



ARCHITECTURAL
ENGINEERING
INSTITUTE

AEI FORUM

Worcester, Massachusetts
March 31-April 1, 2016



WPI

The IMPACT of the Integrated Building



PROFESSIONAL
DEVELOPMENT HOURS
★ Earn up to ★
5.5
HOURS



Worcester Polytechnic Institute
<http://www.wpi.edu/academics/cee/forum.html>

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Join the conversation at AEI Forum: share takeaways, lessons learned, inspiring quotes, and photos from the event on Twitter and your other favorite social networks using #AEIForum16. Simply add #AEIForum16 to posts about the event!

SCHEDULE-AT-A-GLANCE

Wednesday, March 30:

12:00 – 7:00 PM.	Registration Hours - <i>Odeum Lobby</i>
2:00 – 5:00 PM.	AEI Workshop for Student Chapter Leaders – <i>Odeum C</i>
5:00 – 8:00 PM.	Academic Council, Executive Council, and Board of Governors joint meeting – <i>Hagglund</i>
12:00 – 10:00 PM	AEI Student Design Competition Practice - <i>Odeum A/B</i>

Thursday, March 31:

7:30 AM – 6:00 PM	Registration Hours – <i>Odeum Lobby</i>
7:30 AM – 8:30 AM	Continental Breakfast – <i>Mid Century</i>
8:00 AM – 6:20 PM	AEI Student Design Competition – <i>Odeum A/B</i>
10:00 AM – 4:00 PM	Exhibit hours - <i>Odeum lobby</i>
10:00 – 10:15 AM	Refreshment Break – <i>Mid Century</i>
12:00 – 1:00 PM.	Lunch – <i>Mid Century</i>
12:30 – 1:00 PM	Student Elections - <i>Odeum C</i>
3:00 – 3:15 PM	Refreshment Break – <i>Mid Century</i>
6:30 – 7:30 PM	Jury Deliberations - <i>Chairman's</i>
6:00 – 9:00 PM	Welcome Reception & Professional Practice Awards Presentations – <i>Alden Hall</i>
8:00 – 10:00 PM	Student Social – <i>off campus</i>

Friday, April 1:

7:30 AM – 6:30 PM	Registration Hours – <i>Odeum Lobby</i>
7:00 – 8:30 AM	Continental Breakfast – <i>Mid Century</i>
7:30 – 9:00 AM	Student Competition Jury Feedback – <i>Odeum A/B</i>
9:15 – 10:30 AM	Morning Keynote Lectures – <i>Odeum A/B</i>
10:30 – 10:45 AM	Refreshment Break – <i>Mid Century</i>
10:45 AM – 12:00 PM	Breakout Sessions – AEI Community Charrettes: Sustain-Learn-Perform-Deliver
12:15 – 1:30 PM	Lunch with Keynote Speaker – <i>Alden Hall</i>
1:45 – 2:45 PM	Afternoon Keynote Lectures – <i>Odeum A/B</i>
2:45 – 3:00 PM	Refreshment Break – <i>Mid Century</i>
3:00 – 4:15 PM	Breakout Sessions – AEI Community Charrettes: Enclose-Modular-Resilient-Secure
4:30 - 5:00 PM	Closing Session – <i>Odeum A/B</i>
5:00 - 6:15 PM	Students: Walking tour of WPI Fire Science Laboratory
6:30 - 9:00 PM	Awards Banquet – <i>Alden Hall</i>

Saturday, April 2:

7:30 - 10:00 AM	Academic Council Meeting - <i>Hagglund</i>
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INVITATION TO ATTEND



On behalf of the Architectural Engineering Institute (AEI) and WPI we would like to welcome you to the inaugural AEI Forum 2016. Our theme this year is the **IMPACT of the Integrated Building.**

The AEI Forum 2016 will offer 2 full days of exciting presentations, discussions and networking opportunities for students, academicians and industry experts from all facets of the Architectural Engineering industry.

With the new blended format that promotes interaction between students and industry experts, we encourage the professionals to experience the awe-inspiring student presentations on the first day. We also urge the students to participate in the presentations and breakout sessions which will discuss the eight (8) AEI Build categories on the second day.

WPI is proud to claim the newest Architectural Engineering program in the nation and we are honored to host the inaugural AEI Forum. We look forward to a successful and impactful Forum that will build the foundation for future ones to come.

I look forward to meeting you during your time here at WPI.

Leffi Cewe-Malloy LEED AP
Chair, AEI Forum 2016

COMMITTEE

Forum Chair

Leffi Cewe-Malloy, LEED AP
Worcester Polytechnic Institute, Worcester, MA

AEI Board of Governors

Moses D. F. Ling, P.E., President
Robert Grotenthaler, P.E., LEED AP, President-elect
Adam W. Hapij, P.E., M.ASCE, Past President
Scott Campbell, Ph.D., P.E., M.ASCE
Stephanie J. Guy, P.E.
Amy L. Hackney, LEED AP, P.E., M.ASCE
Mark P. Sarkisian, P.E., M.ASCE
John A. Zachar, Ph.D., P.E., M.ASCE

AEI National Student Officers

Allyson B. Smith, AEI National Student President
Adam Laux, AEI National Student Vice President
Alan M. Boleware, AEI National Student Secretary

ASCE Staff

Catherine Tehan, Director, AEI
Verna Jameson, Manager, AEI
Drew Caracciolo, Manager, Exhibits & Sponsorship Sales

SPECIAL EVENTS

Welcome Reception & Professional Project Awards Presentations

Thursday, March 31, 6:00 – 9:00 p.m.
Alden Hall

Join us at the welcome reception for an opportunity to network with peers and students, while listening to short presentations from selected winners of the 2016 Professional Project Awards.

Keynote Luncheon

Ben Johnson, AIA, LEED AP
Adrian Smith + Gordon Gill Architecture
"PerFORMance in Supertall Architecture"
Friday, April 1, 12:15 – 1:30 p.m.
Alden Hall

Walking Tour of the WPI Fire Science Laboratory

Friday, April 1, 5:00 - 6:15 p.m.

Awards Banquet

Friday, April 1, 6:30 – 9:00 p.m.
Alden Hall

Winners of the AEI Student Design Competition will be announced, and special awards presented to winners of the Professional Project Awards.



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ENGINEERS

KEYNOTE SPEAKER



Ben Johnson, AIA, LEED AP
Director
Adrian Smith + Gordon Gill Architecture
PerFORMance in Supertall Architecture

KEYNOTE LECTURERS:



David J. Odeh, S.E., P.E., SECB, F.SEI, F.ASCE
Principal, Odeh Engineers, Inc.
AEI DELIVER: *Integrated BIM for Collaborative Project Delivery*



Rebecca Delaney, P.E., LEED-AP BD+C
Associate, Skidmore, Owings & Merrill LLP (SOM)
AEI PERFORM: *Science and Humans*



Niklas Vigener, P.E.
Senior Principal and Head of Building Technology
Simpson Gumpertz & Heger Inc. (SGH)
AEI ENCLOSE: *Competing Priorities: Making Enclosure Design Decisions That Last*



Caroline Field, BEng MSc CEng MICE P.E.
Head of Risk & Resilience
BuroHappold Engineering
AEI RESILIENT: *An Integrated Approach to City and Building Resilience*



Wil Srubar III, Ph.D., LEED AP
Assistant Professor
University of Colorado Boulder
AEI LEARN: *Challenges and Opportunities of a Modern-day Architectural Engineering Education*



Robert Smilowitz, PH.D., P.E. Senior Principal
Thornton Tomasetti | Weidinger Protective Design
AEI SECURE: *Blast Resistant Protective Design*



Paul E. Kassabian, P.E.
Senior Project Manager – Structures,
Simpson Gumpertz & Heger Inc. (SGH)
AEI MODULAR: *Modular Thinking*



Gunnar Hubbard, FAIA, LEED
Fellow, Principal and Sustainability Practice Leader
Thornton Tomasetti
AEI SUSTAIN: *Drivers of Change – Achieving High Performance, Green Building Solutions*



Professional Development Hours (PDH) – up to 5.5

You may earn PDHs, which are nationally recognized units of record, by attending the Forum technical sessions. Please note that there are differences from state to state in continuing education requirements from professional engineering licensure. Each state licensing board has the final authority to approve courses, credits, PDHs and other methods of earning credits in that state. ASCE DOES NOT KEEP A RECORD OF CREDITS EARNED AND STRONGLY RECOMMENDS THAT INDIVIDUALS KEEP A RECORD OF CREDITS EARNED. Submit your credits to the licensing board and regularly check for specific continuing education requirements in the jurisdictions that affect professional engineering licensure and the ability to renew licensure.



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