

Curriculum Vita

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

John E. Schaufelberger Endowed Professorship in Construction Management

Associate Dean for Research

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Education

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| | Columbia University in the City of New York |
| May 2001 | Ph.D. in Civil Engineering, Graduate School of Arts and Sciences, Dissertation: <i>Value-Bidding: An integrative approach utilizing conjoint analysis and classical bidding theory</i> , 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

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| | 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

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| 2025-2026 | Consultant, CCI Engineering Services, OHIO BIM Standard Development |
| 2024 | Consultant, NBBJ Digital Leadership Academy |
| 2020-2023 | Consultant, Department of Energy, National Nuclear Security Administration's (DOE/NNSA) Office of Safety, Infrastructure and Operations (NA-50) |
| 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

- 2025 **Owner Readiness Assessment for Design-Build Projects**
Funded by: Charles Pankow Foundation
Role: PI
Budget: \$117,140
Award Dates: 1/1/2025 – 12/31/2025
- 2023-2024 **VDC Engineering Time Study**
Funded by: John R. Gentile Foundation (JRGF), the New Horizons Foundation (NHF) and ELECTRI INTERNATIONAL
Role: PI
Budget: \$145,000
Award Dates: 7/1/2023 - 6/30/2025
- 2023-2025 **Digital Twin – proof of technology evaluation on the I-90 Homer Hadley floating bridge**
Funded by: Federal Highway Administration, Challenge Seattle, the Washington State Department of Transportation, T-Mobile, Microsoft, Bentley Systems, and WSP USA
Role: Senior Personnel
Budget: \$50,000
Award Dates: 10/1/2023 – 4/30/2025
- 2023-2024 **DecarbCityTwin: A Platform for Equitable Decarbonization of the Built Environment**
Funded by: Population Health, University of Washington
Role: Senior Personnel
Budget: \$10,000 + \$50,000
Award Dates: 6/20/2023 – 9/18/2023 + 1/1/2024 – 12/31/2024
- 2023 **Energy, Information, and the New Work of Building Operations in the Digital Age**
Funded by: Campus Sustainability Fund, UW
Role: Advisor (Ph.D. Candidate Dan Dimitrov PI)
Budget: \$ 19,833.
Award Dates: 6/15/2023 – 9/15/2023
- 2020-2022 **Core BIM, Part II, National BIM Standard**
Funded by: National Institute of Building Sciences

- Role: PI
 Budget: \$40,000
 Award Dates: 10/1/2022 – 9/30/2023
- 2022-2023 **Innovation Tool for Owners**
 Funded by: Charles Pankow Foundation
 Role: PI
 Budget: \$101,672
 Award Dates: 02/1/2022 – 1/31/2023
- 2020-2022 **Core BIM, National BIM Standard**
 Funded by: National Institute of Building Sciences
 Role: PI
 Budget: \$57,000
 Award Dates: 07/1/2020 – 6/30/2022
- 2019-2020 **Intelligent Building Index**
 Funded by: International Intelligent Building Organization (IIBO)
 Role: PI University of Washington Subaward
 Budget: \$60,000
 Award Dates: 09/1/2019 – 4/30/2020
- 2019-2022 **SaTC: CORE: Medium: Knowledge Work and Coordination to Improve O&M and IT Collaboration to Keep Our Buildings Smart AND Secure : #1932769**
 Funded by: National Science Foundation
 Role: Co-PI
 Budget: \$721,104 + \$16,000 supplement
 Award Dates: 08/21/2019 – 08/20/2022
- 2019-2024 **Dog Aging Project**
 Funded by: National Institute of Health
 Role: Advisor, Subaward
 Budget: UW Subaward \$ 36,765
 Award Dates: 1/4/2019 – 1/4/2024
- 2018-2020 **Port of Seattle: Development of BIM Processes and Standards**
 Funded by: Port of Seattle
 Role: UW-PI, Subcontract to CCI Engineering Services
 Budget: \$400,000 (UW Subcontract \$100,000)
 Award Dates: 1/12/2018 - 1/12/2020
- 2018-2020 **Digital Fabrication for Concrete Formwork**
 Funded by: ARC: Turner Construction
 Role: PI
 Budget: \$60,000 + Internship
 Award Dates: 1/1/2018 - 12/31/2020
- 2017-2019 **General Services Administration Learning from our Legacy**
 Funded by: General Services Administration
 Role: Co-PI

Budget: \$107,482 (Year 1), 126,771 (Year 2)
Award Dates: 9/30/2017 - 11/31/2019

- 2017 **Digital Fabrication for Concrete Formwork**
Funded by: ARC: Turner Construction
Role: PI
Budget: \$8000 + Internship
Award Dates: 6/1/2017 - 12/31/2017
- 2016-2017 **Integrated Design Principles & Collaborative Practices Guidance**
Funded by: General Services Administration
Role: UW-PI (Subcontract to University of Minnesota)
Budget: \$175,000 (UW \$110,950)
Award Dates: 9/28/2016 - 12/31/2017
- 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
- 2016-2018 **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
- 2016 **Virtual Reality for Facilities Management Training**
Funded by: ARC: Mortenson Construction Company
Role: PI
Budget: \$8000 + \$1600
Award Dates: 6/1/2016 - 12/31/2016
- 2015-2016 **Building Information Model (BIM) Data Extraction**
Funded by: US Army Engineering 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 21st 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

2024 Best Extended Abstract, Engineering Project Organizations Conference, for an extended abstract by Daniel Dimitrov and Carrie Sturts Dossick, “Energy, Information, and the New Work of Building Operations in the Digital Age” Engineering Project Organization Conference, June 11-14, 2024 – Bar Harbor, Maine, USA

2019 Pathfinder Award, Engineering Project Organization Society

2017 Best Paper Award, Engineering Project Organizations Conference, for a paper by Dossick, Carrie Sturts; Laura Osburn; Bitu Astaneh Asl, (2017), “Measuring Shared Understanding: Developing Research Methods for Empirical Research on Interdisciplinary Engineering Team Practices”, Stanford Sierra Camp, CA June 5-7.

2016 Institute Honor Award, National BIM Guide for Owners Committee, National Institute of Building Sciences, Washington DC, January 11

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 50th 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

Borhani, Alireza, Atieh Borhani, Carrie Sturts Dossick, and Julie Jupp (2024) “An Ontological Analysis for Comparison of the Concepts of Sustainable Building and Intelligent Building.” Journal of Construction Engineering and Management, Vol. 150, No. 4 (April 1, 2024): 04024014. <https://doi.org/10.1061/JCEMD4.COENG-13711>.

Yuqing Hu & Carrie S. Dossick (2024) Decoding the dynamics of BIM use practice in construction projects, Construction Management and Economics, Vol. 42, No. 4, DOI: 10.1080/01446193.2023.2277925

Dossick C, Snider M, Osburn L (2023). Operations, IT, and construction time orientations and the challenges of implementing IOT, ITcon Vol. 28, Special issue The future of construction in the context of digital transformation (CONVR 2022), pg. 585-596, DOI: 10.36680/j.itcon.2023.031

Astaneh Asl, Bitu, Wendy Nora Rummerfield, and Carrie Sturts Dossick,(2023) "Effects of Virtual Reality on Complex Building System Recall" *Virtual Worlds* 2(3): 203-217.
<https://doi.org/10.3390/virtualworlds2030012>

Astaneh Asl, Bitu, and Carrie Sturts Dossick, (2022) "Immersive VR versus BIM for AEC Team Collaboration in Remote 3D Coordination Processes" *Buildings*, 2022, 12(10) 1548,
 DOI: 10.3390/buildings12101548

Masoud Gheisari, Burçin Becerik-Gerber, and Carrie Sturts Dossick, (2022) "Emerging learning technologies for future of work and education in engineering", *Advanced Engineering Informatics*, 2022, 101775, ISSN 1474-0346, <https://doi.org/10.1016/j.aei.2022.101775>

Recart, Carolina, and Carrie Sturts Dossick. (2022) "Hygrothermal behavior of post-retrofit housing: a review of the impacts of the energy efficiency upgrade strategies." *Energy and Buildings* (2022): 112001.

Homayouni, Hoda, Carrie Sturts Dossick, and Gina Neff. (2021) "Three Pathways to Highly Energy Efficient Buildings: Assessing Combinations of Teaming and Technology." *Journal of Management in Engineering* Vol. 37, No. 2 (March 2021): 04020110. [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000883](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000883) Open access: <https://ora.ox.ac.uk/objects/uuid:b26b4418-9706-45ce-8256-8031bc76a3aa>

Anderson, Anne, Carrie Sturts Dossick, and Laura Osburn (2020) "Curriculum to Prepare AEC Students for BIM-Enabled Globally Distributed Projects", *International Journal of Construction Education and Research*, Vol. 16, No. 4. DOI: 10.1080/15578771.2019.1654569

Abdirad, Hamid, Carrie S. Dossick, Brian R. Johnson & Giovanni Migliaccio (2020) Disruptive information exchange requirements in construction projects: perception and response patterns, *Building Research & Information*, DOI: 10.1080/09613218.2020.1750939

Abdirad, Hamid, and Carrie Sturts Dossick, (2020) "Rebaselining Asset Data for Existing Facilities and Infrastructure", *Journal of Computing in Civil Engineering*, January, 34:1.

Chan, Paul, Carrie Dossick, Miriam Hacker, Timo Hartmann, Amy Javernick-Will, Ashwin Mahalingam, and Vedran Zerjav (2020) "Journal Reviews and Revisions: Advice from an Early Career Panel Discussion" *The Engineering Project Organization Journal*, January, Vol. 9.

Abdirad, Hamid, and Carrie S. Dossick, (2019) "Normative and descriptive models for COBie implementation: discrepancies and limitations", *Engineering, Construction and Architectural Management*, <https://doi.org/10.1108/ECAM-10-2018-0443>

Dossick, Carrie, Laura Osburn, and Gina Neff, (2019) "Innovation through practice: The messy work of making technology useful for architecture, engineering and construction teams", *Engineering, Construction and Architectural Management*, <https://doi.org/10.1108/ECAM-12-2017-0272>

Abdirad, Hamid, and Carrie S. Dossick. (2019) "Restructuration of architectural practice in integrated project delivery (IPD): two case studies." *Engineering, Construction and Architectural Management* 26, no. 1: 104-117.

Anderson, Anne, Carrie Sturts Dossick, Josh Iorio, and John E. Taylor, (2017) "The impact of avatars, social norms and copresence in the collaboration effectiveness of AEC virtual teams", *ITcon*, 22: 287-304, <http://www.icon.org/2017/15>

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.

Kang, Shih-Chung, and Carrie Sturts Dossick (2015) "Smart education method, technology and environment." *International Journal of Automation and Smart Technology* 5.3: 113-114.

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.

Comu, Semra; 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 too 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, 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, Amlan Mukherjee, Eddy M. Rojas, and Corey Tebo (2010) "Developing Construction Management Events in Situational Simulations" *Computer-Aided Civil and Infrastructure Engineering*, 25: 205-217.
- 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 Proceedings and Presented Papers (2009- Present)

- Dossick, Carrie Sturts, and Orgil Borjigin, (2025), Extended Abstract: Cybersecurity as an Organizational Problem, Engineering Project Organization Conference, Chennai, India, July 15-18
- Borjigin, Orgil, Timothy Bernard, Carrie Sturts Dossick, Amos Darko, Bart Treece, Travis Thornstad, and Michael Motley, (2025) Challenges in Developing Digital Twin Systems: Insights from a Case Study, CIB World Building Congress, Purdue University, IN, May 18-23
- Astaneh Asl, Bitu, and Carrie Dossick, (2025) Record Modeling Specification and Process Considerations, 2025 ASCE International Conference on Computing in Civil Engineering, New Orleans, LA, May 11-14, DOI: [10.1061/9780784486436.082](https://doi.org/10.1061/9780784486436.082)
- Borjigin, Orgil, Carrie Dossick, and Bart Treece, (2024) Cybersecurity in Construction: A Digital Twin Case Study for Industry 4.0 Integration, World Bridge Engineering Conference, Miami FL December 11-13

Borjigin, Orgil, Lingzi Wu, and Carrie S Dossick, (2024) Virtual Design and Construction Time Study Schema Development, 2024 ASCE International Conference on Computing in Civil Engineering, Pittsburgh, PA, July 28-31

Lucky Pratama and Carrie Sturts Dossick, (2024) Investigating the Use of VR Visualization to Help Students Gaining Understanding on Pull Planning, 60th Annual ASC International Conference, April 3-5, Auburn, AL

Daniel S. Dimitrov, and Carrie Sturts Dossick, (2023) Energy, Information, and the New Work of Building Operations in the Digital Age, Presented in the Engineering Project Organization Conference, Berlin, Germany, June 20-23

Daniel S. Dimitrov, Laura Osburn, Lingzi Wu, Xianxiang Zhao, Renee Cheng, and Carrie Sturts Dossick, (2023) Assessment of Owner Organization's Impact on Project Success, Presented in the Engineering Project Organization Society Conference, Berlin, Germany, June 20-23

Bitu Astaneh Asl, Andrea Huynh and Carrie Dossick, (2023) "Immersive VR versus BIM Platform Features for Effective AEC Team Collaboration" In ASCE International Conference on Computing in Civil Engineering, Corvallis, Oregon, June 25-28

Recart, Carolina, Carrie Sturts Dossick and Tomas Mendez Echenagucia, (2023) "Impacts of air cavities on hygrothermal performance of retrofitted timber frame assemblies in six US climates" In ASCE International Conference on Computing in Civil Engineering, Corvallis, Oregon, June 25-28

Dossick, Carrie Sturts, Madison Snider, and Laura Osburn. (2022) "Operations, IT, and Construction Time Orientations and the Challenges of Implementing IOT." In *22nd International Conference on Construction Applications of Virtual Reality (CONVR2022)*. Seoul, South Korea, November 15-18.

Alireza Borhani and Carrie Sturts Dossick (2022) "Smart Building Conceptualization: A Comparative Analysis Of Literature And Standards", CI&CRC Joint Conference, Arlington, Virginia, March 9-12

Pratama L., Fardhosseini S., Dossick C., Habibnezhad M., Jebelli H. and Lee H. (2020). "BIM-GIS implementation for rebuilding after disaster: a critical evaluation" In: Proc. 37th CIB W78 Information Technology for Construction Conference (CIB W78), August, São Paulo, Brazil, pp. 112-120. DOI: <http://dx.doi.org/10.46421/2706-6568.37.2020.paper009>

Borhani, Alireza, and Carrie Sturts Dossick, (2020) "Data Requirements for BIM-based Asset Management from Owners' Perspective", Construction Research Congress, Tempe, AZ March 8-10

Recart, Carolina, Amy Kim, and Carrie Sturts Dossick, (2020) "Measurements and Verification (M&V) Guidelines for Weatherization Plus Health Program", Construction Research Congress, Tempe, AZ March 8-10

Fardhosseini, Mohammad Sadra, Ali Karji, Carrie Sturts Dossick, Hyun Woo Lee, Houtan Jebelli, and Sean Beatty (2020) "The Cost-Effectiveness of Integrating Digital Fabrication for Concrete Formworks", Construction Research Congress, Tempe, AZ March 8-10

Pratama, Lucky, and Carrie Sturts Dossick, (2020) "A Critical Review of Visual Aid Implementation in Lean Construction Scheduling Process", Construction Research Congress, Tempe, AZ March 8-10

Astaneh Asl, Bitu and Carrie Sturts Dossick, (2019) "How Could Virtual Reality Facilitate AEC Team Collaboration?" Working Paper Proceedings, 17th Engineering Project Organization Conference, Vail, Colorado, USA, June 25-27

Osburn, Laura, Gina Neff, Carrie Sturts Dossick, Chris Monson, and Heather Burpee (2019) "Narrative Infrastructure In Decision-Making: How Teams Use Stories And Sensemaking For Strategy" Working Paper Proceedings, 17th Engineering Project Organization Conference, Vail, Colorado, USA, June 25-27

Fardhosseini, M. S., Abdirad, H., Dossick, C., Lee, H. W., DiFuria, R., & Lohr, J. (2019). Automating the Digital Fabrication of Concrete Formwork in Building Projects: Workflow and Case Example. In *Computing in Civil Engineering 2019: Data, Sensing, and Analytics* (pp. 360-367). Reston, VA: American Society of Civil Engineers.

Pratama, Lucky Agung, and Carrie Sturts Dossick. (2019) "Workflow in Virtual Reality Tool Development for AEC Industry." In *Advances in Informatics and Computing in Civil and Construction Engineering*, pp. 297-306. Springer, Cham.

Anderson, Anne and Carrie Sturts Dossick, (2018), "Impact of project integration on Implementation of Model-Based Estimating" 13th BIM Academic Symposium, Las Vegas, Nov. 11.

Borhani, Alireza, Carrie Sturts Dossick, Christopher Meek, Devin Kleiner, and John Haymaker (2019). "Adopting Parametric Construction Analysis in Integrated Design Teams." In *Advances in Informatics and Computing in Civil and Construction Engineering*, pp. 351-358. Springer, Cham.

Zhu, Wenqi, Hyun Woo Kim, and Carrie Sturts Dossick, (2018) "Impact of Project Integration on Implementation of Model-Based Estimating", Construction Research Congress, New Orleans, Louisiana, April 2-4, 2018

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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.

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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.

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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 12th International Conference on Computing in Civil and Building Engineering*, Beijing, China October 16-18.

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Technical Research Reports

Daniel Dimitrov (2024) The New Work of Building Operations in the Digital Age: The Impact of IoT on Facility Management and Operational Practices, Report 1 of 2: Organizational Shifts to Practice UW Campus Sustainability Fund, <https://cerc.be.uw.edu/wp-content/uploads/sites/18/2024/08/UW-FM-White-Paper-Org-Final-Draft-8.29.pdf>

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Jessica Beyer, Laura Osburn, Caitlin Quirk, Sarah Jacob, Emma Lii, Madison Snider, and Carrie Sturts Dossick (2023) "IoT Data Privacy: Managing and Anticipating Data Privacy in the Built Environment"
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Laura Osburn, Madison Snider, Jessica Beyer, Carrie Sturts Dossick, and Chuck Benson (2023) "IoT Cybersecurity in the Built Environment", Produced for the NSF #1932769 SaTC:CORE project March 7. <https://cyber.be.uw.edu/2023/03/07/industry-report-iot-cybersecurity-in-the-built-environment/>.

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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

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

Borhani, Alireza, and Carrie Sturts Dossick. "State of the Art of Digital Twins for Built Environments," September 23, 2024, 1–36. <https://doi.org/10.1061/9780784485606.ch1>.

Editors Carrie Sturts Dossick and Lauren Ray, *Innovation in the Construction Industry: Case Studies by Students CM515: Virtual Construction Management* (Spring 2024), UW Pressbooks, Open Educational Resources collection, University of Washington

Osburn, Laura, Madison Snider, and Carrie Sturts Dossick, (2024) "Doing Online Ethnography: Reflections on methods and challenges in hybrid environments" in *Embracing Ethnography: Doing contextualized construction research*, eds. David Oswald and Léon olde Scholtenhuis, DOI: [10.1201/9781003379584-19](https://doi.org/10.1201/9781003379584-19)

Borys, AnnMarie and Carrie Sturts Dossick, (2023) "Chapter 15. Integrated Studio: Trade-offs as a Mechanism for Collaboration" in *Interdisciplinary Design Thinking in Architecture Education*, Ed.

Julie Ju-Youn Kim, Routledge, November 2023, ISBN 978103228324, [DOI: 10.4324/9781003296355](https://doi.org/10.4324/9781003296355)

Abdirad, Hamid and Carrie Sturts Dossick, (2021) "Chapter 2. BIM Technologies, Tools, and Skills" In *BIM Teaching and Learning Handbook: Implementation for Students and Educators*, eds. M. Reza Hosseini, Farzad Khosrowshahi, Ajibade Aibinu, and Stpehr Abrishami, August, ISBN: 9780367855192, DOI: 10.1201/9780367855192-4

Taylor, John E., Pauli Alin, Anne Anderson, Semra Comu, Carrie Sturts Dossick, Timo Hartmann, Josh Iorio, Ashwin Mahalingam, and Neda Mohammadi, (2018) "Chapter 10: CyberGRID: A Virtual Workspace for Architecture, Engineering, and Construction" in *Transforming Engineering Education*, Eds. Ivan Mutis, Renata Fruchter, and Carol Menassa, ASCE, DOI: 10.1061/9780784414866

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

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

2015 - 2024 CERC/Skanska BIM Certificate, co-instructor and capstone lead, Fall and Spring

2008 3-Day International Symposium on Building Information Modeling, Yonsei University, Seoul, Korea, May 26-28

Lectures and Invited Talks (2009 - Present)

2026 I-90 Homer Hadley Digital Twin Project Briefing, AGC Seattle District Breakfast Presentation, Seattle, March 10

Engineering and Ethnography: Bringing Social Science Methods to Engineering, CM Research Seminar, University of Washington, Seattle, February 4

2025 **Practitioners' forum: Owner Readiness Assessment for Design Build: *Ongoing Research*,** Design Build Conference and Expo, Las Vegas, November 5

Keynote: Engineering and Ethnography: Bringing Social Science Methods to Engineering, Engineering Project Organization Conference, Chennai, India, July 17

Panel Member, Managing Complex Structures with Digital Twins, TRB Conference on Data and AI for Transportation Advancement, Seattle, WA, May 28

National BIM Standard -U.S. V4, Airport Consultants Council (ACC) BIM Subcommittee, April 22

Lifejackets Not Required: How the BOAT Can Improve Your Project Delivery Experience, COAA Webinar, March 12

Keynote: VDC Time Study, 2025 MEP Innovation Conference, MCAA, NECA, SMACNA, Los Angeles, CA, January 30

Fireside Chat with Deputy Chief Executive Officer Terri Mestas, Dr. Dossick's Career and Research, Capital Delivery Department Women's Lunch, Sound Transit, January 16

2024 **Building Cybersecurity Resilience in Public Agencies,** NIBS Digital Twin 2024, December 10

Define Your Project Delivery Strategy with Building Owner's Assessment Tool, AIAU Live Course, October 30

Digital Twins and the Metaverse, Panel discussion, IEEE International Symposium on Emerging Metaverse, Bellevue, WA Oct 21, <https://iee-isemv.org/program/invited-panels/>

Building Cybersecurity Resilience in Public Agencies, Cyber-Care Annual Symposium, University of Houston, October 18

Keynote, Digital Transformation Model: Negotiated Innovation, 2024 Tech Summit, SoundTransit, Oct 16

Case Study: I-90 Digital Twins Project with Bart Treece and Travis Thonstad, National Council of State Legislators "Wireless U" Tour and Presentation, September 25

Making the Design-Build Decision: The Owners Readiness Assessment, Presentation and Panel Discussion with Greg Gidez, Laura Stagner, and Markku Allison, Federal Design Build Symposium, Aug 20-21

- Podcast, Making the Building Owner Assessment Tool Part I and Part II, National Academies of Construction, Aired July and August**
- Panelist, BIM Standards and Guidelines for Integrated Building Design and Construction, ASHRAE Conference for Integrated Design, Construction, and Operations, June 25**
- Negotiating Innovation: Developing an integrated theory of digital transformation, 11th International Workshop - WHEN SOCIAL SCIENCE MEETS LEAN AND DIGITAL TECHNOLOGIES – SYMBIOSIS: Humanizing the digital lean, June 19**
- Panelist, Barriers to Adoption panel – cyber, data, workforce, Digital Twins in the Built Environment, A Virtual Symposium, National Academies, June 12**
- Panelist, The Long Journey of Making Models as Contract Documents a Reality, National Institute of Building Sciences, Building Innovation Conference, May 23**
- 2023 Negotiating Innovation: Teams, Technologies, and How Industries Change, The Durham School Distinguished Lecture Series, December 8**
- Workshop A: The Building Owner’s Assessment Tool: Understanding Your Decision-Making Culture & Project Delivery Ramifications, Advancing Integrated Project Delivery Conference, December 4, Dallas, Texas**
- Freakonomics Radio episode 566, Why Is It So Hard (and Expensive) to Build Anything in America? November 22, <https://www.npr.org/podcasts/452538045/freakonomics-radio>**
- Making New Technology Work: Construction Innovation Through Applied Research and Education, Trimble Dimensions user Conference, November 7**
- Technology Across the Built Environments Curriculum, Academic Interoperability Council meeting, May 9**
- 2022 BIM, Cybersecurity and MEP Coordination, MCA, NECA, SMACNA Joint Workshop, Seattle, WA November 2**
- Teams and Tech: Setting up teams for success, openBIM USA, Annual Open Standards Conference, Los Angeles, CA, June 16**
- Panel presentation, Workshop: Collaborative Digital Delivery in the Age of Information Privacy and Cybersecurity, National Institute of Building Sciences, June 7**
- Panel discussion, Closing Plenary: Digital Futures in the City, 2022 PhD Symposium – Pathways toward the future: Assessing the digital dimensions of urban dynamics, May 20**
- 2021 AEC Collaboration in Project-based Education, Panel on Interdisciplinary Education Theme, NSF-Funded Virtual Workshop on Next Generation Learning-Centered Environment for Architecture, Engineering, and Construction (AEC), Online, November 15 to 17**

- Panel presentation, Research Publication Ethics: Plagiarism, Authorship Fraud, Fake Conferences, and Predatory Journals**, ASCE CRC Online Event, May 27, 2021
- Elusive History of BIM**, Panel Chair, Eastman Symposium, Online, May 13
- 2020 **NBIMS Roadmap**, Building Innovation Virtual Edition, National Institute of Building Sciences, Online, August 19
- 2019 **Improving O&M and IT Collaboration to Keep our Buildings Smart and Secure**, Digital Innovation Summit, BIM Expo Hannover, Germany, September 3
- Digitization in US Architecture, Engineering, and Construction – Status of Implementation**, BIM Expo Hannover, Germany, September 4-5
- 2018 **How to Utilize the Suite of National BIM Standards to Improve Project Delivery**, Autodesk University, November 12-15, Copresented with Johnny Fortune and Paul Audsley
- Collaboration: The Messy Work of Making Technology Useful for Architecture, Engineering and Construction Firms and Team**, NBBJ Week, July 24
- National BIM Standard: What's Now? What's Next**, AEC Next Technology Expo + Conference, June 5-7 Copresented with Johnny Fortune and John Messner
- Panelist, Alternative Project Delivery and the Role of the Architect**, AIA Seattle Committee on Architecture for Education, April 23
- Keynote, Innovation Through Practice: The Messy Work of Making Technology Useful for Architecture, Engineering and Construction Firms and Teams**, Annual Research Conference, Center for Education and Research Construction, University of Washington, March 15
- What is BIM and Why Should Construction Lawyers Care About it?**, Construction Law Section Annual Dinner, Washington State Bar Association, March 1
- 2017 **Keynote, Innovation Through Practice: The Messy Work of Making Technology Useful for Architecture, Engineering and Construction Firms and Teams**, 2017 International Conference on Innovative Production and Construction, Curtin University, Perth Australia, Nov 30
- Getting it right: Collaborative Preconstruction BIM-enabled Estimating Workflows**, Autodesk University, Copresented with Dennis Yung and Catherine Rose, Nov. 14
- Keynote Panel: Views from the Edge**, BuildEx Calgary, Curated and hosted by Markku Allison and Bill Black, Calgary, Nov. 7th
- The Past and Future Practices in Construction**, Construction History on the Frontier, Seattle, July 20-22
- 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 **GSA High Performance Green Building Success Stories**, Creative Disruption, 81st Annual Convention & Exposition, AIA Minnesota, November 10-13
- 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, 99th 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

CM 515 Innovative Project Management Concepts
3 credits/20-30 students

Courses Taught in Previous Academic Years

ARCH 404/CM 404/CM 426/ CM512 Integrated AEC Studio
6 credits/12-16 students and 3 credit/12 students

BE550 Colloquium-Practicum on Research-Practice and Teaching-Learning
6 credits/10 students

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	Ori Borjigin
Active	Muhammad Abubakar Tariq
2025	Kirk Hochstatter Collaborative Project Governance and Shared Team Leadership Formation in Virtual BIM Teams
	Chris Monson Structuration and the Social Dynamics of AEC Integrated Project Teams in High Performance Energy Design
2024	Erin Kelly Horn Industrial Symbiosis for the Food-Water-Energy Nexus: Optimizing the Implementation of Circularity Frameworks and Aquaponic Systems
2024	Daniel Dimitrov

The New Work of Building Operations in the Digital Age: The Impact of IoT and Digital Twins on Facility Management and Operational Practices

- 2023 **Lucky Pratama**
Immersive Visualization Intervention on Pull Planning
- 2023 **Carolina Recart (Ph.D. CEE)**
Hygrothermal Performance of Energy Retrofits in Buildings: An Assessment of the Residential Building Stock in the U.S.
- 2022 **Ali Borhani**
IB Index: Developing a Standard Evaluation System for Intelligent Buildings
- 2022 **Mohammed Sadra Fardhosseini (Co-Chair with Chris Lee)**
A Quantitative Analysis about the Impact of Integrating Digital Technology for Formwork Fabrication on Human Factors
- 2020 **Hamid Abdirad**
Developing Digital Project Delivery Routines Around Frequent Disruptions: How Do AEC Organizations Respond to Disruptive Information Exchange Requirements?
- 2019 **Bitu Astaneh Asl (Ph.D. CEE)**
Effects of Using Virtual Reality on AEC Team Collaboration
- 2015 **Hoda Homayouni**
Building Information Modeling, Collaboration and Green
- 2015 **Anne Anderson**
Collaboration in Global Teams

Ph.D. Committee Member, Examiner, or Opponent

- 2026 **Kevin Muiruri**, University of Washington
- Salla Eckhardt**, Tampere University
- Toomaj Galandar**, Norwegian University of Science and Technology (NTNU)
- 2024 **Alexander Nikolas Walzer**, ETH Zurich (Co-Examiner)
- Bjorn Arild Godager**, Norwegian University of Science and Technology (Opponent)
- 2019 **Barbara Rodriguez Droguett**, University of Washington
- 2018 **Marcella Bonanomi**, Politecnico di Milano, Italy + U. of British Columbia, Canada
- 2017 **Jun Wang**, Curtin University, Australia
- 2017 **Daniel Hall**, Sanford University

2016	Julieta Matos Castano , University of Twente, Netherlands
2015	Manisa Veeravigrom , UW Dept of Civil Engineering Green Roads
2014	Christoph Merschbrock , University of Adgar, Norway (Opponent)
2012	Semra Comu , Virginia Tech Collaboration in Global Virtual Teams
2012	Jeralee Anderson , UW Dept of Civil Engineering, GSR Green Roads
2011	JeongWook Son Simulation & Productivity
2009	NamHun Lee Construction Visualization

M.S. Thesis Committee Chair

Fall 2024	Monica Dawson When Hatch-Marks Miss the Mark: Incorporating Finishes into BIM
Spring 2024	Anik Das The BIM in Practice in the Real World
Spring 2024	Andrew Steele Developing a Cost Framework for Smart Building Adoption
Spring 2024	Ivy Trisha Singh Digital Twin for Energy Management in Residential Net Zero Energy Buildings
Spring 2018	Siqi Lu Understanding Owner Information Need for Facility Management Asset Data in a Large Education Institute
Winter 2018	Raj Parikh Psychological Flow in BIM Tasks in Construction
Winter 2017	Achaiah Ramesh Malachira Six key components of Collaboration in Higher Education buildings: a case study of Stakeholder Engagement at the University of Washington
Winter 2017	Nishant Bordia Role of Technological Leadership in Supporting Collaboration and Communication in Globally Distributed Virtual Teams
Winter 2017	Devarshi Patel Virtual Reality as a Training Tool for Building Operations

- Fall
2016 **Eric Opincar**
Assessing the Technology Used by UAVs in Collecting Data and Their Limitations on Construction Sites
- Spring
2016 **Mihir Bharmal**
Asset and Inventory Management at Sound Transit
- Fall
2015 **Alireza Borhani**
Building User Audit Procedure
- Summer
2015 **Lokesh Masania**
Dichotomy Between 2D and 3D Data for Facilities Management
- Spring
2015 **Lucky Agung Pratama**
Immersive Virtual Reality Prototype for Evaluating 4D CAD Model
- Spring
2015 **Bitu Astanah Asl**
Value Proposition of COBie at the University of Washington
- Summer
2014 **Andrew Hansen**
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**
- Summer 2023 **Meghana Emani**
Scratching the Surface of Digital Technology Development, Implementation and Change Management in the AECFM Industry
- Fall 2017 **Adityakumar Patel**
Point Clouds as New Face in Construction Progress Tracking and Construction Defect Management
- 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 **Maria Llobett**
Building and BIM in the AEC Industry
- Spring
2009 **Sai Neeraj Kumar**
Case Studies for Material Life Cycle Analysis
- Fall
2008 **Maizer Oujdani**
Project: Construction Event Case Studies
- Brad Hottle**
Project: Implementing BIM as a Contractor
- Spring
2007 **James Shaiman**
Project: 3D and BIM Models for Skanska Construction
- Winter
2007 **Peter Avratin**
Project: Pacific Northwest Center for Construction Research and Education Methods and Materials Lab
- Fall **Jos van Boxtel**

2006 Masters US-Netherlands Exchange Project

Spring
2006 **Jos Appelhof and Koen Kerstens**
Masters US-Netherlands Exchange Project

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

Winter
2026 **Liya Sunny Anthraper**

Spring
2021 **John Blumhorst**
Benefits and Barriers of Off-Site Construction in Hospital Projects

Spring
2020 **Sam Murphy**
The Implementation and Development of 3D Concrete Printing on On-Site Applications in Construction

Fall
2017 **Wenqi Zhu**
Investigating Factors that Influence the Implementation of Model-based Estimation

Winter
2011 **Brian Fabella**
Landscape Architecture Thesis: material fluxus: Dialog and Materials in the Built Environment

Summer
2010 **Matt Quijano**
Building Information Modeling and COBIE for Existing Buildings

Summer
2008 **Simon Wan**
Thesis: Sustainable Waste Management in Construction

Summer
2008 **Michael O'Beirne**
Project: Comparison of Military and Civilian Contracting

Summer
2007 **Brian Wiersema**
Thesis: Virtual Reality for Visualization in the Design and Construction Industry

Spring
2007 **Michael Wright**
Thesis: Cultural Influences On International Construction Project Teams

Spring
2007 **Eugene Pike**
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

- 2019 – Present Associate Dean for Research, College of Built Environments
- 2022 - 2024 Member, Diversity Council, College of Built Environments
- 2025 Member, CM Task Force for an Executive Master's program
- 2024 - Present Member, Construction Management Graduate Curriculum Committee
- 2007 – 2024 Member, Construction Management Undergraduate Curriculum Committee
-
- Spring 2020 Writing Team member, College of Built Environments Strategic Planning
- 2019 – 2020 Facilitation Team member, College of Built Environments Strategic Planning
- 2010 – 2018 Executive Director, Center for Education and Research in Construction
- 2010 – 2018 Chair, CERC New Frontiers Conference
- 2007 – 2018 CM Department: Dual Degree Curriculum and Advising
- 2011 – 2014 Steering Committee member, College-wide Ph.D. in the Built Environment
- 2007 – 2009 Committee member and faculty advocate, College-wide materials library
-
- 2018 Director, Applied Research Consortia
-
- 2017 Chair, Prof. Ahmed Abdel Aziz's Promotion Committee, Department of Construction Management
-
- 2016 Chair, Non-Merit Review Committee, Department of Construction Management
Chair, Prof. Yong Kim's Promotion Committee, Department of Construction Management
-
- 2015 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 Chair, Ad-hoc CBE Digital Curriculum Committee
-
- 2013 Committee member, CBE Dean's Search Committee
15x15 presentation in College-wide Fall Orientation
-
- 2012 RRF Grant Reviewer
15x15 presentation in College-wide Fall Orientation
Committee member, CBE Strategic Planning Committee
Committee member, Dean's 5-year Review Committee
-
- 2011 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
- 2010 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, Faculty 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 Faculty Candidate Search
- 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
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
- 2007 Search 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
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
- 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

buildingSMART Alliance, National Institute of Building Sciences

2026 Member, NBIMS Workgroup, NIBS Digital Technology Council
 2020-2024 Vice Chair, National BIM Standard Planning Committee, Liaison Core BIM Working Group
 2018 – 2020 Chair, National BIM Standard Planning Committee
 2017 – 2018 Chair, Education Subcommittee
 2015 – 2017 Committee member, National Institute of Building Science BIM for Owners Guide
 2011 - 2012 Planning and Technical subcommittee member, *National BIM Standard*

Journal of Construction Management and Economics

2020 - 2024 Associate Editor

Engineering Project Organizations Society

2024, 2026 Member, EPOC Awards Committee
 2025 Chair, EPOC 2025 Awards Committee
 2017 – 2023 EPOJ Associate Editor
 2010 – 2017 EPOJ Editorial Board member

Other service

2026 Panelist, NSF CMMI Division
 2024 Panelist, Faculty Success Workshop, Construction Research Congress, March 20, 2024, Des Moines, IA
 2023 Book proposal review, Elsevier
 2021 Committee member, Peer Review Proposed Master of Project Management (MPM) and Master of Applied Science in Project Management in the Built Environment (MASc) Program in Department of Architectural Science (DAS) at Ryerson University
 2020- Present Member, Project Management Improvement Team, U.S. Department of Energy National Nuclear Security Administration's Office of Safety, Infrastructure, and Operations (NA-50)
 2011 – 2023 Journal Paper Reviewer, *Engineering Project Organization Journal*
 2007 – 2025 Journal Paper Reviewer, *Journal of Construction Engineering and Management*
 2008 – 2020 Journal Paper Reviewer, *Journal of Professional Issues in Engineering Education and Practice*
 2007 – 2024 Journal Paper Reviewer, *Automation in Construction*
 2017 – 2025 Journal Paper Reviewer, *Journal of Construction Management and Economics*
 2017 – 2023 Journal Paper Reviewer, *Canadian Journal of Civil Engineering*
 2016 – 2023 Journal Paper Reviewer, *Engineering, Construction and Architectural Management*
 2023 – 2024 Junior scholar mentor, Sreelakshmi S IIT Madras and Stephanie Bunt, University of New Mexico
 2021 External Reviewer, Promotion and Tenure Packages
 2015 – 2020 Member, US Army Corps of Engineers/Industry BIM and CIM Consortia
 2017 – 2020 Mentor, American Society of Civil Engineering, CRC Mentorship Program

- 2007 – 2019 Grant Proposal Reviewer, National Science Foundation
 2017 – 2019 Grant Proposal Reviewer, Research Grants Council, Hong Kong
- 2018 Grant Reviewer, Nazarbayev University, Oak Ridge Associated Universities
- 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)
- 2016 Curriculum Advisory Board Member, Vietnam VDC Education Initiative
 Conference Chair, Engineering Project Organizations Conference
- 2015 External Reviewer, Ph.D. Thesis proposal, Marc van den Berg, University of Twente, Netherlands
 Guest Editor, International Journal of Automation and Smart Technology, Special Issue Smart Education, Technology and Environment
 AIA TAP Innovation Award Jury Member
 Curriculum Advisory Board Member, Vietnam VDC Education Initiative
 Technical Chair, Engineering Project Organizations Conference
- 2014 Grant Reviewer, Nazarbayev University, Oak Ridge Associated Universities
 External Reviewer, Twente Graduate School Award, University of Twente
 External Opponent, Christoph Merschbrock Ph.D. Defense, University of Adgar, Kristiansand, Norway
 Conference Organizing Committee, Engineering Project Organizations Society
 Conference Organizing Committee, 11th International Conference on Cooperative Design Visualization and Engineering
- 2013 Grant Review, New Zealand Ministry of Business, Innovation, and Employment (MBIE)
- 2012 Advisor, HP Leadership Fund, Application by Coventry University, UK.
- 2011 Planning Committee member, *ALA-Seattle Workshop on Integrated Project Delivery, Dec. 2011*
- 2010 Journal Paper Reviewer, *Information, Communication and Society*
 Journal Paper Reviewer, *Journal of Information Technology in Construction*
- 2009 Conference Program Committee Member, Construction Research Congress
- 2008 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, 5th Edition
 Judge panelist, AGC Build Washington Awards
 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”

- Organizing Committee Member, Construction Research Congress
 Organizing Committee member and Field Trip Chair, Western Regional Younger Member Conference
 Academic Committee Member, Construction Industry Institute
- 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
 Planning committee member, AEC Hackathon
- 2014 Planning committee member, AEC Hackathon
- 2013 Hosted visit by Geert DeWulf, Dean, University of Twente
- 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
- 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