

Jeong H. Woo, Ph.D.

Department Head and Professor
Construction Management Department
California Polytechnic State University
Email: jwoo21@calpoly.edu

PO Box 2547
Avila Beach, CA 93424
Email: Jeonghan.woo@gmail.com
Cell: 414-659-0177

1. BIOGRAPHICAL INFORMATION

With a tenure of 18+ years as a professor, Dr. Woo stands out as a collaborative leader with a wealth of professional expertise and academic accomplishments in the built environment. Dr. Woo's leadership style is marked by creativity, support, and inspiration, rooted in an innovative mindset, servant leadership philosophy, and practical wisdom gained through experience. As a university administrator, Dr. Woo has a proven track record of successful fundraising efforts, garnering substantial support for various initiatives. Dr. Woo's collaborative leadership strategies have made a lasting impact, reflecting a combination of expertise, vision, and consistent commitment to excellence.

2. EDUCATION

Doctor of Philosophy in Architecture, August 2005

Texas A&M University, College Station, TX

Dissertation: Sharing Tacit Design Knowledge in a Distributed Design Environment

Master of Science in Construction Management, August 2000

Texas A&M University, College Station, TX

Bachelor of Engineering in Architectural Engineering, January 1996

Kyung Won University, South Korea

3. ADMINISTRATIVE LEADERSHIP AND ACADEMIC POSITIONS

Department Head and Professor, August 2019 – Present

Construction Management Department

California Polytechnic State University, San Luis Obispo, CA

Program Director of Construction Management, September 2014 – June 2019

Professor, September 2018 – June 2019

Associate Professor, September 2012 – August 2018

Civil and Architectural Engineering and Construction Management Department

Milwaukee School of Engineering, Milwaukee, WI

Assistant Professor, August 2007 – August 2012

Civil and Architectural Engineering and Construction Management Department

Milwaukee School of Engineering, Milwaukee, WI

Assistant Professor, August 2005 – June 2007

Department of Engineering Technology

Western Illinois University, Macomb, IL

4. LEADERSHIP EXPERIENCES AND ACCOMPLISHMENTS

Department Head for Construction Management, August 2019 - Present California Polytechnic State University, San Luis Obispo

a. Developed advancement strategies and secured private gifts in the following areas:

- Fundraising summary: Over the past four years, the CM department has received generous donations amounting to \$5.08 million, accounting for 50% of the total gift received by CAED. Such a substantial contribution has made a significant impact, demonstrating the department's invaluable importance and support within CAED.
- Facilities improvement and maintenance: Raised and invested over \$800K to improve the quality of CAED classrooms and labs; Established endowments for facility maintenance; Collaborated with Cal Poly Facilities, CAED faculty, and students to manage the design and construction of the following projects - De Mattei student lounge, CAED concrete lab renovation, CAED support lab concrete slab, and AV system upgrades in classrooms.
- Student Learn by Doing activities: Raised and invested over \$100K/year to support student competitions, increasing the national prominence of CAED; Raised and invested over \$80K/year to support senior projects and community service projects resulting in producing scholarly activities aligned with the Teacher-Scholar model; Established the "Parents Learn by Doing" fund to help students in financial hardship.
- Faculty Development: Increased the size of the CM Discretionary fund to invest more than \$80K/year to support faculty development activities by expanding the donor pool and awarding various grants from private foundations; Initiated CM 50th Anniversary campaign to establish the Faculty Innovations endowment.
- Diversity, Equity, and Inclusion initiatives: Established a fund for Women in Construction initiatives; Award more than \$100K of scholarships to CM students each year; Established new scholarship endowments to specifically support first-generation students, including Ryan Companies Scholarship, Mark Montoya Family Scholarship, and Alandt Family Scholarship.
- Curriculum development: Partnered with renewable energy companies to establish renewable energy initiatives at Cal Poly and build a robust talent pipeline to the renewable energy industries.

b. Increased the breadth of revenue streams:

- Increased the revenue of CCCE (California Center for Construction Education) from \$180K/year to \$500K/year to support student projects, faculty development, and recruiting events.
- Restructured CMAC (Construction Management Advisory Council) membership tiers to invite more industry partners from diverse backgrounds.
- Developed and offered professional programs through CCCE to provide CM faculty with consulting opportunities, including faculty boot camps, PPM (Project Production Management) workshops, PCRA/ICRA training, and workshops for Montalba Architects.
- Partnered with professional organizations to provide financial support for student clubs.
- Expanded alumni connections and nurtured stronger partnerships with alumni and industry partners.

c. Developed and implemented plans to further DEI:

- Developed CM's DEI Action Plan and kept track of its progress.
- Established scholarship endowments to support first-generation/low-income students.
- Initiated a student club called CASA (Community and Student Achievement) that helps first-generation Latinx students in CAED.
- Partnered with CMAC members to provide various leadership workshops for CASA students.
- Hired faculty with diverse backgrounds to develop vibrant and inclusive communities.
- Developed Girls Build Academy for high school female students.
- Invited small businesses, women-owned businesses, and minority-owned businesses to CMAC and recruiting events to offer a more diverse range of career opportunities.
- Invited LGBTQ industry organizations to connect their members with our students.
- Supported Women in Construction club students and advisors to attend the Groundbreaking Women in Construction Conference.
- Increased the number of female graduates from 7 (10.4%, 2016-17) to 39 (30.5%, 2021-22).
- Increased the number of URM graduates from 6 (9%, 2016-17) to 28 (21.9%, 2021-22).
- Increased the number of Hispanic graduates from 5 (7.5%, 2016-2017) to 27 (21.1%, 2021-22).

d. Developed and implemented Strategic Action Plans:

- Revised CM's strategic action plan to align it with Cal Poly's strategic priorities.
- Allocated resources and additional funding to support the strategic plan.
- Collaborated with faculty and staff to keep track of its progress and achievements.
- Reported annual accomplishments to Academic Programs and Planning.

e. Data-driven decision making: Leverage data/technology to support Cal Poly's mission:

- Improved 4-year graduation rate from 32.7% (Fall 2016 cohort) to 49.6% (Fall 2018 cohort) by identifying the courses with high DWF rates and providing financial support to hire additional student tutors.
- Provided mandatory advising sessions for Change of Major and NTR students to reduce achievement gaps.
- Improved the 6-year graduation rate of URM students from 66.7% (Fall 2013 cohort) to 80.8% (Fall 2016 cohort).

f. Strengthened alumni and industry relations:

- Served as the Executive Director of CMAC.
- Hosted two on-campus CMAC meetings each year.
- Organized alumni networking events, including golf outings, scholarship banquets, and award dinners.
- Hosted CM's 50th anniversary celebration events in 2022.
- Published CM magazine to promote the department's accomplishments and support fundraising efforts.
- Hosted alumni mixers at various locations to increase alumni engagement.
- Visited alumni, donors, and industry partners to explore future advancement opportunities.
- Attended various stewardship events to connect with business leaders and philanthropists.

g. Implement Interdisciplinary Education

- Launched the heavy civil minor program in collaboration with the Civil Engineering department in 2019.

- Implemented Cal Poly real estate student competition in collaboration with faculty from OCOB and CAED.
- Developed a proposal for CAED interdisciplinary electives.
- Coached interdisciplinary design-build competition teams.

h. Enhance the success of all students

- Fielded more than 24 student competition teams each year to provide students with the Learn by Doing experience in a professional setting.
- Developed and led the Skip the Grid project at the Navajo Nation with cross-departmental students and faculty.
- Provided funds for Learn by Doing activities – over \$150K/year for service learning projects, student competitions, and field trips.
- Received external grants to support extracurricular activities.
 - o CMEA Grant – Awarded over \$60K/year from the Contractors State License Board of California to support student professional development activities.
 - o CEA Grant – Awarded over \$40K/year from the Construction Employers' Association to support student competition activities.
 - o RELUI Grant – Awarded over \$15K/year from the Real Estate and Land Use Institute to support students pursuing careers in the real estate industries.

i. Curriculum Development

- Collaborated with various entities for the semester conversion initiatives.
- Led annual program assessment.
- Wrote and updated CM's ACCE self-study report.
- Organized and led an ACCE reaccreditation visit (Spring 2021), resulting in the 6-year reaccreditation with no weaknesses or concerns.

Program Director of Construction Management

Civil and Architectural Engineering and Construction Management Department

Milwaukee School of Engineering, Milwaukee, WI

- Managed the CM program budget.
- Managed course offerings in collaboration with the program directors of Civil Engineering and Architectural Engineering.
- Organized design-build senior project studios for all architectural engineering and construction management majors.
- Launched and organized various outreach and fundraising programs, including MSOE Future Builders, CAED Career Night, and CAECM Banquet.
- Created and updated CM program assessment plans.
- Prepared annual assessment reports.
- Prepared ACCE and ABET self-study reports.
- Developed and enhanced relationships with industry partners through company visits, site tours, and stewardship events.
- Chaired CAED Faculty Search Committee, 2018 – 2019.
- Chaired College Faculty Appointment and Renewal Committee, 2014 – 2015.
- Served on the Department Chair Search Committee, 2014.
- Served on the College Faculty Appointment and Renewal Committee, 2013 – 2014.
- Served as a Faculty Senator, 2012 – 2014.
- Served as a Faculty Advisor for various student clubs.

5. ADMINISTRATIVE LEADERSHIP DEVELOPMENT

- a. Architecture + Construction Alliance, 2019 – Present
- b. Plus Delta Academic and Cabinet Partnership Training, November 2020 – February 2021
- c. 24th Annual CSU Online Department Chairs Workshop, October 2020
- d. 23rd Annual CSU Department Chairs Workshop, Long Beach, October 2019
- e. ACCE Visiting Team Chair Training (Online), 2020
- f. ACCE Advanced Visiting Team Member Training, Philadelphia, 2019
- g. Program Directors Workshop, Milwaukee, 2014

6. SERVICE AND APPOINTMENTS

- a. Search Committee for Senior Vice President of Academic Affairs, 2023
- b. Board of Directors, ACE (Architecture, Construction, Engineering) Mentor Program, California Capitol, 2023 – Present.
- c. Search Committee for Vice President of Strategic Enrollment Management, 2022
- d. Institutional Department Chairs and Heads Steering Committee, 2019 - Present
- e. Dean's Leadership Council, 2019 – Present

7. TEACHING EXPERIENCES

a. Professor, August 2019 – Present

Construction Management Department

California Polytechnic State University, San Luis Obispo, CA

- Courses Taught:
 - CM 280 – Building Information Modeling
 - CM 421 – Emerging Trends
- Faculty Coach for ASC Student Competition Teams
 - 2023 Preconstruction National Open Competition – 1st Place
 - 2023 Project Management National Open Competition – 1st Place
 - 2023 Virtual Design and Construction National Open Competition – 2nd Place
 - 2022 Preconstruction National Open Competition – 1st Place
 - 2022 Project Management National Open Competition – Not placed
 - 2022 Virtual Design and Construction National Open Competition – 1st Place
 - 2021 Preconstruction National Open Competition – 2nd Place
 - 2021 Project Management National Open Competition – 1st Place
 - 2021 Virtual Design and Construction National Open Competition – 3rd Place
 - 2020 Preconstruction National Open Competition – 1st Place
 - 2020 Project Management National Open Competition – 1st Place
 - 2020 Virtual Design and Construction National Open Competition – Not placed
- Departmental Services:
 - Executive Director, Construction Management Advisory Council
 - Curriculum Committee
 - Faculty Search Committee
 - Mentorship Committee

b. Professor, September 2018 – June 2019

Civil and Architectural Engineering and Construction Management Department

Milwaukee School of Engineering, Milwaukee, WI

- Courses Taught:
 - AE 3311 - Intro to BIM II
 - CM 325 - Construction Estimating II
 - CM 3210 - Construction Scheduling
 - CM 4311 - Construction Project Management I
 - CM 4321 - Construction Project Management II
 - CM 4711 - Senior Design-Build Studio
 - MG 7050 - Construction Data and Information Management
- Coach, student competition teams
 - 2019 ASC Preconstruction National Open Competition – 2nd Place
- Departmental Services
 - Faculty Search Committee, Chair

c. Associate Professor, September 2012 - June 2018

Civil and Architectural Engineering and Construction Management Department
Milwaukee School of Engineering, Milwaukee, WI

- Courses Taught:
 - AE 3311 - Intro to BIM II
 - CM 325 - Construction Estimating II
 - CM 3210 - Construction Scheduling
 - CM 4311 - Construction Project Management I
 - CM 4321 - Construction Project Management II
 - CM 4711 - Senior Design-Build Studio
- Coach, student competition teams
 - 2018 DBIA National Competition – 2nd Place
 - 2018 ASC National Open VDC Competition – 2nd Place
 - 2017 ASC National Open Preconstruction Competition – 2nd Place
 - 2016 ASC National Open Health Care Competition – 1st Place
 - 2016 ASC Region 3 Commercial Competition – 2nd Place
 - 2015 ASC National Open Health Care Competition – 1st Place
 - 2014 ASC National Open Health Care Competition – 1st Place
 - 2014 ASC National Open VDC Competition – 1st Place
 - 2013 ASC National Open Preconstruction Competition – 1st Place
 - 2012 ASC National Open Preconstruction Competition – 1st Place
 - 2012 ASC National Open VDC Competition – 1st Place

d. Assistant Professor, August 2007 - August 2012

Civil and Architectural Engineering and Construction Management Department
Milwaukee School of Engineering, Milwaukee, WI

- Courses Taught:
 - AE 1312: Intro to BIM
 - AE 2211: Construction Methods
 - CM 224: Construction Estimating I
 - CM 225: Specifications and Contracts
- Coach, student competition teams

2011 ASC National Open Preconstruction Competition – 1st Place
2010 ASC National Open Preconstruction Competition – 1st Place

- Services:

Faculty Advisor
Computer Users Committee
Master of Science Program committee
CG Schmidt Classroom Planning Committee
Faculty Advisor for the AGC/AIC Student Chapter

e. Assistant Professor, August 2005 – June 2007

Department of Engineering Technology
Western Illinois University, Macomb, IL

- Courses Taught:

CSTM 232: Construction Systems
CSTM 301: Residential Architectural Design
CSTM 302: Commercial Architectural Design
CSTM 430: Construction Estimating
CSTM 432: Construction Project Management

f. Teaching Assistant, January 2005 – May 2005

Texas A&M University, Department of Architecture

- Courses Taught:

ARCH 652: Facility Information Technology

g. Graduate Assistant, December 2000 – July 2005

Facilities Planning and Construction, Texas A&M University System

8. Grants

1. CAED Austin Hearst Fund, 2023

Principal Investigator

Amount: \$70,000

Title: Cal Poly Info Visualization using Digital Twin Technologies

2. Construction Management Education Sponsorship Act Grant, 2023

Principal Investigator

Amount: \$61,923

3. Construction Employers' Association University Grant, 2022

Principal Investigator

Amount: \$36,500

4. RELUI (Real Estate and Land Use Institute) Grant, 2022

Co-Principal Investigator

Amount: \$15,500

Title: 2023 Cal Poly Real Estate Student Competition

5. Construction Management Education Sponsorship Act Grant, 2022

Principal Investigator

Amount: \$64,615

6. RELUI (Real Estate and Land Use Institute) Grant, 2021

- Principal Investigator
Amount: \$12,909
Title: Cal Poly Real Estate Student Competition
7. *Construction Employers' Association University Grant, 2021*
Principal Investigator
Amount: \$36,500
 8. *Construction Management Education Sponsorship Act Grant, 2021*
Principal Investigator
Amount: \$45,279
 9. *Cal Poly Strategic Research Initiatives Year Two, 2021*
Co-Principal Investigator
Amount: \$25,161
Title: BIM-based Digital Twin for Facility Management
 10. *NSF Major Research Instrumentation Program, 2020*
Senior Personnel
Title: Acquisition of Multi-axial Actuator System to Simulate Earthquake Loading
Amount: \$263,720
 11. *Cal Poly Strategic Research Initiatives, 2020*
Co-Principal Investigator
Amount: \$50,000
Title: Smart Campus Pilot Project | Digital Twin
 12. *Midwest Energy Research Consortium, 2014*
Co-Principal Investigator
Amount: \$100,000
Title: Developing a Model of an NZE (Net Zero Energy) Campus in a Micro-Grid Environment
 13. *Wisconsin Energy Research Consortium, 2012*
Principal Investigator
Amount: \$100,000
Title: Virtual Retrofit Models for Aging Commercial Buildings in a Smart Grid Environment
 14. *Graduate Course Development Grant, 2012*
MG - 7040 Construction & Operations Management Strategies
MG - 7050 Construction Data & Information Management
 15. *NSF Partnership for Innovation (PFI), 2010 - Declined*
Co-Principal Investigator
Amount: \$583,500
Title: Net-Zero Year-Round Food Production in Rooftop Greenhouses
 16. *NSF Emerging Frontiers in Research and Innovation (EFRI), 2010 - Declined*
Principal Investigator
Amount: \$1,653,500
Title: EFRI-SEED: Cyber-enabled Sustainable Asset Management by Enhancing Data Interdependencies amongst Building Systems, Environments, and Facility Management Processes (finalist)
 17. *Faculty Summer Research Grant, 2010*
Milwaukee School of Engineering

- Amount: \$2,000
 Title: BIM Manual for CM course instructors
18. *Southeastern Wisconsin Energy Technology Research Center/ Department of Energy, National Energy Technology Laboratory, 2009*
 Co-PI
 Amount: \$85,000
 Title: Developing a Business Case for Sustainable Asset Renewal of Existing Buildings
19. *Faculty Summer Research Grant, 2008*
 Milwaukee School of Engineering
 Amount: \$2,600
 Title: Evaluation of sustainability software
20. *Faculty Research Grant, 2006*
 Western Illinois University
 Amount: \$1,000
 Title: Promoting 3D Thinking
21. *American Institute of Architects, 2005*
 University Research Grant
 Amount: \$4,000
 Title: Sharing Tacit Design Knowledge in a Distributed Design Environment
22. *The William Caudill Research Fellowship, 2003*
 Texas A&M University
 Amount: \$8,000
 Title: Dynamic Knowledge Map

9. Professional Consulting Activities

- a. Montalba Architects
 May 2023
 How do architects use BIM to collaborate with general contractors?
- b. Autodesk
 July 2017 – December 2019
 Develop online course materials at Autodesk Design Academy
- c. Riley Construction, Kenosha, Wisconsin
 February 2015
 CPM Scheduling
- d. Computerized Structural Design, Milwaukee, Wisconsin
 November 2013 – February 2014
 Revit Structure training for 12 structural engineers
- e. Computerized Structural Design, Milwaukee, Wisconsin
 November 2012 – February 2013
 Revit Structure training for 15 structural engineers
- f. PEAK Industrial Solutions, LLC
 May 2012 – July 2012
 BIM solutions for facility managers of health care facilities
- g. National PHCC (Plumbing, Heating and Cooling Contractor) Association
 February, 2012
 BIM webinar for national PHCC member

- h. Kohler, Inc., Kohler, WI
March, 2011
Provided BIM training focused on Revit MEP, Structure and model-based estimating, 4D scheduling using Navisworks
- i. Kohler, Inc., Kohler, WI
October, 2010
Provided basic level BIM training workshops for employees in construction engineering department
- j. Graef USA, Milwaukee, WI
May, 2010
Provided BIM consulting on software integration between Revit and Trane Trace, and Revit family editing
- k. OH Stone Construction, LLC, Milwaukee, WI
June, 2008
Provided consulting on estimating and scheduling software

10. Professional Work Experiences

- a. *Architectural Designer, 2005 - 2007*
Sakura Sushi and Grill Restaurant, Waukesha, WI, 2009
Poulter's Residence, Macomb, IL, 2007
- b. *Microcomputer Coordinator/Research Assistant, 2000 – 2005*
Facilities Planning & Construction, The Texas A&M University System
- c. *Graduate Assistant – Research, 2000*
CRS Center, Texas A&M University
- d. *Graduate Assistant – Research, 1999 – 2000*
Department of Wildlife and Fisheries Sciences, Texas A & M University
- e. *Project Engineer, 1996 – 1998*
Overseas Project Estimation Team, Dong Ah Construction Industrial Co. Ltd.
- f. *Intern Architect, 1995*
K & C Architects Associates

11. Awards

- a. *SEEDS Renewable Energy Solutions Paper Award, 2018*
- b. *ASC National Outstanding Researcher Award, 2015*
- c. *ASC National Teaching Excellence Award, 2013*
- d. *ASC Region 3 Teaching Excellence Award, 2012*
- e. *Autodesk Faculty Scholarship, 2011*
- f. *MSOE Faculty Protracted Leave Release Time, 2010-2011*
The Office of the Vice President of Academics
Milwaukee School of Engineering
- g. *Best Faculty Presentation Award, 2006*
Western Illinois University
2006 Annual Faculty Research Symposium
Title: Promoting 3D thinking
- h. *Ph. D. Student Research and Presentation Grant, 2004*
Department of Architecture, Texas A&M University

- i. *Construction Industry Advisory Council Scholarship, 1999*
Department of Construction Science, Texas A&M University
- j. *1 Year Full Tuition Scholarship, 1995*
Department of Architectural Engineering, Kyung Won University
- k. *Award in KOSID Interior Design Competition, 1992*
Third Place

12. Services

- a. *Associated Schools of Construction*
Chair of Faculty Teaching Workshop, 2019-Present
Associate Regional Director, 2018 - 2019
- b. *Bluebeam, Inc.*
Academic Council, 2016 - 2019
- c. *Automation in Construction*
Board of Reviewers, 2012 – 2019
- d. *Wisconsin Energy Research Consortium*
Technology Innovation Committee, 2012 - 2019
- e. *ASCE CRC (Construction Research Congress)*
Board of Reviewers, 2011- 2019
- f. *Winter Simulation Conference*
Board of Reviewers, 2011 - 2019
Session Moderator, 2011
- g. *American Council of Construction Education*
Register of Visitors, 2008-Present
- h. *American Society of Engineering Education*
Board of Reviewers, 2009-2019
- i. *Associated Schools of Construction*
Board of Reviewers, 2008-Present

13. Publications

a. *Book Chapters*

Woo, J.-H., Clayton, M., Johnson, R., Flores, B., and Ellis, C. (2005). "Sharing Tacit Design Knowledge in a Distributed Design Environment." 2005 AIA University Pilot Research. edited by Daniel Freidman. The American Institute of Architects.

b. *Peer-reviewed Journal Papers*

Woo, J.-H., Peterson, M., and Gleason, B. (2016). "Developing a Virtual Campus Model in an Interactive Game-Engine Environment for Building Energy Benchmarking." *Journal of Computing in Civil Engineering*, 10.1061/(ASCE)CP.1943-5487.0000600, C4016005.

Woo, J.-H., and Menassa, C. (2014). "Virtual Retrofit Model for Aging Commercial Buildings in a Smart Grid Environment." *Energy and Buildings*, 80, 424-435

Woo, J.-H., Clayton, M., Johnson, R., Flores, B., and Ellis, C. (2004). "Dynamic Knowledge Map: Reusing Experts' Tacit Knowledge in the AEC Industry." *Automation in Construction*, 13(2), 203-207.

Williamson, K., and Woo, J.-H. (2003). "Measuring the Time and Cost Benefit of an Extranet Using Simulation Models." *The American Professional Constructor*. 27(1), 30-35.

Johnson, R., Clayton, M., Xia, G., Woo, J.-H., and Song, Y. (2002). "The Strategic Implications of E-commerce for the Design and Construction Industry." *Engineering, Construction, and Architectural Management*. 9(3), 241-248.

c. *Peer-reviewed Conference Papers*

Malek Mohammadi, A., Hajrasouliha, A., Cleary, J., and Woo, J. (2021). "The Smart Campus as a Testing Ground for Smart Cities." 2021 ASEE Virtual Annual Conference Content Access, Virtual Conference. <https://peer.asee.org/37895>

Fassbender, J., Sanap, A., Green, K., and Woo, J.-H. (2018). "Improved Productivity, Efficiency and Cost Savings Following Implementation of Drone Technology in the Surveying Industry." 2018 Proceedings of the 35th ISARC, Berlin, Germany

Jurgens, J., Casey, S., Clements, J., and Woo, J.-H. (2018). "Infrastructure Asset Management For Strategic Planning." 2018 Proceedings of the 35th ISARC, Berlin, Germany

Christianson, G., Wilson, E., and Woo, J.-H. (2017). "Cloud-based Project Management: Selecting IT Solutions for Construction Companies." 2017 Lean & Computing in Construction Congress, Heraklion, Greece

Moshi C., Bennett S., Molnor M., and Flores R., Woo, J.-H. (2017). "Robotics in Solar Field Projects." 2017 Lean & Computing in Construction Congress, Heraklion, Greece

Woo, J.-H. and Gleason, B. (2014). "Building Energy Benchmarking with Building Information Modeling and Wireless Sensor Technologies for Building Retrofits." 2014 ICCCB, Orlando, FL.

Condon, P., and Woo, J.-H. (2013). "Integration of IT Platforms to Improve Change Order Efficiency in Construction." 2013 ASC Annual International Conference, San Luis Obispo, CA.

Clancy, T., and Woo, J.-H. (2012). "Cost-Effective Mobile Application Strategies in a Competitive and Economically Challenged Industry." 2012 ASCE Construction Research Congress, Washington DC.

Woo, J.-H., and McGeen, M. (2011). "Implementing Model Quality Control in a Design-Build Senior Project Course." 2011 EcoBuild America, Washington DC.

Kim, S., and Woo, J.-H. (2011). "Analysis of the Differences in Energy Simulation Results between Building Information Modeling (BIM)-Based Simulation Method and the Detailed Simulation Method." 2011 Winter Simulation Conference, Phoenix, AZ

Woo, J.-H., Diggelman, C., Abushakra, B., and Corliss, G. (2010). "Improving Energy Efficiency using Building Information Modeling." 2010 EcoBuild America, Washington DC.
Woo, J.-H., and Wentz, B. (2010). "Use of WIKIs in Construction Education." Proceedings of the 2010 ASEE Annual Conference and Exposition, Louisville, Kentucky.

Woo, J.-H., Wilsmann, j., and Kang, D. (2010). "Use of as-built Building Information Modeling." Proceedings of the 2010 ASCE Construction Research Congress, Banff, Canada.

Woo, J.-H. (2009). "CM students' construction experiences, learning styles, and their correlation with performance in BIM" Proceedings of the 2009 ASC Annual Conference, Gainesville, FL.

Woo, J.-H. (2007). "Pedagogical challenges of BIM" Proceedings of the 2007 ASC Annual Conference, Flagstaff, AZ.

Woo, J.-H. (2006). "Teaching BIM (Building Information Modeling) in a Construction Management Program." 2006 ASC Region 3 Conference, Downers Gove, IL, October 2006.

Woo, J.-H., and Clayton, M., Johnson, R. (2006). "Computer-mediated communication in a distributed design studio." Proceedings of the 2006 ASEE Annual Conference and Exposition, Chicago, Illinois.

Woo, J.-H., and Clayton, M. (2005). "Knowledge Sharing with CMC." Proceedings of the ARCC, Jackson, Mississippi.

Woo, J.-H., and Clayton, M. (2004). "Synchronous Chat for Knowledge Sharing in a Distributed Design Environment." Proceedings of the ISARC 2004. 676-681, Jeju, South Korea.

Woo, J.-H., Clayton, M., Johnson, R., and Flores, B. (2003). "Case Study of Tacit Knowledge Sharing in a Distributed Design Studio." Proceedings of the ACADIA 2003. 107-116. Indianapolis, Indiana.

Woo, J.-H., Clayton, M., Johnson, R., and Flores, B. (2003). "Tacit Knowledge Sharing in a Design Studio." Proceedings of the International Conference on Building Education and Research. 267-277. Manchester, UK.

Woo, J.-H., Clayton, M., Johnson, R., Flores, B., and Ellis, C. (2002). "Dynamic Knowledge Map: Reusing Experts' Tacit Knowledge in the AEC Industry." Proceedings of the ACADIA 2002. 411-415. Pomona, California.

Johnson, R., Clayton, M., Woo, J.-H., and Xia, G. (2001) "How E-Commerce is Changing the Facility Management Practices of Building Owners." 2001 ARCC Spring Research Conference. Blacksburg, VA, April 2001.

Williamson, K., and Woo, J.-H. (2001). "Measuring the Time and Cost Benefit of an Extranet Using Simulation Models." 2001 ASEE Gulf-Southwest Section Annual Meeting. College Station, TX, March 2001.

Williamson, K. and Woo, J.-H. (2001). "Simulation Modeling of an Extranet's Time and Cost." ASC Proceedings of the 37th Annual Conference. 59-66, Denver, Colorado.

d. Peer-reviewed Conference Presentations

Woo, J.-H. (2015). "Virtual Campus Model for Interactive Energy Management." 2015 Architectural Engineering Institute, Milwaukee, WI.

Woo, J.-H. (2011). "BIM-based Energy Monitoring at the Milwaukee County Research Park." 2011 Green Energy Summit, Milwaukee, WI.

Woo, J.-H., Clayton, M. and Vasquez, G. (2004). "Synchronous Chat for Knowledge Sharing in a Distributed Design Environment." Presented at the International Conference for Design Computation and Cognition. Cambridge, Massachusetts.

e. Research Reports/Technical Papers

Woo, J.-H., Clayton, M., Johnson, R., and Flores, B. (2003). "Case Study of Tacit Knowledge Sharing in a Distributed Design Studio." CRS Center Working Paper no. 1. The CRS Center, Texas A&M University.

Woo, J.-H. (2000). "Measuring the Time and Cost Benefits of an Extranet Using Simulation Models." Technical Paper, Department of Construction Science, Texas A&M University, College Station, TX.

14. Invited Presentations/Workshops

a. Lean Construction Institute Design Forum

Woo, J., Sitton, S., and Sailor, H. (2022). Skip the Grid: Solar-Powered Refrigeration in the Navajo Nation, Phoenix, AZ.

b. Associated Schools of Construction

Woo, J.-H., and Herridge, J. (2018). Teaching Construction Coordination with Autodesk BIM 360 Glue, Minneapolis, MN

Woo, J.-H., and Herridge, J. (2018). Teaching Construction Document Management with Autodesk BIM 360 Docs, Minneapolis, MN

c. Accelerate Live!

Woo, J.-H. (2018). Education is the single biggest driver in the AEC tech revolution. April 2018, Chicago, IL.

- d. *American Council of Construction Education*
Woo, J.-H. (2016). Utilizing Social Media to Increase Construction Management Enrollments? February 17, 2017, Mobile, AL.
- e. *Autodesk University*
Woo, J.-H., and Trussoni, M. (2012). How to Integrate BIM and Sustainability in a Design-Build Studio? December 2, 2012, Las Vegas, NV
Woo, J.-H. (2011). Best Practices on BIM Education. December 1, 2011, Las Vegas, NV
- f. *Korea Institute of Construction Technology*
Woo, J.-H. (2011). BIM Applications and Interoperability. Presented at KICT, July 8, 2011, Ilsan, Korea
- g. *Korea Institute of Construction Engineering Management*
Woo, J.-H. (2011). Best Practices on BIM Education. Presented at KICEM BIM Forum, July 8, 2011, Seoul, Korea
- h. *Sweet Water Organics*
Woo, J.-H. (2011). "Adaptive Reuse of Aging Industrial Buildings for Urban Agriculture." presented at Sweet Water Organics Annual Workshop, January 21, 2011, Milwaukee, WI
- i. *Wisconsin Energy Research Consortium*
Woo, J.-H., and Trussoni, A. (2011). "Building Energy Efficiency Research Team at MSOE." Presented at Wisconsin Energy Technology Consortium, Milwaukee, WI, January 18, 2011.
 - Woo, J.-H., Abushakra, A. (2010). "Developing a Business Case for Sustainable Asset Renewal of Existing Buildings." Presented at Marquette University, Milwaukee, WI, September 20, 2010.
- j. *Southeastern Wisconsin Energy Technology Research Center*
Woo, J.-H. (2010). "Developing a Business Case for Sustainable Asset Renewal of Existing Buildings.", Presented at Southeastern Wisconsin Energy Technology Research Center, Milwaukee, WI, January 22, 2010.
- k. *AIC National Forum*
Woo, J.-H. (2010). "Integrated Project Delivery and BIM." Presented at American Institute of Constructors National Forum, Milwaukee, WI, April 17, 2009.

15. Training

- a. *BIM Level II training, 2009*
MasterGraphics, Brookfield, WI
- b. *Advanced BIM training – Revit family, 2009*
Autodesk/Moraine Valley Community College, IL
- c. *Primavera P6 Training, 2009*
Primavera Systems, Bala Cynwyd, PA

16. Licenses

- a. Class 1 Architectural Engineer License, 1996
Korea Manpower Agency

17. Professional Memberships

- b. American Council of Construction Education, 2008 – Present
- c. Associated Schools of Construction, 2006 – Present
- d. American Society of Civil Engineers, 2016 – 2019
- e. BuildingSMART Alliance, 2008 – 2019
- f. American Society for Engineering Education, 2006 – 2019
- g. Association for Computer Aided Design in Architecture, 2002 – 2006