

William J. Bender PhD, PE, LEED AP

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(206) 616-1280 wbender@uw.edu

Education

Washington State University BS Civil Engineering 1981

Oregon State University MS Civil Engineering 1989

University of Maryland PhD 2000

Academic and Professional Appointments

Professor and Chair, Department of Construction Management, University of Washington

Professor, Associate Dean, Department Chair, Central Washington University 1998-2014

Instructor US Naval Academy 1996-1998

Construction manager 1981-1996

Selected Publications Related to Education

“Predictors for Construction Management Student Success” Y. Kim and W. Bender, refereed paper for the **Associated Schools of Construction Proceedings 2017**. Annual Proceedings of the 53th Meeting of the Associated Schools of Construction, April 2017.

“*Integrated Project Delivery Games for the Classroom*” D. Martin, P. W. Plugge, and W. Bender, refereed paper for the **Associated Schools of Construction Proceedings 2015**. Annual Proceedings of the 50th Meeting of the Associated Schools of Construction, April 2015.

“*Construction Safety Laboratory*” S. Rajendran, P. W. Plugge, and W. Bender, refereed paper for the **Associated Schools of Construction Proceedings 2014**. To appear in the Annual Proceedings of the 50th Meeting of the Associated Schools of Construction, April 2014.

“*Educational Operations Four Days a Week*” Pringle, C. and W. J. Bender. Refereed paper for the **American Society of Engineering Educators Annual Conference 2010**. June 2010

“*Teaching Leadership*” W. J. Bender and B. Bain. Refereed paper for the **Associated Schools of Construction Proceedings 2006**. Annual Proceedings of the 41st Meeting of the Associated Schools of Construction, April 2006.

Selected Publications Related to Sustainability

“*Sustainable Design That Succeeds II*” W. J. Bender, P.W. Plugge and M.W. Whelan. Refereed paper for the **Associated Schools of Construction Proceedings 2014**. Annual Proceedings of the 49th Meeting of the Associated Schools of Construction, April 2014.

“*Full Scale Measurement of Wind Loadings on Solar Panels*” W. Bender, M. Morrison, D. Reed, Paper and presentation for the **12th Americas Conference on Wind Engineering**, Seattle, WA, June 2013.

“Sustainable Design Strategies That Succeed” K. Bicchieri and W. J. Bender. Refereed paper for the **Associated Schools of Construction Proceedings 2009**. Annual Proceedings of the 44th Meeting of the Associated Schools of Construction, April 2009

“Construction of a Wind Farm and Case Study” W. J. Bender and D. Carns. Refereed paper for the **Associated Schools of Construction Proceedings 2008**. Annual Proceedings of the 43rd Meeting of the Associated Schools of Construction, April 2008

“Risk Assessment for Construction Clients” Paper for the **Association for the Advancement of Cost Engineering International Proceedings 2004**, Washington DC, June 2004.

Synergistic Activities

Development of a Master of Science in Engineering Technology at Central Washington University. Program furthers the technical and project management knowledge of students. The program was broad enough to accept and provide an advanced education for students from Electrical and Mechanical Engineering Technology, Construction Management, and Safety.

Spearheaded the efforts to program and fund raise to build a 56,000 square foot addition to a remodeled a 36,000 square foot Engineering Technology building. The building combined seven technical majors and created interdisciplinary learning opportunities.

Development of graduate hybrid learning courses in sustainable construction. Course was mostly delivered through online learning. Students came together for workshops to engage in activity and field experience based learning.

Modernized an existing Construction Estimating laboratory by introducing and developing learning modules that included state-of-the-art software.

Development of a degree specialization in Heavy/ Civil Construction Management. Most Construction Management programs focus on vertical construction. This heavy/civil program consists of eight different courses; each course has several activity-based learning laboratories.

Total number of graduate students mentored: 42 MS, 2 PhD

Courses Taught

Project Management, Estimating, Sustainability, Electrical Systems, Construction Contract Law, Statics, Mechanics of Materials, Plan Reading, Construction Methods and Materials, Ocean Engineering, Engineering Economics, Construction Labor Relations, Competitive Presentations, Mechanical Systems, Construction Accounting, Simulation.