

CURRICULUM VITAE
for
MATTHEW R. HALLOWELL

Assistant Professor
Department of Civil, Architectural, and Environmental Engineering
The University of Colorado at Boulder
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ACADEMIC BACKGROUND

Ph.D. (2008) School of Civil and Construction Engineering, Oregon State University
Construction Engineering and Management Program
Minor: Public Health
Dissertation: *A Formal Model of Construction Safety Risk*

Management

M.S. (2005) Department of Civil Engineering, Bucknell University
Thesis: *Building Performance Engineering during Construction*

B.S. (2004) Department of Civil Engineering, Bucknell University

WORK EXPERIENCE

Assistant Professor 2008 – present Dept. of Civil, Architectural, and Environmental Engineering
The University of Colorado at Boulder

Teaching Assistant 2007 – present School of Civil and Construction Engineering
Oregon State University, Corvallis, OR
Course: Building Construction Management

Research Assistant 2005 - present School of Civil and Construction Engineering
Oregon State University, Corvallis, OR
Topics: Construction innovation, alternatives to liquidated damages, outsourcing project delivery and quality assurance

President Modular Design Solutions

2005 – present	Corvallis, OR Role: President and lead engineer
Teaching Assistant 2004 – 2005	Department of Civil Engineering Bucknell University, Lewisburg, PA Courses: Engineering project management and wood engineering
Consultant 2004	Small Business Development Center Bucknell University, Lewisburg, PA Role: Experimental testing of a structural frame under dynamic loading
Project Engineer 2004 – 2005	Penn Lyon Homes Selinsgrove, PA Role: Structural designer of single family and multi-family homes
Project Engineer Summer, 2003	Pine Tree Engineering Bath, ME Role: Surveyor, draftsman and roadway designer
Laborer Summer, 2002	Fenderson-Howe Master Builders Falmouth, ME, 2002 Role: Carpenter and demolition manager

PROFESSIONAL REGISTRATIONS

Fundamentals of Engineering Certificate, Pennsylvania, May, 2004
 Expecting to sit for the Professional Engineering Exam, Spring, 2009

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIPS

American Society of Civil Engineers (ASCE). Member, 2004 – present
 American Society of Safety Engineers (ASSE). Member, 2005 – present
 Chi Epsilon, Oregon State University Chapter. Member, 2007 – present

MERIT-BASED AWARDS AND HONORS

Kiewit Center for Infrastructure and Transportation Fellowship (2007)
 OSU Fellowship Award (2005-2007)

Veterans of Foreign Wars Scholarship (2005)
CEE Chiloro Foundation Summer Research Grant (2004)
Grand Royal Arch Masons Scholarship (2004)
Elks Regional Scholarship (2000)
Morse Alumni Scholarship (2000)
Maine Sports Hall of Fame Induction and Scholarship (2000)
Yale Book Award (2000)

PRIMARY AREAS OF INTEREST

Construction safety, innovation, risk management, building construction management, lean construction, design of residential structures, and construction engineering.

PEER-REVIEWED JOURNAL ARTICLES

- Hallowell, M.R.** and Gambatese, J. (2008). “Factors influencing the generation of innovative products in the A/E/C industry.” *Journal of Construction Engineering and Management*, ASCE (submitted for review)
- Hallowell, M. R.**, Veltri, A., and Johnson, S.(2008). “Safety and health management and lean production: lessons-learned and best-practices.” *Professional Safety*, Journal of the American Society of Safety Engineers, ASSE (submitted for review)
- Hallowell, M.R.** and Gambatese, J. (2008). “A formal model for construction safety and health risk management.” *Journal of Construction Engineering and Management*, ASCE (submitted for review)
- Gambatese, J. and **Hallowell, M.R.** (2008). “Techniques for enabling and measuring innovation in the construction industry” *Journal of Construction Engineering and Management*, ASCE (submitted for review)
- Hallowell, M.R.** and Gambatese J. (2008). “Safety risk mitigation.” *Journal of Construction Engineering and Management*, ASCE (submitted for review)
- Hallowell, M.R.** and Gambatese J. (2008). “Qualitative research: application of the Delphi method to CEM research.” *Journal of Construction Engineering and Management*, ASCE (submitted for review)
- Hallowell, M.R.** and Gambatese, J. (2008). “Activity-based safety and health risk quantification for formwork construction.” *Journal of Construction Engineering and Management*, ASCE (submitted for review)
- Hallowell, M.R.** and Toole, T.M. (2008). “A Contemporary Design-Bid-Build Model.” *Journal of Construction Engineering and Management*, ASCE (submitted for review)

PEER-REVIEWED PUBLISHED PROCEEDINGS

- Hallowell, M.R.** (2009). “Application of the Delphi method to construction safety and health research.” *Proceedings of the 2009 Construction Research Congress*, ASCE, Seattle, WA., April 5-7, 2009. (submitted for review)
- Sillars, D.N. and **Hallowell, M.R.** (2009). “Opinion-based research: lessons learned from four approaches.” *Proceedings of the 2009 Construction Research Congress*, ASCE, Seattle, WA., April 5-7, 2009. (submitted for review)
- Hallowell, M.R.** and Gambatese, J.A. (2008). “Quantification and Communication of Construction Safety Risk.” 2008 Working Commission on Safety and Health on Construction Sites Annual Conference, sponsored by the International Council for Research and Innovation in Building and Construction, Gainesville, FL, March 9-11, 2008.
- Hallowell, M. R.** and Gambatese, J.A. (2007). “A Formal Model of Construction Safety Risk Management.” *2007 Construction and Building Research Conference (COBRA)*, sponsored by the Royal Institution of Chartered Surveyors and Georgia Tech University, Atlanta, GA, Sept. 6-7, 2007.
- Hallowell, M.R.** and Rogge, D.F. (2007). “Evaluation of Outsourcing in the Oregon Department of Transportation” *Proceedings of the 2007 Construction Research Congress*, ASCE, Grand Bahama Island, Bahamas, May 6-8, 2007.
- Gambatese, J.A., **Hallowell, M.R.** and Sillars, D.N. (2007). “Benchmark of Innovation in the A/E/C Industry” *Proceedings of the 2007 Construction Research Congress*, ASCE, Grand Bahama Island, Bahamas, May 6-8, 2007.
- Toole, T.M. and **Hallowell, M.R.** (2005). “Building Performance Engineering during Construction.” *Proceedings of the 2005 Construction Research Congress*, ASCE, San Diego, CA, April 5-7, 2005. (Best Paper Award)

CONFERENCE PROCEEDINGS

- Toole, T.M., Hervol, N., and **Hallowell, M.R.** (2006). “Designing Steel for Construction Worker Safety.” *Proceedings of the 2006 North American Steel Construction Conference*, NASC, San Antonio, TX, February 8-11, 2006.

OTHER PUBLICATIONS AND MANUSCRIPTS

- Hallowell, M.R.** (2008). “A formal model of construction safety and health risk management.” Ph.d. Dissertation, Oregon State University, Corvallis, OR.
- Gambatese, J.A. and **Hallowell, M.R.** (2007). “Energizing Innovation in Integrated Project Delivery – Final Report” Charles Pankow Foundation and the Foundation for Integrated Services, August 2007.
- Rogge, D.F. and **Hallowell, M.R.** (2007). “Evaluation of Outsourcing in the Oregon Department of Transportation,” Research Project SPR 617 Report, Oregon

Department of Transportation (ODOT) and U.S. Department of Transportation, Federal Highway Administration (FHWA), July 2007.

Toole, T. M., Hervol, N., and **Hallowell, M.R.** (2006). "Designing for Construction Safety." *Modern Steel Construction*, June 2006: 55-59.

Hallowell, M.R. (2005). "Building Performance Engineering during Construction" Bucknell University, May 2005. (Masters Thesis)

PROFESSIONAL PRESENTATIONS

"A Formal Model of Construction Safety Risk Management" *2007 Construction and Building Research Conference (COBRA)*, Atlanta, GA, September 6-7, 2007.

"Evaluation of Outsourcing in the Oregon Department of Transportation" *Northwestern Division of the Army Corps of Engineers Construction Conference*, Corvallis, OR, May 3, 2007.

"Benchmark of Innovation in the Architecture/Engineering/Construction Industry." *2007 Construction Research Congress*, ASCE, Grand Bahama Island, Bahamas, May 6-8, 2007.

"Outsourcing Project Delivery in the Oregon Department of Transportation." *2007 Construction Research Congress*, ASCE, Grand Bahama Island, Bahamas, May 6-8, 2007.

"Safety Equilibrium Model" *CE507 Civil Engineering Graduate Seminar*, Corvallis, OR, March 9, 2007.

"Designing Steel for Construction Worker Safety." *North American Steel Conference*, San Antonio, TX, February 8-11, 2006.

"Building Performance Engineering during Construction." Northwestern University, May 9, 2005.

WORKSHOPS, MEETINGS, AND CONFERENCES

Innovation in Engineering Education, Oregon State University, Corvallis, OR, May 24-25, 2007

NexCon 2006 Next Generation Construction Summit: Defining the New Critical Path, Greater Portland Construction Partnership, Portland, OR, Nov. 8-9, 2006.

TEACHING

CVEN 6836 – Research Methods

University of Colorado at Boulder – Department of Civil Engineering (17 students)

Team-taught with CEM Program faculty

CVEN 3246: Introduction to Construction

University of Colorado at Boulder – Department of Civil Engineering (94 Students)

H385: Safety and Health Standards and Laws
Oregon State University – School of Public Health (124 Students)

CEM 442/542: Building Construction Management
Oregon State University - School of Civil and Construction Engineering (171 Students)

SERVICE ACTIVITIES

Peer-reviewer:

Journal of Construction Engineering and Management (2008-present)

Journal of Construction Management and Economics (2008-present)

ASCE Construction Research Congress (CRC) Bi-annual Conference, Seattle, WA, April 5-7, 2009

CIB W-99 International Conference Melbourne, Australia, October 21-23, 2009

Committee participation:

Graduate Committee, Department of Civil, Environmental, and Architectural
Engineering, University of Colorado (Fall 2008- present)

Member of the Scientific and Technical Committee of CIB-W99

Other:

President, OSU Triathlon Club, Oregon State University. 2006-2007

Graduate Student Council Representative, College of Engineering, Bucknell University.
2004-2005

Captain, Bucknell University Varsity Division I Men's Swimming and Diving Team.
2003-2004

Member, Bucknell University Varsity Division I Men's Swimming and Diving Team
2000-2004