

**2014 SEA-WI Fall Technical Conference**  
**Friday, November 7, 2014**



**Holiday Inn Pewaukee**  
**N14 W24140 Tower Place**  
**Pewaukee, WI 53072**

**4.0 Professional Development Hours**



# **WELCOME**

The Structural Engineers Association of Wisconsin welcomes you to our 2<sup>nd</sup> Fall Technical Conference.

We owe special thanks to our Conference Planning Committee for its efforts in organizing a variety of technical presentations and moderating the sessions. We are confident these presentations will appeal to everyone.

## **REGISTRATION / CONTINENTAL BREAKFAST**

**9:00 – 9:30 AM**

## **WELCOME AND UPDATES**

Eric Fink, SEA-WI President

**9:30 – 9:45 AM**

## **SUCCESSFUL DESIGN WITH PRECAST**

Scott Reay, J3 Engineering Group

**9:45 – 10:45 AM**

## **UNDISCOVERED SOM**

David Horos, Skidmore, Owings & Merrill, Chicago

**10:45 – 11:45 PM**

## **LUNCH**

**11:45 – 1:00 PM**

## **EXCELLENCE IN WISCONSIN ENGINEERING**

Athletic Park – Susan Lasecki, Ionic Structures and Design

The Edgewater Hotel Redevelopment – Lucas Marshall &

Richard Pierce, Pierce Engineers

**1:00 – 2:00 PM**

## **THE ROCKING AT CAMP RANDALL STADIUM**

David Cockrum – Mead & Hunt

**2:00 – 3:00 PM**

## **CLOSING REMARKS**

# **SUCCESSFUL DESIGN WITH PRECAST**

**9:45 – 10:45 AM**

**Presenter:** Scott Reay, PE, LEED AP  
J3 Engineering Group, LLC

## **Summary:**

In this seminar, learn from an experienced precast engineer what to do and what not to do when designing a building with precast. The delegated design process for precast presents unique opportunities for the EOR to both reduce their own workload and incorporate best practices by taking advantage of the precast specialty engineer and manufacturer's experience. Precast design practices will be discussed to help your next precast project go smoothly and avoid unexpected changes and field issues.

## **Presenter Biography:**

Scott graduated from Michigan Technological University with a B.S. degree in Civil Engineering in 1997 and a M.S. degree in 1998 with an emphasis in Structural Engineering. He worked as an engineer for Spancrete for 14 years, spending time not only in the office, but also in the plants as an engineering representative on lean manufacturing teams. A LEED AP, Scott was the sustainability champion at Spancrete, handling LEED submittals and technical support as well as contributing to company sustainability improvements. He joined J3 Engineering Group, LLC in 2012, where the precast client list has grown to over 14 precasters in the midwest and beyond. A graduate of the Leadership PCI program, he has served on the PCI Sandwich Wall Panel and Sustainability Committees. In addition to precast, he also designs seismic anchorages, mechanical components, and a unique modular aluminum structural system. He is a Professional Engineer in Wisconsin.

# **Undiscovered SOM: A Sample of Recent but Unique Atypical Projects from SOM's Structural Group**

**10:45 – 11:45 AM**

**Presenter:** David Horos, SE, PE, LEED AP  
Skidmore, Owings & Merrill

**Summary:** Many who are familiar with SOM's Structural Engineering work associate the name SOM primarily with large scale, multiuse projects and specifically tall and supertall buildings. SOM's portfolio, however, includes a number of smaller, but no less challenging or exciting structural engineering projects including residences, artwork, and museums. This presentation introduces a selection of challenging engineering projects SOM has participated in working with a number of clients including artists Inigo Manglano-Ovalle, Jamie Carpenter, and James Turrell and architect Thomas Phifer.

**Presenter Biography:** David has worked as a structural engineer in the design of building structures for over 25 years. He is currently a Director of Structural Engineering in the Chicago office of the architecture and engineering firm Skidmore, Owings and Merrill where he has been for approximately 15 years and currently focuses on firmwide issues for the group. David graduated from Louisiana State University with a B.S. degree in Civil Engineering and from the University of Texas at Austin with an M.S. degree in Engineering with an emphasis in structural engineering. He is currently the President-Elect of the Structural Engineers Association of Illinois (SEAOI) and SEAOI's delegate to the National Council of Structural Engineers Associations (NCSEA). Previous to that he was the Treasurer and served on the Board. He is a licensed Structural and Professional Engineer. Over the course of his career, David has been fortunate to work on a large variety of challenging projects from high rises to high tech manufacturing facilities and single family residences. He has also worked on a number of specialty projects which will be the focus of his presentation today.

# **THE ROCKING AT CAMP RANDALL STADIUM**

**2:00 – 3:00 PM**

**Presenter:** David Cockrum, PE, SE, SECB, LEEP AP  
Mead & Hunt

## **Summary:**

Reports of vibration on the Upper Deck of Camp Randall Stadium are common. When described by the lay person the vibration is typically referred to as swaying or rocking. In recent years the playing of the song Jump Around between the 3<sup>rd</sup> and 4<sup>th</sup> quarters has lead to uncomfortable motion in the upper deck. During the fall of 2003 a renewed effort was launched to observe and quantify the measurements. Computer modeling and analysis of the structure has been completed.

## **Presenter Biography:**

David graduated from the UW-Madison with a bachelor's degree in Civil and Environmental Engineering in 2000. From there he went to work in the metal building industry. That provided excellent training in structural steel. From there David went back to school to earn his MS in Structural Engineering from UW-Madison. His master's research focused on studying the vibrations of the upper deck at Camp Randall stadium. Following graduate school, David worked in structural consulting and on a team developing rock crushers. Currently, he is a Structural Engineer at Mead & Hunt in Madison. He has 14 years of structural design experience and looks forward to more. Away from work, he spends most of his time with his family. He is active in church and the DeForest school board. He chairs DeForest Open Gym for toddlers. Most months of the year David can be seen commuting to work on his road bike. For fun he enjoys rebuilding engines, metalworking and welding.

.

## **SEA-WI BOARD**

President:	Eric Fink, PE, SE
President Elect:	Sarah Frecska, PE, SE
Secretary:	Jim Driscoll, PE
Treasurer:	David Rice, PE, SE
Past President:	Chad O'Donnell, PE, SE
Regional Directors:	
Southeast	Alan Rentmeester, PE
Southwest	David Cockrum, PE, SE
Northwest	Bill Boettcher, PE
Northeast	Mike Marhefke, PE

## **CONFERENCE PLANNING COMMITTEE**

Sarah Frecska, PE, SE	Eric Fink, PE, SE
David Cockrum, PE, SE	

## **PROJECT AWARDS COMMITTEE**

Coordinator:	Michael Blodgett, PE
Judges:	Jim Lijewski, PE, SE
	Brian Rinke, PE, SE
	Patrick Reynolds, PE, SE

For more information, please contact **mail@seawi.org** or  
a current SEA-WI Board Member

# ANNOUNCEMENTS

## VISIT OUR NEW WEBSITE

In July, SEA-WI implemented a new website: <http://seawi.org/> As a member you can login to manage your contact information and committees you are interested to be involved in. When the website was rolled out, your login username and password were provided from an email from mail@ <seawi.org mail@seawi.org>. Please login and make sure your information and committee interest is correct. If you need your username or password reset, please email [mail@seawi.org](mailto:mail@seawi.org).

We are working to build content on the website and provide resources to our members. We are also managing events like the conference today with improved communication and ease of registration. If there are things you would find useful, please let us know. We appreciate your feedback.

## SEA-WI COMMITTEES

<b>Advocacy</b>	Chad O'Donnell, PE, SE
<b>Awards</b>	Michael Blodgett, PE
<b>Continuing Education</b>	Sarah Frecska, PE, SE
<b>Legislative</b>	<i>vacant</i>
<b>Membership</b>	David Walker, PE, SE Brian Rinke, PE, SE
<b>Newsletter</b>	Eric Fink, PE, SE
<b>Younger Member Group</b>	<i>vacant</i>

## CALL FOR VOLUNTEERS

As a volunteer organization, there are plenty of opportunities to assist with committees or openings for current and future leadership positions. Please contact Eric Fink at [efink@erdman.com](mailto:efink@erdman.com) or (608) 410-8109.

## SPRING TECHNICAL CONFERENCE

Planning is under way for our 5<sup>th</sup> Technical Conference in April 2015. If you are interested in presenting or being an exhibitor, please contact Sarah Frecska at [sf@pierceengineers.com](mailto:sf@pierceengineers.com) or (414) 278-6060. We are also interested in hearing what topics that might be of interest to you and your office.