



# 2006 Building Technology Educators' Symposium Program

University of Maryland — School of Architecture, Planning and Preservation — College Park, Maryland

## Thursday, August 3, 2006

**3:00 - 6:00 PM** Check - In for lodging at the dormitories - Annapolis Hall  
 Registration Check - In for conference - School of Architecture, Planning and Preservation building — Main lobby, lower level

**6:00 PM** **Keynote Address - Auditorium (AIA/CES No. 001)** (See note 2 on reverse)  
 (1:30) (See note 1 on reverse) Welcome - Dean Garth Rockcastle, University of Maryland  
 Introduction - Deborah Oakley & Ryan Smith, Symposium Co-Chairs  
 Address: Edward Allen, *The Essence of Building Technology*

**7:30 PM** **Opening Dinner - Adele's Restaurant, Stamp Student Union**  
 (1:30) (Attendees will walk together to the restaurant which will serve buffet style)

## Friday, August 4, 2006 (See note 3 on reverse)

<b>8:30 AM</b>  (1:45)	<b>Session 1A - Classroom 1105 (AIA/CES No. 006)</b> Kirk Martini, <i>A New Kind of Software for Teaching Structural Behavior and Design (40 minute workshop)</i> Michele Chiuini, <i>Less is More: Design-Oriented Approach to Teaching Structures in Architecture</i> Shahin Vassigh & Kenneth MacKay, <i>Building Literacy: The Integration of Building Technology and Design in an Architecture Curriculum</i> Discussion	<b>Session 1B - Auditorium</b> Paul Zorr, <i>Recycled Walls: Materials and Methods Project</i> Jason Chandler, <i>Mechanisms of Surface: Wall Section Model</i> Irena Wasserman, <i>Ecological Aspects of Teaching Historical Building Technology in an Architectural Preservation Curriculum</i> Craig Griffen, <i>Teaching Construction Details with Color</i> Discussion
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**10:15 AM (0:25) BREAK**

**10:40 AM** **Session 2 (Plenary) - Case Study Method - Auditorium (AIA/CES No. 004)**  
 (1:45) Jonathan Ochshorn, *Designing Building Failures*  
 Tom Brock, *Updating the Mesian Curriculum*  
 Terri Meyer Boake, *"Do You Own a Hardhat and Safety Boots?": Maximizing Potential Learning through Construction Case Studies*  
 D.Thaddeus, *Structural Steel Survey and Education Tool*  
 Discussion

**12:25 PM (1:15) LUNCH — Great Space**

<b>1:40 PM</b>  (1:30)	<b>Session 3A - Classroom 1105</b> Fredrick Zal, <i>Empathic Vectors</i> Edgar Stach, <i>The Art of Structure: The Structure of Art</i> Edward Allen, <i>Graphic Statics</i> Discussion	<b>Session 3B - Auditorium (AIA/CES No. 007)</b> Robert Arens & James Doerfler, <i>XYZ: Horizontal Vertical and Progressive Integration in the Practice Curriculum</i> BarryYatt, <i>Why Brick? A Theoretical Basis for Designing Construction</i> Gil Snyder, James Dicker, & Marit Gamberg, <i>Indigenous Knowledge, Formal Knowledge and Technology Teaching</i> Discussion
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**3:10 PM (0:20) BREAK**

**3:30 PM** **Session 4 (Plenary) - Building Information Modeling - Auditorium (AIA/CES No. 008)**  
 (1:30) Kathrina Simonen, *Digital Technology is Now Building Technology*  
 Mike Christenson, *Capabilities and Limitations of Revit in a Construction Technology Course*  
 Christopher Livingston, *Building [Understanding]: A Systems Approach to Building Information Modeling*  
 Panel Discussion

**5:00 PM (0:20) BREAK**

**5:30 PM** **Keynote Address - Auditorium (AIA/CES No. 002)**  
 (1:30) Joseph G. Burns, P.E., S.E., AIA, Thronton-Tomasetti Structural Engineers, Chicago, Illinois, *BIM Applications in Architectural Education*

**7:00 PM (3:30) Free Night / Evening Bus Trip to Washington D.C.** (See note 4 on reverse)



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## Saturday, August 5, 2006

8:30 AM  (1:30)	<p><b>Session 5A - Auditorium (AIA/CES No. 003)</b>  <b>Vincent Hui</b>, <i>Bridging to Convergence: Multidisciplinary Dillmea of Beginning Architecture Students</i>  <b>Kenneth MacKay &amp; Shahin Vassigh</b>, <i>Daylight Models, Pattern Development &amp; Structure</i>  <b>Tom Leslie &amp; Jason Alread</b>, <i>Push/Pull: Bringing Technology and Design Together at Iowa State</i>  <b>Discussion</b></p>	<p><b>Session 5B - Classroom 1105</b>  <b>Bruce Wrightsman</b>, <i>Developing an Ethos of Making</i>  <b>Kathrina Simonen</b>, <i>Building Skin: Designing at Full-Scale</i>  <b>Edgar Stach</b>, <i>Pattern in Architecture: Explorations of the Digital Modeling &amp; Fabrication Lab</i>  <b>Discussion</b></p>
<b>10:00 AM (0:30) BREAK</b>		
10:30 AM  (1:45)	<p><b>Session 6 (Plenary) - Teaching Tools - Auditorium</b>  <b>Christine Theodoropoulos</b>, <i>Seismic Design Education in U.S. Schools of Architecture</i>  <b>Ryan Smith</b>, <i>Specifications and Cost in Architectural Education</i>  <b>Deborah Oakley</b>, <i>Two-Way Structures: Personal Response Devices in Large-Format Structures Lectures</i>  <b>Diane Armpriest</b>, <i>Engaging Students in the Lecture Classroom</i>  <b>Discussion</b></p>	
<b>12:15 PM (1:15) LUNCH — Great Space</b>		
1:30 PM  (1:45)	<p><b>Session 7A - Classroom 1105</b>  <b>Ivan Markov</b>, <i>Structural Harmony and Model Discourse</i>  <b>Bruce Lonman</b>, <i>Case Studies in Studio-Based Learning</i>  <b>Dana Gulling</b>, <i>Architect as Form-maker: A Fundamental Approach to Architectural Structures</i>  <b>Robert Dermody</b>, <i>A Different Kind of Structures Problem</i>  <b>Discussion</b></p>	<p><b>Session 7B - Auditorium (AIA/CES No. 010)</b>  <b>Jason Alread</b>, <i>Design-Build as Technology Coursework</i>  <b>Mat Taylor &amp; T.Duff Bangs</b>, <i>WSU Solar Decathlon - Design/Build Lessons</i>  <b>Phil Gallegos</b>, <i>Structural Education in Design Build Studios: Questions of Practicality of Student Design Build Projects</i>  <b>Jori Erdman</b>, <i>Hands-On: The Pedagogy of Design/Build</i>  <b>Discussion</b></p>
<b>3:15 PM (0:30) BREAK</b>		
3:45 PM  (1:45)	<p><b>Session 8A - Classroom 1105</b>  <b>Deborah Oakley</b>, <i>Haptic Structures: The Roll of Kinesthetic Experience in Structures Education</i>  <b>Patrick Tripeny</b>, <i>Structural Labs Discussion</i>  <b>Andrea Swartz</b>, <i>Designing Structures: 4 Exercises Integrating Fundamental Structural Issues</i>  <b>Discussion</b></p>	<p><b>Session 8B - Auditorium (AIA/CES No. 011)</b>  <b>Linda Brock</b>, <i>Teaching Building Science as Part of Building Technology</i>  <b>Ulrich Dangel</b>, <i>Building Skins - Design Strategies for Architecture Students</i>  <b>Donald Hunsicker, Michael Fiorillo, Joshua Burdick, &amp; Laura Marrero</b>, <i>Green Roof Design Workshop: A Teaching Model for Connecting Technology to Design (40 minute workshop)</i>  <b>Discussion</b></p>
<b>5:30 PM (0:30) BREAK</b>		
5:45 PM  (1:15)	<p><b>Organization Meeting - Auditorium</b>  Deborah Oakley &amp; Ryan Smith, Moderators</p>	
<b>7:00 PM (1:30) Closing Banquet — Great Space</b>		

- Notes:**
- 1) Times listed in parentheses are the duration of each event
  - 2) AIA/CES numbers cross reference to the "AIA/CES Conference Program Participation Form C-1" for those who are seeking continuing education credits.
  - 3) Coffee, juice and muffins will be available in the Architecture building beginning at 8:00 AM each morning. Please visit one of the local College Park restaurants if you would like a more substantial breakfast.
  - 4) Bus to Washington, D.C. will leave depart from and return to the Architecture Building. Drop-off and pick up point in D.C. will be at the Smithsonian Museum of Natural History. Bus will depart College Park at 7:00 P.M. and will leave D.C. at 10:30 P.M.