

Project Engineer 2004 – 2005	Penn Lyon Homes Selinsgrove, PA Structural Engineer
Teaching Assistant 2004 – 2005	Department of Civil Engineering Bucknell University, Lewisburg, PA Courses: Engineering project management and timber engineering
Consultant 2004	Small Business Development Center Bucknell University, Lewisburg, PA Project: Experimental testing of a structural frame under dynamic loading
Project Engineer Summer, 2003	Pine Tree Engineering Bath, ME Role: Surveyor, draftsman, and highway designer
Laborer Summer, 2002	Fenderson-Howe Master Builders Falmouth, ME, 2002 Role: Carpenter and demolition laborer

PROFESSIONAL REGISTRATIONS

Fundamentals of Engineering Certificate, Pennsylvania, May, 2004

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIPS

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

MERIT-BASED AWARDS AND HONORS

Teaching Award, Department of Civil, Architectural, and Environmental Engineering (2010)
ASCE ExCEEEd Teaching Fellowship (2009)
Professional Member – American Society of Safety Engineers (2008)
Kiewit Center for Infrastructure and Transportation Fellowship (2007)
OSU Civil Engineering Graduate Fellowship (2005-2007)
Best Paper Award, Construction Research Congress (2005)
CEE Chiloro Foundation Summer Research Grant (2004)

PRIMARY AREAS OF INTEREST

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

BOOKS AND BOOK CHAPTERS

1. **Hallowell, M.R.** and Hinze, J.W. "Strategic safety management." In: Organizational Management in Construction, Chinowsky, P. and Songer, T. Eds. Taylor and Francis (In Press)

PEER-REVIEWED JOURNAL ARTICLES

2. **Hallowell, M. R.** (2010). "Safety risk perception in construction companies in the Pacific Northwest of the USA." *Construction Management and Economics*, 28(4): 403-413.
3. **Hallowell, M.R.** (2010). "Cost-effectiveness of construction safety programme elements." *Construction Management and Economics*, 28(1): 25-34.
4. **Hallowell, M.R.** and Gambatese J.A. (2010). "Qualitative research: application of the Delphi method to CEM research." *Journal of Construction Engineering and Management*, ASCE, 136(1): 99-107.
5. **Hallowell, M.R.** and Gambatese J.A. (2009). "Construction safety risk mitigation." *Journal of Construction Engineering and Management*, ASCE, 135(12): 1316-1323.
6. **Hallowell, M. R.**, Veltri, A., and Johnson, S. (2009). "Safety and lean: One manufacturer's lessons learned and best practices." *Journal of the American Society of Safety Engineers*, ASSE, 54(11): 22-27.
7. **Hallowell, M.R.** and Gambatese, J.A. (2009). "Activity-based safety and health risk quantification for formwork construction." *Journal of Construction Engineering and Management*, ASCE, 135(10): 990-998.
8. **Hallowell, M.R.** and Toole, T.M. (2009). "Contemporary design-bid-build model." *Journal of Construction Engineering and Management*, ASCE, 135(6): 540-549.
9. **Hallowell, M.R.** and Gambatese, J.A. "Population and initial validation of a formal model for construction safety risk management." *Journal of Construction Engineering and Management*, ASCE (In Press – print date 9/1/10)
10. **Hallowell, M.R.**, Protzman, J.B., and Molenaar, K.M. "Mobile barrier trailer: A critical analysis of an emerging workzone protection system." *Journal of the American Society of Safety Engineers*, ASSE (In Press – print date 11/1/10)
11. **Hallowell, M.R.** "Managing construction worker fatigue on rapid renewal highway projects." *Journal of the American Society of Safety Engineers*, ASSE (In Press – print date 12/1/10)
12. Gambatese, J.A. and **Hallowell, M.R.** "Factors that influence the development and diffusion of technical innovations in the construction industry." *Construction Management and Economics* (submitted for review)
13. Gambatese, J. and **Hallowell, M.R.** "Techniques for enabling and measuring innovation in the construction industry" *Construction Management and Economics* (submitted for review)
14. **Hallowell, M.R.**, Pandey, S.*, Alsamadani, R.*, and Esmaili, B.* "Schedule-based safety risk management for highway reconstruction projects." *Journal of Construction Engineering and Management*, ASCE (submitted for review)

15. **Hallowell, M.R.** and Calhoun, M.E.* “Interrelationships among highly effective construction injury prevention strategies.” *Journal of Construction Engineering and Management*, ASCE (submitted for review)
16. **Hallowell, M.R.** “Risk-based economic model for safety investment in construction.” *Journal of Construction Engineering and Management* (submitted for review)

PEER-REVIEWED PUBLISHED PROCEEDINGS

17. **Hallowell, M.R.**, Teizer, J. and Blaney, W. (2010). “Framework for integrating sensing technology into traditional safety programs.” *Proceedings of the 2010 Construction Research Congress*, ASCE, Banff, AB, Canada, May 8-11, 2010.
18. Toole, T.M., Chinowsky, P.C., and **Hallowell, M.R.** (2010). “A tool for improving construction organizations’ innovation capabilities.” *Proceedings of the 2010 Construction Research Congress*, ASCE, Banff, AB, Canada, May 8-11, 2010.
19. Calhoun, M.E.* and **Hallowell, M.R.** (2010). “Interrelationships among construction safety program elements: A cross-impact analysis.” *Proceedings of the 2010 Construction Research Congress*, ASCE, Banff, AB, Canada, May 8-11, 2010.
20. **Hallowell, M.R.** (2009). “A safety and productivity simulation game.” Proceedings of the 2009 Working Commission on Safety and Health on Construction Sites Annual Conference, sponsored by the International Council for Research and Innovation in Building and Construction, Melbourne, Australia, October 21-23, 2009.
21. **Hallowell, M.R.** and Tabata, J.* (2009). “The role of state DOTs in highway construction safety management.” Proceedings of the 2009 Working Commission on Safety and Health on Construction Sites Annual Conference, sponsored by the International Council for Research and Innovation in Building and Construction, Melbourne, Australia, October 21-23, 2009.
22. **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.
23. 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.
24. **Hallowell, M.R.**, Gambatese, J.A., and Toole, T.M. (2008). “A systems model of construction innovation.” *Proceedings of the 2008 Conference for Leadership and Management in Engineering*, Lake Tahoe, CA., October 16-19, 2008.
25. **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.
26. **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.
27. **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.

28. 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.
29. 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)

*Denotes Graduate Student Advisee

OTHER PUBLICATIONS

30. **Hallowell, M.R.** (2008). "A formal model of construction safety and health risk management." Ph.D. Dissertation, Oregon State University, Corvallis, OR.
31. 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.
32. 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.
33. 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.
34. Toole, T. M., Hervol, N., and **Hallowell, M.R.** (2006). "Designing for construction safety." *Modern Steel Construction*, June 2006: 55-59.
35. **Hallowell, M.R.** (2005). "Building performance engineering during construction" Bucknell University, May 2005. (Masters Thesis)

PROFESSIONAL PRESENTATIONS

- I. "Safety information modeling for construction" Invited research presentation, Bentley Systems, Philadelphia, PA. May 19, 2010
- II. "Proactive safety management for highway infrastructure projects." Invited research presentation, Georgia Institute of Technology, June 10, 2009.
- III. "Proactive construction safety risk management." *First International Conference for Construction Management*, Orlando, FL. February 11, 2009
- IV. "A Formal Model of Construction Safety Risk Management" *2007 Construction and Building Research Conference (COBRA)*, Atlanta, GA, September 6-7, 2007.
- V. "Evaluation of Outsourcing in the Oregon Department of Transportation" *Northwestern Division of the Army Corps of Engineers Construction Conference*, Corvallis, OR, May 3, 2007.
- VI. "Safety Equilibrium Model" *Civil Engineering Graduate Seminar*, Corvallis, OR, March 9, 2007.
- VII. "Designing Steel for Construction Worker Safety." *North American Steel Conference*, San Antonio, TX, February 8-11, 2006.

WORKSHOPS, MEETINGS, AND CONFERENCES

ASCE ExCEED Teaching Workshop, Hosted by the United States Military Academy, Westpoint, NY, July 22-27, 2009.

Effective College Teaching Workshop, Richard Felder, Hosted by The University of Colorado at Boulder, Boulder, CO, Feb 19-21, 2009.

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.

EXTERNALLY-FUNDED RESEARCH

Active projects

- [A]. Hinze and Hallowell
\$197,982 (\$57,188 CU); 09/10 to 09/12
Construction Industry Institute
“Driving to zero with safety leading indicators”
Role: CO-PI
- [B]. Hallowell and Molenaar
\$50,000 (\$42,000 CU); 07/10 to 01/11
National Highway Cooperative Research Program (NCHRP)
Project 20-24
“Executive strategies for risk management by state departments of transportation”
Role: PI
- [C]. Hallowell
\$29,990; 9/10 to 9/11
ELECTRI International
“Cost-benefit of de-energizing line work”
Role: PI
- [D]. Hallowell and Chinowsky
\$100,000; 9/10 to 9/12
Colorado Department of Transportation
“Strategic safety management”
Role: CO-PI

Total Active: \$377,972 (\$229,178 CU)

Completed projects

- [E]. Hallowell and Chinowsky
\$27,000; 09/09 to 08/10
Bentley Systems
“Safety information modeling.”

Role: PI

- [F]. Chinowsky, Toole, and Hallowell
\$85,000; 10/08 to 10/09
Construction Industry Institute
“Case studies in innovation in the EPC industry.”
Role: CO-PI

- [G]. Sillars (PI)
\$128,248; 07/01/07 to 06/01/08
Oregon Department of Transportation (ODOT)
“Statistical Analysis of QC/QA Data on Construction Projects.”
Role: Research Assistant

- [H]. Gambatese (PI)
\$80,499; 03/15/2006 to 10/01/2007
U.S. Department of Agriculture (USDA) and the Natural Resources Conservation
Services
“Development of Part 645 – Construction Inspection of the NRCS National Engineering
Handbook.”
Role: Research Assistant

- [I]. Gambatese (PI)
\$135,000; 03/01/2006 to 10/01/2007
Charles Pankow Foundation and the Foundation for Integrated Services
“Energizing Innovation in Integrated Project Delivery.”
Role: Research Assistant

- [J]. Sillars (PI)
\$110,247; 03/01/2007 to 06/01/2008
Oregon Department of Transportation (ODOT)
“Alternatives to Liquidated Damages.”
Role: Research Assistant

- [K]. Hallowell and Veltri (CO-PIs)
\$5,000; 06/01/2007 to 08/01/2008
Boeing Commercial Airplanes
“Integration of Safety and Health Management into Lean Production.”
Role: CO-PI

- [L]. Rogge (PI)
\$295,292; 08/01/2005 to 07/01/2007
Oregon Department of Transportation
“Outsourcing in the Oregon Department of Transportation”
Role: Research Assistant

- [M]. Hallowell and Toole (CO-PIs)
\$3,000; 05/01/2004 to 08/30/2004
Chiloro Foundation
“Building Performance Engineering during Construction.”

TEACHING

CVEN 5226: Quality and Safety
University of Colorado at Boulder – Department of Civil Engineering

CVEN 6836: Research Methods
University of Colorado at Boulder – Department of Civil Engineering
Team-taught with CEM Program faculty

CVEN 3246: Introduction to Construction
University of Colorado at Boulder – Department of Civil Engineering

H385: Safety and Health Standards and Laws
Oregon State University – School of Public Health

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

ADVISING

Current Student Committees Chaired

Matthew Calhoun, (PhD)
Behzad Esmaeili, (PhD)
Rayyan Alsamadani (PhD)
Alex Albert (PhD)
Barney Fortunato (MS)
Eric Antillón (MS, CO-Advisor w/Molenaar)
Katie Dewlaney (MS)
Mark Baudat (MS)
Dennis Riordan (MS)
Marcos Duarte (MS)

Former Student Committees Chaired

Matthew Calhoun (2010) “Interrelationships among highly effective construction injury prevention strategies” (MS)
Sangeeta Pandey (2009) “Safety risk estimation for highway reconstruction work tasks” (MS)
James Tabata (2008) “Safety program implementation of state departments of transportation” (MS)

Committee Participation (other than primary advisor)

Liron Yovel (PhD)
James O'Brien (PhD)
Sara Aupperle (MS)
Craig Wilson (MS)
Spencer Won (PhD - completed 2010)

SERVICE ACTIVITIES

Peer-reviewer:

Professional Safety, Journal of the American Society of Safety Engineers (2009-present)
Journal of Urban Planning and Development (2009-present)
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 participant:

ASSE Construction Practice Specialty (2007-present)
Graduate Committee, Department of Civil, Environmental, and Architectural Engineering,
University of Colorado (2008-present)
Scientific and Technical Committee of CIB-W99 (2008-present)
ASCE Prevention through Design (PtD) Committee (2008-present)
ASCE Site Safety Committee (2009-present)
ASCE Construction Research Council (2009-present)
ASSE Technical Advisory Committee (2009-present)
CIB W099 Working Group on Construction Safety and Health (2009-present)
Construction Industry Institute Safety Community of Practice (2009-present)

Other:

President, OSU Triathlon Club, Oregon State University (2006-2007)
Graduate Council Representative, College of Engineering, Bucknell University (2004-2005)
Captain, Bucknell University Division I Men's Swimming and Diving Team (2003-2004)
Member, Bucknell University Division I Men's Swimming and Diving Team (2000-2004)