STRUCTURAL ENGINEERS ASSOCIATION OF MICHIGAN (SEAMi) presents…

2023 SEAMi STATEWIDE STRUCTURAL CONFERENCE

DATE / TIME

Thursday May 18, 2023 from 7:00 AM to 6:45 PM
Sign-in: 7:00 AM to 7:45 AM

LOCATION

MSU's Kellogg Conference Center at 219 S. Harrison Rd., East Lansing, MI.
All Programs held in Kellogg Big Ten B Room unless noted [directions on p. 6]

PROGRAM SCHEDULE

MORNING SESSION:

7:00 AM to 7:45 AM: Continental Breakfast / Introduction by Andrea Reynolds
7:45 AM to 8:45 AM: Mr. Phillip Knodel, PE; New Millennium Building Systems *Digging Deeper into the Design of Joists* (1.00 hr)
8:45 AM to 10:00 AM: Dr. Jennifer McConnell, PhD; University of Delaware, 2023 T.R. Higgins Award Lecturer *"Steel Structures to Withstand the Elements: What Structural Engineers Need to Know About Corrosion"* (1.25 hr)
10:00 AM to 10:45 AM: Break w/ Exhibitors Big Ten A
10:45 AM to 11:45 PM: Ms. Parisha Chanodia, PE, SE; CRSI, "*Time Saving Reinforced Concrete Design per ACI 318-19"* (1.00 hr)
11:45 PM to 12:45 PM: Lunch in Big Ten A Room w/ Exhibitors

AFTERNOON SESSION:
12:45 PM: Welcome and Introduction by Andrea Reynolds; SEAMi President
12:45 PM to 2:00 PM: Ms. Emily Guglielmo, PE, SE; Martin/Martin "*NCSEA Wind Committee Frequently Asked Questions"* (1.25 hr)
2:00 PM to 2:45 PM: Mr. Donn C. Thompson AIA, LEED AP BD+C; NRMCA *"The Top 10 Ways to Reduce Concrete's Carbon Footprint"* (0.75 hr)
2:45 PM to 3:30 PM: Break w/ Exhibitors Big Ten A
3:30 PM to 4:45 PM: Mr. Barry Arnold, PE, SE, SECB; ARW Engineers, *"Ethics for Practicing Engineers"* (1.25 hr)
4:45 PM to 5:45 PM: Mr. Henry Lederman, Co-Founder, VP; Qnect, " *How Early Connected Steel Models Increase Profit and Reduce RFIs"* (1.0 hr)

5:45 PM to 6:45 PM: Dinner and Awards in Big Ten C
A meal will be provided (Sweet Summer Buffet)
Note: Let us know about any special diet requests for breaks, lunch or dinner (gluten-free, kosher, plant based or other)

REGISTRATION

Preferred Option to Register and Pay is online through webpage at https://seami.wildapricot.org/event-5156072 .
See instructions for online registration on Page 5 or alternatively mail by May 1 or at the door. Make checks payable to "SEAMi."

FEES

SEAMi members (current)	$ 110	(includes any NCSEA members or staff)
Non-members	$ 160	
Undergrad Students	$ 35	

Up to 7.50 Continuing Education Hours Available

"Digging Deeper into the Design of Joists" (1.00 hr) **Mr. Phillip Knodel**, **PE**; New Millennium Building Systems

This is a higher-level course having some deeper engineering content. The overall purpose is to have all engineers become more informed steel joist specifiers, not to turn them into joist engineers. More informed specifying engineers then can more efficiently collaborate with New Millennium joist engineers early on a project. Together, we can then accelerate the process, cut costs and improve the project delivery timeline.

"*Steel Structures to Withstand the Elements: What Structural Engineers Need to Know About Corrosion"* (1.25 hr) **Dr. Jennifer McConnell, AISC-T.R. Higgins Lecturer** : Dr. McConnell is the Bentley Systems Career Development Professor at the University of Delaware and also serves as the Director of the Center for Innovative Bridge Engineering.

The world-wide economic impact of corrosion has been estimated to be 3% of the global gross domestic product; yet in a profession with regimented design processes for load-induced effects, similar design processes for considering corrosion resistance are lacking. This presentation addresses this gap by reviewing: basic scientific principles governing corrosion to develop a scientific foundation for research findings; long-term field data on performance of steel structures in varied quantified environments; field and laboratory assessment methods for corrosion; and practical design strategies for improving corrosion resistance.

"Time Saving Reinforced Concrete Design per ACI 318-19" (1.00 hr) **Ms. Parisha Chanodia, PE, SE** Midwest Region Manager CRSI

Acquire information on how to design and detail reinforced concrete building structures simpler and faster.
Become familiar with some of the major code changes going from the 2014 to 2019 editions of ACI 318.

"*NCSEA Wind Committee Frequently Asked Questions"* (1.25 hr) **Ms. Emily Guglielmo**; **PE, SE** Past President NCSEA, Martin / Martin

This session will focus on answering all of your wind design questions. The session will begin with a review of the most frequently asked wind related questions, as collected by the NCSEA Wind Engineering Committee. Topics include:
Analysis methods, Wind loads on balcony handrails, Drift limits and serviceability under wind loads, Wind loads on rooftop screen walls, Wind loads on temporary structures, Effective wind area, Canopies and Corner zones.

"Top 10 ways to Reduce Concrete's Carbon Footprint" (0.75 hr) **Mr. Donn Thompson AIA, LEED AP, BD+C,** NRMCA Senior Director, Building Innovation

Concrete can be made stronger, lighter, more flowable, stiffer, less permeable, and even weaker depending on performance needs. No other building material is that versatile. This presentation will discuss how design and construction teams can implement ten simple strategies to reduce concrete's carbon footprint today.

"Ethics for Practicing Engineers" (1.5 hr) **Mr. Barry Arnold, P.E., SECB;** Past President NCSEA, ARW

Ethics is an often misunderstood but critical part of successfully practicing structural engineering. A solid understanding of ethical principles is as vital to a successful career as technical knowledge. Unfortunately, in recent years an emphasis on technical skills has forced the topic of ethics into a secondary role where it is seldom discussed, emphasized, or enforced. The purpose of this session is to acquaint the participant with the Canons and the application of the Code of Ethics

"How Early Connected Steel Models Increase Profit and Reduce RFIs" (1.0 hr)

Mr. Henry Lederman, Qnect Co-Founder, Executive VP

Delivering a connected model early in design has been gaining traction due to its time and cost-savings advantages. Qnect adds even more value to early connected model delivery with its software that identifies and solves issues before they become RFIs, and implements changes quickly to minimize impact on schedule.

Exhibitors available all day long (7:00 to 4:30): particularly at breaks & lunch

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INTERNATIONAL MASONRY INSTITUTE

PROSOCO

EUCLID CHEMICAL

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MICHIGAN CONCRETE ASSOCIATION

CASTCONNEX®
innovative components for inspired designs

NRMCA NATIONAL READY MIXED CONCRETE ASSOCIATION

SkyCiv
CLOUD ENGINEERING SOFTWARE

Plasti-Fab®

The room block release is ***April 18, 2023***. Reservations made after the group room block release date will be subject to room and rate availability. **(For Members or Non-Members)**

Online Reservation Instructions

For 24-hour access to booking, we encourage guests to book online by following the instructions below:

1. Go to http://www.kelloggcenter.com
2. Click on the "Reservations" link at the top of the page
3. Select "Book Now Online" link
4. Enter arrival, departure, rooms, and number of adults and children
5. Select "More Options" and enter your ***Group Code:*** **2305STRENG**
6. Click "Check Availability"

For special requests, reservations outside of the conference dates, or reservations after the room block release date, please call our reservations department at 800-875-5090.

Phone Reservation Instructions

1. Call 800-875-5090 and refer to the ***Group Code:*** **2305STRENG** or ***Block Name: Structural Engineers Assn of MI***
2. Representatives are available Monday through Friday 7:30am-7:00pm

Directions to Kellogg Center 219 S. Harrison Rd., East Lansing, MI (517) 432-4000

From North	(down US 27) Take I-69 East until you reach US 127 (about 1.5 mi.). Follow US 127 South to Trowbridge exit (part of I-496 exchange, about 6 miles south of I-69). Follow Trowbridge East one half mile. Turn left (north) on Harrison, go approximately 0.8 mi. Parking will be on your right and Kellogg Center will be just past the parking facility.
From West	(on I-496, accessed from I-96 or I-69) Follow signs on Eastbound I-496 to Trowbridge as you approach US 127. Once on Trowbridge; follow directions noted "From North".
From South	(on US 127) Exit on Trowbridge, approx. 3 mi. north of I-96; then follow directions noted "From North"
From East	(on I-96 or I-69) I-96 West to US 127 North to Trowbridge; Or I-69 West to US 127 South to Trowbridge; then follow directions noted "From North".