

**Rob Whitehead, AIA, LEED® AP, Assistant Professor of Architecture, Iowa State University**

**Education**

1997	<b>University of Texas at Austin</b> , Austin, TX Master of Architecture, Post-Professional <i>Ogelsby Prize Nominee (Best Student Work), 1997</i>	1993	<b>Iowa State University</b> , Ames, IA Bachelor of Architecture <i>Diploma Project Critic's Award, 1993</i>
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**Teaching Experience**

2007-present	<b>Iowa State University, Department of Architecture</b> , Ames, IA Assistant Professor (2012-present) & Lecturer (2007-2012) Teaching experience includes undergraduate structural design courses, graduate building technology seminars, graduate design-build studios, and a broad range of architectural design studios.
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**Teaching Awards, Recognitions, & Exhibitions**

2013	<b>ACSA Creative Achievement Award Recipient, "Think, Make, Break, + Evaluate"</b> Association for Collegiate Schools of Architecture, National Convention, San Francisco, CA
2012	<b>New Faculty Scholar</b> , Iowa State University
2011	<b>2011 BTES Building Technology Teaching Award Recipient</b> , Building Technology Educators Society, Bi-Annual National Convention, Toronto, Canada
2009	<b>Honorable Mention, U.S. Green Building Council, Excellence in Green Building Education Awards Higher Education Category</b> , "SCI-TECH: A Technology Sequence for Generation Green," with Professors Tom Leslie and Jason Alread  <b>NCARB Grant for the Integration of Practice and Education in the Academy</b> "Practicing Structures," with Professor Tom Leslie. Awarded highest funding level of all grant recipients.

**Professional Experience**

2007-present	<b>Whitehead Design Workshop</b> , Des Moines, IA <i>Sole Practitioner</i> : Owner of an architectural practice specializing in small-scale, carefully crafted, and environmentally responsible design projects. An integrated approach to design and delivery methodologies support a broad range of work that includes traditional architectural projects, design-build, interiors, and furniture production.
2009	<b>BNIM Architects</b> , Des Moines, IA <i>2010 National AIA Firm of the Year</i> <i>Project Designer, part-time</i> : Helped develop project designs through technical integration and documentation.
1998-2007	<b>Herbert Lewis Kruse Blunck Architecture</b> , Des Moines, IA <i>2001 National AIA Firm of the Year</i> <i>Senior Architect</i> : Led and produced all aspects of project development for the design, documentation and administration for a variety of award-winning projects. Managed multiple projects and teams and collaborated across disciplines. Integrated key design values into construction detailing and deliverables.

**Peer-Reviewed Publications**

2013	<b>"(RE)Covering Shelter: Enhancing Structural Design Pedagogy by Designing for Disaster Relief"</b>  <i>ACSA Regional Conference, October 2013</i> <i>Paper to be published in proceedings (TBD Date and Title)</i>
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***“Supporting Students Structurally: Engaging Architectural Students in Structurally Oriented Haptic Learning Exercises”***

Architectural Engineering Institute (AEI) Conference, Penn State University, April 2013  
Paper to be Published in Proceeding (TBD date and title)

***“Breaking (A)way: The Role of Productive Failures in a New Structural Design Pedagogy”***

ACSA National Convention, BTES Special Section, San Francisco, CA, March 2013  
Paper Presentation and Panel Discussion  
Paper to be published in proceedings from BTES 2013 Bi-Annual Meeting (TBD Date and Title)

***Design-Tech, Building Science for Architects*** textbook, Second Edition, Routledge Books

Co-Author with Tom Leslie & Jason Alread. Projected for publication, 2013.

Responsible for writing Chapter 4, Structural Design, Sections 4.1-4.9, including the development and production of new images and illustrations.

2012 ***“Making & Breaking (A)way: Integrating Productive Failures in the Creation and Analysis of Surface-active Structural Systems”***

International Conference on the Constructed Environment, Vancouver, Canada, October 2012  
Paper Presentation and Panel Discussion, Fall 2012

***“Dismissal of Dymaxion House and Demountable Space: Early Challenges of Integrating Innovative Structures into an Emerging Industry”***

ACSA Fall Conference + Modular Building Institute, Regional Industry Meeting,  
Temple University, Philadelphia, PA, September 2012  
Paper Presentation and Panel Discussion, Publication in Proceedings, (TBD Date, Title, Publication information)

2010 ***“Finding Space to Fail: Making Cracks into Breakthroughs”***

AIA Iowa Diversity Committee Academic Paper Symposium  
Presented at 2010 AIA Iowa Fall Convention

***“Sci-Tech: An Architectural Technology Sequence for Generation Green” (with Tom Leslie)***

Iowa State University, 2010 Symposium on Enhancing Sustainability at Iowa State University  
Poster Accepted for Exhibition

2009 ***“Places, Spaces, and Faces: Combining Architecture and Landscape Architecture Studios and the Challenges of Integrated Pedagogy” (with Lynn Paxton and Carl Rogers, LA)***

ACSA Annual Meeting, Teaching Architecture-Perfecting Pedagogy Session  
Paper Presented, 2010 National ACSA Convention.

***“Making Marfa: Technical Encumbrances and Creative Resistance in Donald Judd’s Ten Concrete Buildings”***

ACSA Southeast Fall Conference, Art + Architecture Collaborative topic, Savannah, GA, October 2009  
Paper Presentation and Panel Discussion. Published in Proceedings, “Architecture as a Thing of Art”

***“Tectonics, Tolerances, and Time: Eero Saarinen and Mies van der Rohe at Drake University”***

Preservation, Education & Research Journal, The National Council for Preservation Education  
Published September 2009.

2008 ***“Midwestern Modern Failures: Building Envelope Detailing, Performance, and Remediation Challenges at Drake University”***

Construction History Society of America, Atlanta, GA, Inaugural conference  
Paper Presented, November 2008. Paper Distributed Digitally as Conference Proceedings

**Peer-Reviewer**

2010 **Paper Reviewer**, *Preservation, Education & Research Journal*,

The National Council for Preservation Education

**Abstract Reviewer**, Construction History Society Annual Conference

#### **Presentations, Exhibitions, + Publications Featuring Work**

- 2013 KCCI-TV 8 news, Story on service learning shelter
- 2012 **Guest Lecturer**, Indiana University, IUCA + D, Columbus, Indiana, "Innovative Object Museum Summary"  
**Guest Lecturer**, Clemson University, Department of Architecture, "Finding Space to Fail"
- 2011 **Curator**, "Innovative Objects of Design" Student Exhibition, Figge Art Museum, Davenport, Iowa
- 2010 **Guest Lecturer**, Montana State University, Department of Architecture  
**Guest Juror**, The Catholic University of America, School of Architecture + Planning, Final Reviews, Fourth Year Architecture Students  
**"Turning Beliefs into Action"**  
*Des Moines Register*, April 18, 2010  
*whitehead design workshop*, [Bredeson Garage and Studio](#)
- 2009 **"Considerate Design"**  
*Des Moines Register*, *Homestyle Magazine*, November 2009  
*whitehead design workshop*, [wdw Home Office](#)

#### **Student Recognitions + Awards**

- 2013 **ACADIA Conference Poster Submittal**, "Once Built Structure," by Bart Phillips and Nathan Scott  
Outlining the design, development, and eventual construction of a thin shell structure made from parametrically modeled and digitally fabricated polymer sheet goods.  
**BWBR Design Competition Finalist**, Mike Grey, Arch 302
- 2012 **BWBR Design Competition Finalist**, Adam Blatner, Arch 302
- 2011 **BWBR Design Competition Winners**, Justin Wang & Jasmine Singh, Arch 302
- 2010 **RIBA Design Competition Selected Finalist**, Yele Haiti Music School, Ryan Rogers  
A mobile "unfolding" music school and shelter was proposed for the competition. A series of pre-fabricated triangular panels could be connected and unfolded to created shelters and performance spaces of many sizes that could easily be transported around a post-earthquake Haiti. One of 15 selected international finalist designs.  
**BWBR Design Competition Finalist**, Jason Kruse, Arch 302
- 2009 **Hansen Prize Design Competition Finalists**, [Andrew Mixdorf](#), [Alex Michl](#), [Sam Mulholland](#), & [Yvonne Hidle](#),  
**BWBR Design Competition Winner**, William Neal, Arch 302  
**State of Iowa, Holocaust Memorial Competition Runners-up**, Student Design Composition Team
- 2008 **Hansen Prize Design Competition Winner**, Clark Colby  
**BWBR Design Competition Finalists**, Zach Rosenow, Nathan Compton & Max Mahaffey

2007            **Hansen Prize Design Competition Winner**, Alex Hale  
*Hansen Prize Design Competition Runners-up, Kevin Wagner & Justin Oldenhaus,*  
  
*Student Awards: Kurtis Wolgast, First Place Pella Window Competition*  
*Student Award: Keihly Moore, Second Place, Pella Window Competition*

**Professional + Academic Memberships**

2013            National Council of Building Sciences Council on Off-site Construction

1993-present    American Institute of Architects, National and State Chapters

1998-present    Registered Architect, Iowa License No. 4002, NCARB Certificate

2006-present    LEED® (Leadership in Energy and Environmental Design) Accredited Professional

2009-present    Building Technology Educators Society (BTES) Member

2008-present    Construction History Society of America Member

2006-2007       Founding Chair, AIA Iowa Diversity Task Force

2006-2007       Center on Sustainable Communities, Advisory Board Member

2006-2007       ACE (Architect, Contractor, Engineering) Mentoring Program, Board Member

2002            Founder and Coordinator, *AIA Iowa/Iowa Commerce* Good Business design awards

2001            AIA South Dakota Design Awards, Jury Member

2000            *The Des Moines Register*, Young Writers Board of Contributors

1998-2002       *Iowa Architect* Associate Editor & Editorial Board Member

1995            AIA Michigan Design Awards, Jury Member

**Departmental & Collegiate Service**

2013            Iowa State Live Green Initiative Board Member (membership pending)

2013, 2008-10    Department Promotion and Tenure Committee, Elected Position

2007-present    Departmental Technology Committee and Departmental Practice Committee

2008-2009       College of Design Exhibition committee, "30 and Beyond" Exhibit Coordination