BTES
BUILDING TECHNOLOGY EDUCATORS' SOCIETY

BTES 2018 Election Candidates

Officers

PRESIDENT-ELECT

Sinéad Mac Namara

SECRETARY

Amber Bartosh

Chad Schwartz

Board Members

POSITION 1 - SOCIAL MEDIA AND WEB SUPPORT

Anne Nichols

POSITION 2 - MEMBERSHIP AND NETWORKING

Robert Dermody

Jenn McArthur

Kristin Nelson

POSITION 3 - EVENTS AND INITIATIVES

Dustin Albright

Ulrich Dangel

Carolina Manrique

BTES
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BTES 2018 Election Nominations

President-Elect

Sinéad Mac Namara

Sinéad C. Mac Namara, PhD
Associate Professor, Syracuse University

I am a structural engineer and Associate Professor in both the School of Architecture and the College of Engineering. I studied civil and structural engineering at Trinity College Dublin and Princeton University. My research interests encompass structural art, shell structural design, alternate pedagogies for interdisciplinary education, and investigations to foster creativity and innovation in engineering curricula. I co-authored a book *Collaboration in Architecture and Engineering* released in 2014 and my research has been published in engineering and architecture education journals, nationally and internationally. I have received awards for innovative teaching from Princeton University, Syracuse University, and the American Society for Engineering Education. I also engage in design and design-build projects as a collaborator with my architecture students and colleagues. This work has been recognized with awards from the Association of Collegiate Schools of Architecture, the Architectural Institute of America and the City of New York.

I have been a member of BTES since 2013, and have found it to be an inspiring and rewarding organization. I would be honored to serve as President Elect, and look forward to continuing the great work of current and previous officers.

SINÉAD C. MAC NAMARA
Syracuse, NY 13224, scmacnam@syr.edu, (609) 240 9520.

EDUCATION

Princeton University, Princeton, NJ.
- Ph.D. in Civil and Environmental Engineering, May 2007. Advisors: David P. Billington, Maria Garlock.
- M.S.E. in Civil and Environmental Engineering, May 2002. Advisor: David P. Billington.

Trinity College, University of Dublin, Dublin, Ireland.
- B.A.I. (1st class honors) in Civil, Structural and Environmental Engineering, 1999

TEACHING EXPERIENCE

Associate Professor, Syracuse University (2014 – Present): Appointed to the School of Architecture, the College of Engineering, and the Honors Core Faculty.
Assistant Professor, Syracuse University (2006 – 2014): Appointed to the School of Architecture and the College of Engineering.

Courses taught: *Structures I* (ARC 211/ARC 611), *Structures II* (ARC 311/ARC 612), *Structural Art* (ARC 500), *Advanced Structural Resolution* (ARC 511), *CEED: Community Engaged Engineering Design* (ARC 500), *Structures and Innovation* (HNR 360), *Engineering Mechanics: Statics* (ECS221), *Design + Build* (ARC 490/ARC 690), *Shell Structures* (ARC 500/ECS500), *Thesis Prep* (ARC 509), *Thesis* (ARC 510), *Mexican Architecture and Engineering* (CIE 500/ARC 500) Study Abroad, *Independent Study* (ARC 690 and CIE 490).

AWARDS

- Chancellors Award for Public Engagement and Scholarship, Syracuse University, Spring 2014.
- AIA New York State Merit Award for *Mir'aj* with Julie Larsen and Roger Hubeli, April 2014.
- American Collegiate Schools of Architecture, 2014 ACSA Design Build Educator Award for *Play Perch.*
- AIAS Freedom By Design National Community Inspiration Award for *Play Perch,* January 2014.
- Chancellors Award for Public Engagement and Scholarship, Syracuse University, Spring 2013.
- ASEE St. Lawrence Division, Outstanding Teacher Award. Spring 2013.
- Reinvent Payphones Design Challenge NYC Mayor's Office, Selected Winner: Spring 2013.
- Best Presentation, Architectural Engineering Division, ASEE Annual Conference, Vancouver BC, 2011.
- Meredith Teaching Recognition Award, Syracuse University, Spring 2011.
- Princeton E-council Award for Teaching Excellence for CEE 366, Spring 2005.

SELECTED PUBLICATIONS

Book:

S.C. Mac Namara, C. J. Olsen. *Collaborations in Architecture and Engineering.* Routledge July 2014.

Book Chapters:

S.C. Mac Namara. L. D. Bowne. "Play Perch" in *The Design Build Studio; Crafting Meaningful Work in Architecture Education* edited by Toyla Stonorov. Routledge, 2017.

S.C. Mac Namara. L. D. Bowne. "Play Perch" in *Green, Hidden and Above - The Most Exceptional Tree-houses* edited by Sibylle Kramer. Braun Publishing, Switzerland, 2015.

Peer Reviewed Articles:

S.C. Mac Namara. L. D. Bowne. Play Perch and The Berg: A Tale of Two Projects. *Dialectic III: A Journal of School of Architectur*e, University of Utah. September, 2015.

S.C Mac Namara, C. J. Olsen. Collaborations in Architecture and Engineering. *Albeena Magazine*, Saudi Arabia. March 2015.

S.C. Mac Namara. Structural Art in Contemporary Engineering Education *Festschrift Billington.* editors: Hines, Buonopane, & Garlock, International Network for Structural Art, Princeton 2012.

S.C. Mac Namara, M. Garlock, D.P. Billington. Structural Response of Nuclear Containment Shield Buildings with Construction Openings, *ASCE Journal of Performance of Constructed Facilities*, Vol. 21, No. 2, March/April 2007, pp. 152-156.

Referred Conference Proceeding Publications:

S.C. Mac Namara. Preparing Structural Engineers for Collaboration in Contemporary Design Practice. *Proceedings of the 6th Annual Structural Engineering World Congress, Cancun, Mexico, November 2017.*

A. Bartosh, E. Krietemeyer, and S.C. Mac Namara, Student Pre-Perceptions of Integrated Design and the Role of Technical Courses in the Architectural Studio. *Proceedings of ASEE 2016 Annual New Orleans, LA.*

S.C. Mac Namara, C.J. Olsen. The Rewards of Collaboration. *Proceedings of the 104th Annual ACSA Meeting*, Seattle WA, March 17-19, 2016.

S.C. Mac Namara. L. D. Bowne. Controlled Chaos: Modeling Interdisciplinary Practice for Architecture and Engineering Students. *Proceedings of the ASEE 2015 Annual Conference Seattle, WA.*

S.C. Mac Namara. J. V. Dannenhoffer, Scaling Up: The Design Competition as a Tool for Teaching Statics. *Proceedings of the ASEE St, Lawrence Division Conference, Syracuse, April 2015.*

S.C. Mac Namara. L. D. Bowne. Play Perch: A Case Study of Design Build in the Curriculum. *Proceedings of the American Collegiate Schools of Architecture NE Conference 2014, Halifax, NS. October 2014.*

S. C. Mac Namara. Expanding Expectations: A Community Service Accessible Design-Build Project as an Instigator of Curricular Change. *Proceedings of the BTES Conference 2013 "Tectonics of Teaching" Bristol, RI.*

S.C. Mac Namara. R. Svetz, Hidden in Plain Sight: Campus Scavenger Hunt to Teach Structures and Technology to Architects. *Proceedings of the ASEE 2013 Annual Conference Atlanta, GA.*

S.C. Mac Namara. J. V. Dannenhoffer, First Encounters: Statics as the Gateway to Engineering Culture. *Proceedings of the ASEE 2013 Annual Conference Atlanta, GA.*

S.C. Mac Namara. Bringing Engineering into the Studio: Design Assignments for Teaching Structures to Architects. *Proceedings of the ASEE 2012 Annual Conference, San Antonio, Texas.*

S.C. Mac Namara. Topology Optimization: The Use of Cutting Edge Numerical Methods in Teaching Structures to Architects. *Proceedings of the ASEE 2012 Annual Conference, San Antonio, Texas.*

C.J. Olsen, S.C. Mac Namara. In Support of Pre-Professional Relations: Guidelines for Effective Educational Collaborations between Architecture and Engineering. *Proceedings of the 100th Annual ACSA Meeting, Boston MA, March 1-4, 2012.*

S.C. Mac Namara, C.J. Olsen. The Value of Trans-disciplinary Design Education with Architects for Engineering Students. *Proceedings of the 2011 ICEE Conference on Engineering Education, Belfast, N. Ireland.*

S.C. Mac Namara. Pedestrian Bridges - Structural Design by Masters of Architecture Students. *Proceedings of the ASEE 2011 Annual Conference and Exposition, Vancouver Canada, June 2011.*

S.C. Mac Namara. The Use of Historical Precedent in Teaching Structures to Architecture Students. *Proceedings of the ASEE 2011 Annual Conference and Exposition, Vancouver Canada, June 2011.*

S.C. Mac Namara, M. Garlock. Delamination in Two Layer Thin Shell Dome with Unanticipated Construction Openings *Proceedings of the 6th International Conference on Computation of Shell and Spatial Structures IASS-IACM 2008: "Spanning Nano to Mega", John F. ABEL and J. Robert COOKE (eds.) Cornell University, Ithaca, NY, 28-31 May 2008.*

S.C. Mac Namara, D.P. Billington. Delamination and the structural response of thin shell concrete in nuclear shield buildings with unanticipated construction openings. *Proceedings of the 6th annual international conference on fracture mechanics of concrete and concrete structures, Catania, Italy, 17-22 June 2007.*

MEMBERSHIPS AND SERVICE TO THE PROFESSION

Memberships:

- ACSA, ASEE, BTES.

Service

- TAD: Technology and Design, Journal reviewer. 2016-present.
- ASEE: Annual Conference and Exposition, Best Paper Jury, 2015, Architectural Division, Treasurer, 2011 – 2013, 2015-present, Chair 2013-2015, Reviewer 2010 – present. Mechanical Division Reviewer 2010-2014.
- NSF Review Panels, Research in Engineering Education, October 2011, June 2012, July 2015.
- Routledge, Book Peer Reviewer 2013-present.
- Journal of Engineering Education, Peer Reviewer, 2013.
- Wiley, Reviewer for beta test of new digital online learning environment for Statics, 2013.
- a2ru Alliance for the Arts in Research Universities, Curricular and Co-Curricular Committee, Member 2013-2015.
- NSF Education Awardees Conference, Reston VA, March 2010, panel coordinator and final report author.

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BTES 2018 Election Nominations

Secretary

Amber Bartosh

Chad Schwartz

Amber Bartosh R.A. LEED AP BD+C
Assistant Professor, Syracuse University

As a new member of BTES, the collegial and supportive spirit of this organization has inspired me to want to contribute more directly. I feel confident that I can perform the stated duties of the BTES Secretary as I have fulfilled this role for other committees previously. I welcome the opportunity to be more actively engaged as a record keeper, archivist and organizer in support of the BTES conference, website development, and membership activities planned for the upcoming years. Thank you for your consideration.

AMBER BARTOSH R.A. LEED AP BD+C

abartosh@syr.edu + 303.475.5310

QUALIFICATIONS

Colorado Architect License No. 400994
National Council for Interior Design Qualification - Certificate No. 21135
LEED BD+C Accredited / GBCI - Number 10204175

EDUCATION

SCI-Arc
M.Arch2 Los Angeles, CA, 2010
Rice University
B.A. Double Major - Architecture and Art, Houston, TX, 2000

PROFESSIONAL POSITIONS

Interactive Design and Visualization Lab
Co-Director, Syracuse, NY, 2015-current
EMERGENT Tom Wiscombe LLC
Director of Operations/Architecture, Los Angeles, CA 2010-2011
Fentress Architects Ltd.
Associate Architect / Lead Interior Designer, Denver, CO, 2003-2009

ACADEMIC POSITIONS

Syracuse University
Assistant Professor, Syracuse, NY, 2014-current
Cornell University
Visiting Critic, Ithaca, NY, 2010-2013
SCI-Arc
Teaching Assistant, Los Angeles, CA, 2010

PUBLICATIONS

Krietemeyer B. and Bartosh A.,"Shared Realities: A Method for Adaptive Design Incorporating Real-Time User Feedback using Virtual Reality and 3D Depth-Sensing Systems", ACADIA 2017, Conference Proceedings, (Nov. 2017).

Li, F and Bartosh, A.,"Dialogue with a Artificially Intelligent Wall", International Journal of Cultural and Creative Industries, Taiwan,Taipei (Nov. 2017).

Bartosh, A. and Krietemeyer, B. "Virtual Environment for Design and Analysis (VEDA): Interactive and Immersive Energy Data Visualizations", Architectural Design, premiere issue of Technology | Architecture, and Design (TAD), peer-reviewed, (Spring 2017).

Olujobi, T. and Bartosh, A., "Unreal Urbanisms", Responsive Cities Conference Proceedings", (September 2016).

Li, F. and Bartosh A. "Wall Parley", project spread. ACADIA 2016 POSTHUMAN FRONTIERS: Data, Designers, and Cognitive Machines : Proceedings of the 36th Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA), (Nov 2016).

Bartosh, A., Krietemeyer, B. and Mac Namara, S. "Role of Technical Courses in the Architectural Studio." Proceedings of the American Society for Engineering Education (ASEE), (June 2016).

Bartosh, A. The Per[FORM]ance of Mediated Environments, ACSA Fall Conference Proceedings, (October 2015).

Bartosh, A. "Building Organisms: Biomimicry as a Model for Building Systems" Sustainability through Biomimicry, Conference Publication, University of Dammam, (November 2012).

Manferdini, E. and Manferdini, A.M. "Synthetic", in Integration through Computation: Project Catalog of the 31st Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA), 2011. Selected design reference and contributed text

Manferdini, E. "Synthetic", selected design reference and contributed text. April, 2010

AMBER BARTOSH R.A. LEED AP BD+C

abartosh@syr.edu + 303.475.5310

INVITED SPEAKER

"Shared Realities: A Method for Adaptive Design Incorporating Real-Time User Feedback using Virtual Reality and 3D Depth-Sensing Systems, paper presentation with Bess Krietemeyer, ACADIA 2017 Conference. Cambridge, MA, Novemember 2017.

"Designing Better Environments Using VR",Light and Sound Interactive. Rochester, NY, September 2017.

"Invisible Flows: Experiencing Ambient Energy in Architectural Design" Building Technology Educator's Society (BTES) Conference. Des Moines, IA, June 2017.

"Hybrid Reality for Environmental Design", Syracuse Center of Excellence Research & Technology Forum. Syracuse, NY, April 2017.

"Virtual Reality in Syracuse", Sundance, Ignite on Tour. Syracuse, NY, April 2017.

"Unreal Urbanisms",Responsive Cities Conference. Barcelona, Spain, September 2016.

"Transforming Design and Energy for a Sustainable and Resilient Future, Physical, Digital, and Virtual Prototyping of Emergent Materials for Building Envelopes", 2016 Syracuse CoE Symposium. Syracuse, NY, September 2016.

"Future Cities", Panel Moderator. 2016 Syracuse CoE Symposium. Syracuse, NY, September 2016.

"In the Digital Age of Architecture, Internet of Things (IoT) and Open Innovation (OI) are the future systems of the Architectural Object", ACSA Fall Conference Debate, moderated by Wendy W. Fok of Harvard University. Syracuse, NY, October 2015.

"Environmentally Responsive Architecture through Interactive Design, Prototyping and Simulation", Research & Technology Forum. Syracuse, NY, May 2015.

"Genetic Redundancy, Organically Inspired Building Systems ",Rochester Institute of Technology, Sustainability Lecture Series. Rochester, NY, February 2015.

"Genetic Redundancy", AIANYS Design Conference, Saratoga Springs, NY, October 2014.

"Building Organisms: Biomimicry as a Model for Building Systems" Keynote Speaker, paper presetation, Sustainability through Biomimicry Conference. University of Dammam, Saudi Arabia, November 2012.

SERVICE

Coordinator, 2016 Syracuse Center of Excellence Symposium
Goldring Arts Journalism Program (Newhouse), Faculty Advisor Program, 2016-current
Architecture Representative to University Senate 2015-2017
University Curriculum Committee 2015-2017
Syracuse University, SoA Curriculum Committee, Secretary, 2016-current
Syracuse University, Search Committee 2017-current
Graduate Student Association, Faculty Advisor 2014-current
Syracuse University Remembrance Scholarship Selection Committee 2014-current
Syracuse University, SoA Technology & Space Committee, chair 2014-2016
ACSA Representative 2015-2016
Syracuse University, SoA Exhibition and Admissions Committees 2012-2014
AIA Women in Design 2008-2010
AIA Intern Advocate Comittee 2008-2010

Chad Schwartz, R.A.
Assistant Professor, Kansas State University

For the past fifteen years, I have been doing my very best to help educate the future of our profession. After spending eight years as an adjunct faculty member teaching in the design studio, in 2011 I was honored to accept my first full-time position where I was presented the opportunity to teach building technology. I have since built both a teaching pedagogy and a research agenda around the relationship between design and construction, exploring the realm of the tectonic. These interests led me, naturally, to the BTES. I have been a member for several years, but my first experience participating in the organization came this past June, when I attended the conference in Iowa. I found the experience to be exceptionally meaningful and the collective mindset of the group inspiring. As such, I would like to contribute in a more profound way to the continuing success of the society. I feel that am best suited to serve the organization in the role of Secretary. The position requires an individual who is highly organized, attentive to detail, and experienced with implementing organizational initiatives. I feel that my skill set and experience fulfill these requirements and I am eager to learn from those of you who are currently serving and who have served so effectively in the BTES in the past. I hope to have the opportunity to demonstrate to you that my natural proclivity to organization, my developing leadership skills, and my experience chairing academic committees and conferences are an ideal fit for the Building Technology Educators' Society.

CHAD SCHWARTZ

CURRICULUM VITAE

Department of Architecture
College of Architecture, Planning & Design
Kansas State University
211 Seaton Hall
Manhattan, Kansas 66506
email | cschwartz@ksu.edu

EDUCATION

Arizona State University
Masters of Architecture | 2003
Design Thesis | Walking in Beauty: A Wellness Center for the Salt River Community

University of Illinois - Chicago
Bachelor of Art in Architecture | 2000

RECENT EXPERIENCE

Assistant Professor
Kansas State University
Manhattan, KS
Fall 2017 – Present

Associate Professor
Southern Illinois University
Carbondale, IL
Awarded promotion July 2017 and tenure in August 2017, but resigned prior to start of tenured appointment.

Assistant Professor
Southern Illinois University
Carbondale, IL
Fall 2011 – Summer 2017

Faculty Associate
Arizona State University
Tempe, AZ
Fall 2003 – Summer 2011

LICENSURE

Registered Architect in the State of Arizona
#47869 | 06.30.2020

Registered Architect in the State of Illinois
#001.021434 | 11.30.2018

NCARB Certificate #116725 - 71950

RECENT ACADEMIC SERVICE

Academic Affairs Committee | Department of Architecture | Kansas State University
Fall 2017 - Present (member)

NAAB Accreditation Committee | Department of Architecture | Kansas State University
Fall 2017

Symposium Committee | College of Applied Sciences and Arts | Southern Illinois University
Spring 2016 - Summer 2017 (chair) + Spring 2015 - Summer 2017 (marketing chair)

Research Committee | College of Applied Sciences and Arts | Southern Illinois University
Spring 2016 - Summer 2017 (chair) + Spring 2015 - Fall 2015 (member)

Operations Board | Journal of Applied Sciences and Arts | Southern Illinois University
Spring 2016 - Present (member)

Technical Director for Foundations | School of Architecture | Southern Illinois University
Spring 2016 – Summer 2017

Facilities and Technology Committee | School of Architecture | Southern Illinois University
Fall 2014 - Summer 2017 (chair) + Fall 2011 - Summer 2014 (member)

Digital Fabrication Lab Supervisor | School of Architecture | Southern Illinois University
Spring 2012 – Summer 2017

Student Prospectus Committee | School of Architecture | Southern Illinois University
Fall 2011 - Summer 2017 (chair)

TEACHING HONORS

Schwartz, C. (2017). 2017 Southern Illinois University Center for Undergraduate Research and Creative Activities Faculty Mentor Award of Excellence

Schwartz, C. (2014). 2014-2015 School of Architecture Teacher of the Year - Southern Illinois University-Carbondale

Schwartz, C. (2012). 2011-2012 American Institute of Architectural Students Excellence in Architectural Education Award.

TEACHING INTERESTS

1: Infusing critical making, detail and material exploration, and inter-disciplinary creative making into the architectural design studio.

2: Utilizing courses in building technology to infuse the notion of the tectonic in the education of the student. Exploring the interweaving of the technical and the poetic in the study of the construction of architecture.

3: Utilizing design/build as a pedagogy for delivering learning objectives in a variety of different course types.

BOOKS

Schwartz, C. (2016). *Introducing architectural tectonics: Exploring the intersection of design and construction*. New York: Routledge.

JOURNAL ARTICLES

Schwartz, C. (2016). Critical making: Exploring the use of making as a generative tool. *The Journal of Curriculum and Pedagogy*, 13(2), 227-248.

Schwartz, C. (2016). Architectural signs: Translating the linework of architecture. *Architectural Research Quarterly*, 20(3), 193-197.

Schwartz, C. (2015). Investigating the tectonic: Grounding theory in the study of precedents. *The International Journal of Architectonic, Spatial, and Environmental Design*, 10(1), 1-15.

Schwartz, C. (2015). Debating the merits of design/build: Assessing pedagogical strategies in an architectural technology course. *Journal of Applied Sciences and Arts*, 1(1), 8-21.

Schwartz, C., Morthland, L., & McDonald, S. (July 2014). Building a social framework: Utilizing design/build to provide social learning experiences for architecture students. *Architectural Theory Review*, 19 (1), 76-91.

Schwartz, C. (2013). Drawing conclusions: A student's introduction to the realities of their designs. *Design Principles and Practices: An International Journal - Annual Review* 7, 19-28.

*This paper has been awarded an editor's selection into this special issue after peer-reviewed selection into *The International Journal of Design Education*. It has also been selected as the journal collection's paper of the year. (see honors and awards)

CONFERENCE PROCEEDINGS

Schwartz, C. (2017, June). Intersections. In S. Doyle, T. Leslie, & R. Whitehead (Eds.), *Poetics and Pragmatism Proceedings, Papers Presented at BTES 2017* (p. 241-248). Building Technology Educators' Society.

Schwartz, C. (2017, June). A taxonomy of architectural tectonics. In S. Doyle, T. Leslie, & R. Whitehead (Eds.), *Poetics and Pragmatism Proceedings, Papers Presented at BTES 2017* (p. 179-186). Building Technology Educators' Society.

Schwartz, C. (2017, June). Examining strategies for delivering design/build content in high-enrollment architecture courses. In S. Doyle, T. Leslie, & R. Whitehead (Eds.), *Poetics and Pragmatism Proceedings, Papers Presented at BTES 2017* (p. 11-18). Building Technology Educators' Society.

Schwartz, C. (2015). Constructing experience: Exploring design/build strategies within a technology course. In T. Cavanagh, U. Hartig, & S. Palleroni (Eds.), *Working Out | Thinking While Building: Papers from the 2014 ACSA Fall Conference* (p. 331-339). New York: ACSA Press.

McDonald, S., Schwartz, C., & Morthland, L. (2014). Design build: Collaborative labor creating community. In J. Stuart & M. Wilson (Eds.), *Globalizing Architecture / Flows and Disruptions: 102nd ACSA Annual Meeting* (p. 658-666). New York: ACSA Press.

JOURNAL ARTICLES

Schwartz, C. (2016). Critical making: Exploring the use of making as a generative tool. *The Journal of Curriculum and Pedagogy*, 13(2), 227-248.

Schwartz, C. (2016). Architectural signs: Translating the linework of architecture. *Architectural Research Quarterly*, 20(3), 193-197.

Schwartz, C. (2015). Investigating the tectonic: Grounding theory in the study of precedents. *The International Journal of Architectonic, Spatial, and Environmental Design*, 10(1), 1-15.

Schwartz, C. (2015). Debating the merits of design/build: Assessing pedagogical strategies in an architectural technology course. *Journal of Applied Sciences and Arts*, 1(1), 8-21.

Schwartz, C., Morthland, L., & McDonald, S. (July 2014). Building a social framework: Utilizing design/build to provide social learning experiences for architecture students. *Architectural Theory Review*, 19 (1), 76-91.

Schwartz, C. (2013). Drawing conclusions: A student's introduction to the realities of their designs. *Design Principles and Practices: An International Journal - Annual Review* 7, 19-28.

*This paper has been awarded an editor's selection into this special issue after peer-reviewed selection into *The International Journal of Design Education*. It has also been selected as the journal collection's paper of the year. (see honors and awards)

RESEARCH HONORS + AWARDS

Schwartz, C. (2017). Honorable Mention - BTES Book of the Year Competition for *Introducing Architectural Tectonics: Exploring the Intersection of Design and Construction*. Building Technology Educators' Society.

Morthland, L., Schwartz, C., and Huang, Q. (2017, March). IDEC Award of Excellence: Best Poster. Interior Design Educator's Council.

* *The poster Design-Build: A Campus Mother's Room was presented at the 2017 Interior Design Educators Council Annual Conference in Chicago, Illinois.*

Schwartz, C. (2016, October). Invited to be 2016 Creative Campus Distinguished Speaker. Sheridan College, Toronto (Brampton), Canada

Schwartz, C. (2014). The Design Collection's 2013 International Award for Excellence. Common Ground Publishing.

* *The paper "Drawing Conclusions: A Student's Introduction to the Realities of Their Designs" was selected for this paper of the year award for excellence from the highest ranked papers emerging from the peer review process.*

Schwartz, C. (2012). Faculty Fellow for Service-Learning. Southern Illinois University Center for Service-Learning and Volunteerism. Awarded $500.

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BTES 2018 Election Nominations

Board Members

POSITION 1 - SOCIAL MEDIA AND WEB SUPPORT

Anne Nichols

Anne Nichols, Ph.D. – Texas A&M University
Associate Professor of the Practice of Architecture

I am a civil engineer by training, but not a traditional civil engineer by practice.

I have experience as a consulting engineer on architectural projects, but my interest in the computing side of structural engineering led me to Caterpillar, Inc. where I supported the design engineers for construction equipment as a software developer and furthered my interest in material, design, and integration.

I have been teaching architectural structures to undergraduates and graduates for nearly twenty years, and have channeled my passion for computer-aided design into teaching instruction with several learning management and web design systems. I also supported the member database for the Cements division of the American Ceramic Society while in graduate school.

BTES is a progressive, vibrant society with which my interest and expertise more closely align than my participation in the American Society of Civil Engineers. I believe I can contribute to the society as a board member in the capacity of social media and web support with my background in coding, data management and analysis, and interest and experience in social media.

ANNE B. NICHOLS (FORMERLY ABELL) CURRICULUM VITA

Texas A&M University
Department of Architecture
A435 Langford Center
College Station, TX 77843-3137

(979) 845-6540
fax: (979) 862-1571
anichols@tamu.edu

EDUCATION

2000 Ph.D. Civil and Environmental Engineering, University of Illinois, Urbana-Champaign (UIUC)
Construction Materials & Structures

1986 Master of Science in Civil Engineering, Purdue University
Computer Graphics Applications in Structural Engineering

1985 Bachelor of Science in Civil Engineering with Distinction, Purdue University
Structural Major, Geotechnical & Systems Analysis Minors

PROFESSIONAL REGISTRATION

Engineer in Training (Indiana), 1985
Eligible for Professional Registration (Illinois), 1997

EXPERIENCE

ACADEMIC POSITIONS

2011 – present	Associate Professor of Practice	Texas A&M University
2002 – 2011	Assistant Professor	Texas A&M University
1999 – 2002	Assistant Professor	University of Illinois, Urbana-Champaign
2001 – 2002	Research Associate	University of Illinois, Urbana-Champaign
1993 – 1999	Graduate Research Assistant	University of Illinois, Urbana-Champaign
1986	Visiting Instructor	Purdue University
1986	Graduate Teaching Assistant	Purdue University
1985	Graduate Research Assistant	Purdue University

PROFESSIONAL EMPLOYMENT

2001	Consultant Engineer	Vegrzyn, Sarver & Associates, Inc.
1997 – 1998	Microscopist	Construction Technology Laboratories, Inc.
1988 – 1993	Computing Engineer	Caterpillar, Inc.
1986 – 1988	Civil Engineer	Stevens Associates, Architects

SELECT PUBLICATIONS

Peer Reviewed Journals

Nichols, A.B., Lange, D.A. (2012) "Fracture Surface-Based Toughness Modeling of Cement-Based Materials." *ACI Journal of Materials*, 109(1), 41-52.

Peer Reviewed Conference Proceedings

Nichols, A., Holliday, S. (2011), "From Foundations to Integration in Structures: A Response to Curriculum Consolidation." *Proceedings of the Building Technology Educators' Society Conference Proceedings: Convergence + Confluence*, The Building Technology Educators' Society, Toronto, ON, ISBN 978-1-257-93941-1, 3-12.

Editor

Nichols, A.B. (2016). "Instructor Manual for the Twelfth Edition of Simplified Engineering for Architects and Builders by James Ambrose and Patrick Tripeny," John Wiley & Sons, Inc., Hoboken, NJ.

Course Web Pages

Nichols, A.B. (created 2008). "Web Page of ARCH 331 – Architectural Structures." http://faculty.arch.tamu.edu/anichols/architectural-structures/

Online Courses

Nichols, A.B. (2002-present). Texas A&M eCampus Online Course Section of ARCH 631 (5 semesters); Texas A&M ELearning (retired 2013) (10 semesters). Most recent section: 17 FALL ARCH 631 600: Applied Arch Structures at https://eCampus.tamu.edu

DOCTORAL THESIS

Microstructure and Its Relationship to Fracture in Portland Cement Mortar and Concrete, University of Illinois, Urbana-Champaign (2000)

Imaging, characterization, testing and computer modeling of microstructural fracture behavior.

TEACHING

TEACHING AREAS

Statics, Mechanics of Materials, Soil Mechanics, Civil Engineering Materials, Concrete Technology, Structural Analysis, Structural Design (Concrete, Masonry, Steel, Wood), Foundation Design, Structural Planning, Surveying

PROFESSIONAL ORGANIZATIONS AND SERVICE

SELECT DISCIPLINARY AND PROFESSIONAL SOCIETIES

American Ceramic Society (ACerS); Member, 1993-99; Cements Division Web Page Editor, 1997-99

American Concrete Institute (ACI), Member, 2000-14

American Institute of Architects (AIA); Associate Member. 2002

American Society of Civil Engineers (ASCE); Associate Member, 1985-present

American Society of Engineering Educators (ASEE); Member, 2007-present

American Society of Testing and Materials (ASTM); Member, 2001-present

Building Technology Educators' Society (BTES); Member, 2008-present

SELECT UNIVERSITY SERVICE

University

Associate Dean of Faculties and Director for the Center of Teaching Excellence Search Committee; Member, 2009

Aggie ALLIES; Ally, 2007-present

Expanding Your Horizons Workshop (College of Science); Presenter, 2004-present

College

Solar Decathlon 2007; Structural Engineering Consultant, 2006-2007

Department

Faculty Workload Policy Committee; Member, 2017-present

Masters of Architecture Committee; Member, 2007-2017

Technology Caucus Committee; Member, 2006-present; Vice-Chair, 2009-2011, Chair 2017-present

Caudill Research Fellowship Committee; Member, 2006-2010

History Faculty Search Committee; Member, 2005-06; Contributor, 2008

BTES
BUILDING
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BTES 2018 Election Nominations

Board Members

POSITION 2 - MEMBERSHIP AND NETWORKING

Robert Dermody

Jenn McArthur

Kristin Nelson

Robert J. Dermody, AIA, NCARB
Associate Professor
Roger Williams University, Bristol, RI

Statement of Interest for BTES Board Member Position 2 - Membership and Networking

I have been an active member of the Building Technology Educators Society since its founding in 2006, and have participated in all six BTES conferences. In 2013, I hosted, and served as co-chair, of the 4th BTES conference, *Tectonics of Teaching*, held at Roger Williams University in Bristol, RI. For the past three years, I served the organization as Treasurer. Since last summer, I have been co-coordinating the newly launched BTES mentoring program.

As the organization enters its second decade, I am more committed than ever to furthering the mission of BTES. Our organization is ideally positioned to play a significant role in shaping architectural and technical education in the 21st century. As the demand for economical, efficient, sustainable building designs increase, it is critical for teachers of technology in schools of architecture to contribute their expertise to design education. We must strive to develop and share the best pedagogic practices and innovative scholarship/research among individuals with the knowledge and passion for technical subjects. The diverse and talented membership of BTES is an excellent cohort to facilitate student learning in rapidly evolving technical design fields. I will bring practical experience from both teaching and professional practice to the BTES Board. I will work closely with the officers and other Board members to continue to grow the organization and promote recent initiatives, such as the mentoring program and topical membership groups. I will work to expand our membership's opportunities to connect with colleagues, to learn best teaching practices, and to provide a network for collaborative research. I believe in the BTES mission, and I am passionate about teaching technology to design students. I will work diligently to provide informed leadership to this important and maturing organization.

Robert J. Dermody, AIA
Roger Williams University
School of Architecture, Art and Historic Preservation
1 Old Ferry Road, Bristol, RI 02809

Education

1993	MArch, University of Illinois at Urbana-Champaign
1990-1991	L'Ecole d'Architecture de Versailles, Univ. of Illinois Study Abroad Program
1986	BSCE, University of Massachusetts at Amherst

Teaching Experience

2010 - present	Associate Professor of Architecture, Roger Williams University, Bristol, RI
2011 Fall	Visiting Assistant Professor, Civil Engineering Department Tufts University
2004 - 2010	Assistant Professor of Architecture, Roger Williams University, Bristol, RI
2003 - 2004	Assistant Professor of Architecture, University of Illinois at Urbana-Champaign
2002	Inaugural Hilfinger Faculty Fellow, University of Illinois at Urbana-Champaign
1999 - 2000	Lecturer - Massachusetts Institute of Technology, Cambridge, MA

Professional Experience

1999 – 2001	ADD Inc, Cambridge, MA - Project Architect
1995	Payette Associates, Boston, MA - Project Architect
1993 – 1994	LeMessurier Consultants, Cambridge, MA - Project Engineer; Structural

Co-Chaired Conferences

Tectonics of Teaching, bi-annual conference of the Building Technology Educators' Society, hosted at Roger Williams University, Bristol, RI, July 2013. Co-chaired with Andrzej Zarzycki, NJIT.

Selected Publications

Book, Contributor

Allen, Edward and Waclaw Zalewski, Form and Forces: Designing Efficient, Expressive Structures. Hoboken, New Jersey: John Wiley & Sons, Inc., 2010.

Conference Proceedings, Co-Editor

"Teaching Tectonics" Co-Editor of Proceedings of the 2013 Building Technology Educators Society Conference, hosted at RWU, Bristol, Rhode Island.

Papers

"A Survey of Structures Education in North American Schools of Architecture." In *Proceedings of the 3rd International Conference on Structures and Architecture: Beyond Their Limits, Guimarães, 2016*, London: Taylor & Francis Group. Co-authored with Deborah Oakley and Marci Uihlein.

"David Steinman, Design and Construction of the Mackinac Bridge." In *Proceedings of the 5th International Congress on Construction History, Chicago, 2015*, Chicago: Construction History Society of America.

"Embracing the Past: Using Historical Structures to Teach Engineering Fundamentals." In *Proceedings of the American Society for Engineering Education Annual Conference, San Antonio, 2012*, Washington: American Society for Engineering Education.

"Get the Form Right! Teaching Structural Design to Architects." In *Proceedings of the 1st International Conference on Structures and Architecture, Guimarães, 2010*, London: Taylor & Francis Group.

"Linkage: The Undergraduate Materials and Methods Lecture Course and its Companion Studio." In *Proceedings of the Building Technology Educators' Conference: Assembling Architecture, Albuquerque, 2009,* Idaho: Building Technology Educators' Society. Co-authored with Patrick Charles.

"Re-Connecting with Connector." In *Proceedings of the Building Technology Educators' Conference: Assembling Architecture, Albuquerque, 2009,* Idaho: Building Technology Educators' Society. Co-authored with Edward Allen and Christine Theodoropolous.

"Student Design Competitions in Engineering Education." In *Proceedings of the American Society for Engineering Education Northeast Section Conference, Bridgeport, 2009*, Washington: American Society for Engineering Education.

"A Different Kind of Structures Problem." In *Proceedings of the Building Technology Educators' Symposium, College Park, MD, 2006,* Idaho: Building Technology Educators' Society.

Podcasts

"Fenway Park". *Culture Now, Museum Without Walls*. Podcast audio, 2013.
"The Custom House Tower". *Culture Now, Museum Without Walls*. Podcast audio, 2013.

Media Appearances

"Some roofs more likely to cave to winter stresses." Interview by Eli Sherman. *Providence Business News*, 2015.
"Five Questions With: Robert J. Dermody." Interview by Chris Barrett. *Providence Business News*, 2010.

Honors and Awards

2016 Faculty Sponsor Award, IFAI Student Design Competition
2015 Faculty Sponsor Award, IFAI Student Design Competition
2014 Provost's Foundation to Promote Scholarship and Teaching Course Release
2014 Flansburgh Traveling Fellowship from Boston by Foot
2012 Best Presentation, Architectural Engineering Division, ASEE National Conference

Professional Affiliations & Memberships

American Institute of Architects
Boston Society of Architects
Building Technology Educators Society
Construction History Society of America
Structural Engineers Association of Massachusetts
American Society of Engineering Education
American Society of Civil Engineers

Professional Registrations/Certifications

2013 California Office of Emergency Services Safety Assessment Program
2009 National Council of Architectural Registration Boards Certificate
2008 Architect's License, Massachusetts
1985 Engineer in Training Certificate, Massachusetts

Jenn McArthur, P.Eng, PMP
Assistant Professor, Ryerson University

If given an opportunity to serve BTES through the Membership and Networking board position, I believe that my existing network, interdisciplinary research and practice focus, and demonstrated communication, outreach, and organizational skills will be a significant asset to help BTES to expand our current membership and strengthen relationships between BTES and allied organizations.

My research focuses on *leveraging data analytics with BIM to improve the performance of existing buildings***,** which has led me to active collaboration both with data scientists and other built environment practitioners across engineering and architecture disciplines. In 2016, I organized a strategic workshop on *Big Data in the Built Environment*, hosting 50 participants from the US and Canada to identify new developments, current needs, and opportunities for collaboration. This led to the establishment of a research network, and earlier this year I led a coalition of eight universities and five industry partners within this network to submit its first major ($5M) team grant, which required significant outreach, communication, and coordination.

Pedagogically, I am interested in leveraging the most appropriate emerging technologies to help students to realize and refine their designs, and my recent pedagogical work has included integrating data-driven design practices and Augmented Reality into studio, and the development of a BIM Toolkit to provide students with sophisticated and contextualized BIM skills in the undergraduate curriculum. This has led me to become highly involved in the buildingSMART education committee who is developing BIM curriculum guidelines for Architecture and Engineering programs, and I have been an invited speaker at national workshops on this topic to share my work. I believe that BTES can and should be influencing such curriculum guidelines to leverage the wealth of knowledge within our existing membership body. At the same time, I believe that collaboration with organizations such as buildingSMART has significant potential to identify and attract new members.

A compulsive extrovert, there is nothing I enjoy more than going to an event where I can meet new people, identify areas of common interest and passion, and explore opportunities for future partnership and collaboration. My recruitment, communication, and organizational skills were developed through multiple terms in student leadership in university and refined while working overseas (India and Senegal) where I had to communicate across both linguistic and cultural barriers and truly learned to *listen*. These skills were instrumental when building the mechanical design team at Arup in Toronto (from 2-16 people in 2.5 years), where I had to build a strong network both internally (coordinating staff from other offices to deliver large projects) and externally as we established the Buildings Practice and had to build relationships with clients and industry associations such as the Canada Green Building Council and 2030 eco-districts, both of whom I believe could be potential allied organizations given the significant reliance on simulation for sustainable design and the need to develop these skills within the AEC profession.

In summary, I would like to serve BTES through this board position that I feel best leverages my experience from practice, love of engaging with new people and building collaborations, and existing networks across multiple disciplines and domains, which can both expand the BTES membership and enhance our role as leaders in building technology education.

Jenn McArthur (P.Eng, PMP)

Jennifer.mcarthur@ryerson.ca | 416-979-5000 x4082 | @makesjennthink

Profile

Jenn is an Assistant Professor in the Department of Architectural Science at Ryerson University. Her primary research focus is on environmental design, investigating the relationship between sustainability, occupant wellness and productivity, and the application of data analytics to inform next-generation building design. Prior to her academic career, Jenn worked as a buildings consultant for over 10 years.

Terminal Degree

Master of Applied Science (MS-equivalent), **University of Waterloo, Waterloo, ON** 2003
Thesis: Design of protective footwear for de-mining personnel

Selected Professional Experience

Assistant Professor, Dept. Architectural Science, Ryerson University, Toronto, Canada 2014-present

- **Teaching**: Integrated design studio (3rd year); core and elective project management courses
- **Research Areas:** BIM, integration of data analytics and simulation in design, workplace wellness and productivity, sustainable buildings and districts
- **Supervisions:** 32 highly-qualified personnel (HQP) supervised to date across the Architecture and Building Science graduate programs

Associate | Mechanical Engineer, Arup, Toronto, Canada 2010-2014

- Led mechanical design for over $700M in completed buildings including: York University Bergeron Centre for Engineering Excellence, 2015 Pan Am Games Stadia and Velodrome, Billy Bishop Airport Pedestrian Tunnel Expansion, Vaughan Metropolitan Center Subway, York University Subway, Corkstown Commons
- Assisted with establishment of Buildings Practice in Toronto; led Existing Buildings offering
- Awarded multiple internal R&D grants for design guideline and optimization tool development

Engineering Consultant, Various organizations, India & Senegal 2003-2009

- Disaster response, hospital expansion/renovation and sustainability, rural development

Selected Memberships and Board Positions

Board Member (Technologist-in-residence), Subtle Technologies 2017-present

- Governance and oversight of a local art/science/technology organization the presents an annual festival and supports builds technical capacity within other local arts organizations

Member, Building Technology Educator's Society (BTES) 2017-present
Education Committee, BuildingSMART Canada 2015-present
Research & Education Committee, Canada BIM Council 2015-present
Member, Canadian Society for Studies in Higher Education 2017-present
Editorial Board, Intelligent Buildings International Journal 2016-present
Member (LEED GA), Canada Green Building Council 2011-present

- Program Committee – Building Lasting Change Conference, 2015
- Membership Committee 2012-2015

Selected Research Outputs

Books and Chapters in Books

Brandt M, Warden C, Sosa J, Barrett et al. (2016). Building Resilience: Practical Guidelines for the Retrofit and Rehabilitation of Buildings in Canada. 1: 151. Federal Provincial Territorial Historic Places Collaboration.

McArthur J. (2017). *Achieving holistic sustainability: considering wellness alongside resource use in buildings*. In: Clements-Croome D. Creating the Productive Workplace. 3rd: 335-348. Taylor & Francis.

Selected Peer-Reviewed Publications (indicates student co-author)*

1. McArthur, J., Sun, X*. "Disrupting the Status Quo with Early-Stage BIM-Based Energy Modeling." *Technology, Architecture, and Design*. 2(1) (2017): 238-246. *In Press*.
2. Raghubar, C*., Shahbazi, N., Bortoluzzi, B.*, An, A., McArthur, J. "Integrating Visual Analytics and Machine Learning into BIM-Enabled Facilities Management." Proc. Lean & Computing in Construction Congress (LC3), Vol. 1 (CIB W78). Heraklion, Greece (113-120) (2017). *Awarded Charles Eastman Award*
3. Bortoluzzi, B.*, Sobieraj, D*., McArthur. J. "Automating Creation of Facility and Energy Management Building Information Models." Proc. LC3, Vol. 1 (CIB W78). Heraklion, Greece (153-160) (2017).
4. Hui, V., McArthur, J., Lelay, P-A. "Digital Integration: Synthesizing Poetic Possibilities and Pragmatic Production." Proc. BTES 2017, Des Moines, USA (165-175) (2017).
5. Sobieraj, D*., Mendieta, C*., McArthur, J. "GIS Data Extraction and Visualization to Support Urban Building Energy Modelling." Proceedings of IBPSA 2017 San Francisco, USA (2017).
6. Khaja, A*., Seo, J*., McArthur, J. "Optimizing BIM Metadata Manipulation Using Parametric Tools." *Procedia Engineering*. ICSDEC, Tempe, USA (259-266). Elsevier (2016).
7. McArthur, J., Sun, X*. "Best practices for BIM Execution Plan development for a P3 (PFI) design-build-finance-operate-maintain project." 1st International Conference on Building Information Modelling (BIM) in Design, Construction and Operations (BIM 15) Bristol, UK (119-130 WIT Press (2015).
8. Suresh Kumar, S*., McArthur, J. "Streamlining BIM model creation using Agile Project Management." 1st International Conference on Building Information Modelling (BIM) in Design, Construction and Operations (BIM 15), Bristol, UK (229-240). WIT Press (2015).
9. McArthur, J. "A building information management (BIM) framework and supporting case study for existing building operations, maintenance and sustainability", ICSDEC, 2015. *Procedia Engineering* 118: 1104-1111.

[*plus an additional 15 peer-reviewed publications published since 2014 or under review*]

Presentations

1. McArthur, J. "Integrating Skill-Specific Learning into Existing Curricula", Canadian Society for the Study of Higher Education 2017, Toronto, Canada 2017.
2. McArthur, J., Kiviniemi A, MacDonald J, Beach D, Boton C. "BIM research and education: lessons learned from here and other countries", BRESW , Montreal, Canada 2016 (Invited).
3. McArthur J. "Making it Count: Selecting the Sustainability Certification Targets with the Greatest Project Benefit", Washington DC Summit 2014 (CoreNet Global), Washington DC, USA 2014 (Invited).
4. McArthur J., Walsh-Cook M., Vattay S. "Best Practices for High-Performance Building Renovation", Ontario Association of Architects Conference, Montreal, Canada 2014.

[*plus an additional 14 oral presentations, 7 poster presentations, and 5 invited industry presentations since 2014*]

Kristin Nelson, AIA, NCARB
Assistant Professor, University of Florida, School of Architecture

I am writing to submit myself as a candidate for the BTES Board Member for Membership and Networking. I have benefitted greatly from my association with BTES, actually publishing and presenting my first academic paper at the 2013 BTES Conference hosted by Roger Williams University. I would like to help further the organization through service to strengthen relationships between allied organizations and reach potential new BTES members. I have served as a chair and a committee member on numerous academic service committees, including faculty searches, and the graduate, lectures, gallery and diversity committees. I have also been a committee member during the building technology curriculum redesign process at both Iowa State University and University of Florida, and the NAAB review process at Iowa State University. Prior to my academic career, I practiced architecture at large, international firms for a decade. In architectural practice I led multi-disciplinary project teams as the primary client contact on large, complex projects in the design and construction administration of higher education, civic spaces, multi-family residential and mixed-use projects. All of the noted academic and practice roles required organization, professionalism, the ability to work with diverse project groups, and strong communication skills. In addition, I am a member of the American Institute of Architects and the Society of Building Science Educators. I believe that both of these groups can be allies in the work that we promote and support in the BTES. I am one of the co-organizers for the upcoming 2018 SBSE annual conference, held in the summer of 2018. As the SBSE meets annually, I believe that this could be an excellent opportunity to discuss BTES issues and membership in a year where we do not host our conference. I would like to humbly offer these aforementioned skills and professional relationships to serve the organization that has offered so much to me in the initial years of my academic career.

Kristin Nelson, AIA, NCARB
1719 NW 23rd Avenue, Unit 3B, Gainesville, Florida 32605 | kmnelson@ufl.edu

Education

2004	M.Arch Iowa State University, Ames, Iowa
2001	Bachelor of Fine Art with Honors University of Iowa, Iowa City, Iowa

Teaching Experience

2015 – Present	University of Florida, Assistant Professor
2012 – 2015	Iowa State University, Lecturer

Conference Publications, Blind Peer-Reviewed (selected)

2017 (submitted)	Nelson, K. and Leach, J. The Ethics of Study Abroad: Costs and Benefits. *Association of Collegiate Schools of Architecture*
2017 (submitted)	Nelson, K. and Leach, J. Commodity and Delight: A Case for a Qualitative Basis for Environmental Technology Instruction *European Association for Architectural Education – Architectural Research Centers Consortium*
2017	Nelson, K. and Leach, J. Overt Operations: Teaching Technology in Intensive Design Studio Workshops. Poetics and Pragmatism, *Building Technology Educators Society*
2017	Nelson, K. and Leach, J. Learning from Life: Instilling an Ecological Ethic in Early Design. *National Conference on the Beginning Design Student*
2016	Nelson, K. and Leach, J. Haptic Tactics: Increasing Engagement in and Application of Building Technology Through Hands-on Investigation and Integration with the Design Studio. *National Conference on the Beginning Design Student*
2014	Nelson, K. and Passe, U. Hand to Mouse: Integrated Technology Laboratory in Undergraduate Architectural Education. *European Association for Architectural Education – Architectural Research Centers Consortium*
2014	Nelson, K. and Whitehead, R. Brick by Brick: Improved Outcomes through Linked Learning Objectives in Beginning Design Labs. *National Conference on the Beginning Design Student*
2013	Nelson, K. and Leslie, T. Acoustics as a Data-Driven Theme in Comprehensive Design Studio. *Building Technology Educators Society*

Grants

2017 – 2018	Nelson, K. Huang, L-S. and Leach, J. CoolWall: Digital Simulation and Fabrication for Lightweight Building Retrofit, *Competitive Research Seed Funding, College of Design, Construction and Planning, University of Florida*, $9,840

2015 – 2018	Nelson, K. Case Study for Sustainable Zoning in Redevelopment, *Vice President for Research Competitive Seed Funding, University of Florida,* $29,440
2014 – 2015	Nelson, K. and Passe, U. Train the Trainer Program: Workforce Training and Certification Pilot Program for Building Commissioning Evaluators (BECx), *Iowa Energy Center* $31,186
2014 - 2015	Nelson, K., Passe, U., Wheeler, A., and Whitehead, R. ACT-I, Active Collaboration for Technological Integration, *Miller Faculty Fellowship, Center for Excellence in Teaching and Learning, Iowa State University*, $9,000

Service (selected)

2017	Guest Juror, Undergraduate Reviews, Washington University St. Louis study abroad Florence Professor Robert McCarter, Architecture
2017	Peer Reviewer, Paper Session, BTES 2017 Conference Session Chair, Paper Session, BTES 2017 Conference
2017	Committee Member, University of Florida, College of Design, Construction and Planning, Search Committee for Assistant Dean of Undergraduate Education and Facilities
2015 – Present	Chair of Committee, School of Architecture Lecture Committee Committee Member, University of Florida, School of Architecture Technology Committee Gallery Committee
2015	Committee Member, Iowa State University, Department of Architecture, Search Committee for Assistant Professor in Digital Design
2013 - 2015	Committee Member, Iowa State University Department of Architecture Annual Lecture Series College of Design Diversity Committee Department of Architecture, Graduate Committee Department of Architecture, Technology Committee NCARB Advisor to former students
2012 – 2013	Team Member, Iowa State University NAAB Review Preparation Team Assisted Team Leader with gathering student work for the exhibit Assisted Team Leader with preparation and composition of the exhibit *An eight year renewal was the outcome of the review*
2012	Peer Reviewer, BTES Paper Session at ACSA Conference

Professional Affiliations, Licenses & Certificates

2014 - Present	Society of Building Science Educators, Member
2013 - Present	Building Technology Educators Society, Member
2009 - Present	NCARB Certificate, 66637
2008 - Present	Licensed Architect, State of Nebraska #A3875
2004 - Present	American Institute of Architects

BTES
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BTES 2018 Election Nominations

Board Members

POSITION 3 - EVENTS AND INITIATIVES

Dustin Albright

Ulrich Dangel

Carolina Manrique

Dustin Albright Assoc. AIA, LEED AP BD+C

Assistant Professor | Clemson University School of Architecture

As an assistant professor in the Clemson University School of Architecture, my roles are linked to my dual backgrounds in Architecture and Structural Engineering, and my experiences in professional practice and in laboratory-based material research. My engagement with our building technology coursework spans from our foundational structures courses at both the undergraduate and graduate levels to coordinating the graduate Comprehensive Studio. My research work revolves around prefabricated wood building systems at varying scales, from “massive timber” to innovative light frame solutions, and I am a founding fellow and active contributor to Clemson’s Wood Utilization + Design Institute.

A thread running through all of this is my interest in the ways that building technologies are taught within our own program and within the curricula of design schools around the country. I have been excited to learn from and compare ideas with my colleagues in BTES since my introduction to the group in 2015. I appreciate BTES, its voice, and its strategic efforts to represent the teaching and research of the most creative and critical minds in building technology education. I very much share the conviction that our approach to these subjects needs to be integrative and linked to Design at all levels, rather than additive or tangential.

I am eager to get involved and give back through service to BTES. With this in mind, I would be pleased and honored to serve on the Board in the role of *Events and Initiatives* coordination. I want to facilitate the organization’s focus sessions at ACSA, which provide an important outlet and expanded audience for our work. I am also particularly interested in supporting the recently-formed Member Groups and exploring new initiatives that will likely stem from the conversations initiated in those groups.

Thank you for considering me as a candidate for the BTES Board.

Dustin Albright ASSOCIATE AIA, LEED AP BD+C dalbrig@clemson.edu

EDUCATION

•B.S. PHYSICS–ENGINEERING, Washington and Lee University, 2003
•M.S. CIVIL ENGINEERING: STRUCTURES, Virginia Polytechnic Institute and State University, 2006
•M.ARCH, Virginia Polytechnic Institute and State University, 2008

PROFESSIONAL WORK

•ASSISTANT PROFESSOR | Clemson University School of Architecture – Clemson, SC (August 2014 – present)
•LECTURER | Clemson University School of Architecture – Clemson, SC (August 2012 – August 2014)
•PROJECT DESIGNER | Craig Gaulden Davis Architects – Greenville, SC (June 2008 – August 2014)

SELECTED COURSES TAUGHT

•*Undergraduate Fluid Studio* – ARCH 3510 (Fall 2016, '17)
•*Graduate Design Studio IV: Entry Studio* – ARCH 8510 (Fall 2012, '13, '14)
•*Graduate Design Studio V: Fluid Studio* – ARCH 8570 (Fall 2015, '16, '17)
•*Graduate Studio VI: Comprehensive Studio* – ARCH 8920 (Spring 2013, '14, '15, '16, '17)
•*Undergraduate Structures I* – ARCH 2700 (Fall 2012, '13, '14; Spring '16; Fall 2016, '17)
•*Graduate Structures II* – ARCH 8710 (Spring 2013, '14, '15, '17)

SELECTED PUBLICATIONS AND INVITED PRESENTATIONS

PEER-REVIEWED JOURNAL ARTICLES

D. Albright, D. Harding, D. Pastre, U. Heine, V. Blouin, "Assembling the Digital House by Hand: Lessons from Deep Engagement and Guiding the Experimental Impulse," Journal of Technology | Architecture + Design (TAD), volume 1, issue 1 (2017): 92-106. ISSN _ 2475-1448

PEER-REVIEWED CONFERENCE PAPERS

5th Int'l Conference on Mobile, Adaptable and Rapidly Assembled Structures (MARAS) | Sienna, Italy
D. Albright, V. Blouin, D. Harding, U. Heine, D. Pastre, "Sim[PLY]: Rapid Structural Assemblies Using CNC-Fabricated Plywood Components." (2016).

2016 Sustainable Futures Conference (SFC) | Nairobi, Kenya
Architecture and Construction in the Global South
D. Albright, V. Blouin, D. Harding, U. Heine, D. Pastre. "Sim[PLY]: Enabling Sustainable Human-Centered Construction Through Prefabricated Plywood Components." (2016).

2016 World Conference on Timber Engineering (WCTE) | Vienna, Austria
D. Albright, M. Stoner, V. Blouin, D. Harding, U. Heine, D. Pastre. "Sim[PLY]: Innovative Platform Framing With CNC-Fabricated Plywood Componentry." (2016).

2016 Passive and Low Energy Architecture (PLEA) International Conference | Los Angeles, California
Cities, Buildings, People: Towards Regenerative Environments
D. Albright, V. Blouin, D. Harding, U. Heine, D. Pastre. "Sim[PLY]: Achieving Carbon Neutrality Through Innovative Building Assemblies and Processes" (2016).

2015 Building Technology Educators Society (BTES) International Conference | Salt Lake City, Utah
Intersections & Adjacencies: Leadership in Architectural Technology Education
D. Albright. "Action and Reaction: Balancing the Dual Challenges of Breadth and Depth in Undergraduate Structures Instruction." pp. 233-239 (2015).

2015 Architecture Research Centers Consortium (ARCC) International Conference | Chicago, Illinois
The FUTURE of Architectural Research
D. Albright. "Recalibrated: An Interdisciplinary, Studio-Based Study of Massive Timber for Student Housing." pp. 631-638 (2015).

2014 Associated Collegiate Schools of Architecture (ACSA) International Conference | Seoul, South Korea
Open Cities: The New Post-Industrial World Order
D. Albright, C. Barrios, U. Ersoy, D. Harding. "Intra-Disciplinary Pedagogy In Design: A Case Study for Collaboration and Diversity in a Research-Based Design Studio" (2014).

PEER-REVIEWED PROJECT POSTERS

2015 Building Technology Educators Society (BTES) International Conference | Salt Lake City, Utah
Intersections & Adjacencies: Leadership in Architectural Technology Education
D. Albright, C. Barrios, U. Ersoy, and D. Harding. "Form, Cast, Strip: Exploring Precast Concrete Construction Through Tessellated Component Design" (2015).

INVITED PRESENTATIONS

"Hands and Things: Leveraging Technology to Incite Constructive Participation" – Des Moines, IA. 2017 BTES Conference. Prepared w/ Dan Harding and David Pastre. (06.09.17)

"Assembling the Digital House By Hand: Lessons from Deep Engagement and Guiding the Experimental Impulse" – Detroit, MI. 105th ACSA Annual Meeting. TAD Journal session. w/ Dan Harding. (03.25.17)

"Assembling the Digital House By Hand: Designing and Building an Idea" – Augsburg, Germany. University of Augsburg Design/Build Symposium. (03.21.17)

SELECTED GRANTS, AWARDS, AND FUNDED RESEARCH

HOBCAW FUNDED STUDIO. "Hobcaw Studio." (awarded), August 2017. Topical service-learning studio supported by Clemson Public Service and Agriculture in the amount of $51,500. Co-Investigator with Dan Harding and Paul Russell.

THE JOHN BLACKBURN FUNDED STUDIO. "Studio Appalachia." (awarded), August 2016. Topical service-learning studio supported through gift from alumnus John Blackburn in the amount of $25,000.

USDA FOREST SERVICE. "Expanding the Use of Wood Products in South Carolina." (awarded), April 2015. $250,000 grant. Co-Investigator w/ professors Pat Layton (PI), Dan Harding, Weichiang Pang, and extension associate Susan Guynn.

PRECAST CONCRETE INSTITUTE FOUNDATION. "Precast Performative Morphologies." (awarded) September 2014. $100,000 awarded for a 4-year cycle of dedicated studio courses and supporting instruction on the topic of precast concrete design and construction. Co-Investigator w/ professors Carlos Barrios (PI), Ufuk Ersoy, Dan Harding, Ulrike Heine, Brandon Ross, and Scott Schiff.

UNITED STATES DEPARTMENT OF ENERGY. "Clemson University Solar Decathlon 2015." (awarded) February 2014. $50,000. Co-Investigator w/ professor Vincent Blouin (PI) and fifteen others from a wide range of University departments.

SELECTED HONORS AND AWARDS

CREATIVITY PROFESSORSHIP Clemson University College of Architecture, Arts and Humanities
April 2016 (2-year term)

SELECTED PROFESSIONAL AND DEPARTMENTAL SERVICE

•PEER REVIEWER for the *Journal of Technology | Architecture + Design* (issues 1.2 and 2.1)
•PEER REVIEWER for 2018 ACSA Annual Meeting
•FACULTY AND STUDENT ADVISORY COMMITTEE – Clemson School of Architecture (2016-present)
•UNDERGRADUATE ACADEMIC ADVISOR – Clemson School of Architecture (2014-present)
•PROFESSIONAL LIAISON TO AIA-SC BOARD OF DIRECTORS – Clemson School of Architecture (2014-present)

Ulrich Dangel, AIA, NCARB, ARB, Dipl. Ing. Architekt
Associate Professor, The University of Texas at Austin

I am a registered architect and tenured Associate Professor at The University of Texas at Austin, where I have been teaching for more than 12 years. Prior to joining the faculty at UT, I practiced professionally in London at Foster and Partners as well as Grimshaw, and now maintain an Austin-based design practice. My technical background through my education in Germany and the United States along with my foundation of industry specific knowledge has led me to teach graduate and undergraduate courses in design, construction, architectural detailing, and structural design. My research examines the use of wood in construction, its influence on building culture and craft, and how it contributes to the advancement of sustainable practices at the scale of local and global economies. This work has led to two book publications with Birkhäuser Basel: “Sustainable Architecture in Vorarlberg: Energy Concepts and Construction Systems“ in 2010 and ”Turning Point in Timber Construction: A New Economy” in 2017.

As one of the original attendees of the first BTES Symposium in 2006, my involvement with the organization has been limited in recent years due to my departmental responsibilities as Graduate Adviser, a position I have held since 2013. However, I am now at a point where I would like to apply the administrative knowledge that I have gained in this capacity to serving as the BTES board member overseeing Events and Initiatives. I believe this opportunity would capitalize on my strengths, allowing my management skills to provide structure and transparency and my passion as an educator and practitioner to inform a strategic direction. My ability to balance visionary thinking with organizational procedures along with my sustained teaching and research focus on building technology has encouraged me to pursue this leadership position, and I hope to make a meaningful contribution to BTES.

CURRICULUM VITAE (11/2017)

ULRICH DANGEL, AIA, NCARB, ARB, Dipl. Ing. Architekt
Associate Professor, Graduate Adviser for Architecture
Meadows Fellow at the Center for American Architecture and Design
School of Architecture**,** The University of Texas at Austin
310 Inner Campus Drive B7500, Austin, Texas 78712-1009
(t) 512-471-5157 (e) dangel@utexas.edu

EDUCATION

2000 **Diplom-Ingenieur Architekt** Universität Stuttgart, Germany
1999 **Master of Architecture** University of Oregon, School of Architecture and Allied Arts
1996 **Vordiplom Architektur** Universität Stuttgart, Germany

PROFESSIONAL QUALIFICATIONS

2015-present **NCARB Certificate, USA** National Council of Architectural Registration Boards, #80290
2015-present **Registered Architect, Texas** Texas Board of Architectural Examiners, #24632
2003-present **Registered Architect, United Kingdom** Architects Registration Board, #067774D
2003-present **Registered Architect, Germany** Architektenkammer Baden-Württemberg, #014524

ACADEMIC APPOINTMENTS

2013-present **The University of Texas at Austin** School of Architecture, Graduate Adviser for Architecture
2011-present **The University of Texas at Austin** School of Architecture, Associate Professor with Tenure
2013 **University of Arkansas** Fay Jones School of Architecture, Invited Lecturer, London Study Abroad Program
2005-2011 **The University of Texas at Austin** School of Architecture, Assistant Professor Tenure-Track

PROFESSIONAL PRACTICE

2004-present **Glass & Dangel** – Austin, Texas, Founder and Principal
2004-2005 **Grimshaw** – London, United Kingdom, Architect
2001-2004 **Foster and Partners** – London, United Kingdom, Architect

SERVICE TO THE SCHOOL OF ARCHITECTURE AND THE UNIVERSITY (selected)

2013-present School of Architecture Undergraduate Curriculum Committee, Member
2013-present School of Architecture Coordinating Committee, Member
2005-present School of Architecture Graduate Studies Committee, Member
2013-present School of Architecture Executive Committee, Member, Elected Associate Professor Representative
2006-present Undergraduate Architecture Student Council (UASC), Student Organization Adviser
2012-2013 Assistant Graduate Adviser for Architecture
2011-2013 Independent Inquiry Flag Committee, UT School of Undergraduate Studies, Member
2011-2013 School of Architecture Scholarship Committee, Chair
2007-2012 School of Architecture Executive Committee, Member, Elected Assistant Professor Representative
2008-2011 University of Texas Graduate Assembly, Member, Elected Representative
2008-2011 Committee on Enrollment and Admissions of the Graduate Assembly, Member

COURSES TAUGHT

2014-present Advanced Theory Seminar: *Timber Technologies* (ARC 350R/386M), Spring Semester
2006-present Vertical Design Studio (ARC 393/394), Fall Semesters
2005-present Construction III (ARC 435K/385M), Fall Semesters
2013, 2016 Advanced Design Studio: *Timber in the City* (ARC 560R/696), Spring Semester
2007-2013 Advanced Theory Seminar: *Intelligent Building Skins* (ARC 350R/386M), Spring Semesters
2006-2012 Design VI: Comprehensive Studio (ARC 530T), Spring Semesters

TEACHING AWARDS AND HONORS

2008-2009	Regents' Outstanding Teaching Award, The University of Texas System
2007-2008	ACSA/AIAS New Faculty Teaching Award
2007-2008	Outstanding Teacher Award (Lecture), School of Architecture, The University of Texas at Austin
2007-2008	Texas Exes Teaching Award, The University of Texas at Austin
2005-2006	Outstanding Teacher Award (Studio), School of Architecture, The University of Texas at Austin

DESIGN AWARDS AND HONORS (selected)

2015	2nd Place, Residential – Sundown Residence, ASID Austin Association
2014	Design Excellence Award, Residential - Ledge Mountain Residence, IIDA Texas Oklahoma Chapter
2013	Design Excellence Award, Residential - Mountain Villa Residence, IIDA Texas Oklahoma Chapter
2013	1st Place, Sustainable/Green Design - Ledge Mountain Residence, ASID Texas Chapter
2012	Creative Scholarship Best in Show - Mountain Villa Residence, IDEC Conference
2012	Grand Prize - Ledge Mountain Residence, 2010-2011 Thermador Kitchen Design Challenge
2012	Special Focus Award for Innovative Use of Materials - Mountain Villa Residence, Watermark Design Awards
2011	Dream Home Silver Design Award - Mountain Villa Residence

BOOK PUBLICATIONS

2017	Dangel, Ulrich. *Turning Point in Timber Construction: A New Economy.* Basel: Birkhäuser, 2017. Print.
2017	Dangel, Ulrich. *Wendepunkt im Holzbau: Neue Wirtschaftsformen.* Basel: Birkhäuser, 2017. Print.
2010	Dangel, Ulrich. *Sustainable Architecture in Vorarlberg: Energy Concepts and Construction Systems.* Basel: Birkhäuser, 2010. Print.
2010	Dangel, Ulrich. *Nachhaltige Architektur in Vorarlberg: Energiekonzepte und Konstruktionen.* Basel: Birkhäuser, 2010. Print.

LECTURES AND PRESENTATIONS (selected)

Forthcoming	"The New Frontier: Mass Timber in North America", *2017 Tallinn Wood Architecture Conference*, Estonian Forest and Wood Industries Association, Tallinn, Estonia, November 15-16
2017	"From Forest to Frame: Innovations in Wood Architecture", *Threshold - 78th Annual Convention & Design Expo*, Texas Society of Architects, Austin, Texas, November 10
2017	"From Forest to Frame: Innovations in Wood Architecture", *AIA Austin Summer Conference*, AIA Austin. Austin, Texas, August 4
2017	"Prefabrication and Modular Construction in Wood", *Mass Timber Structures Seminar*. Austin, Texas, July 20
2017	"Innovations in Timber Construction", Fay Jones School of Architecture and Design, University of Arkansas. Fayetteville, Arkansas, April 12
2017	"Technology, Timber, Design", School of Architecture and Allied Arts, University of Oregon. Eugene, Oregon, March 6
2016	"Wood on the Rise: Innovative Timber Construction Systems as a Pedagogical Framework for Teaching Sustainable Design", *2016 World Conference on Timber Engineering*, Vienna University of Technology. Vienna, August 24
2016	"Turning Point in Timber Construction", *New Languages of Wood Symposium*, Fay Jones School of Architecture and Design, University of Arkansas. Fayetteville, Arkansas, August 27
2015	"Craft | Technology | Poetics", Department of Wood Science & Engineering, College of Forestry, Oregon State University. Corvallis, Oregon, April 30
2014	"Vorarlberg, Austria: A Model for Sustainable Timber Architecture", *Wood Urbanism Colloquium – From the Molecular to the Territorial*, Graduate School of Design, Harvard University. Cambridge, Massachusetts, September 25
2014	"Learning from Wood – Sustainable Architecture in Vorarlberg, Austria", School of Arts, Design, and Architecture, Aalto University. Helsinki, Finland, May 28

BTES – Statement of Interest

CAROLINA MANRIQUE
University of Idaho

Dear BTES Members:

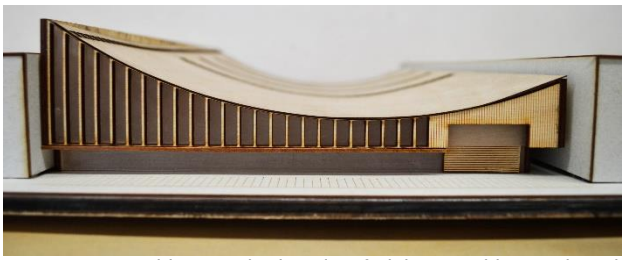
It is with great interest that I submit my application to serve in the 2018-2019 Board of the Building Technology Educators' Society. I am an architect working in bridging the gap between structures and architectural design who joined BTES in 2015 when starting as assistant professor at University of Idaho. Attending this BTES meeting in Utah allowed me to recognize a stimulating network of educators passionate about improving existing approaches and developing new opportunities to enhance relationships between building technology and architectural design. For the BTES Conference this year in Iowa, I co-authored a paper presented by Diane Armpriest which aimed towards sharing our efforts in University of Idaho towards this integration.

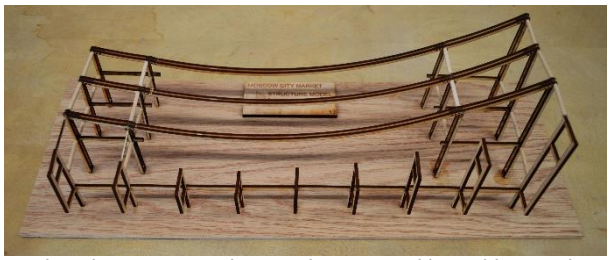
Joining BTES and participating in two conferences has fulfilled an initial stage for establishing a network of professionals interested in building technology education. Previous steps in my career involved a background in architecture with graduate studies in structures which provided initial connections through faculty and authors focusing on teaching structures in architecture. These stages have defined my approach in teaching aiming to introduce design thinking into structures courses, and integrating structures in design studio.

Moving forward, serving in the BTES Board, in the position-3 *Events and Initiatives*, constitutes an opportunity to actively contribute towards continuing promoting this organization through its regular events and publication venues. New initiatives can be pursued through reinforcing relationships with other groups of similar or complementary interests emerging in national and international communities (e.g. International Association of Structures and Architecture), and by strengthening theme-based networks within our existing organization. I enjoy these collaborative pursuits as part of the plan to expand better pedagogical practices in architecture and building technology, as an organized process to encourage feedback, and as opportunities to increase the impact of our active networks.

I would be delighted with the opportunity to serve as part of the 2018-2019 BTES Board and to contribute more actively to strengthen this exciting community. I am passionate about architecture and the defining role an integrated approach with building technology has since the initial stages of the design process. I recognize the value of this network as actively pursuing new ways to make a difference in education.

Sincerely,
CAROLINA MANRIQUE, PhD
http://www.uidaho.edu/caa/programs/architecture/ourpeople/carolina-manrique





Structures + Architecture (University of Idaho – Architectural Design III. First place IFPC Student Design Competition: Ehly, 2015)

CURRICULUM VITAE

CAROLINA MANRIQUE, PhD
e: cmanrique@uidaho.edu

EDUCATION

2011-2015	**PhD in Architecture** College of Architecture - Texas A&M University Certificate in Historic Preservation. Dissertation topic: Resilience in Architecture (historic preservation)
2009-2010	**Advanced Masters in Structural Analysis of Monuments and Historical Constructions - SAHC (Dual degree)** Department of Civil Engineering – Universidade do Minho (Portugal); Universitat Politecnica de Catalunya (Spain) Thesis: Limit Analysis: Collection of Examples of Applications
2000-2002	**Master in Building Technology (Structures); diploma (2005)** Universitat Politecnica de Catalunya (Spain) Thesis: Design and Calculation for the roof of a Church
1993-1999	**Bachelor in Architecture** College of Architecture – Universidad del Valle (Colombia) Certificate in Seismic Constructions.

TEACHING EXPERIENCE

2015-present	**University of Idaho,** College of Art and Architecture Architecture Program, Assistant Professor (tenure-track) Architectural Design III; Structural Systems I; Structural Systems II; Graduate Project Studio; Architectural Design II
2012-2015	**Texas A&M University,** College of Architecture Professor of Record (instructor): Contemporary Topics in Architecture; Design Foundations I & II. Study Abroad Program (Italy)-Graduate Teaching Assistant: Internship Documentation; Field Studies in Design Innovation. Graduate Teaching Assistant: Introduction to Historic Preservation; Comparative Theory Built & Virtual Environment; Advanced History of Building Technology
2005-2009	**Universidad del Valle (Colombia),** College of Architecture Department of Building Technology, Assistant Professor (adjunct/tenured) Construction Management; Introduction to Technology; Design Studio I; Construction Management; Introduction to Technology; Principles of Technology; Design Studio I; Integrated Building Technology Studio.

RESEARCH TOPICS

2015-present	**Resilience in Architecture (**College of Art & Architecture; University of Idaho)
2015-present	**Structures + Architecture (**College of Art & Architecture; University of Idaho)
2011-2015	**Resilience in Architecture (**College of Architecture; Texas A&M University)
2011-2012	**Preservation Plan for the Recreational Yard in Alcatraz Island; Modernization vs. heritage identity (San Miguel de Allende, Mexico)** (Center for Heritage Conservation-CHC; Texas A&M University)

SCHOLARSHIP

Book Chapters (peer review, full paper submission)

- Manrique, C., Jamal, T., & Warden, R. (2016), Heritage Tourism and Conservation, in Ana María Munar, Tazim Jamal (ed.) *Tourism Research Paradigms: Critical and Emergent Knowledges (Tourism Social Science Series, Volume 22)* Emerald Group Publishing Limited, pp.17-33.

Conference Proceeding Publications (peer review, abstract submission, full paper published)

- Armpriest, D., Manrique, C. “Towards a multi-faceted integration model for teaching architectural design and technology”. Building Technology Educators’ Society - BTES 2017 Meeting. Des Moines, Iowa, 8-10 June 2017.

Conference Presentations (peer review, abstract submission, full paper submitted for session)

- Ramirez Potes, F., Manrique Hoyos, C. “Reflected Image: Architectures Colombiennes in the Pompidou”. 70th Annual International Conference of the Society of Architectural Historians – SAH 2017. Glasgow, Scotland, June 7-11, 2017.

Conference Presentations (peer review, abstract submission)

- Manrique Hoyos, C. "Building Capacity at the State Level: Towards a Resilience Approach in (Architectural) Design Education". Environmental Design Research Association - EDRA 2017 international conference. Madison, Wisconsin, May 31 – June 3 2017.
- Manrique, C., Warden, R. Jamal, T. "Resilience in Heritage Conservation and Heritage Tourism". Association for Preservation Technology International (APT) as one of the selected *Student Scholars 2014*. Quebec City, Canada, October 27-29 2014.
- Manrique, C., Warden, R. "Technology, Preservation Education and Managing Change in the Alamo". National Council for Preservation Education (NCPE). National Center for Preservation Technology and Training (NCPTT), Natchitoches, Louisiana, July 15-16 2014.
- Manrique, C., Jamal, T., & Warden, R. "Heritage Conservation and Tourism: An integrated approach to resilience in Alcatraz Island". Heritage & Healthy Societies Conference University of Massachusetts Center for Heritage & Society, Amherst, Massachusetts, May 14-16 2014.
- Manrique-Hoyos, C. "Dark Tourism Issues in the Preservation of Alcatraz Island"; Society of Architectural Historians 67th Annual Conference, Austin, Texas, April 9-13 2014.

Guest Scholarly Presentations and Other Creative Activities:

- Manrique, C. Warden, R. "Heritage Architecture"; Presented at the Institute of Architectural Engineering Heritage Conference – Texas A&M, Kingsville, Texas, September 26-27 2013.
- Manrique, C. Poster: "Resilience in Heritage Conservation and Heritage Tourism"; Presented at the 15th Annual Historic Preservation Annual Symposium, CHC – Center for Heritage Conservation – Texas A&M, College Station, Texas, March 21-22, 2014.
- Manrique, C. Poster: "Dark Tourism Issues in the Preservation of Alcatraz Island"; Presented at the 13th Annual Historic Preservation Annual Symposium, CHC – Center for Heritage Conservation – Texas A&M, College Station, Texas, February 24-25, 2012.
- Manrique, C. "Alamo & Alcatraz: Dark Tourism Issues in Preservation". TOMFRA – The Texas Old Missions and Forts Restoration Association. Wichita Falls, Texas, April 11 2015.

Honors and Awards:

2014	APT Quebec City Conference Student Scholarship, Association for Preservation Technology International, USD 1,200
2014	TOMFRA/Raiford L. Stripling Memorial Scholarship for Advancement of Preservation; Texas A&M, USD 1,000
2013-2014	Catherine L. Gauldin Endowed Scholarship; Texas A&M, USD 2,600
2013	Glasscock Graduate Research Fellowship; Texas A&M, USD 2,000
2012	Edward J. Romieniec Graduate Fellowship; Texas A&M, USD 8,000
2011	Department of Architecture Scholarship; Texas A&M, USD 1,000
2009-2010	Erasmus Mundus Scholarship; European Commission, EUR 21,000

PROFESSIONAL EXPERIENCE

2011	**Fondo Mixto para la Promoción del Deporte**; Bogotá, Colombia Construction Supervisor (Housing Sport Facility)
2010-2011	**Construclínicas S.A.**; Bogotá, Colombia Project Architect (Architectural Design Sport Facility)
2010-2011	**GYG Construcciones Ltda**.; Bogotá, Colombia Project Architect (Construction Documents Health Care Facility)
2006-2007	**EMRU E.I.C.**; Cali, Colombia Project Architect; Construction Supervisor
2006	**Posso Asociados Ltda.**; Cali, Colombia Building Surveyor (Pathology modern sport facilities 1950's-1970's)
2003-2005	**Hospital Universitario del Valle E.S.E.**; Cali, Colombia Project Architect (Architectural Design Health Care Facility)
2001-2002	**Robert Brufau i Associats S.A. (BOMA INPASA)**; Barcelona, Spain Intern Architect (Design of structures)
2001	**Victor Freijser Architectuurproducties**; The Hague, Netherlands Intern Architect (Drafting; AutoCAD for the book 'Wonen in Den Haag')