

**Curriculum Vitae
for
JOHN A. GAMBATESE**

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ACADEMIC BACKGROUND

- PhD, 1996 University of Washington, Seattle, WA
Department of Civil Engineering
Transportation, Surveying, and Construction Engineering Program
Dissertation title: “Addressing Construction Worker Safety in the Project Design”
Advisor: Jimmie W. Hinze
- MS, 1987 University of California at Berkeley, Berkeley, CA
Department of Civil Engineering
Structural Engineering, Mechanics, and Materials Program
- BS, 1986 University of California at Berkeley, Berkeley, CA
Department of Civil Engineering

WORK EXPERIENCE

- Professor School of Civil and Construction Engineering
2011 - present Oregon State University, Corvallis, OR
- Adjunct Faculty College of Health and Human Sciences
2012 - present Environmental and Occupational Health and Safety Program
Oregon State University, Corvallis, OR
- Associate Professor School of Civil and Construction Engineering
2006 - 2011 Oregon State University, Corvallis, OR
- Assistant Professor Department of Civil, Construction and Environmental Engineering
2000 - 2006 Oregon State University, Corvallis, OR
- Director Construction Management Program
1998 - 2000 Department of Civil and Environmental Engineering
University of Nevada, Las Vegas, NV

Assistant Professor 1997 - 2000	Department of Civil and Environmental Engineering University of Nevada, Las Vegas, NV
Acting Asst. Prof. 1996 - 1997	Department of Civil Engineering (1-year appointment) University of Washington, Seattle, WA
Project Engineer 1996 - 1997	O'Brien-Kreitzberg & Associates, Seattle, WA Univ. of Washington Electrical Engineering/Computer Science Bldg. Project Responsibilities: Project administration, and change order and claims analysis.
Research Assistant 1994 - 1995	Department of Civil Engineering University of Washington, Seattle, WA
Teaching Assistant 1994 - 1996	Department of Civil Engineering, University of Washington, Seattle, WA Courses: Construction Planning and Scheduling; Construction Computer Applications; Construction Engineering I.
Project Engineer 1987 - 1993	Degenkolb Engineers, San Francisco, CA Responsibilities: Structural engineering design and consulting services for wood, concrete, and steel structures; evaluation and design of seismic reinforcing systems for structures.
Mathematics Tutor 1984 - 1990	University of California at Berkeley, Berkeley, CA Responsibilities: Conduct weekly group workshops and provide individual tutoring in the Athletic Study Center for university students studying calculus.
Engineering Aide Summers, 1984/1985	Laugenour and Meikle, Civil Engineers, Woodland, CA Responsibilities: Prepare preliminary designs of roads, sidewalks, and utilities; perform earthwork quantity take-offs.

PROFESSIONAL CONSULTATION

Prevention through Design:

Skanska USA Commercial Development, Arlington, VA, 2018-present
 Otis Elevator Co., Farmington, CT, 2017
 The Southern Co., Birmingham, AL, 2007, 2011, 2016

Construction Site Safety:

Ball Janik, LLP, Attorneys at Law, Portland, OR, 2011, 2015
 Romano Law Office, Attorney at Law, Clarksburg, WV, 2011
 Forsberg & Umlauf, P.S., Attorneys at Law, Tacoma, WA, 2006
 Bullivant, Hauser, Bailey Attorneys at Law, Portland, OR, 2002
 Thorner, Kennedy & Gano P.S., Attorneys at Law, Yakima, WA, 1997

Constructability:

Construction Services Group, Vancouver, WA, 2005

Project Planning and Scheduling:

TWC Construction, Inc., Henderson, NV, 1999 – 2000

Construction Contracting:

CH2M-Hill, Corvallis, OR, 2010 – 2011

PROFESSIONAL REGISTRATIONS

Professional Engineer – Civil, State of California (License No. 44727)

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIPS

American Society of Civil Engineers (ASCE), Member, 1986-present; Fellow, 2019-present.

Construction Research Council, Member, 1999-present.

Construction Safety Committee, Member, 1999-present; Chair, Site Safety Subcommittee, June 2018-present.

Temporary Structures Committee, Member, 2004-present.

Constructability Committee (inactive), Member, 2002-present; Founding member and Chair, 2002-2004.

Prevention through Design Committee (inactive), Founding member and Chair, 2007-2009.

American Society of Safety Engineers (ASSE), Associate Member, 2001-present.

Consortium of Universities for Research in Earthquake Engineering (CUREE), Member, 2001-present.

Chi Epsilon, University of Washington Chapter, Member, 1995-present.

HONORS AND AWARDS

Certificate of Nomination, Oregon State University Family Friendly Faculty Award, March 2018.

Honorable Mention, Jimmie W. Hinze Best Paper Award: Tymvios, N. and Gambatese, J. (2014).

“Owner Views on Designer Participation in Construction Safety.” *International Conference on Achieving Sustainable Construction Health and Safety*, W099 – Safety and Health in Construction, International Council for Research and Innovation in Building and Construction (CIB), Lund, Sweden, June 2-3, 2014.

2013-2018 Oregon Electric Group Faculty Fellow, School of Civil and Construction Engineering, Oregon State University.

2010-2011 CE Excellence Faculty Fellow, School of Civil and Construction Engineering, Oregon State University.

2009-2010 Dennis Marker Teacher of the Year Award for faculty teaching in the OSU CEM program. Presented by the Oregon State University AGC Student Chapter.

2003 Loyd Carter Award for outstanding and inspirational teaching. Presented by the Oregon State University College of Engineering.

2002-2003 Dennis Marker Teacher of the Year Award for faculty teaching in the OSU CEM program. Presented by the Oregon State University AGC Student Chapter.

2000-2001 Dennis Marker Teacher of the Year Award for faculty teaching in the OSU CEM program. Presented by the Oregon State University AGC Student Chapter.

1995 American Institute of Constructors' (AIC) Student Essay Contest, second place:
Gambatese, J.A. and Pulick, M.L. (1996), "Future Information Highway Technologies in the Construction Industry."

Outstanding Tutor of the Year Award, Athletic Study Center, University of California at Berkeley, 1990.

AREAS OF EXPERTISE

- Construction worker safety and health, Prevention through Design
- Work zone design, work zone safety
- Construction risk and reward
- Construction engineering, temporary construction structures
- Constructability, design-construction interface
- Sustainability, lifecycle properties of constructed facilities
- Systems analysis and engineering
- Construction innovation

PEER-REVIEWED JOURNAL ARTICLES

Liu, D. and Gambatese, J. (2019). "Construction Process Quantification Model (CPQM) to Evaluate Construction Industrialization Rate (CIR): Model Creation, Validation, and Application." *Journal of Construction Engineering and Management*, ASCE. (Submitted for review Nov. 2019)

Azeez, M., Gambatese, J., and Hernandez, S. (2019). "Construction Safety Risk and Occupational Reward Perception: From Unknown to Understood." *Journal of Construction Engineering and Management*, ASCE. (Submitted for review Sept. 2019)

Nabi, M.A., El-adaway, I.H., Fayek, S., Howell, C. and Gambatese, J. (2019). "Contractual Guidelines for Construction Safety-Related Issues Under Design-Build Standard Forms of Contract." *Journal of Construction Engineering and Management*, ASCE. (Submitted for review Aug. 2019)

Jin, Z. and Gambatese, J. (2019). "Exploring the Potential of Technological Innovations for Temporary Structures: A Survey Study." *Journal of Construction Engineering and Management*, ASCE. (Accepted for publication Nov. 2019)

Liu, D. and Gambatese, J. (2019). "Construction Worker and Equipment Energy Consumption for Off-site Precast Concrete." *Practice Periodical on Structural Design and Construction*, ASCE. (Accepted for publication Oct. 2019)

Nnaji, C., Gambatese, J., Lee, H.W., and Zhang, F. (2019). "Improving Construction Work Zone Safety Using Technology: A Systematic Review of Applicable Technologies." *Journal of Traffic and Transportation Engineering*, Elsevier. (Accepted for publication Nov. 2019)

- Nnaji, C., Lee, H.W., Gambatese, J.A., Karakhan, A.A. (2019). "Evaluation Protocol for Construction Worker-Centric Work Zone Safety Technologies." *International Journal of Civil Engineering*, Springer. (Submitted for review April 2019)
- Nnaji, C., Gambatese, J., Karakhan, A., and Osei-Kyei, R. (2019). "Development and Application of Safety Technology Adoption Decision-making Tool." *Journal of Construction Engineering and Management*, ASCE. (Accepted for publication Oct. 2019)
- Nnaji, C., Jafarnejad, A., and Gambatese, J. (2019). "Effects of Wearable Light Systems on Safety of Highway Construction Workers." *Practice Periodical on Structural Design and Construction*, ASCE. (Accepted for publication Oct. 2019)
- Ho, C., Lee, H.W., and Gambatese, J. (2019). "Application of Prevention through Design (PtD) to Improve the Safety of Solar Installations on Small Buildings." *Safety Science*, Elsevier. (Submitted for review March 2019)
- Karakhan, A., Gambatese, J., and Simmons, D. (2019). "Development of Assessment Tool for Workforce Sustainability." *Journal of Construction Engineering and Management*, ASCE. (Accepted for publication Sept. 2019)

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1. Liu, D., Jin, Z., and Gambatese, J. (2019). "Scenarios for Integrating IPS-IMU System with BIM Technology in Construction Safety Control" (Case Study). *Practice Periodical on Structural Design and Construction*, ASCE, 25(1), 05019007, DOI: 10.1061/(ASCE)SC.1943-5576.0000465.
 2. Nnaji, C., Gambatese, J., Karakhan, A., and Eseonu, C. (2019). "Influential Safety Technology Adoption Predictors in Construction." *Engineering, Construction and Architectural Management*, Emerald Insight, <http://doi.org/10.1108/ECAM-09-2018-0381>.
 3. Fischer, E.C., Gambatese, J., and Shephard, A.B. (2019). "Holistic Approach to Resilience of Steel-frame Construction in Fire." *Practice Periodical on Structural Design and Construction*, ASCE, 24(4), 04019020.
 4. Jin, Z., Gambatese, J., Liu, D., and Dharmapalan, V. (2019). "Using 4D BIM to Assess Construction Risks during the Design Phase." *Engineering, Construction and Architectural Management*, Emerald Insight, <http://doi.org/10.1108/ECAM-09-2018-0379>.
 5. Azeez, M., Gambatese, J., and Hernandez, S. (2019). "What Do Construction Workers Really Want? A Study about Representation, Importance, and Perception of US Occupational Rewards." *Journal of Construction Engineering and Management*, ASCE, 145(7), 04019040.
 6. AlOmari, K., Gambatese, J., and Tymvios, N. (2018). "Risk Perception Comparison among Construction Safety Professionals: Delphi Perspective." *Journal of Construction Engineering and Management*, ASCE, 144(12), 04018107.
 7. Liu, D. and Gambatese, J. (2018). "Student Education and Training Needs for Safety in Roadway Engineering Field Work." *Journal of Professional Issues in Engineering Education and Practice*, ASCE, 144(4), 04018012, DOI: 10.1061/(ASCE)EI.1943-5541.0000394.
 8. Lee, H.W., Harapanahalli, B.A., Nnaji, C., Kim, J., and Gambatese, J. (2018). "Feasibility of Using QR Codes in Highway Construction Document Management." *Transportation Research Record*, Journal of the Transportation Research Board of the National Academies, Washington, D.C., June 2018, DOI: 10.1177/0361198118776133.
 9. Karakhan, A., Rajendran, S., Gambatese, J., and Nnaji, C. (2018). "Measuring and Evaluating Safety Maturity of Construction Contractors: Multicriteria Decision-Making Approach." *Journal of Construction Engineering and Management*, ASCE, 144(7), 04018054.

10. Nnaji, C., Gambatese, J., and Lee, H.W. (2018). "Work Zone Intrusion Technology to Reduce Injuries & Fatalities" *Professional Safety*, Journal of the American Society of Safety Engineers (ASSE), 63(4), 36-41, April 2018 (ASSE Doc. ID #ASSE-18-04-36).
11. Nnaji, C., Lee, H.W., Karakhan, A., and Gambatese, J. (2018). "Developing a Decision-Making Framework to Select Safety Technologies for Highway Construction." *Journal of Construction Engineering and Management*, ASCE, 144(4), 04018016.
12. Karakhan, A. and Gambatese, J. (2018). "Hazards and Risk in Construction and the Impact of Incentives and Rewards on Safety Outcomes." *Practice Periodical on Structural Design and Construction*, ASCE, 23(2), 04018005.
13. Gambatese, J., Gibb, A., Bust, P., and Behm, M. (2017). "Expanding Prevention through Design (PtD) in practice: innovation, change, and a path forward." *Journal of Construction Project Management and Innovation*, SA ePublications, 7(2), 1995-2006, Dec. 2017, http://journals.co.za/content/journal/jcpmi_v7_n2. (Selected papers from the *Proceedings of the Joint CIB W099 and TG59 International Safety, Health, and People in Construction Conference*, sponsored by Nelson Mandela Metropolitan University and Central University of Technology, Free State, Cape Town, South Africa, June 11-13, 2017.)
14. Karakhan, A.A. and Gambatese, J.A. (2017). "Safety Innovation and Integration in High-Performance Designs: Benefits, Motivations, and Obstacles." Special collection on construction safety, *Practice Periodical on Structural Design and Construction*, ASCE, 22(4), 04017018, DOI: 10.1061/(ASCE)SC.1943-5576.0000338. (Invited)
15. Karakhan, A.A. and Gambatese, J.A. (2017). "Integrating Worker Health and Safety into Sustainable Design and Construction: Designer and Constructor Perspectives." *Journal of Construction Engineering and Management*, ASCE, 143(9), 04017069, DOI: 10.1061/(ASCE)CO.1943-7862.0001379.
16. Gambatese, J.A., Gibb, A.G., Brace, C., and Tymvios, N. (2017). "Motivation for Prevention through Design: Experiential Perspectives and Practice." Special collection on construction safety, *Practice Periodical on Structural Design and Construction*, ASCE, 22(4), 04017017, DOI: 10.1061/(ASCE)SC.1943-5576.0000335. (Invited)
17. Zhang, F. and Gambatese, J.A. (2017). "Highway Construction Work-Zone Safety: Effectiveness of Traffic-Control Devices." Special collection on construction safety, *Practice Periodical on Structural Design and Construction*, ASCE, 22(4), 04017010, DOI: 10.1061/(ASCE)SC.1943-5576.0000327. (Invited)
18. Jafarnejad A., Gambatese, J., and Hernandez, S. (2017). "Influence of Truck-mounted Radar Speed Signs in Controlling Vehicle Speed for Mobile Maintenance Operations: Oregon Case Study." *Transportation Research Record*, Journal of the Transportation Research Board of the National Academies, Washington, D.C., No. 2617, pg. 19-26, DOI: 10.3141/2617-03.
19. Alexander, D., Hallowell, M., and Gambatese, J. (2017). "Precursors of Construction Fatalities II: Predictive Modeling and Empirical Validation." *Journal of Construction Engineering and Management*, ASCE, 143(7), 04017024, DOI: 10.1061/(ASCE)CO.1943-7862.0001297.
20. Alexander, D., Hallowell, M., and Gambatese, J. (2017). "Precursors of Construction Fatalities I: Iterative Experiment to Test the Predictive Validity of Human Judgment." *Journal of Construction Engineering and Management*, ASCE, 143(7), 04017023, DOI: 10.1061/(ASCE)CO.1943-7862.0001304.
21. Gambatese, J.A., Toole, T.M., and Abowitz, D.A. (2017). "Owner Perceptions of Barriers to Prevention through Design Diffusion." *Journal of Construction Engineering and Management*, ASCE, 143(7), 04017016, DOI: 10.1061/(ASCE)CO.1943-7862.0001296.

22. Karakhan, A. and Gambatese, J. (2017). "Identification, Quantification, and Classification of Potential Safety Risk for Sustainable Construction in the United States." *Journal of Construction Engineering and Management*, ASCE, 143(7), 04017018, DOI: 10.1061/(ASCE)CO.1943-7862.0001302.
23. AlOmari, K., Gambatese, J., and Anderson, J. (2017). "Opportunities for Using Building Information Modeling to Improve Worker Safety Performance." *Safety*, Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland, 3(7), DOI: 10.3390/safety3010007.
24. Hallowell, M.R., Alexander, D., and Gambatese, J.A. (2017). "Energy-based Safety Risk Assessment: Does Magnitude and Intensity of Energy Predict Injury Severity?" *Construction Management and Economics*, Routledge, 35(1-2), 64-77, DOI: 10.1080/01446193.2016.1274418.
25. Jeelani, I., Albert, A., and Gambatese, J.A. (2016). "Why Do Construction Hazards Remain Unrecognized at the Work Interface?" *Journal of Construction Engineering and Management*, ASCE, 143(5), 04016128, DOI: 10.1061/(ASCE)CO.1943-7862.0001274.
26. Gambatese, J. and Zhang, F. (2016). "Impact of Advisory Signs on Vehicle Speeds in Highway Nighttime Paving Project Work Zones." *Transportation Research Record*, Journal of the Transportation Research Board of the National Academies, Washington, D.C., No. 2555, pp. 65-71, DOI: 10.3141/2555-08.
27. Gambatese, J.A., Pestana, C., and Lee, H.W. (2016). "Alignment between Lean Principles and Practices and Worker Safety Behavior." *Journal of Construction Engineering and Management*, ASCE, 143(1), DOI: 10.1061/(ASCE)CO.1943-7862.0001209.
28. Toole, T.M., Gambatese, J.A., and Abowitz, D.A. (2016). "Owners' Role in Facilitating Prevention through Design." *Journal of Professional Issues in Engineering Education and Practice*, ASCE, 143(1), 04016012, DOI: 10.1061/(ASCE)IE.1943-5541.0000295.
29. Tymvios, N. and Gambatese, J.A. (2016). "Direction for Generating Interest for Design for Construction Worker Safety – A Delphi Study." *Journal of Construction Engineering and Management*, ASCE, 142(8), 04016024, DOI: 10.1061/(ASCE)CO.1943-7862.0001134.
30. Gambatese, J. and AlOmari, K. (2016). "Degrees of connectivity: Systems model for upstream risk assessment and mitigation." Special Issue on Systems Thinking in Construction, *Accident Analysis & Prevention*, Elsevier, 93, 251-259, DOI: 10.1016/j.aap.2015.12.020.
31. Tymvios, N. and Gambatese, J.A. (2015). "Perceptions about Design for Construction Worker Safety: Viewpoints from Contractors, Designers, and University Facility Owners." *Journal of Construction Engineering and Management*, ASCE, 142(2), 04015078, DOI: 10.1061/(ASCE)CO.1943-7862.0001067.
32. Dharmapalan, V., Gambatese, J.A., Fradella, J., and Vahed, A.M. (2015). "Quantification and Assessment of Safety Risk in the Design of Multistory Buildings." *Journal of Construction Engineering and Management*, ASCE, 141(4), 04014090, DOI: 10.1061/(ASCE)CO.1943-7862.0000952.
33. Gambatese, J. and Johnson, M. (2014). "Impact of Design and Construction on Quality, Consistency, and Safety of Traffic Control Plans." *Transportation Research Record*, Journal of the Transportation Research Board of the National Academies, Washington, D.C., No. 2458, pp. 47-55, DOI: 10.3141/2458-06.
34. Lee, H.W., Choi, K., and Gambatese, J.A. (2014). "Real Options Valuation of Phased Investments in Commercial Energy Retrofits under Building Performance Risks." *Journal of Construction Engineering and Management*, ASCE, 140(6), 05014004.

35. Lopez-Arquillos, A., Rubio-Romero, J.C., Gibb, A., and Gambatese, J.A. (2013). "Safety Risk Assessment for Vertical Concrete Formwork Activities in Civil Engineering Construction." *Work: A Journal of Prevention, Assessment and Rehabilitation*, IOS Press, 49(2), 183-192, Sept. 2013.
36. Rajendran, S. and Gambatese, J.A. (2013). "Risk and Financial Impacts of Prevention through Design Solutions." *Practice Periodical on Structural Design and Construction*, ASCE, 18(1), 67-72.
37. Gambatese, J., Hallowell, M., Renshaw, F., Quinn, M., and Heckel, P. (2013). "Prevention through Design: Research – The Power of Collaboration." *Professional Safety*, Journal of the American Society of Safety Engineers (ASSE), 58(1), 48-54.
38. Gambatese, J.A. and Tymvios, N. (2012). "LEED Credits: How They Affect Construction Worker Safety." *Professional Safety*, Journal of the American Society of Safety Engineers (ASSE), 57(10), 42-52.
39. Gambatese, J.A. and Rajendran, S. (2012). "Flagger Illumination during Nighttime Construction and Maintenance Operations." *Journal of Construction Engineering and Management*, ASCE, 138(2), 250-257.
40. Gambatese, J.A. and Rajendran, S. (2011). "Assessment of Nighttime Flagger-Illumination Practices." *Practice Periodical on Structural Design and Construction*, ASCE, 16(3), 95-105.
41. Gambatese, J.A. and Hallowell, M. (2011). "Enabling and Measuring Innovation in the Construction Industry." *Construction Management and Economics*, Taylor & Francis, Routledge, 29(6), 553-567.
42. Gambatese, J.A. and Hallowell, M. (2011). "Factors that Influence the Development and Diffusion of Technical Innovations in the Construction Industry." *Construction Management and Economics*, Taylor & Francis, Routledge, 29(5), 507-517.
43. Hallowell, M.R. and Gambatese, J.A. (2010). "Population and Initial Validation of a Formal Model for Construction Safety Risk Management." *Journal of Construction Engineering and Management*, ASCE, 136(9), 981-990.
44. Hallowell, M.R. and Gambatese, J.A. (2009). "Qualitative Research: Application of the Delphi Method to CEM Research." Special Issue: Research Methodologies in Construction Engineering and Management, *Journal of Construction Engineering and Management*, ASCE, 136(1), 99-107.
45. Hallowell, M.R. and Gambatese, J.A. (2009). "Construction Safety Risk Mitigation." *Journal of Construction Engineering and Management*, ASCE, 135(12), 1316-1323.
46. Hallowell, M.R. and Gambatese, J.A. (2009). "Activity-Based Safety Risk Quantification for Concrete Formwork Construction." *Journal of Construction Engineering and Management*, ASCE, 135(10), 990-998.
47. Rajendran, S., and Gambatese, J.A. (2009). "Development and Initial Validation of Sustainable Construction Safety and Health Rating System." *Journal of Construction Engineering and Management*, ASCE, 135(10), 1067-1075.
48. Rajendran, S., Gambatese, J.A., and Behm, M.G. (2009). "Impact of Green Building Design and Construction on Worker Safety and Health." *Journal of Construction Engineering and Management*, ASCE, 135(10), 1058-1066.
49. Gambatese, J.A., Behm, M., and Rajendran, S. (2008). "Design's Role in Construction Accident Causality and Prevention: Perspectives from an Expert Panel." *Safety Science*, Special issue for selected papers from the CIB W99 *International Conference on Global Unity for Safety & Health in Construction*, Beijing, China, June 28-30, 2006. Elsevier, 46, 675-691.
50. Toole, T.M. and Gambatese, J.A. (2008). "The Trajectories of Prevention through Design in Construction." *Journal of Safety Research*, Special issue on Prevention through Design, Elsevier and the National Safety Council, 39, 225-230.

51. Gambatese, J.A. (2008). "Research Issues in Prevention through Design." *Journal of Safety Research*, Special Issue on Prevention through Design, Elsevier and the National Safety Council, 39(2), 153-156.
52. Gambatese, J.A., Rajendran, S., and Behm, M.G. (2007). "Green Design & Construction: Understanding the Effects on Construction Worker Safety and Health." *Professional Safety*, Journal of the American Society of Safety Engineers (ASSE), 52(5), 28-35.
53. Rajendran, S. and Gambatese, J.A. (2007). "Solid Waste Generation in Asphalt and Reinforced Concrete Roadway Life Cycles." *Journal of Infrastructure Systems*, ASCE, 13(2), 88-96.
54. Gambatese, J.A. (2006). "Current Practice for Illuminating Flaggers during Nighttime Roadway Construction Operations." Special Issue on "Best Practices for Construction Safety", Ed.: Hinze, J., *International e-Journal of Construction*, University of Florida, M.E. Rinker School of Building Construction, March 2006.
55. Pocock, J.B., Kuennen, S.T., Gambatese, J., and Rauschkolb, J. (2006). "Constructability State of Practice Report." *Journal of Construction Engineering and Management*, ASCE, 132(4), 373-383.
56. Weinstein, M., Gambatese, J., and Hecker, S. (2005). "Can Design Improve Construction Safety: Assessing the Impact of a Collaborative Safety-in-Design Process." *Journal of Construction Engineering and Management*, ASCE, 131(10), 1125-1134.
57. Hecker, S., Gambatese, J., and Weinstein, M. (2005). "Designing for Worker Safety: Moving the Construction Safety Process Upstream." *Professional Safety*, Journal of the American Society of Safety Engineers (ASSE), 50(9), 32-44.
58. Gambatese, J., Behm, M., and Hinze, J. (2005). "Viability of Designing for Construction Worker Safety." *Journal of Construction Engineering and Management*, ASCE, 131(9), 1029-1036.
59. Dunston, P.S., Gambatese, J.A., and McManus, J.F. (2005). "Assessing State Transportation Agency Constructibility Implementation." *Journal of Construction Engineering and Management*, ASCE, 131(5), 569-578.
60. Zapata, P. and Gambatese, J.A. (2005). "Energy Consumption of Asphalt and Reinforced Concrete Pavement Materials and Construction." *Journal of Infrastructure Systems*, Special Issue: Sustainability of Transportation and Other Infrastructure Systems, ASCE, 11(1), 9-20.
61. Gambatese, J.A. (2003). "Safety Emphasis in University Engineering and Construction Programs." Special Issue on "Construction Safety Education and Training – A Global Perspective", Ed.: Hinze, J., *International e-Journal of Construction*, University of Florida, M.E. Rinker School of Building Construction, May 2003.
62. Hecker, S. and Gambatese, J. (2003). "Safety in Design: A Proactive Approach to Construction Safety and Health." *Applied Occupational and Environmental Hygiene*, American Industrial Hygiene Association (AIHA) and American Conference of Governmental Industrial Hygienists (ACGIH), 18(5), 339-342.
63. Borg, R.F., Gambatese, J.A., Haines, K., Hendrickson, C., Hinze, J., Horvath, A., Koehn, E., Moritz, S., Mass, M., and Haughney, R.A. (2003). "Rebuilding the World Trade Center." *Practice Periodical on Structural Design and Construction*, ASCE, 8(3), 137-145.
64. Hinze, J.W. and Gambatese, J.A. (2003). "Factors that Influence the Safety Performance of Specialty Contractors." *Journal of Construction Engineering and Management*, ASCE, 129(2), 159-164.
65. Gambatese, J.A. (2003). "Controlled Concrete Demolition Using Expansive Cracking Agents." *Journal of Construction Engineering and Management*, ASCE, 129(1), 98-104.
66. Toole, T.M. and Gambatese, J.A. (2002). "Primer on Federal Occupational Safety and Health Administration Standards." *Practice Periodical on Structural Design and Construction*, ASCE, 7(2), 56-60.

67. Gambatese, J.A. and James, D.E. (2001). "Dust Suppression Using a Truck-Mounted Water Spray System." *Journal of Construction Engineering and Management*, ASCE, 127(1), 53-59.
68. Gambatese, J.A. and Hinze, J.W. (2001). "Computer-Assisted Safety Training to Evaluate Construction Site Hazards." *International Journal of Computer-Integrated Design and Construction (CIDAC)*, SETO, London, England, 3(1), 42-51.
69. Gambatese, J.A. and Hinze, J.W. (2000). "Computer Software for Construction Practice and Education." *The American Professional Constructor*, Journal of the American Institute of Constructors, (AIC), 24(1), 6-11.
70. Gambatese, J.A. and Hinze, J.W. (1999). "Addressing Construction Worker Safety in the Design Phase: Designing for Construction Worker Safety." *Automation in Construction*, Elsevier Science B.V., Amsterdam, The Netherlands, 8(6), 643-649.
71. Gambatese, J.A. (1998). "Liability in Designing for Construction Worker Safety." *Journal of Architectural Engineering*, ASCE, 4(3), 107-112.
72. Gambatese, J.A. and McManus, J.F. (1997). "Constructability: A Quality Improvement Approach to Transportation Projects." *Transportation Research Record*, Journal of the Transportation Research Board of the National Academies, Washington, D.C., No. 1575, 116-120.
73. Gambatese, J.A., Hinze, J.W., and Haas, C.T. (1997). "Tool to Design for Construction Worker Safety." *Journal of Architectural Engineering*, ASCE, 3(1), 32-41.
74. Gambatese, J.A. and Pulick, M.L. (1996). "Future Information Highway Technologies in the Construction Industry." *The American Professional Constructor*, Journal of the American Institute of Constructors (AIC), 20(1), 12-17.

PEER-REVIEWED CONFERENCE PROCEEDINGS

1. In *Proceedings of the CSCE 2019 Annual Conference*, Canadian Society for Civil Engineering (CSCE), Laval, Quebec, Canada, June 12-15, 2019:
 - a. AlOmari, K., Gambatese, J., and Al-bayati, A.J. (2019). "Exponential Random Graph Modeling: A Promising Tool for Construction Safety Research."
 - b. AlOmari, K., Gambatese, J., Gerkey, D., and Al-bayati, A.J. (2019). "Analyzing Hazardous Interactions on Construction Jobsites Using Social Network Analysis."
 - c. Azeez, M., Gambatese, J., and Liu, D. (2019). "Comparison of Job Cognitive and Physical Demands in Different Industries for Implications on Safety Outcomes."
 - d. Jin, Z. and Gambatese, J. (2019). "BIM for Temporary Structures: Development of a Revit API Plug-in for Concrete Formwork."
 - e. Tymvios, N. and Gambatese, J. (2019). "Benefit/Cost Model for Evaluating Prevention through Design (PtD) Solutions."
 - f. Zhang, F. and Gambatese, J. (2019). "Introducing the Concept of Foundational Attributes of Construction Projects."
2. In *Proceedings of the Joint CIB W099 and TG59 International Safety, Health, and People in Construction Conference*, International Council for Research and Innovation in Building and Construction (CIB), Salvador, Brazil, Aug. 1-3, 2018:
 - a. Liu, D., Gambatese, J., and Jin, Z. (2018). "Construction Safety Training Methods and Effectiveness for Non-Native Workers."
 - b. Jin, Z., Gambatese, J., Liu, D., and Dharmapalan, V. (2018). "Risk Assessment in Four-Dimensional Building Information Modeling for Multistory Buildings."

- c. Nnaji, C., Gambatese, J., and Karakhan, A. (2018). "Predictors of Safety Technology Adoption in Construction."
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 - a. Karakhan, A., Gambatese, J., AlOmari, K., and Liu, D. (2018). "Consideration of Worker Safety in the Design Process: A Statistical-based Approach Using Analysis of Variance (ANOVA)."
 - b. Karakhan, A., Rajendran, S., and Gambatese, J. (2018). "Validation of Time-Safety Influence Curve Using Empirical Safety and Injury Data."
 - c. Jin, Z. and Gambatese, J. (2018). "Temporary Construction Signage: Driver Preferences for Work Zone Safety."
 - d. Liu, D. and Gambatese, J. (2018). "Energy Consumption by Construction Workers for On-site Activities."
 - e. Azeez, M. and Gambatese, J. (2018). "Using the Risk Target Concept to Investigate Construction Workers' Potential Biases in Assigning/Assuming Safety Risk."
 - f. Azeez, M. and Gambatese, J. (2018). "Applications of Resilience Systems in Construction Safety."
 - g. Nnaji, C., Gambatese, J.A., and Eseonu, C. (2018). "Theoretical Framework for Improving the Adoption of Safety Technology in the Construction Industry."
 - h. Ho, C., Lee, H.W., and Gambatese, J.A. (2018). "Improving Safety in Solar Energy System Installations through Prevention through Design."
 - i. Jafarnejad, A., Gambatese, J., and Nnaji, C. (2018). "Illumination and Visibility of Workers in Nighttime Highway Work Zones."
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 - a. Gambatese, J., Gibb, A., Bust, P., and Behm, M. (2017). "Expanding Prevention through Design (PtD) in Practice: Innovation, Change, and a Path Forward."
 - b. Toole, T.M. and Gambatese, J. (2017). "Levels of Implementation of Prevention through Design in the United States."
 - c. Gambatese, J., Nnaji, C., and Christianson, C.R. (2017). "Contracting for Prevention through Design (PtD): A Case Study."
 - d. Nnaji, C., Gambatese, J., Awolusi, I., and Oyeyipo, O. (2017). "Construction Safety Innovation Awareness and Adoption in Nigeria: A Mixed Method Approach."
 5. Karakhan, A., Gambatese, J., and Rajendran, S. (2016). "Application of Choosing by Advantages Decision-making System to Select Fall Protection Measures." *International Group for Lean Construction (IGLC) 24th Annual Conference*, Boston, MA, July 20-22, 2016.
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 - a. AlOmari, K., Gambatese, J., and Olsen, M.J. (2016). "Role of BIM and 3D Laser Scanning on Jobsites from the Perspective of Construction Project Management Personnel."
 - b. AlOmari, K. and Gambatese, J.A. (2016). "Degrees of Connectivity Impact on Construction Worker Safety."
 - c. Nnaji, C. and Gambatese, J.A. (2016). "Worker Distraction Impacts on Safety and Work Quality: An Energy Component."
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- e. Vahed, A.M., Gambatese, J.A., and Hendricks, M.T. (2016). "Perceptions of the Influence of Personal and Demographic Factors on Safety Performance of Field Employees."
- f. Zhang, F. and Gambatese, J.A. (2016). "Impacts of Construction Work Zone Equipment and Operations on Vehicle Speeds."
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 - b. Gambatese, J.A., Behm, M., and Hinze, J.W., "Pilot Study of the Viability of Designing for Construction Worker Safety," 22-43.
 - c. Gambatese, J.A., "An Overview of Design-for-Safety Tools and Technologies," 109-117.
 - d. Hecker, S., Gambatese, J., and Weinstein, M., "Life Cycle Safety: An Intervention to Improve Construction Worker Safety and Health Through Design," 212-241.
 - e. Weinstein, M., Gambatese, J., and Hecker, S., "Outcomes of a Design-for-Safety Process: A Case Study of a Large Capital Project," 242-263.
 - f. Hecker, S., Gambatese, J., and Weinstein, M., "The Way Forward for Design for Construction Safety and Health: Industry Perspectives," 301-307.
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1. In *Constructability Concepts and Practice*, Gambatese, J.A., Pocock, J.B., and Dunston, P.S., Editors (2007), ASCE, Construction Institute, Reston, VA (book composed of selected research-based, peer-reviewed papers):
 - a. Gambatese, J.A., "Foreword and Acknowledgments."
 - b. Gambatese, J.A., Dunston, P.S., and Pocock, J.B., "Introduction."
 - c. Gambatese, J.A. and Dunston, P.S., "Constructability as a Lifecycle Property."
 - d. Dunston, P.S., Gambatese, J.A., and McManus, J.F., "A Cost and Benefit Model for Constructability Review Implementation."
 - e. Gambatese, J.A., Dunston, P.S., and Pocock, J.B., "The Way Forward: Recommendations for Future Constructability Research and Practice."

CONFERENCE PROCEEDINGS (NON-PEER-REVIEWED)

1. Jin, Z., Gambatese, J., and Olsen, M. (2019). "Investigation of Sign Placement Quality in Construction Work Zones." *98th Annual Meeting of the Transportation Research Board (TRB)*, Washington, D.C., Jan. 13-17, 2019.
2. Jafarnejad, A., Gambatese, J., and Hernandez, S. (2018). "Impact of Temporary Portable Work Zone and Personal Lighting on Vehicle Speeds in Nighttime Highway Preservation Projects." *97th Annual Meeting of the Transportation Research Board (TRB)*, Washington, D.C., Jan. 7-11, 2018.
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5. Jafarnejad A., Gambatese, J., and Hernandez, S. (2017). "Influence of Truck-mounted Radar Speed Signs in Controlling Vehicle Speed for Mobile Maintenance Operation." *96th Annual Meeting of the Transportation Research Board (TRB)*, Washington, D.C., Jan. 8-12, 2017.
6. Gambatese, J.A. and Zhang, F. (2016). "Impact of Advisory Signs on Vehicle Speeds in Highway Nighttime Paving Project Work Zones." *95th Annual Meeting of the Transportation Research Board (TRB)*, Washington, D.C., Jan. 10-14, 2016.
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12. Gambatese, J.A. and Mroszczyk, J.W. (2006). "Designing for Construction Worker Safety." *Proceedings of the ASSE Professional Development Conference*, Seattle, WA, June 11-14, 2006.
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Invited Publications:

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2. Toole, T.M. and Gambatese, J.A. (2014). "Prevention through Design: A Path to Social Sustainability." *Owner's Perspective*, Construction Owners Association of America (COAA), Fall/Winter 2014, pp. 22-25, and on-line at <http://www.ownersperspective.org/item/470-prevention-through-design-a-path-to-social-sustainability/470-prevention-through-design-a-path-to-social-sustainability>, Sept. 11, 2014.
3. Gambatese, J. (2014). On-line Education Course Topics, Construction Industry Institute (CII), <http://www.construction-institute.org/kd/ole/olecourses.cfm?section=ole>:
 - a. "Introduction to Construction Safety: Part I"
 - b. "Introduction to Construction Safety: Part II"
 - c. "Design for Construction Safety"
 - d. "Making Zero Accidents a Reality"
 - e. "Making Zero Accidents a Reality: Shutdowns, Turnarounds, and Outages"
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10. Gambatese, J.A. (1998). "Construction Safety Liability in the Design Phase." *Construction Safety News*, Construction Safety Council, 9(1), 6-9.
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Research Reports:

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2. Gambatese, J., Hurwitz, D., Ahmed, A., and Mohammed, H.A. (2019). "Use of Blue Lights on Paving Equipment in Work Zones," Final Report, ODOT Order No. 19-03, Oregon Department of Transportation (ODOT), March 2019, <http://www.oregon.gov/ODOT/Programs/ResearchDocuments/ODOT19-03BlueLights.pdf>.
3. Gambatese, J.A., Karakhan, A.A., and Simmons, D.R. (2019). "Development of a Workforce Sustainability Model for Construction," Final Report, Small Study No. 17-8-PS, Center for Construction Research and Training (CPWR), January 2019, <http://www.cpwr.com/sites/default/files/publications/SS2019-workforce-sustainability-model-development.pdf>.
4. Eseonu, C., Gambatese, J., and Nnaji, C. (2018). "Reducing Highway Construction Fatalities through Improved Adoption of Safety Technologies," Final Report, Small Study No. 17-4-PS, Center for Construction Research and Training (CPWR), March 2018, <http://www.cpwr.com/sites/default/files/publications/Eseonu-reducing-highway-fatalities.pdf>.
5. Gambatese, J.A. and Jafarnejad, A. (2018). "Use of Additional Lighting for Traffic Control and Speed Reduction in Work Zones," Final Report, SPR 791, Oregon Department of Transportation (ODOT) and U.S. Department of Transportation, Federal Highway Administration (FHWA), Feb. 2018, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/SPR791_AdditionalWorkzoneLighting.pdf.
6. Gambatese, J.A. and Liu, D. (2018). "Student Work Safety Guidelines in Roadside Applications and Work Zones: Safety Guidelines for Transportation Researchers," Final Report, SPR 304-731, Oregon Department of Transportation (ODOT) and U.S. Department of Transportation, Federal Highway Administration (FHWA), Jan. 2018, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/304-731_Student_Safety_Guidelines.pdf.

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10. Hallowell, M., Gambatese, J., Alexander, D., Slintak, G., and Barry, J. (2016). "RS321-1 - Precursors of High-Impact, Low-Frequency Events, Including Fatalities." Construction Industry Institute (CII), Austin, TX, Nov. 2016, <http://www.construction-institute.org/resources/knowledgebase/knowledge-areas/using-precursor-analysis-to-prevent-low-frequency-high-impact-events,-including-fatalities/topics/rt-321/pubs/rs321-1>.
11. Gambatese, J.A. and Jafarnejad, A. (2015). "Evaluation of Radar Speed Display for Mobile Maintenance Operations," Final Report #OR-RD-16-09. Oregon Department of Transportation (ODOT), Dec. 2015, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/RSS_Final_Report_OR_RD_16_09.pdf.
12. Gambatese, J.A. and Zhang, F. (2015). "Safe and Effective Speed Reductions for Freeway Work Zones Phase 3," Final Report, Implementation Research. Oregon Department of Transportation (ODOT), Feb. 2015, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/SPR302_SpeedReduction_Phase3.pdf.
13. Gambatese, J. and Pestana, C. (2014). "Connection between Lean Design/Construction and Construction Worker Safety," Final Report, Small Study #13-10-PS. The Center for Construction Research and Training (CPWR), Dec. 2014, <http://www.cpwr.com/sites/default/files/publications/GambateseLeanandSafetyFinalReport%201.pdf>.
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15. Gambatese, J.A. and Zhang, F. (2014). "Safe and Effective Speed Reductions for Freeway Work Zones Phase 2," Final Report, SPR 769. Oregon Department of Transportation (ODOT) and U.S. Department of Transportation, Federal Highway Administration (FHWA), Sept. 2014, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/SPR769_HighSpeed_Final.pdf.
16. Gambatese, J.A. and Tymvios, N. (2013). "Evaluation of a Mobile Work Zone Barrier System," Final Report, SPR 746. Oregon Department of Transportation (ODOT) and U.S. Department of Transportation, Federal Highway Administration (FHWA), Aug. 2013, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/SPR746_MobileBarriers.pdf.

17. Gambatese, J.A. (2013). "Final Report – Activity 2: Assess the Effects of PtD Regulations on Construction Companies in the UK." National Institute for Occupational Safety and Health (NIOSH), Education and Information Division, May 2013.
18. Gambatese, J.A., Zhang, F., and Vahed, A.M. (2013). "Implementing Speed Reductions at Specific Interstate Work Zones from 65 mph to 35 mph," Final Report, SPR 751. Oregon Department of Transportation (ODOT) and U.S. Department of Transportation, Federal Highway Administration (FHWA), Feb. 2013, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/SPR751_SpeedReductions.pdf.
19. Toole, T.M., Gambatese, J.A., and Abowitz, D.A. (2012). "Owners' Role in Facilitating Designing for Construction Safety," Final Research Report. The Center for Construction Research and Training, Jan. 2012, http://www.cpwr.com/sites/default/files/publications/Owners_Role_in_Facilitating_DfCS_Report.pdf.
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21. Gambatese, J.A. (2008). "Energizing Innovation in Integrated Project Delivery," Charles Pankow Foundation (CPF) and Design-Build Institute of America (DBIA), March 2008, <http://www.pankowfoundation.org/grants.cfm?research=1>.
 - a. Research Summary
 - b. Final Research Report
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 - d. Annotated Bibliography
22. Gambatese, J.A. (2005). "Optimum Illumination for Nighttime Flagger Operations," Final Report, SPR 617. Oregon Department of Transportation (ODOT) and U.S. Department of Transportation, Federal Highway Administration (FHWA), Report No. FHWA-OR-RD-06-05, August 2005, http://www.oregon.gov/ODOT/TD/TP_RES/docs/reports/optimum.pdf.
23. Gambatese, J.A., Hinze, J., and Behm, M. (2005). "Investigation of the Viability of Designing for Safety," Research Report. The Center to Protect Workers' Rights (CPWR), Silver Spring, MD, May 16, 2005, http://www.cpwr.com/pdfs/pubs/research_pubs/krgambatese.pdf.
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26. Dunston, P.S., McManus, J.F., and Gambatese, J.A. (2002). "Cost/Benefits of Constructibility Reviews," Research summary brochure, Research Project 20-7, Task 124. National Cooperative Highway Research Program (NCHRP), National Academies of Science (NAS), Washington, DC, <http://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=1466>.
27. Opfer, N., Son, J., and Gambatese, J. (2000). "Project Labor Agreements Research Study," Final Report. Associated Builders & Contractors – Southern Nevada and Associated Builders & Contractors – National, Dec. 2000.

28. Gambatese, J. and Woyton, J.P. (2000). "Using Soundless Chemical Demolition Agents (SCDA's) for Micro-Cracking Concrete," Final Project Report. UNLS New Investigator Award Program, Las Vegas, NV, May 2000.
29. Gambatese, J.A. and James, D.E. (1999). "Development and Evaluation of A System for Suppressing PM₁₀ Emissions Generated from the Operation of Earthmoving Equipment in Construction," Final Project Report. PM₁₀/PM_{2.5} Emissions Control Research Advisory Committee, Clark County Health District, Las Vegas, NV, Oct. 1999.

Other Publications:

1. Gambatese, J. (2019). "Prevention through Design (PtD) in the Project Delivery Process: A PtD Sourcebook for Construction Site Safety," Aug. 2019.
2. Lee, H.W., Gambatese, J., Kim, Y.W., Fardhosseini, M.S., Stuart, J., and Reigelsperger, C. (2019). "Lean and Safety Manual for Electrical Construction." State of Washington, Department of Labor and Industries, Safety and Health Investment Projects (SHIP) Grant Program, June 2019, <http://www.lni.wa.gov/safety-health/grants-committees-partnerships/safety-health-investment-projects-grant-program/ship-grants-2017zh00349>.
3. Rajendran, S., Vahed, A., Gambatese, J., and Zak, D. (2019). "Safe and Innovative Work Best Practices for Mechanical Crafts Booklet." State of Washington, Department of Labor and Industries, Safety and Health Investment Projects (SHIP) Grant Program, Grant No. 2016ZH00312, Feb. 2019, <http://www.cwu.edu/engineering/new-best-practices-booklet-published>.
4. Karakhan, A. and Gambatese, J. (2018). "Creating a Risk Mitigation Plan: Understanding Hazard and Risk in Construction and the Impact of Behavioral Approaches on Safety." *CI Field Report*, ASCE, Sept. 5, 2018.
5. (Contributing author) "Technical Report: Prevention through Design – A Life Cycle Approach to Safety and Health in the Construction Industry," ASSP TR-A10.100-2018. American Society of Safety Professionals (ASSP), Park Ridge, IL, June 2018.
6. Gambatese, J.A. and Liu, D. (2018). "Goal One: A Safe Return Each and Every Day; Safety Guidelines for Transportation Researchers Manual." Oregon Department of Transportation (ODOT) and Federal Highway Administration (FHWA), SPR 304-731, Jan. 2018, http://www.oregon.gov/ODOT/Programs/ResearchDocuments/304-731_Goal_One.pdf.
7. "SliDeRuLE: A New Website to Assess Safety Risk in Design." The OH&S Blog, OHS Online, <http://ohsonline.com/blogs/the-ohs-wire/2013/09/sliderule.aspx>, Sept. 20, 2013.
8. "Sustainable Design & Construction: Incorporating Worker Safety," interview of Rajendran, S. and Gambatese, J. *Professional Safety*, Journal of the American Society of Safety Engineers (ASSE), 56(2), 41-42, Feb. 2011.
9. Behm, M., Lentz, T.J., Heidel, D., and Gambatese, J.A. (2011). "Prevention through Design and Green Buildings: A US Perspective on Collaboration." *Blueprints*, American Society of Safety Engineers (ASSE), 10(2), 28-34. Reprint of paper presented at International Council for Research and Innovation in Building and Construction (CIB) W99 Conference, Melbourne, Australia, Oct. 21-23, 2009.
10. Gambatese, J. (2009). "Don't Leave Safety Out of Sustainability." *Engineering News-Record*, McGraw-Hill, New York, NY, Nov. 18, 2009, <http://enr.construction.com/opinions/viewpoint/2009/1118-SafetyOutofSustainability.asp>.
11. Gambatese, J.A. and Dettwyler, K. (2002). "Oregon Public Contracting Coalition Guide to CM/GC Contracting." Associated General Contractors (AGC) Oregon Columbia Chapter,

Wilsonville, OR, http://www.agc-oregon.org/wp-content/uploads/2011/10/CM_GC_Guide_05.pdf, Feb. 2002.

12. Gambatese, J.A. (2000). "Safety in a Designer's Hands." *Civil Engineering*, ASCE, 70(6), 56-59.
13. Gambatese, J.A. (1999). "Getting to Zero Accidents." *Construction Connection*, Associated General Contractors (AGC), Las Vegas Chapter, 13(8), 29.
14. Gambatese, J.A. (1998). "Construction Education at UNLV." *Nevada Construction and Mining*, Nevada Contractors Association, 4(3), 7.
15. Gambatese, J.A. (1998). "What's New in Safety?" *Nevada Construction and Mining*, Nevada Contractors Association, 4(1), 7-8.
16. Gambatese, J.A. (1998). "Using Computers for Scheduling Construction Projects." *Nevada Construction and Mining*, Nevada Contractors Association, 3(11), 7 and 27.

Websites:

1. "SliDeRule," Safety in Design Risk Evaluator, <http://www.constructionsliderule.org/>.
2. "Sustainable Construction Safety and Health (SCSH) Rating System," <http://sustainable-safety-and-health.org/>.

PROFESSIONAL PRESENTATIONS

Invited Presentations:

International:

1. "Systems Model of Building Construction for Upstream Risk Assessment and Mitigation." Invited presentation at *Systems Thinking in Workplace Safety and Health in Construction: Theory Meets Practice*, 1st International Workshop, hosted by Huazhong University of Science and Technology (HUST), Wuhan, China, Dec. 4-5, 2014.
2. "Owner's Design Requirements for Safety." Invited presentation at *Tsinghua-CURT Conference for Improving Site Safety through Owner's Leadership*, hosted by CURT International Committee Forum and Tsinghua-Gammon Construction Safety Research Center, Tsinghua University, Beijing, China, Dec. 11-12, 2014.
3. "History of Safety and Design for Safety in Construction." Seminar presentation to faculty and students in Tsinghua-Gammon Construction Safety Research Center, Tsinghua University, Beijing, China, Dec. 9, 2014.
4. "Engineering for Construction Safety: A Collaborative Approach to Safety." ExxonMobil Project Engineer's Safety Meeting, St. John's, Newfoundland, Canada, Nov. 26, 2012.
5. "Prevention through Design Concept and Practice." Cátedra de Prevención y Responsabilidad Social Corporativa, University of Málaga, Málaga, Spain, Oct. 10, 2011; and Departamento de Construcciones Arquitectónicas, University of Granada, Granada, Spain, Oct. 13, 2011.
6. "Prevention through Design (PtD): Research and Practice in the U.K. and U.S." Department of Civil and Building Engineering, Loughborough University, Loughborough, Leicestershire, England, Jan. 26, 2011.
7. Keynote presentation: "Designing for Construction Safety and Health: From Research to Practice." *Working Together: Planning, Designing, and Building a Healthy and Safe*

Construction Industry, International Council for Research and Innovation in Building and Construction (CIB) W99 Conference, Melbourne, Australia, Oct. 21-23, 2009.

Domestic:

1. “Mistakeproofing and Prevention through Design (PtD).” Co-presenter with Dr. Iris Tommelein / UC Berkeley at *Cal Construction Innovation Day*, UC Berkeley, Berkeley, CA, Nov. 1, 2019.
2. “Prevention through Design (PtD) Workshop.” Co-presenter with Jason Timmerman / EHS Director for Skanska USA Commercial Development, Skanska Project Team Workshop, Cincinnati, OH, Oct. 17, 2019.
3. “Prevention through Design (PtD) Workshop.” Co-presenter with Jason Timmerman / EHS Director for Skanska USA Commercial Development, Skanska Project Team Workshop, Seattle, WA, July, 25, 2019.
4. “Integrating Safety, Schedule, and BIM to Minimize Schedule-Induced Safety Risk,” *2019 Construction Safety, Health & Environmental Conference*, Associated General Contractors (AGC), Seattle, WA, July 23-25, 2019.
5. “Design for Safety (DfS) in Construction.” Presentation to Samsung Electronics Co. and Jacobs Engineering, Portland, OR, April 16, 2019.
6. “Prevention through Design (PtD) in Construction.” EMD Serono, Inc. workshop, *Prevention through Design and Construction Leadership in Safety and Health: An Executive Approach*, Boston, MA, April 3, 2019.
7. “Prevention through Design (PtD) in Construction.” *Oregon Governor’s Occupational Safety & Health Conference*, Portland, OR, March 4-7, 2019.
8. “Prevention through Design (PtD) Workshop.” Co-presenter with Jason Timmerman / EHS Director for Skanska USA Commercial Development, Skanska Project Team Workshop, Arlington, VA, Feb. 27, 2019.
9. “Prevention through Design (PtD) Workshop.” Co-presenter with Jason Timmerman / EHS Director for Skanska USA Commercial Development, Skanska Project Team Workshop, Boston, MA, Dec. 13, 2018.
10. “Target Zero Injuries: Developing a Comprehensive Safety Program for Engineers and Constructors.” Co-presenter with Wayne Crew, General Secretary of the National Academy of Construction. ASCE webinar, Dec. 4, 2018.
11. “Safety and the Civil Engineer: Addressing Safety during Design.” Panel presentation at ASCE Industry Leaders Council (ILC) Fall 2018 Meeting, Washington, DC, Nov. 8, 2018.
12. “Prevention through Design (PtD) Workshop.” Co-presenter with Jason Timmerman / EHS Director for Skanska USA Commercial Development, Skanska Project Team Workshop, Houston, TX, Nov. 1, 2018.
13. “Current Issues and Research in Work Zone Safety.” Washington Asphalt Pavement Association (WAPA) and Washington State Department of Transportation (WSDOT) Joint Committee on Paving Work Zone Risk Reduction meeting, Fife, WA, Oct. 18, 2018.
14. “Precursor Analysis for Preventing Low-Frequency, High Impact Events.” Panel presentation with Greg Driscoll/American Contractors Insurance Group, Mark Mumford/Cajun Industries, and Eric Lambert/Zurich. *99th Annual AGC Convention*, Associated General Contractors (AGC), New Orleans, LA, Feb. 26-28, 2018.
15. “Designing for Safety in Construction and throughout the Facility Lifecycle.” *Lean Design Forum 2018*, sponsored by the Project Production Systems Laboratory (P²SL), Lean

- Construction Institute (LCI), and American Institute of Architects (AIA), Berkeley, CA, Feb. 8-9, 2018.
16. "Occupational Health and Safety in the Design and Construction of Projects." *43rd Annual Meeting*, American Industrial Hygiene Association (AIHA), Yuma Pacific Southwest Section, San Diego, CA, January 19, 2018.
 17. "Reducing Highway Worker Exposure and Maximizing Return on Investment for Worker Safety Strategies." Co-presenter with Keith Robinson/Caltrans, David Hurwitz/OSU, and Zachary Barlow/OSU. Workshop #161, *97th Annual Meeting*, Transportation Research Board (TRB), Washington, DC, Jan. 7, 2018.
 18. "Work Zone Intrusion Alert Technologies: Assessment and Practical Guidelines." Presentation to Subcommittee on Vehicle Intrusion Mitigation in Work Zones, *97th Annual Meeting*, Transportation Research Board (TRB), Washington, DC, Jan. 8, 2018.
 19. "Solar PtD Webinar: Application of Prevention through Design to Improve Safety in Solar Installations for Small Buildings," co-presenter with Hyun Woo (Chris) Lee/UW, sponsored by the Center for Construction Research and Training (CPWR), Dec. 13, 2017, <http://www.youtube.com/watch?v=nRuyKflw2yk&feature=youtu.be>.
 20. "Construction Work Zone Safety," *48th Annual Meeting*, Asphalt Pavement Association of Oregon (APAO), Portland, OR, Dec. 7, 2017.
 21. "Opportunities for Enhancing Work Zone Safety," co-presenter with David Hurwitz/OSU, Oregon Work Zone Executive Strategy Session, Salem, OR, Dec. 6, 2017.
 22. "Precursor Analysis of Fatal and Near-Fatal Events," co-presenter with Matthew Hallowell/University of Colorado at Boulder. NORA Traumatic Injury Prevention/Construction Joint Council Meeting (webinar), National Institute for Occupational Safety and Health (NIOSH), Nov. 13, 2017.
 23. "TRB Straight to Recording for All: Transportation Worker Safety Program Resources and Practices," webinar presentation with David Hurwitz/OSU and Keith Robinson/Caltrans. Transportation Research Board (TRB), Sept. 2017, <http://www.trb.org/main/blurbs/176680.aspx>.
 24. "Prevention through Design (PtD)." Presentations to Webcor Builders, UCSF Block 33 Project, San Francisco, CA, Sept. 15, 2017.
 25. "Prevention through Design (PtD) in Construction: From Research to Practice." Webinar presentation sponsored by the American Society of Safety Engineers (ASSE) Young Professional Leadership Team, July 26, 2017, <http://learn.asse.org/cig-education-young-professionals>.
 26. "Construction Work Zone Safety." Oregon Work Zone Executive Strategy Session #8, Oregon Work Zone Executive Strategy Task Force, Salem, OR, June 21, 2017.
 27. "Using Precursor Analysis to Prevent Low-Frequency, High-Impact Events, Including Fatalities." *Safety Excellence Meeting*, Northwest Construction Consumer Council (NWCCC), Lynnwood, WA, June 15, 2017.
 28. "Construction Safety Research: Precursor Analysis and More," National Construction Safety Executives (NCSE) meeting, Corpus Christi, TX, April 12, 2017.
 29. "Precursor Analysis of Fatal and Near-Fatal Events." Co-presenter with Gregg Slintak / ConEdison and Matthew Hallowell / University of Colorado at Boulder. ConEdison, Inc., New York, NY, Jan. 6, 2017.
 30. "Precursor Analysis of Fatal and Near-Fatal Events." Co-presenter with Gregg Slintak / ConEdison. ConEdison, Inc., New York, NY, Dec. 15, 2016.

31. "Precursor Analysis of Fatal and near-Fatal Events." Co-presenter with Matthew Hallowell / University of Colorado at Boulder. National Academy of Construction (NAC) Annual Meeting, Napa, CA, Oct. 22, 2016.
32. "Prevention through Design (PtD) in Construction: Improving Safety in Our Built Environment." Auburn University Facilities Management, Auburn University, Auburn, AL, Sept. 14, 2016.
33. "Innovations and Research on Work Zone Safety." 2016 Oregon Association of County Engineers & Surveyors (OACES) Spring Conference, Hood River, OR, May 9-11, 2016.
34. "Prevention through Design (PtD): Engineering a Safer Project." 2016 Professional Engineers of Oregon (PEO) Annual Conference, Eugene, OR, May 5-6, 2016.
35. "Prevention through Design (PtD) Concept and Current Practice." Port of Portland, Portland, OR, Feb. 24, 2016.
36. "What's New in Safety Research for Construction Work Zones?" 22nd Annual Asphalt Conference, Asphalt Pavement Association of Oregon (APAO), Eugene, OR, Feb. 23, 2016.
37. "Radar Speed Display for Mobile Maintenance Operations: Impacts, Applications, and Use." ODOT Maintenance Leadership Team (MLT) meeting, Salem, OR, Feb. 11, 2016.
38. "Prevention through Design (PtD): Moving Construction Safety Upstream." Construction Users Roundtable (CURT) National Conference, Orlando, FL, Feb. 8-10, 2016.
39. "Quality and Safety: What does research tell us?" Panelist presentation in "Construction Quality and Safety: Reducing Rework While Achieving Zero Incidents and Accidents" on-line webinar sponsored by Engineering News-Record and Procore, Feb. 27, 2016.
40. Keynote presentation: "Work Zone Safety Research: Striving for Zero Incidents." ODOT Project Managers Annual Meeting, Salem, OR, Jan. 20, 2016.
41. Eminent Scholar Program, School of Sustainable Engineering and the Built Environment, Arizona State University:
 - a. "Safety in Construction: Past and Present," Nov. 3, 2015
 - b. "Exploring Safety in Construction," Nov. 4, 2015
42. "Work Zone Safety Research and New Safety Lab at OSU." Fall Meeting of the Northwest Chapter of the American Traffic Safety Services Association (ATSSA), Salem, OR, Sept. 23, 2015.
43. "Prevention through Design (PtD): Eliminating Safety Hazards through the Design." Presentation to SNC-Lavalin, Bothell, WA, Aug. 25, 2015.
44. "Safety Research at OSU." OSU Construction Education Foundation (CEF) Summer Meeting, Portland, OR, July 30, 2015.
45. "Prevention through Design (PtD)." Guest lecture (on-line) in SAFT 6282 – Design for Safety and the Environment class, Department of Technology Systems, East Carolina University, June 3, 2015.
46. "Construction Engineering: Designing Formwork and Concrete Structures for Safety." 2015 CERC Conference, *New Frontiers*, Center for Education and Research in Construction (CERC), University of Washington, Seattle, WA, March 6, 2015.
47. "Safety in the Construction Industry." *National Academies Keck Futures Initiative (NAKFI) Forum*, titled "Enhancing Safety while Fostering Innovation: Can the Nuclear Industry Learn from Other Industries?" Sponsored by the School of Nuclear Engineering and Radiation Health Physics (NEHRP), Oregon State University, Corvallis, OR, Feb. 23, 2015.
48. "Construction Engineering and Engineering for Construction: The Case of Designing Reinforced Concrete and Concrete Formwork for Safety." Seminar presentation to faculty

- and students in Department of Civil and Environmental Engineering, University of Colorado at Boulder, Boulder, CO, Nov. 20, 2014.
49. "From Research to Practice: A Collaborative Approach to Prevention through Design." *20th Annual Willis Construction Risk Management Conference*, Willis Construction, Plano, TX, Sept. 16-17, 2014.
 50. "From Research to Practice: A Collaborative Approach to Construction Safety." Associated General Contractors (AGC) of America, Safety and Health Committee Meeting, Portland, OR, July 16-18, 2014.
 51. "Prevention through Design (PtD): Moving Construction Safety Upstream." Port of Portland, Portland, OR, June 24, 2014.
 52. "Putting Safety Research into Practice." MDU Construction Services, Safety Director's Meeting, Las Vegas, NV, Dec. 16, 2013.
 53. "Design Safety Risk of Multi-story Commercial Office Buildings." *Using BIM to Eliminate Construction Site Hazards Workshop*, sponsored by AGC of America, NIOSH, CPWR, and BIMForum, Arlington, VA, Aug. 6-7, 2013.
 54. "Graduate School in Civil Engineering: What It's All About and Is It Right for You." Bucknell University, Department of Civil and Environmental Engineering, Oct. 17, 2012.
 55. "Prevention through Design (PtD) Education and Research." National Construction Safety Executives (NCSE) Fall Meeting, Napa, CA, Oct. 3, 2012.
 56. "Design for Construction Safety in the U.S." Harvard University School of Public Health professional development education class *Safety in Design and Construction: A Lifecycle Approach*, Boston, MA, Apr. 23-26, 2012.
 57. "Prevention through Design (PtD) in Construction: Concept and Current Practice", National Electrical Contractors Association (NECA) Safety Webinar, March 9, 2012.
 58. Keynote presentation: "A Look at PtD based on Foundational Attributes of Construction Projects." *Prevention: Means to the End of Construction Injuries, Illnesses, and Fatalities*, International Council for Research and Innovation in Building and Construction (CIB) W99 Conference, Washington, DC, Aug. 24-26, 2011.
 59. In *AIHce 2011* conference, sponsored by the American Industrial Hygiene Association (AIHA) and the American Conference of Governmental Industrial Hygienists (ACGIH), Portland, OR, May 14-19, 2011:
 - a. "Integrating Safety and Sustainability: Current Research and Practice"
 - b. "Prevention through Design (PtD): Concepts and Practice in the Construction Industry"
 60. "Engineering for Construction Safety (EFS)." Co-presenter with Michael Toole, Bucknell University. *Marine Well Containment System (MWCS) Contractor Leadership in Safety Workshop*, sponsored by ExxonMobil, Houston, TX, April 26-27, 2011.
 61. "Safety in Design: Practical Application Using BIM and Other Technologies." *Oregon Governor's Occupational Safety and Health Conference*, Portland, OR, March 7-10, 2011.
 62. "Design for Construction Safety." ExxonMobil Development: Civil, Structural, and Arctic Engineering Group, Houston, TX, April 9, 2010. Co-presenter with Michael Toole, Bucknell University.
 63. "Design for Construction Safety in the U.S." Harvard University School of Public Health professional development education class *Safety in Design and Construction: A Lifecycle Approach*, Boston, MA, Feb. 22-26, 2010, co-instructor with Michael Toole, Bucknell University.

64. "Designing for Construction Safety: Concepts and Practice." *Washington Governor's Industrial Safety and Health Conference*, Tacoma, WA, Oct. 7-8, 2009.
65. "Designing for Construction Safety: Concepts and Practice." Department of Energy (DOE) *Integrated Safety Management Conference*, Knoxville, TN, Aug. 24-27, 2009.
66. "Collaborative Construction Planning: A Convergence of Sustainability, Lean Construction, and Safety in Design". *Oregon Governor's Occupational Safety and Health Conference*, Portland, OR, March 9-12, 2009.
67. In Harvard University School of Public Health professional development education class *Safety in Design and Construction: A Lifecycle Approach*, Boston, MA, Feb. 23-27, 2009, co-instructor with Michael Toole, Bucknell University:
 - a. "Design for Construction Safety: Concept and Research"
 - b. "Design for Construction Safety in Practice"
68. In *2007 Design-Build Institute of America (DBIA) Annual Conference and Expo*, Dallas, TX, Oct. 31-Nov. 2, 2007:
 - a. Opening keynote presentation: "Energizing Innovation in Integrated Project Delivery: Putting Research into Practice"
 - b. Panel presentation: "Innovating – The Design-Build Team's Competitive Edge"
 - c. Special session presentation: "Owner's Role in Innovation"
69. "Prevention through Design." Engineers Joint Contract Documents Committee (EJCDC) meeting, Atlanta, GA, Oct. 12, 2007.
70. "Design for Construction Safety: Moving Safety Decisions Upstream." Parsons Corporation, Corporate Safety Managers Meeting, Miami, FL, April 25, 2006.
71. "Design for Construction Safety: Moving Safety Decisions Upstream." Winter 2006 Corporate Partners Program, Department of Public Health, Oregon State University, Corvallis, OR, March 17, 2006.
72. "Incentives to Get Safety into the Engineering Curriculum." *6th Annual Hazard Information Foundation, Inc. (HIFI) Safety Workshop*, Sierra Vista, AZ, Feb. 23-24, 2006.
73. "Constructability State of Practice, Benefits, and Barriers." ASCE Capital Branch meeting, Salem, OR, April 28, 2005.
74. "Designing for Construction: Achieving Project Success through Constructability." ASCE Oregon Section, Host-A-Student Dinner, Corvallis, OR, Nov. 21, 2002.
75. Panel presentation: "The Next Industrial Revolution: Improving Urban Place and the Working Ecology through Sustainable Design and Development." *130th Annual Meeting and Exposition of the American Public Health Association (APHA)*, Philadelphia, PA, Nov. 9-13, 2002.
76. "Managing Construction Safety from Project Concept to Completion." *10th Biennial Cascade Safety, Health & Environmental Conference*, Eugene, OR, March 12-13, 2002. Sponsored by OR-OSHA and the Cascade Chapter of the American Society of Safety Engineers (ASSE).
77. "The Future of Construction Safety and Health: A Focus on Education and Research." Columbia-Willamette Chapter of the American Society of Safety Engineers (ASSE) monthly meeting, Portland, OR, Mar. 12, 2001.
78. "Construction Safety Management: From Project Conception to Completion." *Oregon Governor's Occupational Safety & Health Conference*, Portland, OR, Mar. 5-8, 2001.
79. "Construction Site Safety: Improving Safety through Effective Project Management." Lecture Series on Construction Project Management, Department of Civil and Environmental Engineering, University of California at Berkeley, Berkeley, CA, Aug. 3, 2000.

80. "Designing for Safety." M.E. Rinker Sr. Lecture Series on Construction Health and Safety, University of Florida, Gainesville, FL, Sept. 21-22, 1998.
81. "Construction Safety: A Focus on Project Design." Northwest Construction Consumer Council (NWCCC), Seattle, WA, June 26, 1996.
82. "Designing for Construction Worker Safety: Consideration of Construction Worker Safety in the Design Phase." *Houston Business Roundtable Quarterly Forum*, Houston, TX, Nov. 14, 1995.

Non-Invited Presentations:

International:

1. "Ironworker Perspectives on Accident Causes and Improving Safety Planning." *International Health and Safety Conference: Benefitting Workers and Society through Inherently Safe(r) Construction*, CIB W099 – Safety and Health in Construction, Ulster University, Jordanstown Campus, Belfast, Northern Ireland, September 10-11, 2015.
2. "Additional Evidence of the Sustainable Construction Safety and Health (SCSH) Rating System's Effectiveness." *International Conference on Achieving Sustainable Construction Health and Safety*, W099 – Safety and Health in Construction, International Council for Research and Innovation in Building and Construction (CIB), Lund, Sweden, June 2-3, 2014.
3. "Prevention through Design: Construction Safety." Panel Presentation, *ASCE 142nd Annual Civil Engineering Conference*, Montreal, Quebec, Canada, Oct. 13-20, 2012.
4. "Designer and Contractor Perception of Project and Cost Impacts of Engineered Safety Solutions." *Proceedings of the CIB W099 International Conference on "Modeling and Building Health and Safety"*, Singapore, Sept. 10-11, 2012.
5. "Industry's Perspective of Design for Safety Regulations." *Working Together: Planning, Designing, and Building a Healthy and Safe Construction Industry*, International Council for Research and Innovation in Building and Construction (CIB) W99 Conference, Melbourne, Australia, Oct. 21-23, 2009.
6. In *2007 Construction Research Congress*, ASCE, Grand Bahama Island, Bahamas, May 6-8, 2007:
 - a. "Benchmark of Innovation in the Architecture/Engineering/Construction Industry."
 - b. "Sustainable Construction Safety and Health Rating System – A Feasibility Study."

Domestic:

1. "Engineer Involvement in Site Safety." Member of panel presentation titled "Target Zero Injuries: Engineering for Safety," at ASCE Annual Convention, Miami, FL, Oct. 11, 2019.
2. Gambatese, J. (2019). "Precursor Analysis: Predicting the Potential for Serious Injury and Fatality Incidents." *ASCE Construction Institute Summit 2019*, Atlanta, GA, March 7-9, 2019.
3. Gambatese, J. and Liu, D. (2019). "Student Worker Safety Guidelines in Roadside Applications and Work Zones." *98th Annual Meeting of the Transportation Research Board (TRB)*, Washington, D.C., Jan. 13-17, 2019. (Poster presentation)
4. "Predicting Safety Incidents using Precursor Analysis." AGC Oregon-Columbia Chapter Summer Convention, Sunriver, OR, Aug. 9-11, 2018.
5. In *Northwest Transportation Conference*, sponsored by ODOT, OSU, PSU, Benton County Public Works, FHWA, and ITE, Corvallis, OR, March 13-15, 2018:

- a. “Student Education and Training for Safety in Roadway Engineering Field Work,” Co-presenter with Ding Liu / OSU.
 - b. “Using Mobile Laser Scanner to Support Work Zone Reviews of Temporary Signage,” Co-presenter with Ziyu Jin / OSU.
6. “*Designing for Safety: Guidance from ASCE Policy Statement 350.*” ASCE Construction Institute (CI) Summit, Orlando, FL, Mar. 9-12, 2016.
7. “Impact of Advisory Signs on Vehicle Speeds in Highway Nighttime Paving Project Work Zones.” *95th Annual Meeting of the Transportation Research Board (TRB)*, Washington, D.C., Jan. 10-14, 2016. (Poster presentation)
8. “Prevention through Design (PtD) Research and Practice in the U.S.” *International Prevention through Design (PtD) Knowledge Exchange: NIOSH and JNIOHSH*, National Institute for Occupational Safety and Health (NIOSH), New York City, NY, Oct. 14, 2014.
9. “Work Zone Speed Reduction Research: Reducing Vehicle Speeds on Highway Preservation Projects.” *20th Annual Oregon Asphalt Conference*, Asphalt Pavement Association of Oregon (APAO), Eugene, OR, March 18, 2014.
10. “Implementation and Evaluation of Traffic Control Devices on Highway Nighttime Paving Projects.” *93rd Annual Meeting of the Transportation Research Board (TRB)*, Washington, DC, Jan. 12-16, 2014.
11. “Design and Construction Impacts to TCP Quality, Consistency, and Safety.” *93rd Annual Meeting of the Transportation Research Board (TRB)*, Washington, DC, Jan. 12-16, 2014. (Poster presentation)
12. “Mobile Protective Barrier System.” *WASHTO 2012 Conference*, Colorado Springs, CO, July 8-11, 2012.
13. “Comparison of Design Risk Factors of Multistory Commercial Office Buildings.” *ASCE Construction Research Congress 2012*, West Lafayette, IN, May 21-23, 2012.
14. “Mobile Work Zone Barrier Systems.” *Northwest Transportation Conference: Transportation and the Economy*, Corvallis, OR, Feb. 7-9, 2012.
15. “Sustainable Construction Safety and Health Rating System.” *Oregon OSHA Symposium*, sponsored by OR-OSHA, Keizer, OR, Oct. 26-27, 2011.
16. “Findings from the Overall PtD in UK Study and Their Application to the US.” *Prevention through Design – A New Way of Doing Business: Report on the National Initiative Workshop*, sponsored by the National Institute for Occupational Safety and Health (NIOSH), Washington, DC, Aug. 22-24, 2011.
17. “Prevention through Design (PtD) in Construction: Concept and Current Practice.” *1st Annual Safety Professionals Conference*, National Electrical Contractors Association (NECA), Dallas, TX, May 22-24, 2011.
18. “Comparison of Design and Construction Perspectives of Traffic Control Plan Quality, Consistency, and Safety.” *2nd International Conference on Transportation Construction Management*, Orlando, FL, Feb. 7-10, 2011.
19. “NIOSH Prevention through Design (PtD) Initiative: Collecting FACE Program Data.” NIOSH Fatality Assessment and Control Evaluation (FACE) Program Annual Meeting, Morgantown, WV, Oct. 19-20, 2010.
20. “Examples of Civil and Construction Engineering Sustainability Research.” OSU Iraqi Faculty Visit, Corvallis, OR, Aug. 6, 2009.
21. “Prevention through Design Practice and Research: A Construction Industry Perspective”. *Evolution of and Directions in Construction Safety and Health*, International Council for

- Research and Innovation in Building and Construction (CIB) W99 Working Commission Rinker International Conference, Gainesville, FL, March 9-11, 2008.
22. "The Future of Design for Construction Safety," co-presenter with Michael Toole, Bucknell University. *18th Annual Construction Safety Conference*, sponsored by the Construction Safety Council and The Center to Protect Workers' Rights, Rosemont, IL, Feb. 12-14, 2008.
 23. "Designing for Construction Safety: Preventing Injuries from Concept to Completion." National Safety Council (NSC) webinar, Nov. 27, 2007.
 24. "Energizing Innovation in Integrated Project Delivery." US Army Corps of Engineers *2007 Northwestern Division Construction Phase Project Delivery Team Conference*, Corvallis, OR, May 1-3, 2007.
 25. "Energizing Innovation in Integrated Project Delivery: Preliminary Findings and Future Directions." *2006 Design-Build Institute of America (DBIA) Conference and Expo*, Nashville, TN, Oct. 18-20, 2006.
 26. In *ASSE Professional Development Conference*, Seattle, WA, June 11-14, 2006:
 - a. "Building toward Sustainable Safety and Health."
 - b. "Designing for Construction Worker Safety."
 27. "Sustainable Roadway Construction: Energy Consumption and Material Waste Generation of Roadways." *Construction Research Congress 2005*, ASCE, San Diego, CA, April 5-7, 2005.
 28. "Training Students for Design Safety in Construction." *ASSE Professional Development Conference & Exposition*, Las Vegas, NV, June 7-10, 2004.
 29. "Project Delivery Methods & Safety in Design," co-presenter with Greg Baker, OSU. *Joint Meeting of AACE – Cascade Section and ASCE – Oregon Section*, Portland, OR, May 18, 2004.
 30. "Engineers' Role in Designing for Safety." *ASCE Annual Conference and Exposition*, Nashville, TN, Nov. 12-14, 2003.
 31. In *Designing for Safety and Health in Construction Symposium*, Portland, OR, Sept. 15-16, 2003. Sponsored by: University of Oregon; Center to Protect Workers' Rights; National Institute for Occupational Safety and Health; Oregon State University; and Industrial Design and Construction:
 - a. "Pilot Study of the Viability of Designing for Construction Worker Safety."
 - b. "Design for Safety/Health Tools and Technologies."
 - c. "Safety Emphasis in University Engineering and Construction Program Curricula in the U.S."
 32. "Construction Safety Research." *Mega Projects of the West Coast II Safety Seminar*, sponsored by ASCE Construction Institute, Berkeley, CA, Aug. 21, 2003.
 33. In *2003 Construction Research Congress*, sponsored by ASCE, Honolulu, HI, March 19-21, 2003:
 - a. "Engineering Mandates Stipulated in OSHA Regulations."
 - b. "Designer Consideration of Project Lifecycle Performance."
 34. "Controlling Hazardous Noise on Construction Jobsites." *Oregon Governor's Occupational Safety & Health Conference*, Portland, OR, March 3-6, 2003.
 35. "Constructor Involvement in Safety in Design." *13th Annual Construction Safety Conference & Exposition*, Chicago, IL, Feb. 11-13, 2003. Sponsored by the Construction Safety Council.
 36. "Benefit-Cost Model for Highway Department Constructibility Reviews." *82nd Annual Meeting of the Transportation Research Board (TRB)*, Washington, DC, Jan. 12-16, 2003.

37. "Life Cycle Analysis: Concrete and Asphalt in Paving." *Sustainable Construction Practices: Concrete and Asphalt Conference*, Portland, OR, Dec. 3-4, 2002. Sponsored by the Oregon State University College of Engineering.
38. "Automation Consideration during Project Design." *International Symposium on Automation and Robotics in Construction (ISARC)*, Washington, DC, Sept. 23-25, 2002.
39. "Life Cycle Safety: A Partnership for Improving Safety through Design." *12th Annual Construction Safety & Health Conference*, sponsored by the Construction Safety Council (CSC) and Center to Protect Workers' Rights (CPWR), Chicago, IL, May 21-23, 2002.
40. "Construction Engineering Management at Ground Zero." *OSU Over Lunch*, Portland, OR, Nov. 15, 2001.
41. "Safety in Design Research." *At the Leading Edge: Moving Ahead in Construction Safety Management Conference*, sponsored by the Labor Education and Research Center (LERC), University of Oregon, Portland, OR, May 31, 2001.
42. In *11th Annual Construction Safety Conference*, Construction Safety Council, Chicago, IL, Feb. 6-8, 2001:
 - a. "Owner & Designer Roles in Safety."
 - b. "Getting to Zero Accidents."
43. In *American Society of Civil Engineers (ASCE) Construction Congress VI*, Orlando, FL, Feb. 20-22, 2000:
 - a. "Safety Constructability: Designer Involvement in Construction Site Safety."
 - b. "Owner Involvement in Construction Site Safety."
44. In *10th Annual Construction Safety Conference*, Construction Safety Council, Chicago, IL, Feb. 15-17, 2000:
 - a. "Owner and Designer Roles in Site Safety."
 - b. "Safety Toolbox for Designers."
45. "Using a Water Spray System on Trucks to Suppress Dust." *Air Quality Issues Associated with Waste Management Conference*, Air & Waste Management Association, Las Vegas, NV, Sept. 15-17, 1999.
46. "Application of Risk Mapping to Construction Project Jobsites." *2nd International Conference on Implementation of Safety and Health on Construction Sites*, International Council for Research and Innovation in Building and Construction (CIB) Working Commission 99, Honolulu, HI, Mar. 24-27, 1999.
47. "Application of Risk Mapping to Construction Project Jobsites." *2nd International Conference on Implementation of Safety and Health on Construction Sites*, International Council for Research and Innovation in Building and Construction (CIB) Working Commission 99, Honolulu, HI, Mar. 24-27, 1999.
48. "Developing and Providing Valuable Engineering Education Experiences." *1999 Annual Meeting and Conference of the American Society for Engineering Education (ASEE) Pacific Southwest Section*, Las Vegas, NV, Mar. 19-20, 1999.
49. "Owners, Architects, Design Engineers, Contractors: Who's Responsible for Safety?" *9th Annual Construction Safety Conference*, Construction Safety Council, Chicago, IL, Feb. 10-12, 1999.
50. "Project Management." *1999 National Association of Store Fixture Manufacturers Project Management Seminar*, Las Vegas, NV, Jan. 28-29, 1999.
51. "Energy Efficient Homes Using Passive Solar Strategies." *GlobeEx/Nevada Future Technical Innovations Roundtable*, Las Vegas, NV, Oct. 26, 1998. (Poster presentation)

52. "Energy Efficient Home Construction Issues." *Nevada Science and Technology Symposium*, Las Vegas, NV, Jan. 8-9, 1998. (Poster presentation)
53. In *National Occupational Injury Research Symposium*, National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV, Oct. 15-17, 1997:
 - a. "A Designer's Influence on Construction Worker Safety."
 - b. "A Tool for Planning and Monitoring Construction Site Safety." (Poster presentation)
54. "Constructability: A Quality Improvement Approach to Transportation Projects." *76th Annual Meeting of the Transportation Research Board (TRB)*, Washington, DC, Jan. 12-16, 1997.
55. "A Framework for the Constructability Review of Transportation Projects." *Washington State Department of Transportation Statewide Project Planning, Engineering, and Construction Conferences*, Wenatchee, WA, Mar. 25-27, 1996, and June 5, 1996.
56. "Design for Safety." *Construction Project Improvement Conference*, Construction Industry Institute (CII), Austin, TX, Sept. 11-13, 1995.
57. "Design for Safety." *Construction Industry Institute (CII) Annual Conference*, San Diego, CA, Aug. 1-3, 1995.

OTHER WORKSHOP, MEETING, AND CONFERENCE ATTENDANCE

1. *Construction Research Congress 2018*, ASCE, New Orleans, LA, April 2-4, 2018.
2. *2014 Construction Research Congress*, ASCE, Atlanta, GA, May 19-21, 2014.
3. *Oregon BEST Modular Construction Forum*, Portland, OR, March 6, 2014.
4. *2014 Construction Engineering Conference: Leveraging Project and Career Success*, Seattle, WA, March 27-29, 2014.
5. *Construction Engineering Conference: Opportunity and Vision for Education, Practice, and Research*. Virginia Tech University, Blacksburg, VA, Sept. 30-Oct. 2, 2010.
6. *Construction Research Congress 2010: Innovation for Reshaping Construction Practice*. ASCE Construction Institute, Banff, Alberta, Canada, May 8-10, 2010.
7. *CPWR 2009 Trainer Enhancement Conference: Health & Safety in Green Construction*. Center for Construction Research and Training, Portland, OR, Sept. 27-30, 2009.
8. *1st Annual Leadership Forum*, ASCE Construction Institute, Chicago, IL, June 9-10, 2008.
9. *Conversational Skills for Convening People and Influencing Decisions*, Oregon State University, Corvallis, OR, May 1-2, 2008.
10. *Prevention through Design Workshop*, National Institute for Occupational Safety and Health (NIOSH), Washington, DC, July 9-11, 2007.
11. *Journey into Leadership V*, Oregon State University, Corvallis, OR, Dec. 2006-April, 2007.
12. *NexCon 2006 Next Generation Construction Summit: Defining the New Critical Path*, Greater Portland Construction Partnership, Portland, OR, Nov. 8-9, 2006.
13. *Design-Build Educator Workshop*, Design-Build Institute of America and the California Center for Construction Education, San Luis Obispo, CA, June 1-3, 2006.
14. *AISC Faculty Workshop*, American Institute of Steel Construction, Rosemont, IL, Sept. 29, 2004.
15. *Academic Leadership Meeting*, Construction Industry Institute (CII), Houston, TX, Oct. 28, 2003.
16. *National Construction Industry Education Forum*, American Council for Construction Education (ACCE), Las Vegas, NV, Mar. 21-22, 1999.
17. *1999 Mid-Year Meeting*, American Council for Construction Education (ACCE), Monroe, LA, Feb. 17-20, 1999.

18. *Academic Council Meeting and Workshop*, Construction Industry Institute (CII) Annual Conference, Minneapolis, MN, Aug. 5-8, 1998.
19. *Engineering Scholars Workshop*, National Science Foundation (NSF), Carnegie Mellon University, Pittsburgh, PA, July 19-24, 1998.

FUNDED RESEARCH PROJECTS

Principal Investigator:

1. "Use of Flashing Amber/White Lights on Paving Equipment in Work Zones." Co-PI with David Hurwitz / Oregon State University. Oregon Department of Transportation (ODOT), Work Order No. 19-15, \$110,720, June 2019 – April 2021.
 2. "Speed Variation and Safety in Work Zones." Oregon Department of Transportation (ODOT), Project Number SPR 822, \$193,000, Sept. 2018 – Jan. 2021.
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3. "Use of Blue Lights on Paving Equipment in Work Zones." Co-PI David Hurwitz / Oregon State University. Oregon Department of Transportation (ODOT), Work Order No. 19-03, \$102,970, July 2018 – Feb. 2019.
 4. "Development of Workforce Sustainability Model for Construction." Small Studies Program, Center for Construction Research and Training (CPWR Small Study No. 17-8-PS), \$29,947, Nov. 2017 – Oct. 2018.
 5. "Student Worker Safety Guidelines in Roadside Applications and Work Zones." Oregon Department of Transportation (ODOT), Project Number SPR 304-731, \$33,363, June 2016 – Dec. 2017.
 6. "Use of Additional Lighting for Traffic Control and Speed Reduction in Work Zones." Oregon Department of Transportation (ODOT), Project Number SPR 791, \$175,000, Oct. 2015 – June 2017.
 7. "Work Zone Intrusion Alert Technologies: Assessment and Practical Guidance." Oregon Department of Transportation (ODOT), Project Number SPR 790, \$221,327, July 2015 – March 2017.
 8. "NIOSH Prevention through Design (PtD) Research Study." Extension of Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$16,400, Sept. 2015 – Aug. 2016.
 9. "Implementation of Radar Speed Signs in Mobile Maintenance Operations." Oregon Department of Transportation (ODOT), \$51,550, Nov. 2014 – Oct. 2015.
 10. "NIOSH Prevention through Design (PtD) Research Study." Extension of Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$19,992, Sept. 2014 – Aug. 2015.
 11. "Safe and Effective Speed Reductions for Freeway Work Zones Phase 3." Oregon Department of Transportation (ODOT), \$49,770, June 2014 – Oct. 2014.
 12. "Safe and Effective Speed Reductions for Freeway Work Zones Phase 2." Oregon Department of Transportation (ODOT), Project Number SPR 769, \$89,960, June 2013 – Feb. 2015.

13. "Connection between Lean Design/Construction and Construction Worker Safety." Small Studies Program, Center for Construction Research and Training (CPWR Small Study No. 13-10-PS), \$29,907, Aug. 2013 – Aug. 2014.
14. "NIOSH Prevention through Design (PtD) Research Study." Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$35,000, Sept. 2013 – Aug. 2014.
15. "Enhancement to Design Risk Factors to include Mechanical and Electrical Systems and Development of Design Rating System." Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$25,000, Sept. 2012 – March 2014.
16. "NIOSH Prevention through Design (PtD) Research Study." Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$33,015, Sept. 2012 – Aug. 2013.
17. "Implementing Speed Reductions at Specific Interstate Work Zones from 65 mph to 35 mph." Oregon Department of Transportation (ODOT), Project Number SPR 751, \$106,192, April 2012 – Jan. 2013.
18. "Evaluation of a Mobile Work Zone Barrier System." Oregon Department of Transportation (ODOT), Project Number SPR 746, \$142,605, July 2011 – Jan. 2013.
19. "NIOSH Prevention through Design (PtD) Research Study: Benchmarking Management Practices that Support PtD." Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$27,390, July 2011 – April 2012.
20. "Identifying and Documenting Successful Construction Hazard PtD Solutions." National Institute for Occupational Safety and Health (NIOSH), \$5,000, Aug. 2010 – Aug. 2011.
21. "NIOSH Prevention through Design (PtD) Research Study: Benchmarking Management Practices that Support PtD." Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$30,000, July 2010 – June 2011.
22. "NIOSH Prevention through Design (PtD) Research Study: Benchmarking Management Practices that Support PtD." Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$22,870, July 2009 – June 2010.
23. "Construction Processes and Materials Mapping for Sustainability Assessments." Kiewit Center for Infrastructure and Transportation, Oregon State University, \$9,043, July – Dec. 2009.
24. "NIOSH Prevention through Design (PtD) Research Study: Benchmarking Management Practices that Support PtD." Intergovernmental Personnel Agreement (IPA) funded by the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), \$19,828, June 2008 – May 2009.
25. "Work Zone Design and Operations Enhancements." Oregon Department of Transportation (ODOT), Project Number SPR 669, \$131,716, Nov. 2007 – Dec. 2009.
26. "Energizing Innovation in Integrated Project Delivery." Foundation for Integrated Services and Charles Pankow Foundation, \$135,000, Mar. 2006 – Dec. 2007.
27. "Optimum Illumination for Nighttime Flagger Operations." Oregon Department of Transportation (ODOT), Project Number SPR617, \$70,618, Aug. 2003 – Sept. 2005.

28. "An Analysis of Construction Accidents from a Design and Planning Perspective." The Center to Protect Workers' Rights (CPWR), Graduate Student Grant Program, \$2,500, Dec. 2003 - Nov. 2004.
29. "Evaluation of the Intel Life Cycle Safety Process." Subcontract to the Labor Education and Research Center (LERC), University of Oregon, Eugene, OR, on grant funded by The Center to Protect Workers' Rights, \$70,230, July 2001 - June 2004.
30. "Investigation of the Viability of Designing for Safety." The Center to Protect Workers' Rights, Washington, D.C., \$19,973, Jan. 2002 - Sept. 2003.
31. "Design Practices to Facilitate Construction Automation." Construction Industry Institute (CII), RT-183, Austin, TX, \$102,290, Jan. 2001 - Sept. 2003.
32. "Best Practices for Preventing Hearing Loss in Construction." Oregon Department of Consumer and Business Services, Occupational Safety and Health Training and Education, Salem, OR, \$39,354, Jan. 2002 - Mar. 2003.
33. "Using Soundless Chemical Demolition Agents (SCDA's) for Micro-Cracking Concrete." New Investigator Award, University of Nevada, Las Vegas, \$10,000, June 1999 - May 2000.
34. "Evaluation of Soundless Chemical Demolition Agents (SCDA's) for Use in Creating Micro-Cracking for the Bioremediation of Concrete." Western Alliance to Expand Student Opportunities (WAESO), \$1,378, Jan. - May 1999.
35. "Development and Evaluation of a System for Suppressing PM₁₀ Emissions Generated from the Operation of Earthmoving Equipment in Construction." Clark County Health District, Clark County, NV, \$39,472; Department of Energy (DOE) EPSCoR Young Scholar Program, \$2,500; and Western Alliance to Expand Student Opportunities (WAESO), \$1,378, June 1998 - May 1999.
36. "Energy Efficient Home Construction." Department of Energy (DOE) EPSCoR Young Scholar Program, \$2,500, June 1998 - Aug. 1998.

Co-Principal Investigator:

1. "Development of Construction Case Studies: Site Specific Safety Plan." Co-PI with Sathy Rajendran / Central Washington University. Associated General Contractors (AGC) Education and Research Foundation, \$9,000, Nov. 2018 – Nov. 2019.
2. "Prevention through Design (PtD) to Make Solar-Ready Houses Safe for Solar Workers." Co-PI with Hyun Woo Lee (PI) / University of Washington. The Center for Construction Research and Training (CPWR), Small Study Program (CPWR Small Study No. 18-4-PS), \$29,154 (OSU: \$3,092), Sept. 2018 – Aug. 2019.
3. "Develop a Lean Practice Manual for Improving the Safety of Electrical Construction Workers." Co-PI with: Hyun-Woo Lee and Yon-Woo Kim / University of Washington. Safety & Health Investment Projects (SHIP) Program, Washington State Department of Labor & Industries, \$149,827 (OSU: \$11,590), March 2018 – May 2019.
4. "Project Progress Tracking Using Lidar and 4D Information Models." Co-PI with Yelda Turkan and Michael Olsen / Oregon State University. Oregon Department of Transportation (ODOT), SPR-811, \$95,000, Aug. 2017 – Oct. 2018.
5. "Safe and Innovative Work Best Practices for Mechanical Crafts Booklet." Co-PI with: Sathy Rajendran/CWU (PI), Ali Vahed/McKinstry, and Darrel Zak/Comfort Systems. Safety & Health Investment Projects (SHIP) Program, Washington State Department of Labor & Industries, \$199,944 (OSU: \$42,020), July 2016 – Nov. 2018.

6. "Reducing Highway Construction Fatalities through Improved Adoption of Safety Technologies." Co-PI with Chinweike Eseonu/OSU. Small Studies Program, Center for Construction Research and Training (CPWR Small Study No. 17-4-PS), \$29,999, Feb. 2017 – Jan. 2018.
7. "Improving Safety on Highway Work-zones by Real-time Tracking of Operation and Equipment Status." Co-PI with Joseph Louis/Oregon State University. Pacific Northwest Transportation Consortium (PacTrans), \$70,000 (OSU match: \$35,000), Dec. 2016 – Dec. 2017.
8. "Construction Work Zone Safety: Use of a Mobile Laser Scanner to Assess Temporary Signage in Work Zones." Co-PI with Michael Olsen/Oregon State University. Oregon Department of Transportation (ODOT), \$118,694, July 2016 – Oct. 2017.
9. "Applying Prevention through Design (PtD) to Solar Systems in Small Buildings." Co-PI with Hyun-Woo (Chris) Lee/University of Washington. The Center for Construction Research and Training (CPWR), CPWR Small Study No. 16-2-PS), \$29,470 (OSU: \$7,489), Aug. 2016 – July 2017.
10. "Highway Worker Safety." Co-PI with David Hurwitz. National Cooperative Highway Research Program (NCHRP) Synthesis 20-05/Topic 47-16, National Academy of Sciences (NAS), \$45,000, Dec. 2015 – Jan. 2017.
11. "Using Precursor Analysis to Prevent Low-Frequency/High-Impact Events." Co-PI with Matthew Hallowell/University of Colorado at Boulder. Construction Industry Institute (CII), RT-321, \$230,175 (OSU: \$68,388), Sept. 2014 – Aug. 2016.
12. "Use and Re-use of Formwork: Safety Risks and Reliability Assessment." co-PI with Andre Barbosa/OSU. Small Studies Program, Center for Construction Research and Training (CPWR Small Study No. 13-2-PS), \$29,925, July 2013 – June 2014.
13. "Owner's Role in Facilitating Designing for Construction Safety." Co-PI with T. Michael Toole/Bucknell University. Center for Construction Research and Training, \$99,396 (OSU: \$50,366), July 2008 – June 2010.
14. "Cost/Benefits of Constructibility Reviews." Co-PI's: Dr. Phillip Dunston and Mr. James McManus, University of Washington. National Cooperative Highway Research Program, Washington, D.C., \$39,995, Aug. 2000 - Nov. 2001.
15. "Project Labor Agreements." Co-PI's: Mr. Neil Opfer and Dr. Jaeho Son, University of Nevada, Las Vegas. Associated Builders and Contractors (ABC), Las Vegas, NV, \$40,000, Mar. - Aug. 2000.

Collaborative Investigator:

1. "Safety CPM Project." PI: Dr. Jimmie Hinze, University of Florida. The Center to Protect Workers' Rights (CPWR), Washington, D.C., \$470,000, Jan. 2000 - Dec. 2004.
2. "Safety Plus: Making Zero Accidents a Reality." PI: Dr. Jimmie Hinze, University of Florida. Construction Industry Institute (CII), RT-160, Austin, TX, \$104,188, June 1999 - June 2001.
3. "Field Testing of Dust Suppression Agents using a Portable Wind Tunnel." PI: Dr. David James, University of Nevada, Las Vegas. Clark County Health District, Clark County, NV, \$68,345, June 1998 - June 1999.
4. "Supplement to the Constructability Review Process Phase II Study to include the Washington State Ferries." PI: Mr. James McManus, University of Washington. Washington State Ferries, \$35,000, Dec. 1996 - Sept. 1997.
5. "Constructability Review Process, Phase II." PI: Mr. James McManus, University of Washington. Washington State Dept. of Transportation, \$69,900, Mar. 1996 - Sept. 1997.

6. “Designing for Construction Worker Safety.” PI: Dr. Jimmie Hinze, University of Washington. Construction Industry Institute (CII), RT-101, Austin, TX, \$79,000, Jan. 1994 - Dec. 1995.

OTHER FUNDED PROJECTS

Principal Investigator:

1. “Development of Part 645 – Construction Inspection of the NRCS National Engineering Handbook.” U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), \$80,499. Aug. 2004 – Sept. 2007.
2. “Development of CM/GC Best Practices Manual.” Associated General Contractors (AGC) Oregon-Columbia Chapter and the Oregon Public Contracting Coalition, \$10,700. Sept. 2001 - Sept. 2002.

Co-Principal Investigator:

1. “Acquisition of Large-Format Plotter for CCEE Computer Lab.” Co-PI with Dr. Brian Wood, OSU. OSU FY03 Technology Resource Fee Proposal - Round Two, \$8,111. March 2003.

TEACHING

(* = New course developed)

Oregon State University:

- CEM 343 – Construction Planning and Scheduling (4 qtr. crs.; ~60 students; Sp. 2001 and 2002)
- CEM 381 – Structures I (4 qtr. crs.; ~50 students; Fall 2000 and 2001)
- CEM 383 – Structures II (4 qtr. crs.; 60-80 students; yearly 2001-2014)
- CEM 407/CE 507 – Constr. Engrg. Mgmt. Seminar (1 qtr. cr.; ~50 students; yearly 2001-03)
- CEM 441/541 – Heavy Civil Construction Mgmt. (4 qtr. crs.; 70-80 students; F02, W04-05)
- CE 420/520 – Engineering Planning (4 qtr. crs.; 60-80 students; yearly 2002-2009; 2015-present)
- CE 424/524 – Contracts and Specifications (4 qtr. crs.; 80-125 students; yearly 2001-2013)
- *CE 427/527 – Temp. Constr. Structures (4 qtr. crs.; 65-115 students; yearly 2005-present)
- *CCE 525 – Construction Site Systems Engineering (3 qtr. crs.; 5-10 students; 2010-present)
- *CCE 526 – Design for Safety (3 qtr. crs.; 8-10 students; 2013-present)
- *CE 507 – CCE Grad Student Seminar (1 qtr. cr.; 20-25 students; F03-08, W04-06, Sp04)

University of Nevada, Las Vegas:

- CEM 100 – Fundamentals of Constr. Mgmt. (3 sem. crs.; ~35 students; Spr. 1999 and 2000)
- CEM 251 – Construction Equipment (3 sem. crs.; ~20 students; Fall 1997)
- CEM 432 – Temporary Construction Structures (3 sem. crs.; ~10 students; Fall 1998 and 1999)
- CEM 451/451L – Construction Estim. I/Constr. Estim. Lab (4 sem. crs.; ~15 students; Fall 1997)
- CEM 453 – Construction Scheduling (3 sem. crs.; ~15 students; Spring 1998)
- CEM 485 – Construction Law and Contracts (3 sem. crs.; ~15 students; Spring 1999 and 2000)
- *CEM 740 – Constr. Safety and Performance Improv. (3 sem. crs.; ~10 students; Fall 1999)
- EKG 307 – Engineering Economics (3 sem. crs.; ~25 students; Summer and Fall 1998)

University of Washington:

- CIVE 306 – Construction Engineering I (4 qtr. crs.; ~40 students)
- CIVE 405 – Construction Planning and Scheduling (4 qtr. crs.; ~35 students)
- CIVE 407 – Construction Contracts and Specifications (4 qtr. crs.; ~50 students)
- *CIVE 498A – Construction Safety (4 qtr. crs.; ~20 students)
- CIVE 520A – Graduate Construction Seminar (1 qtr. cr.; ~10 students)

Other:

1. Presenter, *Professional Engineering Exam Review Course for Civil Engineers*, Portland State University. Topics: “Construction – Scheduling” and “Construction – Temporary Structures.” Annually, 2010 – present.

GRADUATE THESES SUPERVISED

Oregon State University:

<u>Name</u>	<u>Degree</u>	<u>Expected Graduation</u>
Karakhan, Ali	PhD, Civil Engineering	2019
Azeez, Mohammed	PhD, Civil Engineering	2019
Jin, Ziyu	PhD, Civil Engineering	2020
Alotaibi, Abdulaziz	MS, Civil Engineering	2020
Al-saffar, Ola	MS, Civil Engineering	2020
Lee, Wei-Hsuen	PhD, Civil Engineering	2022

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1. Liu, Ding: PhD, Civil Engineering, 2019, “Evaluating Industrialization Rate in Construction: A Quantification Model”
 2. Nnaji, Chukwuma: PhD, Civil Engineering, 2018, “Enhancing Technology Integration in the Construction Industry: A Focus on Safety Technologies”
 3. AlOmari, Kasim: PhD, Civil Engineering, 2017, “Degrees of Connectivity: A Systematic Accident Causation Model”
 4. Jafarnejad, Ali: MS, Civil Engineering, 2017, “Investigation of Effectiveness of Radar Speed Signs and Additional Lighting for Speed Control in Highway Construction and Maintenance Work Zones”
 5. Pestana, Catarina: PhD, Civil Engineering, 2016, “Multi-Criteria Risk Mapping Using Lean Tools for the Architecture, Engineering, and Construction Industry”
 6. Zhang, Fan: PhD, Civil Engineering, 2016, “Introducing the Concept of Foundational Attributes and Project Metabolism to Assess Construction Project Similarity”
 7. Nnaji, Chukwuma: MS, Civil Engineering, 2015, “Framework for Measuring Construction Project Performance using Energy”
 8. Vahed, Ali Moghaddam: MS, Civil Engineering, 2015, “Framework for Assessing the Potential Safety Performance of Construction Mechanical and Electrical Field Employees”
 9. Das, Amrutha: MS, Civil Engineering, 2014, “Risk and Reliability Associated with Use and Reuse of Vertical Formwork.” Co-advisor with Andre Barbosa/Oregon State University.
 10. Sutanto, Ryan: MEng, Civil Engineering, 2014.
 11. Tymvios, Nicholas: PhD, Civil Engineering, 2013, “Direction, Method, and Model for Implementing Design for Construction Worker Safety in the US”

12. Dharmapalan, Vineeth: MS, Civil Engineering, 2011, “Risk Factor Quantification of Design Elements for Multistory Commercial Office Buildings”
13. Hallowell, Matthew: PhD, Civil Engineering, 2008, “A Formal Model for Construction Safety and Health Risk Management”
14. Rajendran, Sathyanarayanan: PhD, Civil Engineering, 2006, “Sustainable Construction Safety and Health Rating System”
15. Lentine, John-David: MS, Civil Engineering, 2006 (Minor Professor)
16. Carpenter, Deanna: MS, Civil Engineering, 2005, “Effects of Contract Delivery Method on the LEED™ Score of U.S. Navy Military Construction Projects (Fiscal Years 2004-2006)”
17. Armijos-Leray, Jean Pol: MS, Civil Engineering, 2005, “Decision Support System in Highway Concession (BOT) Projects for Developing Countries: Case Study in Ecuador”
18. Kaneko, Takuya: MS, Civil Engineering, 2005 (Minor Professor)
19. Rajendran, Sathyanarayanan: MS, Civil Engineering, 2004, “Sustainable Roadway Construction: A Study of the Material Waste Generation in the Life Cycle of Roadways”
20. Liu, Lei: MS, Civil Engineering, 2004, “A Cost-Benefit Assessment of the CM/GC Delivery System Based on Post-Project Evaluations and Oregon Public Project Data”
21. Behm, Michael: PhD, Public Health, 2004 (Minor Professor), “Establishing the Link between Construction Fatalities and Disabling Injuries and the Design for Construction Safety Concept”
22. Sandoval-Gil, Jesus: PhD, Civil Engineering, 2004 (Minor Professor), “Permanent Deformation Characteristics of Dense-graded Mixes using Asphalt Pavement Analyzer”
23. Machan, Ian: MS, Civil Engineering, 2003, “Determining the Appropriate Staging of Highway Construction”
24. Zapata, Pablo: MS, Civil Engineering, 2003, “Life Cycle Analysis of Asphalt and Steel Reinforced Concrete”
25. Chansawat, Kasidit: PhD, Civil Engineering, 2003 (Minor Professor), “Nonlinear Finite Element Analysis of Reinforced Concrete Structures Strengthened with FRP Laminates”
26. Wieland, Ed: MS, Civil Engineering, 2003 (Minor Professor)
27. Turner, Heather: MS, Civil Engineering, 2002, “Owner Safety Practices in State Transportation Agencies”
28. Hewitt, Matthew: MS, Civil Engineering, 2002, “Maximizing Construction Automation Implementation”
29. Hoy, James: MS, Civil Engineering, 2001, “Automated Construction Technology Survey”
30. McCormick, Joe: MS, Civil Engineering, 2001 (Minor Professor), “Essential Elements of a Risk Management Program for a Small Engineering Consulting Firm”
31. Gobble, Darrell: MS, Civil Engineering, 2001 (Minor Professor)

External Examiner:

1. Pengpeng Li: PhD, Department of Civil and Construction Engineering, Swinburne University of Technology, Melbourne, Australia, Dec. 2018, “Construction Safety Risk Tolerance: Workers versus Managers”
2. Natanzi, Atteyeh: PhD, Civil Engineering, School of Civil, Structural, and Environmental Engineering, University College, Dublin, Ireland, 2017, “Soundless Chemical Demolition Agents Performance Under Cold and Cools Temperatures”
3. Dilipkumar, Patel Arvindkumar: PhD, Civil Engineering, Indian Institute of Technology Delhi, 2015, “Determinants of Safety Performance in Indian Construction”

4. Goldswain, Craig: PhD, Construction Management, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa, 2014, “Architectural Design Interventions toward Improvement of Construction Health, Safety, and Ergonomics in South Africa”
5. Huynh, Phuoc Minh: PhD, Civil Engineering, School of Civil, Structural, and Environmental Engineering, University College, Dublin, Ireland, 2012, “Investigation of Crack Propagation Due to Expansion Agents”
6. Bust, Philip: PhD, Civil Engineering, Department of Civil and Building Engineering, Loughborough University, Loughborough, England, 2010, “Managing Manual Handling in Construction: An Examination of the Change Process Resulting from Enforcement of Kerb Laying Activities”

Other Graduate Student Committees:

1. Zachary Barlow, MS, Civil Engineering, Oregon State University, 2017
2. Dillon Alexander, MS, Civil Engineering, University of Colorado at Boulder, 2016
3. Gabriel, Marc: Master of Architecture, University of Nevada-Las Vegas, 1999

UNDERGRADUATE THESES/PROJECTS SUPERVISED

Oregon State University:

1. Britsch, Katherine: Honors BS, Construction Engineering Management, 2012, “Evaluation of Shear Resistance of Reinforced Cob.” (Minor Professor)
2. Dunford, William: Engineering in Context Project, University of Nottingham, 2011, “Health and Safety and Sustainability Comparison of the UK and US Construction Industries.”
3. Edwardsen, Kelsey: Honors International Degree, Civil Engineering, 2007, “Project Coordinator’s Perspective on Planning the Project: Clean water supply in the remote villages of El Naranjito and Las Mercedes, El Salvador”
4. Christianson, Carl: Honors BS, Construction Engineering Management, 2005, “Design for Construction Safety: A Case Study with Architect’s Perceptions”
5. Eykelbosch, Phillip: BA, International Studies, 2004, “Artificial Islands and Land Reclamation as an Option for Coastal City Expansion: A Comparison in Methods between Japan and the Netherlands”

University of Nevada, Las Vegas:

1. Stewart, Patrick: BS, Construction Management, 1998, “Application of Risk Mapping to Construction Projects”

University of Washington:

1. Steitzer, Rod: BS, Civil and Environmental Engineering, 1997, “Risk in Construction Contracts”
2. Harlow, H. Randy: Civil and Environmental Engineering, 1997, “Design Effort Relation to Construction Cost Overruns”

INDUSTRY AND PROFESSIONAL SERVICE

Invited Service Activities:

1. ODOT Safety and Mobility Policy Advisory Committee (SMPAC), Member, 2019-present.
 2. ODOT Maintenance and Operations Expert Task Group (ETG). Member, 2011-present.
 3. Manuscript Reviewer (refereed journals):
 - i. *Journal of Construction Engineering and Management*, ASCE
 - ii. *Construction Management and Economics*, Taylor & Francis
 - iii. *Safety Science*, Elsevier
 - iv. *Accident Analysis and Prevention*, Elsevier
 - v. *Automation in Construction*, Elsevier
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4. Engineering Enhancements Taskforce, Oregon Work Zone Executive Strategy Committee, sponsored by ODOT, OSP, AGC, and Oregon Trucking Association. Member, 2014-2019.
 5. Manuscript Reviewer (peer-reviewed conference proceedings), *CIB W099 and TG59 International Safety, Health, and People in Construction Conference*, Salvador, Brazil, Aug. 1-3, 2018.
 6. Strategic Planning Council, National Institute for Occupational Safety and Health (NIOSH) Prevention through Design (PtD) initiative. Member, 2007-present (council currently not active).
 7. National Institute for Occupational Safety and Health (NIOSH) NORA Construction Hazard Prevention through Design (CHPtD) Workgroup. Corresponding Member, 2007-present (workgroup currently not active).
 8. NORA Green Construction Coordinating Committee, National Institute for Occupational Safety and Health (NIOSH). Member, 2011-present (committee currently not active).
 9. ANSI A10 Construction and Demolition OHS Standards Committee PtD Workgroup. Member, 2014-2017.
 10. Design for Safety Program Review, Southern Company, Birmingham, AL, Sept. 15-16, 2016. Consultant.
 11. *2016 Construction Research Congress*, ASCE, San Juan, Puerto Rico, May 31 – June 2, 2016. Manuscript Reviewer, 2015-2016.
 12. *International Health and Safety Conference: Benefitting Workers and Society through Inherently Safe(r) Construction*, CIB W099 – Safety and Health in Construction, Ulster University, Jordanstown Campus, Belfast, Northern Ireland, September 10-11, 2015. Member, Conference Scientific and Technical Committee, and Session Moderator, 2014-2015.
 13. External Project Review Community, Innovative Manufacturing and Construction Research Centre (IMCRC), Loughborough University. Member, 2007.
 14. Education Subcommittee, National Institute for Occupational Safety and Health (NIOSH) Prevention through Design (PtD) initiative. Member, 2009-2013.
 15. *International Conference on Achieving Sustainable Construction Health and Safety*, W099 – Safety and Health in Construction, International Council for Research and Innovation in Building and Construction (CIB), Lund, Sweden, June 2-3, 2014. Manuscript Reviewer, 2013-14.
 16. *2014 Construction Research Congress*, ASCE, Atlanta, GA, May 19-21, 2014. Manuscript Reviewer, 2013-14.
 17. *2014 Construction Engineering Conference: Leveraging Project and Career Success*, Seattle, WA, March 27-29, 2014. Session Moderator.
 18. Oregon Public Construction Contracting Work Group Advisory Committee, established by Sen. Lee Beyer and Rep. Paul Holvey, Oregon State Legislature. Member, 2011-2013.

19. *CIB W099 International Conference on "Modeling and Building Health and Safety,"* Singapore, Sept. 10-11, 2012. Manuscript Review Committee.
20. *2012 Construction Research Congress*, ASCE, West Lafayette, IN, May 21-23, 2012. Manuscript Reviewer, 2011-12.
21. *National Institute for Occupational Safety and Health (NIOSH) Prevention through Design (PtD) Conference and Workshop*, Washington, DC, Aug. 22-24, 2011. Member, Planning Committee.
22. *CIB W99 "Prevention through Design: Lessons Learned from the Construction Industry" Conference*, Washington, DC, Aug. 24-26, 2011. Member, Planning Committee.
23. *International Conference on Sustainable Design and Construction*," sponsored by AIA and ASCE-CI, Kansas City, Missouri, March 23-25, 2011. Member, Scientific Committee.
24. *CIB World Congress 2010*, International Council for Research and Innovation in Building and Construction (CIB), The Lowry, Salford Quays, UK, May 10-13, 2010. Manuscript Reviewer.
25. *Making Green Jobs Safe Workshop*, National Institute for Occupational Safety and Health (NIOSH), Washington, D.C., Dec. 14-16, 2009. Member, Planning Committee.
26. *14th International Symposium on Advancement of Construction Management and Real Estate*, Nanjing, China, Oct. 29-31, 2009. Member, International Scientific Committee.
27. *Working Together: Planning, Designing and Building a Safe and Healthy Construction Industry*, International Council for Research and Innovation in Building and Construction (CIB) W99 International Conference, Melbourne, Australia, Oct. 21-23, 2009. Member, Scientific and Technical Committee.
28. International Council for Research and Innovation in Building and Construction (CIB) TG-59 *People in Construction Conference*, Port Elizabeth, South Africa, July 12-14, 2009. Manuscript Reviewer.
29. *Evolution of and Directions in Construction Safety and Health*, International Council for Research and Innovation in Building and Construction (CIB) W99 Working Commission Rinker International Conference, Gainesville, FL, March 9-11, 2008. Member, Scientific and Technical Committee, and Session Moderator.
30. National Institute for Occupational Safety and Health (NIOSH) Prevention through Design Workshop, Washington, DC, July 9-11, 2007. Member, Planning Committee, and Rapporteur for Research Functional Area.
31. Design for Safety Program Review, Southern Company, Birmingham, AL, Mar. 6-7, 2007. Consultant.
32. *International Conference on Global Unity for Safety & Health in Construction*, sponsored by the International Council for Research and Innovation in Building and Construction (CIB) W99 Working Commission and Tsinghua University, Beijing, China, June 28-30, 2006. Member, Scientific and Technical Committee.
33. *ASCE Construction Research Congress 2005*, San Diego, CA, April 5-7, 2005. Session Moderator and Track Chair.
34. Construction Institute Day, 2004 ASCE Annual Conference, Baltimore, MD, Oct. 20-22, 2004. Moderator, Constructability Sessions.
35. *Research Priorities Meeting*, The Center to Protect Workers' Rights (CPWR), Silver Spring, MD, Apr. 4, 2003. Member, Research Panel.
36. "Trends in Project Management", *2003 Construction Research Congress*, sponsored by ASCE, Honolulu, HI, March 19-21, 2003. Track Coordinator.

37. National Institute for Occupational Safety and Health (NIOSH) National Occupational Research Agenda (NORA) Intervention Effectiveness Program (#OH-00-002), June 2000. Member, Review Panel.
38. *The People's Law School 2000*, Nevada Foundation for Consumer Education, Carson City, NV, May 19, 2000. Panelist.
39. *Research Forum on Intervention Research in the Construction Industry*, The Center to Protect Workers' Rights (CPWR), Cambridge, MA, March 30-31, 2000. Member, Research Panel.
40. *Proceedings of the American Society of Civil Engineers (ASCE) Construction Congress VI*, Orlando, FL, Feb. 20-22, 2000. Technical Paper Reviewer.
41. *American Society of Civil Engineers (ASCE) Construction Congress VI*, Orlando, FL, Feb. 20-22, 2000. Session Moderator.
42. National Institute for Occupational Safety and Health (NIOSH) National Occupational Research Agenda (NORA) Intervention Effectiveness Program (#99150), Aug. 1999. Member, Review Panel.
43. *8th Annual Construction Safety Conference*, Construction Safety Council, Chicago, IL, Feb. 1998. Session Moderator.

Conference and Workshop Planning, Organizing, and Hosting:

1. *Safety Summit 2015*, Corvallis, OR, June 18-19, 2015. Organizer and Host.
2. *Designing for Safety and Health in Construction Research and Practice Symposium*, sponsored by: University of Oregon; Center to Protect Workers' Rights; National Institute for Occupational Safety and Health; Oregon State University; and Industrial Design and Construction, Portland, OR, Sept. 15-16, 2003. Planning Committee Member and Manuscript Reviewer.

Other Service and Professional Interactions:

1. ASCE Construction Institute, Construction Safety Committee, Member, 1997-present
 - a. Chair, Site Safety Subcommittee, 2018-present
 2. ASCE Construction Institute, Construction Engineering Education Committee, Member, 2013-present.
 3. Construction Industry Institute (CII), Safety Community of Business Advancement. Member, 2012-present.
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4. Oregon *Built Environment & Sustainable Technologies* (BEST) Center. Member Faculty.
 5. General Services Administration (GSA) National Register of Peer Professionals Program. Peer Professional, 2004-2007.
 6. Labor and Personnel Issues, *ASCE Journal of Construction Engineering and Management*. Assistant Specialty Editor, 2003-2006.
 7. Associated Schools of Construction (ASC), *Journal of Construction Education*. Editorial Advisory Board Member, 1999-2000.
 8. Associated Schools of Construction (ASC), *Journal of Construction Education*. Review Board Member, 1999-2000.
 9. American Council for Construction Education (ACCE) review of Construction Management Program at University of New Mexico, Sept. 1999. Accreditation Site Visit Team Member - Member-in-Training.

UNIVERSITY SERVICE

Oregon State University:

1. CCE Safety Research Focus Area. Group Leader, 2018-present.
 2. OSU Faculty Senate. Member, 2016-present.
 3. OSU Human Centered Design (HCD) group. Member, 2016-present.
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4. CCE Strategic Governance Committee. Member, 2015-2016.
 5. College of Engineering Research Council. Member, 2014-2015.
 6. College of Engineering Faculty Status Committee. Member, 2011-2017; Vice-Chair, 2012-2013; Chair, 2013-2014.
 7. Graduate Committee, School of Civil and Construction Engineering. Member, 2001-2006 and 2010-2013, and 2014-2015; Chair, 2002-2003, 2004-2006, 2011-2013.
 8. Coordinator, CEM Program, School of Civil and Construction Engineering, 2014-2015.
 9. Member, College of Engineering Strategic Planning Task Force (Community Task Force), 2014-2015.
 10. Faculty Advisory Committee, College of Engineering, Member, 2013-2014.
 11. Faculty Senate Student Recognition and Rewards Committee. Member, 2011-2014.
 12. Marketing and Recruitment Committee, School of Civil and Construction Engineering. Member, 2008-2009.
 13. Assistant Department Head for CEM, School of Civil and Construction Engineering, 2006-2009.
 14. Faculty Status Committee, School of Civil and Construction Engineering. Member, 2007-2009.
 15. Engineers Without Borders (EWB) Student Chapter. Faculty Advisor, 2005-2008.
 16. College of Engineering Graduate Council. Member, 2005-2007.
 17. Scholarship Committee, Department of Civil, Construction and Environmental Engineering. Member, 2006-2007.
 18. Associated General Contractors (AGC) Student Chapter. Faculty Advisor, 2003-2006.
 19. Department of Civil, Construction and Environmental Engineering. Graduate Coordinator, 2004-2006.
 20. Curriculum Committee, Department of Civil, Construction and Environmental Engineering. Member, 2000-2001, and 2003-2005.
 21. A/E and CM/GC Contractor Selection Committee for Apperson Hall renovation project. Member, 2004-2005.
 22. CM/GC Contractor Selection Committee for new OSU Engineering Building. Member, 2002.
 23. Faculty Search Committees, CCE:
 - a. Construction positions, 2003-2004, 2013-2014, 2015-2016
 - b. Structures position, 2012-2013 (Chair)
 - c. Resilient Infrastructure position, 2010-2011 (Chair)
 - d. Geomatics positions, 2008-2009, 2011-2012 (Chair)
 - e. Sustainability position, 2007-2008 (Chair)
 - f. CEF Chair position, 2007-2008 (Chair)
 - g. Infrastructure position, 2003-2004
 - h. Geotech position, 2003
 - i. CEM Endowed Faculty positions, 2002
 24. Faculty Search Committees, School of Biological and Population Health Sciences, OSU:
 - a. Environment and Occupational Health position, 2014-2015

University of Nevada, Las Vegas:

1. Search Committee - Dean of the College of Engineering, 1999-2000.
2. Graduate Council, Construction Management Program Representative, 1999-2000.
3. Scholarship Committee, College of Engineering, 1997-2000.
4. Facilities and Space Committee, Dept. of Civil and Environmental Engineering, 1997-2000.
5. Curriculum Review Committee, Construction Management Program, 1997-2000.
6. Associated General Contractors (AGC) Student Chapter. Faculty Advisor, 1997-2000.
7. Coordinator, Applied Technologies Academy Distance Education Course, Department of Civil and Environmental Engineering, University of Nevada, Las Vegas, Mar. 1998.

University of Washington:

1. Faculty Council on University Facilities and Services. Member, 1994-1995.
2. Graduate and Professional Student Senate. Member, 1993-1995.