

## Curriculum Vita

### Carrie Sturts Dossick, Ph.D., P.E.

Professor and CERC Executive Director  
 P.D. Koon Professor of Construction Management  
 Department of Construction Management  
 College of Built Environments  
 University of Washington  
 120 Architecture Hall, Box 351610  
 Seattle, WA 98195

Telephone: (206) 221-4894  
 Email: [cdossick@uw.edu](mailto:cdossick@uw.edu)  
<http://faculty.washington.edu/cdossick>

### Education

- Columbia University in the City of New York**
- May 2001 Ph.D. in Civil Engineering, Graduate School of Arts and Sciences, Dissertation: *Value-Bidding: An integrative approach utilizing conjoint analysis and classical bidding theory*, advisor F.H. (Bud) Griffis
- May 1998 MS in Civil Engineering, Fu Foundation School of Engineering and Applied Science
- May 1997 BS Civil Engineering, Fu Foundation School of Engineering and Applied Science
- May 1997 BA Pre-engineering, Columbia College

### Academic Experience

- University of Washington**
- 2016 – Present Professor, Department of Construction Management  
 Adjunct Professor, Department of Civil and Environmental Engineering
- 2010 – 2016 Associate Professor, Department of Construction Management  
 Adjunct Associate Professor, Department of Civil and Environmental Engineering
- 2005 – 2010 Assistant Professor, Department of Construction Management  
 Adjunct Assistant Professor, Department of Civil and Environmental Engineering
- Columbia University in the City of New York**
- 1997 – 2000 Graduate Research Assistant and Graduate Teaching Assistant, Department of Civil Engineering, Fu Foundation School of Engineering and Applied Science

### Professional Experience

- 2007 – 2008 **Siemens Building Technology v St. John's Health Center & Fireman's Fund**  
 Expert Witness, Delay and Disruption, Seattle, WA
- Exponent Failure Analysis Associates**
- 2005 – 2007 Consulting Engineer, Bellevue, WA
- 2001 – 2005 Engineer, Construction and Civil Engineering Group, CA and WA

- 2000 – 2001 **Parsons Infrastructure & Technology Group, Inc.**  
Engineer, Civil Section & Engineering Systems, Pasadena, CA
- 1999 – 2000 **Bud Griffis and Associates**  
Owner Representative, Brotherhood Synagogue Hebrew School, New York, NY

## RESEARCH AND SCHOLARLY ACTIVITY

### Funded Research Projects

- 2016-2017 **Integrated Project Delivery (IPD) Practitioners Guide**  
Funded by: Charles Pankow Foundation  
Role: Co-PI  
Budget: \$150,000  
Award Dates: 2/1/2017 - 1/1/2018
- 2016-2017 **Skanska Innovation Award: Preconstruction Model-based Estimating Workflows**  
Funded by: Skanska USA Building  
Role: PI  
Budget: \$61,178  
Award Dates: 12/1/2016 - 5/28/2017
- 2016-2017 **UW Innovation Research Award: Engineering Communication in Data Rich Environments**  
Funded by: UW Office of Research  
Role: PI  
Budget: \$135,000  
Award Dates: 3/1/2016 - 2/28/2018
- 2015-2016 **Building Information Model (BIM) Data Extraction**  
Funded by: US Army Engineer Research and Development Center  
Role: PI  
Budget: \$149,953  
Award Dates: 9/29/2015 - 9/30/2016
- 2014-2015 **Sound Transit: Record Modeling Specification -DECM**  
Funded by: Sound Transit  
Role: PI  
Budget: Phase IV \$24,747  
Award Dates: 9/15/2016 - 12/31/2016
- 2015-2016 **IPDA/LCI Integrated Project Delivery Survey and Case Studies**  
Funded by: Integrated Project Delivery Association (Canada) and Lean Construction Institute (USA)  
Role: UW-PI (U. of Minnesota lead)  
Budget: Total UMN: \$270,000  
Award Dates: 07/21/2015 - 9/1/2016

- 2013-2016 **Innovation via Integrated Project Delivery in High Performance Building Projects**  
 Funded by: General Services Administration  
 Role: UW-PI (U. of Minnesota lead)  
 Budget: Total UMN: \$75,000 Phase I, \$75,000 Phase II  
 Award Dates: 09/13/2013 - 9/1/2016
- 2014-2015 **BIM and COBie for Facilities Services**  
 Funded by: University of Washington Facilities Services and Capital Projects Office  
 Role: PI  
 Budget: \$69,126  
 Award Dates: 09/01/2014 - 6/1/2015
- 2014-2015 **Sound Transit: Project Data Exchange Strategies for ST OPS-DECM**  
 Funded by: Sound Transit  
 Role: PI  
 Budget: Phase I \$21,870 + Phase II \$24,920 + Phase III \$15,930  
 Award Dates: 12/15/2014 - 9/15/2015
- 2014-2015 **Skanska Innovation Grant: Best Practices Guideline for Integrated Delivery**  
 Funded by: Skanska  
 Role: PI  
 Budget: \$36,500  
 Award Dates: 09/01/2014 - 3/6/2015
- 2014 **Building User Audit: Capturing Behavior, Energy, and Culture**  
 Funded by: University of Washington Green Seed Fund  
 Role: Co-PI  
 Budget: \$73,156  
 Award Dates: 02/01/2014 - 1/31/2015
- 2013-2016 **Reduce Energy Consumption Through Integrated Design: How do engineers translate and teams synthesize energy modeling in successful high performance building design?**  
 Funded by: National Science Foundation, CMMI:ESD, Award #1300271  
 Role: PI  
 Budget: \$432,009  
 Award Dates: 08/15/2013 - 8/15/2016
- 2012-2013 **HP Leadership Fund: ECL+VI Construction Catalyst – Merging UW Experiential and Contextual Learning (ECL)**  
 Funded by: HP Catalyst Initiative  
 Role: Co-PI  
 Budget: \$100,000
- 2012 **Evaluation of IPD for GSA ARRA projects**  
 Funded by: 4240 Architecture Inc.  
 Role: UW-PI  
 Budget: \$3,900

- 2012 **Skanska Innovation Grant: Modular Prefabrication for Mid-rise Urban Infill Projects in Seattle**  
 Funded by: Skanska  
 Role: PI  
 Budget: \$50,000
- 2012 **Skanska Innovation Grant: Virtual World Collaboration for the Boeing Delivery Center Construction Project**  
 Funded by: Skanska  
 Role: PI  
 Budget: \$25,000
- 2012 **COAA COBIE Pilot Project Phase II: BIM for Facilities Management**  
 Funded by: University of Washington Facilities Services  
 Role: PI  
 Budget: \$32,882
- 2011-2012 **Learning to Create Sustainable Built Environments: Experiential and Contextual Learning (ECL) with Information and Communication Technology for a 21<sup>st</sup> Century Collaborative Global Education**  
 Funded by: HP Catalyst Initiative  
 Role: Co-PI  
 Budget: \$20,000 + \$130,000 in-kind gift
- 2011 **COAA COBIE Pilot Project: BIM for Facilities Management**  
 Funded by: University of Washington Capital Projects  
 Role: PI  
 Budget: \$63,295
- 2010-2012 **VOSS: CyberGRID Networks - Cyber-enabled Global Research Infrastructure for Design Networks**  
 Funded by: National Science Foundation, VOSS, Award #0943226N  
 Role: Co-PI  
 Budget: \$444,537  
 Award Dates: 10/01/2009 - 9/30/2012
- 2010 **Implications of New Construction Technology for Washington State Building Trades**  
 Funded by: Mechanical Contractors Association of Western Washington  
 Role: PI  
 Budget: \$7,500
- 2010-2011 **Rapid Construction: Long Term Health**  
 Funded by: College of Built Environments BE Lab  
 Role: Co-PI  
 Budget: \$35,000
- 2008 – 2011 **Assessing Collaboration Across Organizational Boundaries in U.S. Green Construction: Does working together with new information technology result in better buildings?**

Funded by: National Science Foundation, Division of Social and Economic Sciences, Innovation & Organizational Sciences (IOS) Award # 0823338  
 Role: Co-PI  
 Budget: \$218,082  
 Award Dates: 09/01/2008 - 8/31/2011

2009 **Developing Best Practice for Capturing As-Built Building Information for Existing Facilities**

Funded by: U.S. Army Engineering Research and Development Center  
 Construction Engineering and Research Laboratory  
 Role: Co-PI  
 Budget: \$249,722

2009 **Cultural and Ecological Resilience in the Built Environment: An Interdisciplinary Field Studio for Earthquake Recovery in Sichuan, China**

Funded by: Inaugural College of Built Environments BE Lab  
 Role: Co-Proponent  
 Budget: \$35,750

2008 **Generating Building Information Models (BIM) for Existing Facilities**

Funded by: U.S. Army Engineer Research and Development Center  
 Construction Engineering and Research Laboratory  
 Role: Co-PI  
 Budget: \$200,000

2007 – 2008 **Analyzing the Ramifications of New Communication Technologies for Collaboration in Architecture, Engineering, and Construction**

Funded by: University of Washington, Royalty Research Fund  
 Role: PI  
 Budget: \$39,655

2007 – 2008 **Dean's Development Award: The Impact of New Communication Technologies on Collaboration in Construction**

Funded by: University of Washington, College of Architecture and Urban Planning  
 Role: PI  
 Budget: \$5,000

2007 – 2009 **Collaborative Learning in Construction Management Through Situational Simulations**

Funded by: U.S. Department of Education, Fund for the Improvement of Postsecondary Education (FIPSE)  
 Role: Co-PI  
 Budget: \$436,512

2006 – 2008 **KMEW – Ceraclad Siding Comparative Study**

Funded by: Kubuto Matsushitodanko Exterior Works  
 Role: PI  
 Budget: \$9,730 with \$300,000 Grant-in-Kind

## National Research Awards

2014 Best Paper Award, Engineering Project Organizations Conference, for a paper by Carrie Sturts Dossick and Gina Neff “Interpretive Flexibility and the Price of Documentation”, Winter Park, CO, July 29-31

2014 Best Paper Award, Associated Schools of Construction 50<sup>th</sup> Annual International Conference for a paper by Giovanni Migliaccio, Carrie Sturts Dossick and Elizabeth Golden, Enhancing Interdisciplinary Thinking, Teamwork & Collaboration across CM, Arch & CE Disciplines through a Design-Build Competition, Washington D.C., March 26-28

2013 Top 4 Theme Papers session, International Communication Association for a paper by Gina Neff, Brittany Fiore-Silfvast, and Carrie Sturts Dossick, “Material Challenges to Communication Research: Rethinking the Dynamic Roles of Materiality in Communication”

2013 Engineering News Record’s Top 20 Under 40 list for the Northwest region

2005 Best Peer Reviewed Paper, Journal of Management in Engineering, American Society of Civil Engineers, Los Angeles, California

## Peer-Reviewed Journal Papers

Abdirad, Hamid, and Carrie Sturts Dossick (2016) "BIM Curriculum Design in Architecture, Engineering, and Construction Education: A Systematic Review." *Electronic Journal of Information Technology in Construction* 21(21):250-271.

Dossick, Carrie Sturts, Hoda Homayouni, and Ghang Lee (2015) "Learning in Global Teams: BIM Planning and Coordination", *International Journal of Automation and Smart Technology*: 5(3): 119-135.

Dossick, Carrie Sturts, Anne Anderson; Rahman Azari, Josh Iorio, Gina Neff, John E. Taylor, (2014) “Messy Talk in Virtual Teams: Achieving Knowledge Synthesis through Shared Visualizations” *Journal of Management in Engineering*, 10.1061/(ASCE)ME.1943-5479.0000301 , A4014003

Lee, Namhun; Carrie Sturts Dossick, and Sean P. Foley, (2013) “A Guideline for Building Information Modeling in Construction Engineering and Management Education,” *Journal of Professional Issues in Engineering Education and Practice* 139(4), 266–274

Won, Jongsung, Ghang Lee, Carrie Dossick, and John Messner (2013), "Where to Focus for Successful Adoption of Building Information Modeling within Organization" *Journal of Construction Engineering and Management* , 139(11), p.04013014.

Semra Comu; Joshua Iorio; John E. Taylor, Carrie Sturts Dossick (2012) “Quantifying the Impact of Facilitation on Transactive Memory System Formation in Global Virtual Project Networks” *ASCE Journal of Construction Engineering and Management*, 139(3): 294-303.

Iorio, Josh, John Taylor and Carrie Sturts Dossick, (2012) “A Bridge to Far: Examining the Impact of Facilitators on Information Transfer in Global Virtual Project Networks”, *Engineering Project Organization Journal*, 2.4 (2012): 188-201.

Lin, Ken-Yu, Ana Levan and Carrie Sturts Dossick (2012) "Teaching Life-Cycle Thinking in Construction Materials and Methods: Evaluation of and Deployment Strategies for Life-Cycle Assessment in Construction Engineering and Management Education" *Journal of Professional Issues in Engineering Education and Practice*, 138(3): 163-170.

Yong-Woo Kim and Carrie Sturts Dossick (2011) "What Makes the Delivery of a Project Integrated? A case study of Children's Hospital, Bellevue, WA", *Lean Construction Journal*, Lean and Integrated Project Delivery Special Issue, pg. 53-66.

Dossick, Carrie Sturts and Gina Neff (2011) "Messy Talk and Clean Technology: Communication, problem solving, and collaboration using Building Information Modeling" *Engineering Project Organizations Journal*, Vol. 1, Issue 2, 83-93.

Taylor, John E., Carrie Sturts Dossick, and Michael Garvin (2011) "Meeting the Burden of Proof with Case Study Research" *Journal of Construction Engineering and Management*, 137(4):303-311.

Neff, Gina, Brittany Fiore-Silfvast and Carrie Sturts Dossick. (2010) "A Case Study of the Failure of Digital Media to Cross Knowledge Boundaries in Virtual Construction." *Information, Communication & Society*. 13(4): 556-573.

Dossick, Carrie Sturts, Amlan Mukherjee, Eddy M. Rojas, and Corey Tebo (2009) "Developing Construction Management Events in Situational Simulations" *Computer-Aided Civil and Infrastructure Engineering*, 25: 205-217.

Dossick, Carrie Sturts, and Gina Neff (2010) "Organizational Divisions in BIM-Enabled Commercial Construction", *Journal of Construction Engineering and Management Special Issue on Governance and Leadership Challenges of Global Construction*, 136(4): 459-467

Dossick, Carrie Sturts and Makoto Sakagami, (2008) "Implementing Web-Based Project Management Systems in the US and Japan" *Journal of Construction Engineering and Management*, 134(3): 189-196.

Rojas, E.M. and Dossick, C. S. (2008) "Developing a State-of-the-Art Facility to Support Construction Research and Education: A Case Study", *Journal of Professional Issues in Engineering Education and Practice*, 134(1): 67-74.

Dossick, Carrie Sturts, and Timothy K. Schunk, (2007) "Subcontractor Schedule Control Method, *Journal of Construction Engineering and Management*, 133(3)

Sturts, Carrie S., and F.H. (Bud) Griffis, (2005a) "Pricing Engineering Services", *Journal of Management in Engineering*, 21(2), (ASCE 2005 Best Peer Reviewed Paper Award)

Sturts, Carrie S., and F.H. (Bud) Griffis, (2005b) "Addressing Pricing: Value-Bidding for Engineers and Consultants", *Journal of Construction Engineering and Management*, 131(6).

### **Peer-Reviewed Conference Proceeding and Presented Papers (2009- Present)**

Anderson, Anne; Carrie Sturts Dossick and Laura Osburn, (2017), "Lessons Learned from a BIM-Enabled, Multi-Disciplinary Global Team Student Project", *International Proceedings of the 53rd Annual Conference*, Seattle WA, April 5-8

Dossick, Carrie Sturts; Anne Anderson, and Laura Osburn (2017), "Curriculum to prepare students for BIM-Enabled Globally Distributed Teamwork", Academic Interoperability Coalition, Boston, MA, April 3-4

Chris Monson, Carrie Sturts Dossick, Gina Neff, Laura Osburn and Heather Burpee, (2016) "Finding Connections Between Design Processes and Institutional Forces on Integrated AEC Teams for High Performance Energy Design" Working Paper Series, Proceedings of the Engineering Project Organization Conference, Cle Elem, WA, June 28-30.

Dossick, Carrie Sturts, Gina Neff, Laura Osburn, Chris Monson and Heather Burpee, (2016) "Tightly Coupled Organizations and Technical Boundary Spanners: A Study of Energy Modeling for High Performance Hospitals" Working Paper Series, Proceedings of the Engineering Project Organization Conference, Cle Elem, WA, June 28-30.

Burpee, Heather, Carrie Sturts Dossick, Gina Neff, Alireza Borhani, Julie Kriegh (2016) "Building User Audit: Capturing Behavior, Energy, and Culture." American Council on an Energy Efficient Economy (ACEEE) Summer Study in Energy Efficient Buildings. Asilomar, CA. August 2016.

Monson, Chris, Hoda Homayouni, Carrie Sturts Dossick and Anne Anderson, (2015) "Improving the Understanding of BIM Concepts Through a Flipped Learning Lab Environment: A Work in Progress" Proceedings of the 122nd ASEE Annual Conference and Exposition, June 14-17, Seattle, WA

Monson, Christopher, Laura Osburn, Carrie Sturts Dossick, Heather Burpee, and Gina Neff (2015), "Shifting logics of constructability and design: a study of emerging AEC integrated practices for energy performance", Proceedings of the Canadian Society of Civil Engineering's 5th International/11th Construction Specialty Conference, Vancouver BC, Canada, June 8-10.

Dossick, Carrie Sturts, Anne Anderson, Hoda Homayouni, and Chris Monson (2015) "Tutorials at Home, Vignette Exercises in Lab: A new model for BIM Education", Proceedings of the 9th BIM Academic Symposium, Washington D.C., April 7-8.

Taylor, John E., Semra Comu, Carrie Sturts Dossick, Timo Hartmann, Josh Iorio, Ashwin Mahalingam, Pauli Alin (2014) "Virtual Workspaces in Architecture, Engineering and Construction: Challenges, Opportunities and Future Directions", Proceedings of the 11th International Congress on Advances in Civil Engineering, Istanbul, Turkey, Oct 21-25

Dossick, Carrie Sturts. (2014) "Messy Work in Virtual Worlds: Exploring Discovery and Synthesis in Virtual Teams." Cooperative Design, Visualization, and Engineering. Lecture Notes in Computer Science, Vol. 8683, Springer International Publishing, pp 134-142. doi: 10.1007/978-3-319-10831-5\_19

Anderson, Anne and Carrie Sturts Dossick (2014), "Effectiveness Of Coordination Issue Discovery In Avatar-Scaled Bims Vs. Typical Coordination Practice Using 2D Screen-Sharing Software," Working Paper Series, Proceedings of the Engineering Project Organization Conference, Winter Park, CO, July 29-31.

Dossick, Carrie Sturts and Gina Neff (2014), "Interpretive Flexibility and the Price of Documentation," Working Paper Series, Proceedings of the Engineering Project Organization Conference, Winter Park, CO, July 29-31.



Monson, Christopher, and Carrie Sturts Dossick (2014), “Knowledge Transfer with Technology: Interdisciplinary Team Experiences in Design and Construction Education”, Proceedings of the 2014 International Conference on Computing in Civil and Building Engineering, Orlando, FL, USA, June 23-25

Anderson, Anne, and Carrie Sturts Dossick (2014), “Avatar-Model Interaction in Virtual Worlds Improves Distributed Team Collaboration through Issue Discovery”, Proceedings of the 2014 International Conference on Computing in Civil and Building Engineering, Orlando, FL, USA, June 23-25

Dossick, Carrie Sturts, Namhun Lee and Sean K. Foley, “Building Information Modeling in Graduate Construction Engineering and Management Education”, Proceedings of the 2014 International Conference on Computing in Civil and Building Engineering, Orlando, FL, USA, June 23-25

Anderson, Anne, Carrie Dossick, Rahman Azari, John Taylor and Timo Hartmann, (2014) “Exploring BIMs as Avatars: Using 3D Virtual Worlds to Improve Collaboration with Models”, Construction Research Congress, Georgia Institute of Technology, Atlanta, GA, USA, May 19-21

Homayouni, Hoda, Carrie Dossick and Gina Neff (2014), “Assessing the Impact of Collaboration and New Technologies in Increasing Energy Efficiency of HP Buildings,” Construction Research Congress, Georgia Institute of Technology, Atlanta, GA, USA, May 19-21

Comu, Semra, John E. Taylor and Carrie Sturts Dossick, (2014) “Comparing Global Versus Domestic Project Networks Collaborating in Virtual Workspaces,” Construction Research Congress, Georgia Institute of Technology, Atlanta, GA, USA, May 19-21

Migliaccio, Giovanni, Carrie Sturts Dossick and Elizabeth M. Golden, (2014) “Enhancing Interdisciplinary Thinking, Teamwork & Collaboration across CM, Arch & CE Disciplines through a Design-Build Competition”, 2014 Associated Schools of Construction 50<sup>th</sup> Annual International Conference, March 26-28, Washington D.C. (Best Paper Award)

Dossick, Carrie Sturts, and Gina Neff (2013) “Constructing Teams: Adapting practices and routines for collaboration through BIM” Engineering Project Organization Conference, Winter Park, CO, July 9-11

Anderson, Anne, Carrie Sturts Dossick and John E. Taylor, (2013) Exploring the Impact of Individual User Navigable Virtual Worlds on Coordination Latency in Distributed CEM Work, Engineering Project Organization Conference, Winter Park, CO, July 9-11

Dossick, Carrie Sturts, Rahman Azari, Yong-Woo Kim, and Omar El-Anwar (2013) "IPD in Practice: Sustaining Collaboration in Healthcare Design and Construction", AEI Conference 2013, Penn State, University Park, PA, April 3-5.

Gina Neff, Brittany Fiore-Silfvast, and Carrie Sturts-Dossick (2013) “Material Challenges to Communication Research: Rethinking the Dynamic Roles of Materiality in Communication”, International Communication Association Conference, London, England, June 17-21.

Kathrina Simonen, and Carrie Dossick (2013) “Iteration & Integration: Techniques for integrating building technology and design” Building Technology Educators’ Society, Bristol, Rhode Island, July 11-13.

Anderson, Anne; Carrie Sturts Dossick; and Gina Neff (2012) "Seeking new Social Norms: Facilities Services organizational Isolation in the University of Washington's Digital Transition" Engineering Project Organizations Conference, Rheden, The Netherlands, July 10-12.

Dossick, Carrie Sturts; Anne Anderson; Josh Iorio; Gina Neff; and John Taylor (2012) "Messy Talk and Mutual Discovery: exploring the necessary conditions for synthesis in virtual teams" Engineering Project Organizations Conference, Rheden, The Netherlands, July 10-12.

Dossick, Carrie Sturts; Rob Leicht; Gina Neff (2012) "Understanding How Virtual prototypes and Workspaces Support Interdisciplinary learning in Architectural, Engineering and Construction Education" Engineering Project Organizations Conference, Rheden, The Netherlands, July 10-12.

Anderson, Anne; Andrew Marsters, Carrie Sturts Dossick, and Gina Neff, (2012) "Construction to Operations Exchange: Challenges of Implementation COBie and BIM in a Large Owner Organization" Construction Research Congress, Purdue University, West Lafayette, IN, May 21-23

Anderson, Anne, Carrie Sturts Dossick, John E. Taylor, Josh Iorio, and Gina Neff, (2012) "Copresence in Global Virtual Teams" Construction Research Congress Poster Session, Purdue University, West Lafayette, IN, May 21-23

Namhun Lee, and Carrie Sturts Dossick, (2012) "Leveraging Building Information Technology in Construction Engineering and Management Education", American Society of Engineering Education Annual Conference and Exposition, San Antonio, TX, June 10 – 13.

Kate Simonen, Carrie Sturts Dossick and Rob Pena, (2012) "Reaching for Sustainability Using Technology and Teamwork: Teaching Integrated Project Delivery in Multi-Disciplinary Studios", Proceedings of the 100th ASCE Annual Meeting, Boston March 1-4.

Andrew Marsters, Anne Anderson and Carrie Sturts Dossick (2011), "University of Washington's CIB COBie Pilot Project", EcoBuild America, Washington D. C., December 7-10. Translated into Korean and republished in ARCHICREATION, Special Issue on BIM in America, 161, 10/2012

Anne Anderson, Stacy Ilina, Carrie Sturts Dossick and John E. Taylor, (2011) Collaboration Across Distances, CyberGRID: collaboration in a virtual environment, Poster Presented at Construction Industry Research Conference, Pacific Northwest Center for Construction Research and Education, University of Washington, Nov. 4

Homayouni, Hoda, Carrie Sturts Dossick and Gina Neff (2011), "Construction Projects as Fuzzy-Sets: A Set Theoretic Approach to Analyzing the Role of Building Information Modeling in Higher Performance Buildings", Engineering Project Organization Conference EPOC 2011, Estes Park, CO August 9-11.

Iorio, Josh, John Taylor and Carrie Sturts Dossick, (2011) "A Bridge to Far: Examining the Impact of Facilitators on Bridging knowledge Domains in Global Project Networks", Engineering Project Organization Conference EPOC 2011, Estes Park, CO August 9-11.

Comu, Semra, Joshua Iorio, John Taylor, Carrie Sturts Dossick (2011), "The Impact of Facilitation on Transactive Memory System Formation in Global Virtual Project Networks", Engineering Project Organization Conference EPOC 2011, Estes Park, CO August 9-11.

Comu, Semra, John E. Taylor, Carrie Sturts Dossick, (2011) “The Impact of Facilitation on Collaboration Effectiveness in Virtual Project Workspaces”, 2011 CII Annual Conference Poster Session, Chicago, IL July 25-27

Anderson, Anne, Carrie Sturts Dossick, Josh Iorio, John E. Taylor and Gina Neff (2011), Avatars, Text and Miscommunication: The Impact of Communication Richness on Effective Collaboration in Global Virtual Engineering Project Networks“, 3<sup>rd</sup> International and 9<sup>th</sup> Construction Specialty Conference, Ottawa, Canada June 14-17.

Fiore-Silfvast, Brittany, Gina Neff and Carrie Sturts Dossick. (2011) “From Conversations to Structures: The Material Social Life of Documents in Organizational Communication.” International Communication Association Virtual Conference, May, 45pp.

Dossick, Carrie Sturts and Rob B. Pena (2010) “Bringing Together ‘A’, ‘E’ and ‘C’ in a Problem-based Collaborative Studio”, Paper presented at the 2010 National Institute of Building Sciences Annual Meeting, Ecobuild America, Washington D.C., December 6-10.

Dossick, Carrie Sturts and Gina Neff (2010) “Perceptions of Collaboration with Building Information Modeling : Clean Technology ; Messy Talk” Paper presented at the 2010 Engineering Project Organizations Conference, South Lake Tahoe, CA November 4-6.

Homayouni, Hoda, Gina Neff and Carrie Sturts Dossick, (2010) "Theoretical Categories of Inter-organizational Collaboration and BIM Implementation within the AEC Industry" Proceeding of the 2010 Construction Research Congress, Banff, BC May 8-10.

Neff, Gina, Brittany Fiore-Silvast, Carrie Sturts Dossick. (2009). “Model Failure: Assemblages, Performances, and Uneasy Collaborations in Commercial Construction.” Paper presented at the Communication and Information Technology Section Session, American Sociological Meetings. San Francisco, August.

Rojas, Eddy M, Carrie Sturts Dossick, John Schaufelberger, Beth.A.Brucker, Bill.W.East , Helen Juan, Chris Rutz, (2009) “Evaluating Alternative Methods for Capturing As-Built Data for Existing Facilities” 2009 ASCE Workshop on Computing in Civil Engineering. Austin, TX, June 24-27, 2009.

Dossick, Carrie Sturts, Gina Neff, and Hoda Homayouni (2009) “The Realities of Building Information Modeling for Collaboration in the AEC Industry”, Proceeding of the 2009 Construction Research Congress, Seattle WA, April 5-7.

Taylor, John E., Carrie Sturts Dossick, and Michael J. Garvin (2009) “Constructing Research with Case Studies”, *Proceeding of the 2009 Construction Research Congress*, Seattle WA, April 5-7.

### **Peer-Reviewed Conference Proceeding and Presented Papers (Selected 2005-2008)**

Dossick, Carrie S., Gina Neff and Helen Juan, (2008) “Analyzing the Ramification of Building Information Technologies for Collaboration in Architecture, Engineering and Construction” *Proceedings of the 12<sup>th</sup> International Conference on Computing in Civil and Building Engineering*, Beijing, China October 16-18.

Dossick, Carrie Sturts, Eddy M. Rojas, Susan Locsin, and Namhun Lee, (2007) “Defining Construction Management Events in Situational Simulations”, *Proceedings of the 7<sup>th</sup> International Conference on Construction Applications of Virtual Reality*, Penn State University, University Park, PA October 22-23.

Dossick, Carrie Sturts; Makoto Sakagami, and Clark Pace, (2006) "Project Management and Collaboration Tools on the Internet - Where Are We After the Bubble?" *Proceedings of the 2nd Speciality Conference on Leadership and Management in Construction*, Grand Bahama Island, Bahamas, May 4-6.

### **Technical Research Reports**

Renee Cheng and Andrea J. Johnson (2016), University of Minnesota in collaboration with University of Washington, University of British Columbia and Scan Consulting, "Motivation and Means: How and Why IPD and Lean Lead to Success" Produced for the Integrated Project Delivery Alliance and the Lean Construction Institute, November

Renee Cheng, Markku Allison, Carrie Sturts Dossick and Chris Monson (2016), "IPD: Performance, Expectations, and Future Use: A Report on Outcomes of a University of Minnesota Survey", Produced for the Integrated Project Delivery Alliance, September 25

Renee Cheng, (2016), "Teams Matter: GSA Region 5 and the American Recovery and Reinvestment Act", Sponsored by GSA Region 5 and 4240 Architecture, May

Renee Cheng, (2015) "Integration at its Finest: Success in High-Performance Building Design and Project Delivery in the Federal Sector" Office of Federal High-Performance Green Buildings, U.S. General Services Administration, [http://www.gsa.gov/largedocs/integration\\_at\\_its\\_finest.pdf](http://www.gsa.gov/largedocs/integration_at_its_finest.pdf)

Burpee, Heather, Carrie Sturts Dossick, Gina Neff, Alireza Borhani, Aaron Osborne, and Julie Kriegh, (2015) "Building User Audit, Capturing Behavior, Energy, and Culture: Building User Audit Procedure." A step-by-step guide for auditing campus buildings for user influenced energy uses and behaviors. Produced for the University of Washington Green Seed Fund.

Burpee, Heather, Carrie Sturts Dossick, Gina Neff, Alireza Borhani, and Julie Kriegh, (2015) "Building User Audit, Capturing Behavior, Energy, and Culture: Final Report." A detailed report outlining findings from implementation of the Building User Audit Procedure. Produced for the University of Washington Green Seed Fund. April 2015.

Dossick, Carrie Sturts, Gina Neff and Brittany Fiore-Silfvast (2011) "Implications of New Construction Technology for Western Washington Mechanical Contractors" PNCCRE Technical Report #TR001, February

Rojas, Eddy M., Carrie Sturts Dossick, John Schaufelberger, Helen Juan, and Christopher Rutz, (2008). "Evaluating Alternative Methodologies for Capturing As-Built Building Information Models (BIM) for Existing Facilities", U. S. Army Engineer Research and Development Center Construction Engineering and Research Laboratory.

Griffis, F.H. (Bud) and Carrie S. Sturts, (2000) "Three-Dimensional Computer Models and the Fully Integrated and Automated Project Process of the Management of Construction," Construction Industry Institute publication RR152-11.

Rutgers University, NJIT, Columbia University (C. Sturts), Princeton University, The National Association of Regional Councils and the University of Cincinnati (1997), "Public Works Program, Performance Evaluation, Final Report," Economic Development Administration.

### **Books and Book Chapters**

Migliaccio, Giovanni C.; Ken-Yu Lin, and Carrie Sturts Dossick, "Learning to Create a Better Built Environment", in *Online Learning for STEM Subjects: International Examples of Technologies and Pedagogies in Use*, Eds Mark Chiles and Robby Soetanto, Routledge, New York, 2017

Friedman, Daniel S., Philip G. Bernstein, Carol Burns, Joseph G. Burns, Renee Cheng, Carrie Sturts Dossick, Billie Faircloth, Kiel Moe, and Michael J. Monti, (2016) "Goat Rodeo", CreateSpace Independent Publishing Platform, ISBN-10: 1530060257

Neff, Gina and Fiore-Silfvast, Brittany and Dossick, Carrie Sturts, "Materiality: Challenges and Opportunities for Communication Theory" (May 1, 2014). ICA 2013 Theme Book: Challenging Communication Research, edited by Leah Lievrouw. Available at SSRN: [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2435841](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2435841)

Griffis, F.H. (Bud) and Carrie S. Sturts, "Fully Integrated and Automated Project Process (FIAPP) for the Project Manager and Executive", Book Chapter from *4D CAD and Visualization in Construction: Developments and Applications*, edited by Raja R. A. Issa, Ian Flood, William J. O'Brien. Exton, PA, Swets & Zeitlinger/A. A. Balkema, 2003

Sturts, Carrie S., "Appendix A: Program, Project and Activity Planning, Putting it All Together," book chapter from *Construction Planning for Engineering*, by F.H. Griffis and John V. Farr, McGraw-Hill Higher Education, 2000.

### **Seminars and Certificates**

- 2016 CERC/Skanska BIM Certificate, co-instructor and capstone lead, Fall and Spring
- 2015 CERC/Skanska BIM Certificate, co-instructor and capstone lead, Fall
- 2008 3-Day International Symposium on Building Information Modeling, Yonsei University, Seoul, Korea, May 26-28

### **Lectures and Invited Talks (2009 - Present)**

- 2016 Research and Training with UW Faculty and Students, Northwest Construction Consumers Council, October 25

**Panel Facilitator: BIM Visioning Event**, South Puget Sound Community College, September 23

**Panel Facilitator: The Project is Done - Now What?**, Northwest Construction Consumer Council, September Program Agenda, September 21

**How and Why does Integrated Lean Succeed**, Construction Users Roundtable, Lean Construction Summit, Henderson, NV, June 15

- Built Environment Pechakucha Speaker: Transition from Construction to Operations**, The Strategic Workshop on Big Data in the Built Environment, Research Facility Analytics Network, Ryerson University, Toronto, CA, June 16
- 2015 **Keynote Address: Design in the Details: Buildings, Technologies and Communication Practices**, Research Symposium, Texas A&M College of Architecture, October 18
- Beyond BIM**, American Society of Professional Estimators Annual Meeting, Seattle, WA, Oct 5
- Integration, Collaboration, Yada, Yada, Yada... Does Any of This Really Make a Difference?** Construction Owners Association of America, May 15
- 2014 **Bringing Together GIS Mapping with COBie and BIM Standards for Facilities Construction and Maintenance**, Facilities Services, Google, Mountain View, CA, Oct 3
- Models, Documents and Innovation: Interpretive Flexibility in the BIM era**, Stanford Global Projects Center and the Center for Integrated Facilities Engineering, Stanford University, Oct 1
- BIM for FM: the Case Study of the University of Washington's COBie Pilot Project**, University of Twente, Enschede, Netherlands, April 28
- Messy Work in Virtual Worlds**, CyberGRID Global Lecture Series (online with University of Washington, Virginia Tech, University of Twente, IIT-Madras, and Bulgazici University), conducted from the University of Twente, Netherlands, April 28
- Digital Adventures: Bringing together GIS, COBie and BIM for Facilities Construction and Operations**, TRB NBIMS Joint Workshop, Washington D.C. January 11
- 2013 **Using 3D Technology to Architect Communities**, Serious Play Conference, Redmond, WA, Aug 19-22
- Digital Adventures in an Owner's Transition from Construction to Operations**, Ohio Construction Conference, The Builders Exchange of Central Ohio, March 14.
- 2012 **COBie Pilot Project, BIM-GIS Integration and Other Adventures in Digital Facilities Management**, Co-presented by Carrie Sturts Dossick, Graham Conduit, Sellen Construction and Eric Smith, University of Washington Capital Projects, AIA Seattle Project Delivery Forum, Dec 4.
- COBie, BIM, GIS, and other digital adventures at the University of Washington**, Co-presented by Carrie Sturts Dossick and Eric Smith, University of Washington Capital Projects, Construction Owners Association of America, Nov 1-2.
- COBie Pilot Project, BIM-GIS Integration and Other Adventures in Digital Facilities Management**, Co-presented by Carrie Sturts Dossick, Graham Conduit, Sellen

- Construction and Eric Smith, University of Washington Capital Projects, Fall 2012 BIM Forum, Tacoma, WA Oct 10.
- Integrated AEC Studio in the College of Built Environments**, 2012 AIA Committee on Architecture for Education, Fall Conference, Seattle, WA, Oct. 2.
- COBie and BIM for Operations and Maintenance at the University of Washington**, Research Meeting at the Design Innovation Research Center, University of Reading, UK July 7.
- Panelist, **Women in Construction**, Construction Research Congress, Purdue University, West Lafayette, IN, May 21
- Avatars, Text, and Miscommunication: The Impact of Communication Richness on Global Virtual Team Collaboration**, CyberGRID Global Lecture Series, Pacific Northwest Center for Construction Research and Education, June 7
- Organizational Divisions in BIM-enabled Commercial Construction**, CyberGRID Global Lecture Series, Pacific Northwest Center for Construction Research and Education, Feb. 4
- Learning to Create a Better Built Environment**, HP Catalyst Project Showcase, <http://catalyst.navigator.nmc.org/gallery/poster.php?nid=14322&vid=21762>
- 2011 **Moving to Building Information Management – The University of Washington’s Digital Transition**, Construction Owners Association of America, Fall Owners Leadership Conference, Las Vegas, NV, November 9-11
- Implications of New Construction Technology for Western Washington Mechanical Contractors**, Construction Industry Research Conference, Pacific Northwest Center for Construction Research and Education, University of Washington, Nov. 4
- Discussion of “Organizational Divisions in Build-Enabled Commercial Construction”**, post-doctoral Research Fellow’s reading group, Reading University, Online meeting: Webex, March 10
- The Integrated Studio: A Case Study of Collaborative Educational Experiences** Panel: Integrated Methodologies in Practice – What Educators Should Know, Where Do You Stand, 99<sup>th</sup> ACSA Annual Meeting, Montreal, Canada, March 3-6
- Introduction to Integrated Project Delivery: Comments on the State of the Practice** AIA +2030 Session 1, Seattle, WA February 25th
- 2010 **IPD Decoded: Do you really know what it is?** Integrated Project Delivery | Making It Work for You, AIA-Seattle Workshop, Seattle, WA, December 13th
- 2009 **From the Field: Case Study Examples of Preconstruction and Construction BIM** American Council of Engineering Companies, Seattle Building Information Modeling Workshop October 29-30th
- BIM: The Ramifications for Design and Construction**

Construction Financial Management Association, South Sound Chapter, Tacoma, WA  
October 8th

**What is BIM?**

National Association of Women in Construction Region 9 FORUM, Seattle, WA April 18th

**What is BIM – A Point of Departure**

Inaugural Seattle BIM Forum meeting, Seattle, WA, March 18

**Lectures and Invited Talks (Selected 2003 - 2008)**

2008 **Recent Trends in Building Information Modeling**

2008 Buildex, Construct and Design Trends Seattle Conference and Exposition for Real Estate, Property Management, Construction, Renovation, Architecture and Interior Design, October 1, Washington State Convention and Trade Center, Seattle, WA

**3D, 4D and BIM**

Association of Builders and Contractors Monthly Meeting Program, Seattle, WA, April 23

**Analyzing the Ramifications of New Communication Technologies for Collaboration in Architecture, Engineering, and Construction**

Research in Progress, 44th Annual Associated Schools of Construction International Conference, April 2-5, Auburn, AL

2007 **3D/BIM in the Building and Transportation Sectors**

Research in Progress, 43rd Annual Associated Schools of Construction International Conference, April 12-14, Flagstaff, AZ.

**Autopsy of a Builder's Risk Claim**

PLRB/LIRB Claims Conference and Insurance Services Expo, March, Orlando, FL

2006 **3D Modeling**

University Faculty Paper Presentations, *ABC National Convention*, March 17, Las Vegas, NV.

2005 **4D Scheduling**

Professional Development Seminar, Society of American Military Engineers, Bremerton, WA, Spring

**Construction Delay Claims in California**

Lorman Seminar, San Jose, California, Spring

2004 **Builder's Risk: Controlling the Course of the Large Construction Loss**

Property Loss Research Bureau Big Dog Large Loss Conference, Scottsdale, Arizona, Fall.

**The Art of Scheduling**

Technical Presentation, Exponent Inc., Oakland, California, Fall.

2003 **Pricing and Contracting Strategies: Value vs. Low Bid**

American Society of Civil Engineers Younger Members Forum, Oakland, California, Spring.

**Course of Construction Workshop**

AIG Technical Services National General Adjusters meeting, San Francisco, CA, Spring





## TEACHING

### Current Teaching Assignments

**CM 414 Virtual Construction**

3 credits/20-30 students

**ARCH 404/CM 404/CM 426/ CM512 Integrated AEC Studio**

6 credits/12-16 students and 3 credit/12 students

**CM 515 Innovative Project Management Concepts**

3 credits/20-30 students

**BE550 Colloquium-Practicum on Research-Practice and Teaching-Learning**

6 credits/10 students

### Courses Taught in Previous Academic Years

**CM 313/ARCH332 Construction Methods and Materials**

4 credits/ ~120 students

**CM 421 Project Management I**

3 credits/ ~ 60 students

### Graduate Students Supervised as Ph.D. Committee Chair

Active	<b>Hamid Abdirad</b>
Active	<b>Bitu Astaneh Asl</b>
Active	<b>Chris Monson</b>
2015	<b>Hoda Homayouni</b> Building Information Modeling, Collaboration and Green
2015	<b>Anne Anderson</b> Collaboration in Global Teams

### Ph.D. Committee Member

Active	<b>Barbara Rodriguez Droguett</b> , University of Washington
Active	<b>Daniel Hall</b> , Sanford University
2016	<b>Julieta Matos Castano</b> , University of Twente
2015	<b>Manisa Veeravigrom</b> , UW Dept of Civil Engineering

	Green Roads
2014	<b>Christoph Merschbrock</b> , University of Adgar
2012	<b>Semra Comu</b> , Virginia Tech Collaboration in Global Virtual Teams
2012	<b>Jeralee Anderson</b> , UW Dept of Civil Engineering, GSR Green Roads
2011	<b>JeongWook Son</b> Simulation & Productivity
2009	<b>NamHun Lee</b> Construction Visualization

### **M.S. Thesis Committee Chair**

Winter 2017	<b>Achaiah Ramesh Malachira</b> Key components of Collaboration in Higher Education buildings: a case study of Stakeholder Engagement at the University of Washington
Winter 2017	<b>Nishant Bordia</b> Role of Technological Leadership in Supporting Collaboration and Communication in Globally Distributed Virtual Teams
Winter 2017	<b>Devarshi Patel</b> Virtual Reality as a Training Tool for Building Operations
Fall 2016	<b>Eric Opincar</b> Assessing the Technology Used by UAVs in Collecting Data and Their Limitations on Construction Sites
Spring 2016	<b>Mihir Bharmal</b> Asset and Inventory Management at Sound Transit
Fall 2015	<b>Alireza Borhani</b> Building User Audit Procedure
Summer 2015	<b>Lokesh Masania</b> Dichotomy Between 2D and 3D Data for Facilities Management
Spring 2015	<b>Lucky Agung Pratama</b> Immersive Virtual Reality Prototype for Evaluating 4D CAD Model
Spring 2015	<b>Bitu Astanah Asl</b> Value Proposition of COBie at the University of Washington
Summer 2014	<b>Andrew Hansen</b> Dismantling Silos: From Creative Collaboration to Collaborative Creativity

- Fall  
2012      **Gayane Aghazarian**  
A Comparative Analysis of Construction Operation Information Exchange Via Paper-based Systems and COBie Format: a Case Study of COBie at the University of Washington
- Fall  
2011      **Andrew Marsters**  
Obstacles of Implementing 6D Information Exchange: a Case Study of COBie at the University of Washington
- John R Elswick**  
Barriers to the Adoption of 4D Modeling
- Fall  
2010      **Amor Kool**  
The changes made during construction phase of the building which deflects the energy model prediction to the calculated actual performance.
- Rebecca Tyrone**  
Analysis of Integrated Design-Build Practice
- Spring  
2009      **Chris Rutz**  
Productivity in the Collection of COBIE Data for Existing Buildings
- Ana Levan**  
Evaluation of BEES 4.0, Athena EcoCalculator, and the Green Guide: The Use of Life Cycle Analysis Tools for Teaching Construction Materials and Methods
- Winter  
2009      **Rishi Tirupari**  
KMEW Ceraclad Siding Study Phase II
- Fall  
2008      **Helen Juan**  
Thesis: The Collection of COBIE Data for Existing Buildings: A Comparative Cost Analysis of Four Survey Methods
- Summer  
2008      **Manisa Veeravigrom**  
Thesis: Building Information Modeling for Operations and Maintenance
- Naila Crawford**  
Thesis: Impact of Building Information Modeling (BIM) on the Roles and Responsibilities of Architects in the Puget Sound Region
- Spring  
2008      **Basem Banabilah**  
Thesis: Building Information Modeling - A Better Way to Achieve Sustainable Design?
- Fall  
2007      **Juthamard Subongkot**  
Thesis: Comparing Exterior Wall Performance In Terms Of Moisture Across Seasons
- Regina Goth**  
Thesis: 3D BIM Metrics for Mechanical Contractors

- Spring  
2007      **Zerah Zurek**  
Thesis: Moisture Intrusion Testing Of Rain Screen Siding Systems
- Spring  
2006      **Makoto Sakagami**  
Thesis: Development of Strategies To Overcome Barriers To The Adoption Of  
Web-Based Project Management Systems
- M.S. Paper and Professional Project Committee Chair**
- Winter 2017      **Siddharth Chhabra**  
IPD Attributes Endorsing Team Collaboration and Information Exchange
- Fall 2016      **Doan-Nhi Nguyen**  
Building Information Modeling: Key Elements to Successful Implementation
- Fall 2016      **Sa Hoon Kim**  
Impact of Current Construction Workforce Due to Digitally Driven Productions
- Fall 2016      **Nikeshwar Reddy Duvuri**  
Literature Review on Building Information Modeling (BIM) for Sustainability - BIM  
for Energy Modeling
- Spring  
2016      **Christina Yee**  
Transforming Social Reluctances Against Using Integrated Project Delivery into a  
Framework for Trust
- Dennis Elbert**  
Construction Submittal Process Optimization
- Spring  
2015      **Lingzi Zhang**  
Asset and Inventory Data for Commissioning in Transit Projects
- Winter  
2015      **Derek Tate**  
Cloud-based Project Management Systems
- Summer  
2014      **Luyao Wang**  
Communication Tools in Virtual Worlds, Co=presence Improved for Virtual AEC  
Team Collaboration
- Spring  
2014      **Deborah Markert**  
Modular, Prefabricated Construction in Mid-to-High Rise Structures: Examining  
Cost, Logistics and Labor
- Summer  
2010      **Tanel Friedenthal**  
How are 3D and BIM Changing the Design, Fabrication and Construction of  
Complex Steel Structures?
- Fall  
2010      **Jordan Cash**  
IPD, BIM and LEAN: A Case Study of Children's Hospital Bellevue Project
- Spring  
2010      **JJ Powell**  
Assessment of AEC Professional Identification, Roles and Philosophies

Summer 2008	<b>Maria Llobett</b> Building and BIM in the AEC Industry
Spring 2009	<b>Sai Neeraj Kumar</b> Case Studies for Material Life Cycle Analysis
Fall 2008	<b>Maizer Oujdani</b> Project: Construction Event Case Studies
	<b>Brad Hottle</b> Project: Implementing BIM as a Contractor
Spring 2007	<b>James Shaiman</b> Project: 3D and BIM Models for Skanska Construction
Winter 2007	<b>Peter Avratin</b> Project: Pacific Northwest Center for Construction Research and Education Methods and Materials Lab
Fall 2006	<b>Jos van Boxtel</b> Masters US-Netherlands Exchange Project
Spring 2006	<b>Jos Appelhof and Koen Kerstens</b> Masters US-Netherlands Exchange Project

### **M.S. Thesis, Project, or Paper Committee Member**

Winter 2011	<b>Brian Fabella</b> Landscape Architecture Thesis: material fluxus: Dialog and Materials in the Built Environment
Summer 2010	<b>Matt Quijano</b> Building Information Modeling and COBIE for Existing Buildings
Summer 2008	<b>Simon Wan</b> Thesis: Sustainable Waste Management in Construction
Summer 2008	<b>Michael O'Beirne</b> Project: Comparison of Military and Civilian Contracting
Summer 2007	<b>Brian Wiersema</b> Thesis: Virtual Reality for Visualization in the Design and Construction Industry
Spring 2007	<b>Michael Wright</b> Thesis: Cultural Influences On International Construction Project Teams
Spring 2007	<b>Eugene Pike</b> Project: ADA Transition Plan, King County DOT, Road Services Division

Winter  
2007      **Vasyl Dmytriv**  
Thesis: Analysis of Structure Monitoring Technology

Fall  
2007      **Matthew L Robinson**  
Thesis: Analysis of Leadership Development Programs in Construction Companies

### **Awards for Teaching**

2007      **National Teaching Award**, Associated Schools of Construction, Flagstaff AZ

## SERVICE

### Contributions to the University

- 2016 Chair, Non-Merit Review Committee, Department of Construction Management  
 Chair, Prof. Yong Kim's Promotion Committee, Department of Construction Management  
 Executive Director, Center for Education and Research in Construction  
 Chair, CERC New Frontiers Conference  
 CM Department: Dual Degree Curriculum and Advising
- 2015 Executive Director, Center for Education and Research in Construction  
 Chair, CERC New Frontiers Conference  
 Chair, Ad-hoc CBE Digital Curriculum Committee  
 Member, Interdisciplinary Group for Real Estate Studies  
 Faculty Senate Representative, College of Built Environments  
 Member, Faculty Council for University Facilities and Services (Fall quarter)  
 Managed dual degree curriculum
- 2014 Executive Director, Pacific Northwest Center for Construction Research and Education  
 Chair, Ad-hoc CBE Digital Curriculum Committee (forming)  
 Steering Committee member, College-wide Ph.D. in the Built Environment (program review)  
 Managed dual degree curriculum (preparing for 2015 CM curriculum changes)
- 2013 Executive Director, Pacific Northwest Center for Construction Research and Education  
 Committee member, CBE Dean's Search Committee  
 15x15 presentation in College-wide Fall Orientation  
 Steering Committee member, College-wide Ph.D. in the Built Environment
- 2012 Executive Director, Pacific Northwest Center for Construction Research and Education  
 RRF Grant Reviewer  
 15x15 presentation in College-wide Fall Orientation  
 Committee member, CBE Strategic Planning Committee  
 Committee member, Dean's 5-year Review Committee  
 Steering Committee member, College-wide Ph.D. in the Built Environment
- 2011 Executive Director, Pacific Northwest Center for Construction Research and Education  
 Chair, Professional Education Committee, Construction Industry Advisory Council  
 Host and coordinator, Guest Lecture, Daniel Hogan, Director, Office of Construction Management, Bureau of Overseas Building Operations, U.S. Department of State "Building Platforms for Diplomacy"  
 15x15 presentation in College-wide Fall Orientation  
 College-wide retreat Planning Committee Member and small group moderator  
 Committee member, CM Department Undergraduate Admissions  
 Committee member, College-wide Ph.D. in the Built Environment
- 2010 Executive Director, Pacific Northwest Center for Construction Research and Education  
 Chair, Professional Education Committee, Construction Industry Advisory Council  
 Committee Member, College-wide Strategic Planning Committee  
 15x15 presentation in College-wide Fall Orientation  
 May Day 2010 Planning Committee, College of Built Environments Faculty Retreat.



- Committee member, Search Sustainable Transportation Infrastructure Position in the Department of Civil Engineer
- 2009 Committee member, College of Built Environments Shop upgrade  
 Committee member, College of Built Environments Spring Faculty Retreat  
 Committee member, Department of Construction Management Undergraduate Admissions  
 Committee member, Department of Construction Management Faculty Candidate Search  
 Committee member and faculty advocate, College-wide materials library  
 Ph.D. of the Built Environment Student Admissions
- 2008 Committee member, Runstad Center for Real Estate Faculty Candidate Search for 2009 two positions  
 Final Review Juror, Kieran Timberlake Studio/Seminar  
 Committee member, Construction Management Department Faculty Candidate Search  
 Proposal Reviewer, Royalty Research Fund  
 Construction Management Masters Student Admissions Committee  
 Construction Management Undergraduate Admissions Committee  
 Department representative and student coach, Associated Builders and Contractors of Western Washington meeting at the Pacific Northwest Center for Construction Research and Education, January 23  
 Committee member and faculty advocate, College-wide materials library  
 Ph.D. of the Built Environment Student Admissions
- 2007 Committee member, Assistant Dean of Student Affairs, College of Architecture and Urban Planning  
 Developed Virtual Construction Focus Area, Department of Construction Management Graduate Program  
 Committee member, Roll of Honor, College of Architecture and Urban Planning  
 Construction Management Undergraduate Admissions Committee  
 Faculty Coach, ABC Student Competition  
 Faculty Coach, Skanska Student Competition  
 Planning Committee Member, CAUP Praxis Lecture Series  
 Organized and hosted Gehry Technology Lecture and Technical Workshop, January 25 – 28  
 Interview Subject, Data Census Project, University of Washington Libraries  
 Dual Degree Curriculum restructuring and Rome Program plan  
 Committee member and faculty advocate, College-wide materials library  
 Ph.D. of the Built Environment Student Admissions
- 2006 Faculty Coach, ABC Student Competition  
 Faculty Coach, Skanska Student Competition  
 Search Committee Member for the Department of Architecture Chair  
 University representative, BIM Consortium Meeting, NJIT, August  
 University representative, AIA Integrated Practice Meeting with Schools of Architecture, Chicago, Illinois, October 16-17  
 Planning Committee Member, Department of Construction Management, Hall of Fame Banquet, Spring  
 Moderator: Capstone Presentations, Spring  
 Review committee member, Landscape Design-Build studio, Spring  
 Faculty Representative, Student Competition, Northwest Construction Consumer Council

### **Contributions to the Profession**

- 2017 Facilitator, Preconference Workshop: BIM in the Classroom, Associated Schools of Construction Conference (April 2017)  
 Facilitator, Curriculum Discussion: BIM in the Classroom, Associated Schools of Construction Conference (April 2017)  
 Chair, Education Subcommittee, buildingSMART Alliance, National Institute of Building Sciences  
 Member, US Army Corps of Engineers/Industry BIM and CIM Consortia  
 Editorial Board, Engineering Project Organizations Journal  
 Mentor, American Society of Civil Engineering, CRC Mentorship Program  
 Grant Proposal Review, National Science Foundation  
 Grant Proposal Reviewer, Research Grants Council, Hong Kong  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*  
 Journal Paper Reviewer, *Journal of Construction Management and Economics*  
 Journal Paper Reviewer, *Canadian Journal of Civil Engineering*  
 Journal Paper Reviewer, *Engineering, Construction and Architectural Management*
- 2016 Committee member, National Institute of Building Science BIM for Owners Guide  
 Member, US Army Corps of Engineers/Industry BIM and CIM Consortia  
 Curriculum Advisory Board Member, Vietnam VDC Education Initiative  
 Conference Chair, Engineering Project Organizations Conference  
 Editorial Board, Engineering Project Organizations Journal  
 Journal Paper Reviewer, *Engineering, Construction and Architectural Management*
- 2015 External Reviewer, Ph.D. Thesis proposal, Marc van den Berg, University of Twente, Netherlands  
 Committee member, National Institute of Building Science BIM for Owners Guide  
 Guest Editor, International Journal of Automation and Smart Technology, Special Issue Smart Education, Technology and Environment  
 AIA TAP Innovation Award Jury Member  
 Member, US Army Corps of Engineers/Industry BIM and CIM Consortia  
 Curriculum Advisory Board Member, Vietnam VDC Education Initiative  
 Adhoc reviewer, National Science Foundation, Science of Organizations Program  
 Journal Paper Reviewer, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*  
 Technical Chair, Engineering Project Organizations Conference  
 Editorial Board, Engineering Project Organizations Journal
- 2014 Grant Reviewer, Nazarbayev University, Oak Ridge Associated Universities.  
 External Reviewer, Twente Graduate School Award, University of Twente  
 Adhoc reviewer, National Science Foundation, Science of Organizations Program  
 External Opponent, Christoph Merschbrock Ph.D. Defense, University of Adgar, Kristiansand, Norway  
 Journal Paper Reviewer, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*  
 Conference Organizing Committee, Engineering Project Organizations Society  
 Editorial Board, Engineering Project Organizations Journal  
 Conference Organizing Committee, 11<sup>th</sup> International Conference on Cooperative Design Visualization and Engineering
- 2013 Grant Review, New Zealand Ministry of Business, Innovation, and Employment (MBIE)  
 Editorial Board Member, *Engineering Project Organization Journal*

- Journal Paper Reviewer, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*
- 2012 Advisor, HP Leadership Fund, Application by Coventry University, UK.  
 Grant Review Panelist, National Science Foundation  
 Editorial Board Member, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*  
 Journal Paper Reviewer, *Automation in Construction*  
 Planning and Technical subcommittee, *National BIM Standard, BuildingSMART Alliance, National Institute of Building Sciences*
- 2011 Editorial Board Member, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*  
 Planning and Technical subcommittee, *National BIM Standard, BuildingSMART Alliance, National Institute of Building Sciences*  
 Planning Committee member, *ALA-Seattle Workshop on Integrated Project Delivery, Dec. 2011*
- 2010 Editorial Board Member, *Engineering Project Organization Journal*  
 Journal Paper Reviewer, *Journal of Professional Issues in Engineering Education and Practice*  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*  
 Journal Paper Reviewer, *Information, Communication and Society*  
 Session Moderator and Technical Committee member, Construction Research Congress, Banff, Alberta, Canada May 8-10  
 Journal Paper Reviewer, *Journal of Information Technology in Construction*
- 2009 Session Moderator, Construction Research Congress, Seattle WA, April 5-7  
 Conference Program Committee Member, Construction Research Congress  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*
- 2008 Journal Paper Reviewer, *Journal of Professional Issues in Engineering Education and Practice*  
 Journal Paper Reviewer, *Computer-Aided Civil and Infrastructure Engineering (CACIE) – An International Journal*  
 Textbook Reviewer, *Fundamentals of Building Construction, Materials and Methods* by Allen and Iano, 5<sup>th</sup> Edition  
 Judge panelist, AGC Build Washington Awards  
 Session Moderator, International Proceedings of the 44<sup>th</sup> Annual Conference, Associated School of Construction, Auburn University, Auburn, Alabama, April 2-5  
 ASC Board of Reviewers, International Proceedings of the 44<sup>th</sup> Annual Conference, Associated School of Construction, Auburn University, Auburn, Alabama, April 2-5  
 Journal Paper Reviewer, *Journal of Information Technology in Construction*  
 Journal Paper Reviewer, *Special Issue Journal of Computing in Civil Engineering*
- 2007 Facilitator, ACSA/AIA Teachers Seminar at Cranbrook: “Integrated Practice & the Twenty-first Century Curriculum”  
 Grant Review Panelist, Preliminary IGERT proposals, National Science Foundation  
 Organizing Committee Member, Construction Research Congress  
 Journal Paper Reviewer, *Automation in Construction*  
 Technical Paper Reviewer, Construction Research Congress  
 Technical Paper Reviewer, ASEE Annual Conference and Exposition

- Organizing Committee member and Field Trip Chair, Western Regional Younger Member Conference  
 Academic Committee Member, Construction Industry Institute  
 Journal Paper Reviewer, *Journal of Construction Engineering and Management*
- 2005 University of Washington Liaison, American Society of Civil Engineers (ASCE)  
 Younger Member Forum, Seattle, Washington

### **Contributions to the Community**

- 2015 Hosted visit by Jennifer Whyte, Professor, University of Reading, May 4-6  
 Hosted the CERC New Frontiers Conference, March 6  
 Planning committee member, AEC Hackathon
- 2014 Planning committee member, AEC Hackathon
- 2013 Hosted visit by Geert DeWulf, Dean, University of Twente  
 Hosted the Construction Industry Research Conference at the Pacific Northwest Center for Construction Research and Education
- 2012 Guest reviewer and visiting scholar, Design Innovation Research Center, University of Reading, UK July 7  
 Hosted, arranged lecture sessions and job site tours, undergraduate class of students from Ehwa University, July, Seattle, WA
- 2011 Hosted the Construction Industry Research Conference at the Pacific Northwest Center for Construction Research and Education, Nov. 4
- 2010 Panelist, Careers in Construction Lunch, *Mentor a Girl in Construction*, National Association of Women in Construction, June  
 Host, NAWIC Annual Christmas Party, December
- 2008 Crew lead, Women's Build, Habitat for Humanity, Snoqualmie Ridge, May
- 2007 Volunteer: Engineering Fair Popsicle Stick Bridge Building Context, Mark Twain Elementary School, Bellevue, WA
- 2006 Ask an Engineer, *American Society of Civil Engineers Student Chapter*, University of Washington Student Chapter, Seattle, Washington, Spring  
 Engineer Panel, *Holy Names Academy Career Day*, Seattle, Washington  
 Participant, Seattle Works Volunteer Day, May  
 Facilitator, K-12 Student outreach Zoom into Engineering, May  
 Facilitator, K-12 Student outreach, Build-it, Seattle Science Center, April
- 2005 ACE Mentor College Night, Representative for the Department of Construction Management, University of Washington, Fall  
 Engineer Panel, *Holy Names Academy Career Day*, Seattle, Washington  
 Organized student volunteers and participated in four Habitat for Humanity build days
- 2004 Student outreach, Society of American Military Engineers (SAME) Seattle Post, Washington: Technobowl High School Engineering Competition

**Awards for Research and Service**

- 2015 Excellence in Academic Research, Department of Construction Management, College of Built Environments, University of Washington, June 12
- 2007 Faculty Excellence Award for Excellence in Service to the Department, Department of Construction Management, College of Architecture and Urban Planning
- 2006 Faculty Excellence Award for Excellence in Service to the Department, Department of Construction Management, College of Architecture and Urban Planning