



STRUCTURAL ENGINEERS ASSOCIATION OF MICHIGAN (SEAMi)  
presents...

# 2018 STATEWIDE STRUCTURAL CONFERENCE

<b>DATE / TIME</b>	May 10, 2018 from 7:00 AM to 7:00 PM (see below) Sign-in: 7:00 AM / 8:30 AM
<b>LOCATION</b>	Conference will be held at MSU's Kellogg Conference Center at 219 S. Harrison Rd., East Lansing, MI. Program held in Kellogg Auditorium [directions on p. 5]
<b>PROGRAM SCHEDULE</b>	<b>MORNING SESSION:</b> 7:00 AM to 8:00 AM: Continental Breakfast 7:30 AM to 8:30 AM: PCIA / Mr. Mike Cosgrove (1 hr) Focus on Liability 8:30 AM to 9:45 AM AISC / Mr. Larry Kruth (1.25 hr) 2016 AISC Specification and Code of Standard Practice; 15th Edition AISC Manual 9:45 AM to 10:30 AM: Break in the Lincoln Room w/ Exhibitors 10:30 AM to 11:45 AM: City of Rochester Hills / Mr. Scott Cope (1.25 hr) Special inspection and Testing Requirements of the Michigan Building Code 2015 11:45 AM to 12:55 PM: Lunch in the Lincoln Room w/ Exhibitors <b>AFTERNOON SESSION:</b> 12:55 PM to 1:00 PM: Welcome by Bill Thayer, SEAMi President 1:00 PM to 2:00 PM: AISC T.R. Higgins Lecturer / Dr. Robert J. Connor (1.0 hr) Fatigue and Fracture Considerations in Structural Steel 2:00 to 3:00: PCA / Mr. Larry Novak (1.0 hr) Top Ten Useful Lessons for Structural Engineers 3:00 to 3:50: Break in the Lincoln Room w/ Exhibitors 3:50 to 4:55: SmithGroup / Ms. Andrea Reynolds: (1.0 hr) Ayia Napa Marina Development 4:55 to 6:00: Atlas Tube/ Mr. Bradlee Fletcher (1.0 hr) Understanding HSS Specifications 6:00 to 7:00: Dinner / Awards A meal will be provided (Menu - Italian Buffet) During dinner SEAMi officers will be introduced and there will be a presentation of awards. <i>Note: Let us know about any special diet requests for lunch or dinner (gluten-free, kosher and vegan)</i>
<b>REGISTRATION</b>	<b>Preferred Option to Register &amp; Pay "online": go to SEAMi.org</b> <b>See detailed instructions for online registration on Page 5 or alternatively Mail payment by 4/26/18 or at the door. Make checks payable to "SEAMi."</b> ✉ <b>E-mail: <a href="mailto:wthayer@macmillanassociates.com">wthayer@macmillanassociates.com</a></b> ✉ <b>Mail checks to: MacMillan Associates, 714 E. Midland, Bay City, MI 48706</b>
<b>FEEES</b>	SEAMi members (current) \$100 (includes NCSEA members) Non-members \$140 Students \$ 35

**Up to 7.5 Continuing Education Hours Available**

***Focus on Liability / Mr. Mike Cosgrove: PCIA Insurance*** (1 hr)

Even the simplest project can be risky. Some contract provisions transfer inordinate amounts of project risk onto your shoulders, jeopardize your insurance or make demands that you cannot reasonably fulfill.

At the same time there are contractual provisions that can help reduce your risk and maintain the protection of your professional liability insurance. This course will identify and discuss some of these provisions and explain how to negotiate appropriate terms and conditions in your client contracts.

***2016 AISC Specification and Code of Standard Practice; 15th Edition AISC Manual*** .....**Mr. Larry Kruth**

***Special Inspection and Testing Requirements of the Michigan Building Code 2015 / Mr. Scott Cope***

Chapter 17 "Special Inspections and Testing" is a complicated section of the building code that is often overlooked and misinterpreted. We will discuss why special inspections are needed, when they are required, how to prepare the "Statement of Special Inspections", qualification standards for special inspectors, and what special inspectors look for. The special inspection and testing process will be reviewed from start to finish from the information required with the permit application to the final special inspection report. We will also discuss what the design professional, special inspector and building department's responsibilities are throughout the process. An editable version of the City of Rochester Hills Special Inspection Program will be made available to all in attendance.

***Fatigue and Fracture Considerations in Structural Steel / Dr. Robert J. Connor: Purdue*** (1 hr)

Dr. Connor is AISC's TR Higgins lecturer for 2018-2019.

***Top Ten Useful Lessons for Structural Engineers...*** **Mr. Lawrence C. Novak**, SE, SECB, F.ACI, F.SEI, CERT, LEED® AP

Samuel Smiles, a Scottish author (1812-1904), wrote that "*We learn wisdom from failure much more than from success. We often discover what will do, by finding out what will not do; and probably he who never made a mistake, never made a discovery.*"

Typically much is written and presented about outstanding projects in our profession.

Rarely do we talk about the philosophy behind the design ... even rarer do we take two steps back and delve into the important life lessons which can be gleaned from a career in structural engineering and the importance of building resilient communities.

We would like to take this opportunity to lead the group on an amazing journey of discovery to explore what it means to be a Structural Engineer. What do we really do and what does the world expect of us?

The thoughts offered are geared toward engineers at all phases of their far-reaching careers, from recent graduates to those enjoying their retirement; and all the wonderful experiences and challenging decisions we encounter along the path.

***Ayia Napa Marina Development / Ms. Andrea Reynolds: SmithGroup*** (1 hr)

SmithGroup is working with the project developer to create a premier resort destination centered around a 600-slip mega-yacht marina. The firm is providing integrated planning and design services for the entire mixed-use development, including private residences (villas), two high-rise condominium towers, community event center, retail, and luxury resort amenities.

Because the site is exposed to massive storm waves 6 to 8 meters high, harbor protection is critical to project success. Applying the latest in coastal modeling and engineering technologies, the design uses massive manmade armor units to create a breakwater that can withstand this punishing sea. The resulting harbor creates a tranquil setting for a vibrant marina village featuring amenities and attractions for residents, visitors and the Ayia Napa community. Shoreline ecological enhancements will establish public beaches.

The architecture is also highly responsive to its coastal setting, emphasizing vernacular materials and innovative sun shading. The striking events center is a large, steel-framed, conical-shaped building to host large gatherings and weddings. The two high-rise towers are 28-story reinforced concrete towers whose floor plates twist 1.5 degrees as the towers rise above the podium. The retail spaces line the harbor and are covered with a continuous steel framed parasol. This project is located within a high-seismic region and the development of the building footprints and the introduction of the twist to the condo towers as the project matured provided some interesting structural opportunities!

***Understanding HSS Specifications / Mr. Bradlee Fletcher: Atlas Tube*** (1 hr)

Across North America there are several HSS specifications to choose from when designing structures. Understanding the subtle differences during design between CSA G40 Class C & H, ASTM A500, ASTM A1085, & ASTM A1065 can prevent some of the pitfalls when it comes to sourcing the material.

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





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## **Instructions for Registration and Payment**

### **For Members or Non-Members**

1. Go to <https://seami.org/>
2. Under "Upcoming Events" under the Mackinac Bridge click on "2018 SEAMi Spring Conference".
3. On the Event Page, click on "Register" near the bottom of the page.
4. Fill in your e-mail address and then click "Next".
5. Choose your registration type based on your membership affiliation. Click "Next".
6. Fill out your registration information. First Name, Last Name, Company/Organization. Click "Next".
7. Choose if you would like to "Pay Online" (through PayPal).
8. Follow the prompts in PayPal to make your payment.
9. You may pay by check by selecting the "Invoice " tab.
10. Print your invoice and mail it and check to Bill Thayer at the address above in the Registration Section

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

**From North** (down US 27) Go to I-69, Go east on I-69 until you get to 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 approx 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) On eastbound I-496 follow signs 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, 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".