference Program Concludes  
Charles H. Thornton, PhD, PE, Chairman & CEO, Charles H. Thornton & Company and Founding Principal, Thornton Tomasetti

12:15pm—1:30pm  
Solution Provider Luncheon  
Please visit [www.SEBuildings.com](http://www.SEBuildings.com) for complete session information.

### 2010 - 2011 Building Industry Outlook: Gradual Return to Expansion

Jim Haughey, Director of Economics, Reed Construction Data



This session will provide an overview of the current depressed state of the nonresidential building market and a forecast of market trends for the balance of the recession and the following two years of gradual recovery. The presentation will include detailed data for major types of buildings for the value of both construction starts and jobsite construction spending. The tracking and forecast data will highlight varying trends among regions of the country. The session will also include a review and forecast of significant cost trends for structural materials.

### Executive Response Panel

Moderator: Charles H. Thornton, PhD, PE, Chairman & CEO, Charles H. Thornton & Company and Founding Principal, Thornton Tomasetti



A panel of CEOs and senior executives will respond to the Building Industry Outlook and Market Forecast session with their take on the market, regulations, opportunities, customers, and internal challenges. Discussion topics will include budgets, service make-ups, entering new markets, diversification strategies, the federal stimulus package and what it means to your business, declining property markets, effects of the recession, and what long-term adjustments may be required with the current market conditions.

### Creating New Architecture: Studies in Structural Topology

William F. Baker, SE, CE, PE, FASCE, FStructE, Structural and Civil Engineering Partner, Skidmore, Owings & Merrill LLP (SOM)



Optimal structural topologies — shapes and systems — represent a new frontier in architecture and set a new standard to which we can compare the performance of existing and future structures. Years of in-house research — and inspiration from the century-old concepts derived from A.G.M. Michell — has led SOM's structural engineers to hone several tools for optimization of structural shapes and systems enabling them to develop efficient structural-architectural topologies. This keynote session will explore the ways in which these studies can be applied to create new architecture for projects ranging from small buildings to high-rise towers and long span roofs.

### Local Spotlight: Chicago Spire

Joseph Burns, PE, SE, FAIA, LEED® AP, Managing Principal, Thornton Tomasetti



This special local spotlight session will look at the Chicago Spire project. The Chicago Spire has a very innovative structural system that is a true integration of architecture and engineering. Santiago Calatrava is the design architect and engineer, and Thornton Tomasetti is the structural engineer of record. The spiral shape of the tower is ideal for improved wind performance and the composite structural frame has optimized the use of a concrete core and steel framing for one of the most significant tall buildings of this century. A unique circular outrigger system, that does not require thru core struts, and the use of high strength concrete all contribute to the feasibility of this future landmark. The engineering analysis included a sequential construction analysis of the building with time dependent material properties to account for the effects of elastic shortening, creep and shrinkage of the concrete.

### Structural Engineers: Leaders Running Things

Richard G. Weingardt, Chairman, Richard Weingardt Consultants, Inc.



Today's world, increasingly dependent on engineering and technology, requires that public, industry, and community leaders understand the complexities and nuances of both. This situation, coupled with the ever-present volatility of global marketplaces and roller-coaster-like economies — plus, an exploding world population, and infrastructure and environmental concerns — demands that honest pragmatic thinkers be in positions of high leadership and authority. As professionals having such qualities, more engineers need to step forward and be heard — and get meaningfully involved in setting public policy and direction. This closing keynote session will discuss how this can be accomplished and why it's significant that structural engineers "run things not just make things run," within and beyond engineering.

Visit our website at [www.SEBuildings.com](http://www.SEBuildings.com) to view complete program session descriptions.

# Structural Engineers' BUILDINGS CONFERENCE & EXPO

NOVEMBER 5-6, 2009 SWISSÔTEL CHICAGO, IL

## ATTENDEE PRICING

|  |           |
|--|-----------|
| FIRST ATTENDEE: \$895<br><i>(\$795 if registered and paid before October 5)</i>                      | \$        |
| ADDITIONAL ATTENDEES FROM SAME FIRM: \$495<br><i>(\$395 if registered and paid before October 5)</i> | \$        |
| <b>TOTAL</b>   | <b>\$</b> |

Special rates apply for groups of five or more. Please call (800) 466-6275 x246 or email [sebuildingsconference@stagnitomedia.com](mailto:sebuildingsconference@stagnitomedia.com) for details.

## FIRST ATTENDEE

Name \_\_\_\_\_ Title \_\_\_\_\_

Firm \_\_\_\_\_

Street \_\_\_\_\_

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

Phone \_\_\_\_\_ Email \_\_\_\_\_

## ADDITIONAL ATTENDEES

Name \_\_\_\_\_ Title \_\_\_\_\_ Email \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_ Email \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_ Email \_\_\_\_\_

## PAYMENT INFORMATION

- My check is enclosed
- Charge my credit card \_\_\_ Visa \_\_\_ MasterCard \_\_\_ American Express

Cardholder \_\_\_\_\_

Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

### TO REGISTER

Call: (800) 466-6275 x246  
(M-F 8:30am-5:30pm EST)

### MAIL TO

Stagnito Media  
321 Commonwealth Rd.  
Suite 101  
Wayland, MA 01778

### HOTEL RESERVATIONS

**swissôtel CHICAGO** Stagnito Media has reserved a block of rooms for attendees at the Swissôtel for a discounted rate of \$209 per night. You must reserve your room before October 14, 2009 to receive this rate. Rooms in this block are limited and availability is not guaranteed. To make a reservation, call the hotel directly at (312) 836-5900 and indicate that you are with 2009 Structural Engineers' Buildings Conference.

Register online at [www.SEBuildings.com](http://www.SEBuildings.com)

PROVIDING THE **KNOWLEDGE AND TOOLS**  
TO BUILD THE FUTURE

Stagnito Media | 321 Commonwealth Road | Suite 101 | Wayland, MA 01778

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Swissôtel  
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## PROVIDING THE KNOWLEDGE AND TOOLS TO BUILD THE FUTURE

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### TO LEARN MORE:

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Visit [www.SEBuildings.com](http://www.SEBuildings.com)

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