

Deborah E. Dickerson

Associate Professor
Human Factors and Safety Engineering
Industrial and Systems Engineering
Virginia Tech

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Education

Doctor of Philosophy (2007)
Virginia Tech, Industrial and Systems Engineering (Safety Engineering)

Master of Science (2006)
Virginia Tech, Industrial and Systems Engineering (Safety Engineering)

Master of Science (1999)
North Carolina State University

Bachelor of Science (1996)
Virginia Tech

Certifications

Certified Industrial Hygienist (CIH) 2001 - present
Comprehensive Practice 8234CP; American Board of Industrial Hygiene

Certified Safety Professional (CSP) 2003 - present
Comprehensive Practice 17546; Board of Certified Safety Professionals

Certified Hazardous Materials Manager (CHMM) 2003 - present
Master Level 12240; The Institute of Hazardous Materials Management

Asbestos Management Planner 1999 – 2006
Virginia Department of Professional and Occupational Regulation
Board for Asbestos, Lead, and Home Inspectors

Asbestos Inspector 1999 -2006
Virginia Department of Professional and Occupational Regulation
Board for Asbestos, Lead, and Home Inspectors

OSHA Authorized Construction Trainer 2017 – 2021
U.S. Department of Labor Southeastern OTI Education Center



Areas of Expertise

Over 10 years of experience in OSHA and EPA compliance. Over 22 years as a scholar and educator of industrial hygiene, occupational safety, and safety engineering. Three major professional credentials in the OEHS field. Expertise in the following areas:

- Chemical and dust exposures
- Temperature extremes
- OSHA regulations and training
- Industrial incidents
- Training and warnings
- Ventilation systems
- Asbestos and Lead Management
- Respiratory protection
- Silica exposure
- Construction incidents
- Safe design of equipment
- Hazardous materials

Research Interests

Researching ways to control occupational **health hazards** through design of work, equipment, and the work environment

Experience

Associate Professor (August 2018 – present)

Virginia Tech, Grado Department of Industrial and Systems Engineering

Director, Healthy Work Design Laboratory

Associate Director, Occupational Safety and Health Research Center

Developing research, scholarship, and educational programs emphasizing control of hazards in manufacturing, construction, mining, and transportation sectors.

President (June 2014 – present)

Dickerson Consulting LLC

Providing consultation, design, training, and expert witness services in the areas of industrial hygiene, occupational safety, accident prevention, environmental compliance, and industrial process system design. Expert witness services for plaintiff and defense in federal and state jurisdictions.

Director (August 2018 – present)

Healthy Work Design Lab

Researching ways to improve the health of workers through design of work, management systems, and the physical and psychosocial work environment.

Associate Professor (June 2015 – July 2018)

Assistant Professor (August 2007 – June 2015)

Virginia Tech, Via Department of Civil and Environmental Engineering

Myers-Lawson School of Construction

Affiliate Assistant Professor, Industrial and Systems Engineering.

Developed research, scholarship and educational programs emphasizing control of hazards arising from the built environment and inherent to construction processes.

Center Director (July 2017 – December 2018)

Center for Innovation in Construction Safety, Health, and Wellbeing (IC-SAFE), Virginia Tech

Provided leadership to research center consortium of researchers, students, industry

leaders, worker and trades representatives, and professional staff conducting

interdisciplinary and transdisciplinary research to improve safety and health in construction.

Co-Director (1999-2006)

Environmental, Health & Safety Services, Virginia Tech

Co-led operation, including staff of 26 and combined budgets of 3.4 million. Responsible for environmental and occupational compliance services for the more than 10,000 employees of this major land-grant university.

Manager (1996-2006)

Occupational Health and Industrial Hygiene, Virginia Tech

Directed medical surveillance and industrial hygiene services, which served 8,000 employees, and included the following programs: chemical hygiene and laboratory safety, hazardous chemical waste management, asbestos and lead management, ergonomics, noise, vibration, chemical health hazards, industrial ventilation, non-ionizing radiation, laboratory safety, infection control, hearing conservation, pulmonary function testing, respiratory protection, asbestos and lead, and medical surveillance. Managed annual operating budget of 1.1 million.

Adjunct Instructor (1999-2006)

Industrial & Systems Engineering, Virginia Tech

Instructor Evaluation Ratings: 3.7 - 4.0 (range); 3.86 (mean), on a 4-point scale
Developed new curricula and taught coursework in industrial hygiene and occupational safety. Created laboratory and lecture instruction. Served on faculty committee to coordinate the NIOSH Training Grant Program for graduate education in safety engineering. Served on graduate student thesis committees. Provided leadership to senior design teams. Served as faculty co-advisor for student section of American Society of Safety Engineers.

Teaching and Advising

Courses Taught

Principles of Industrial Hygiene	1999 - 2021
Occupational Safety and Hazard Control	2000 - 2006
Prevention through Design	2008 - 2014
Building Technology System Design	2008 - 2010
Systems Engineering of Construction Processes	2007
Indoor Environmental Quality and Sustainable Facilities	2009 - 2011
Research Topics in Construction	2013
Research Presentation Methods	2015
Construction Management	2015 - 2018
Construction Health and Safety	2017 - 2018
Risk and Hazard Control	2019 - 2020
Introduction to Human Factors Engineering	2019 - 2020

Research Activities

Sponsored Research and Other Grants

(Total: \$12,904,208)

Project Title: BRIGE: Sustainable Healthy Schools

Sponsor: National Science Foundation

Funding Amount: \$174,275

Beginning/Ending Dates: 08/09-08/12

Percent Responsibility: 100%

Personal Share: \$174,275

Co-investigators: none

Role: Principal Investigator

Description: This National Science Foundation Broadening Participation Research Initiation Grant in Engineering (BRIGE) entitled, "Sustainable Healthy Schools: A Framework for Managing the Environmental Health of Public School Infrastructure". This project accomplished four goals, all pertaining to the maintenance management of asbestos- and lead-containing components of public school facilities. The goals included the development of: 1) visual inspection condition assessment methods, 2) condition index algorithms, 3) a streamlined life-cycle assessment methodology for ranking risk, and 4) an FMEA pilot system.

Project Title: Center for Innovation in Construction Safety and Health

Sponsor: National Institute for Occupational Safety and Health (NIOSH)

Funding Amount: \$9,887,239

Beginning/Ending Dates: 08/30/09 – 08/29/14

Co-investigators: B. Kleiner (PI), M. Nussbaum, D. Brinberg, T. Mills, T. Smith-Jackson, C. Evia

Role: Co-PI

Description: I served as a member of the leadership team of this large, multi-investigator application to NIOSH to establish a national center in construction OHS. While not successful in the competition for the \$20M national center site, the team was awarded a Cooperative Agreement grant to establish a smaller research center at Virginia Tech.

Project Title: Administrative Core

Sponsor: National Institute for Occupational Safety and Health (NIOSH)

Funding Amount: \$253,850

Percent Responsibility: 7%

Personal Share: \$17,770

Co-investigators: B. Kleiner (PI), M. Nussbaum, D. Brinberg, T. Mills, T. Smith-Jackson, C. Evia

Role: co-PI

Description: This fund supported the Center for Innovation in Construction Safety and Health, of which I served as Associate Director.

Project Title: (R01) Dust-control Use: Strategic Technology Intervention

Sponsor: National Institute for Occupational Safety and Health

Funding Amount: \$580,275

Beginning/Ending Dates: 08/09-08/13

Percent Responsibility: 70%

Personal Share: \$406,193

Co-investigators: C. Theodore Koebel, Urban Affairs and Planning

Role: Principal Investigator

Description: In project DUSTI, we designed a ventilated drywall sanding tool, performed usability testing, developed a cognitive conceptual model to predict "adoption readiness", developed intervention strategies to improve key model attitudinal constructs, created validated survey instruments to measure model constructs, and conducted a set of experimental tests of intervention effectiveness. The intervention strategies were developed for, and implemented in, three key stakeholder populations: workers, firm owners, and purchasing agents. Our theory-based behavioral and attitudinal interventions have produced significant changes in

stakeholder willingness to adopt the ventilated tool. This grant supported two doctoral students and three master's students.

Project Title: (R01) Prevention through Design (PtD) Adoption Readiness

Sponsor: National Institute for Occupational Safety and Health (NIOSH)

Funding Amount: \$251,071

Beginning/Ending Dates: 08/15/12-08/14/14

Percent Responsibility: 100%

Personal Share: \$251,071

Co-investigators: None

Role: PI

Description: Survey research to describe current attitudes toward PtD technology among concrete, masonry, asphalt roofing, and welding trades in the United States. The findings of the survey study will be employed in the development of interventions to improve stakeholder perceptions and attitudes toward these innovations.

Project Title: (T03) Safety and Ergonomics Training

Sponsor: National Institute for Occupational Safety and Health (NIOSH)

Funding Amount: \$757,272

Beginning/Ending Dates: 07/01/11-06/30/16

Percent Responsibility: 25%

Personal Share: \$189,318

Co-investigators: M.A. Nussbaum (PI), M. Agnew, B. Kleiner, J. Casali, T. Smith-Jackson, W. Winchester, T. Lockhart

Role: Co-PI

Description: This training grant (T3) provides graduate education, practicum experience, and assistantship funding to graduate students interested in studying occupational safety and health (OHS) and safety engineering. The grant supports three doctoral students.

Project Title: (T03) Safety and Ergonomics Training

Sponsor: National Institute for Occupational Safety and Health (NIOSH)

Funding Amount: \$637,834

Beginning/Ending Dates: 07/01/16-06/30/21

Percent Responsibility: 30%

Personal Share: \$191,350

Co-investigators: M.A. Nussbaum (PI), D. Srinivasan, J. Gabbard.

Role: Co-PI

Description: This training grant (T3) provides graduate education, practicum experience, and assistantship funding to graduate students interested in studying occupational safety and health (OHS) and safety engineering. The grant supports three doctoral students.

Project Title: Health Hazard Controls Industry Diffusion: Evidence-based intervention strategy

Sponsor: NIOSH/CPWR

Funding Amount: \$980,460

Beginning/Ending Dates: 11/01/19 – 10/31/24

Percent Responsibility: 100%

Personal Share: \$980,460

Role: PI

Description: The overall aim of this proposed research is to develop intervention strategies which will lead to an increased use of Prevention through Design solutions to control major construction health hazards: silica, welding fumes, and roofing asphalt fumes/vapors.

Project Title: Current Trends and Stakeholder Perceptions of Radon-resistant Home Construction

Sponsor: Institute for Culture, Society, and the Environment

Funding Amount: \$19,500

Beginning/Ending Dates: 5/16-8/16

Percent Responsibility: 75%

Personal Share: \$14,625

Co-investigators: McCoy

Role: PI

Description: This Summer Scholar grant from the Institute for Society, Culture, and the Environment provided funding to conduct a pilot survey research on current trends in Radon Resistant Construction in the U.S. homebuilding market.

Project Title: Interdisciplinary Graduate Education Program (IGEP). BioBuild: Bio-Inspired Buildings: Integrating Building and Biological Systems Theories to Transform the Built Environment

Sponsor: Dean of the Graduate School, Virginia Tech

Funding Amount: \$900,000

Beginning/Ending Dates: 8/13-8/16

Percent Responsibility: 12.5%

Personal Share: \$112,500

Co-investigators: Michael Garvin (PI), John Taylor, Georg Reichard, Annie Pearce, Rolf Mueller, Ignacio Moore, Art Buikema

Role: co-PI

Description: This grant is to support the creation of a multidisciplinary doctoral program in the area of bio-inspired building and infrastructure design.

Project Title: Positioning MLSoC to Discover Lifecycle Value in the Dynamic Construction Industry

Sponsor: Research Affiliates Program of the Myers-Lawson School of Construction

Funding Amount: \$75,000

Beginning/Ending Dates: 07/12-07/13

Percent Responsibility: 25%

Personal Share: \$18,750

Co-investigators: Garvin (PI), Pearce, Reichard

Role: Co-PI

Description: This grant provided seed funding to allow the team to develop a plan for the BioBuild proposal, which was ultimately funded.

Project Title: Prevention through Design in Masonry

Sponsor: Center for Innovation in Construction Safety and Health

Funding Amount: \$5,000

Beginning/Ending Dates: 1/2011-7/2011

Percent Responsibility: 100%

Personal Share: \$5,000

Co-investigators: none

Role: PI

Description: Pilot project grant to perform study of ventilated saw design.

Project Title: CICS H Leadership Fellowship
Sponsor: Institute for Critical Technology and Applied Science (ICTAS)
Funding Amount: \$5,000
Beginning/Ending Dates: 1/2009-12/2009
Percent Responsibility: 100%
Personal Share: \$5,000
Co-investigators: none
Role: PI
Description: Funds provided by ICTAS for serving on leadership team of the Center for Innovation in Construction Safety and Health

Project Title: Occupational Respiratory Hazards
Sponsor: Institute for Critical Technology and Applied Science (ICTAS)
Funding Amount: \$10,000
Beginning/Ending Dates: 1/2009-6/2009
Percent Responsibility: 100%
Personal Share: \$10,000
Co-investigators: none
Role: PI
Description: Pilot project grant to conduct field data collection regarding silica exposures in construction.

Project Title: Interdisciplinary Team Fellowship in Pervasive Computing Design
Sponsor: Office of Vice President for Research at Virginia Tech
Funding Amount: \$100,000
Beginning/Ending Dates: 08/2008-05/2009
Percent Responsibility: 10%
Personal Share: \$10,000
Co-investigators: Martin (PI), Dorsa, Coupey, Kemnitzer, O'Brien, McNair
Role: co-PI
Description: This grant funded the creation of an interdisciplinary research team, focusing on pervasive computing design.

Project Title: Graduate Student Tuition Support
Sponsor: DARPA
Funding Amount: \$7,500
Beginning/Ending Dates: 1/2008-12/2008
Percent Responsibility: 100%
Personal Share: \$7,500
Co-investigators: none
Role: PI
Description: Graduate stipend received from DARPA for participation in design competition.

Project Title: Building-related Environmental Assessment and Technology in Housing, Existing (BREATHE)
Sponsor: Institute for Culture, Society, and the Environment
Funding Amount: \$18,000
Beginning/Ending Dates: 5/2008-8-2008
Percent Responsibility: 50%
Personal Share: \$9,000
Co-investigators: Pearce

Role: PI

Description: This Summer Scholar grant from the Institute for Society, Culture, and the Environment provided funding to conduct a pilot study of indoor environmental quality in homes.

Project Title: Pervasive Computing Innovations in Occupational Exposure Monitoring

Sponsor: Institute for Critical Technology and Applied Science (ICTAS)

Funding Amount: \$10,000

Beginning/Ending Dates: 2007-2008

Percent Responsibility: 100%

Personal Share: \$10,000

Co-investigators: none

Role: PI

Description: This pilot grant from CICSHE provided funding to conduct exploratory testing of a design prototype for a wearable sensor to detect carbon monoxide over-exposure.

Project Title: Respiratory Hazard Monitoring

Sponsor: Institute for Critical Technology and Applied Science (ICTAS)

Funding Amount: \$19,500

Beginning/Ending Dates: 2007-2008

Percent Responsibility: 100%

Personal Share: \$19,500

Co-investigators: none

Role: PI

Description: This pilot grant was received from ICTAS to perform testing of a design for a ventilated sanding tool.

Project Title: Interdisciplinary Team Fellowship in Pervasive Computing Design

Sponsor: Office of Vice President for Research at Virginia Tech

Funding Amount: \$100,000

Beginning/Ending Dates: 2007-2008

Percent Responsibility: 10%

Personal Share: \$10,000

Co-investigators: Martin (PI), Dorsa, Coupey, Kemnitzer, O'Brien, McNair

Role: co-PI

Description: This grant funded the creation of an interdisciplinary research team, focusing on pervasive computing design.

Publications

Book chapter

1. Young-Corbett, DE. (2013). Prevention through Design: Eliminating Occupational and Environmental Risk through Design of Equipment, Work, and Systems. *Chapter in: The Handbook of Industrial and Systems Engineering*, 2nd Edition. Taylor and Francis, CRC Press. Boca Raton, FL. Badiru, AB, editor.

Papers in refereed journals

1. Howarth, J., Pyla, P.S., Yost, B., Haciahmetoglu, Y., Young, D., Ball, R., Lambros, S. and Layne, P. (2007). Designing a Conference for Women Entering Academe in the Sciences and Engineering. *Advancing Women in Leadership (AWL) Journal*. (23): 30 pages (online). <http://www.advancingwomen.com/awl/spring2007/howarth.htm>
2. Young-Corbett, D.E. and Nussbaum, M.A. (2009a). Dust Control Technology Usage Patterns in the Drywall Finishing Industry. *Journal of Occupation and Environmental Hygiene*. 6(6): 315-323. (2009 Impact Factor: 1.180)
3. Young-Corbett, D.E. and Nussbaum, M.A. (2009b). Dust Control Effectiveness of Drywall Sanding Tools. *Journal of Occupational and Environmental Hygiene*. 6(7): 385-389. (2009 Impact Factor: 1.180)
4. Young-Corbett, D.E., Nussbaum M.A. and Winchester, W.W. (2010). Usability evaluation and redesign specifications for drywall sanding tools. *International Journal of Industrial Ergonomics*. 40(1): 112-118. (2010 Impact Factor: 1.290)
5. Forsyth, J.B.*, Martin, T.L., Young-Corbett, D.E., Dorsa, E. (2012). Feasibility of Intelligent Monitoring of Construction Workers for Carbon Monoxide Poisoning. *Journal of IEEE Transactions on Automation Science and Engineering*. 9(3): 505-515. (2012 Impact factor: 1.46)
6. Bhattacharjee, S., Ghosh, S*, Young-Corbett, D., Fiori, C. (2013). Comparison of Industry Expectations and Student Perceptions of Knowledge and Skills Required for Construction Career Success. *International Journal of Construction Education and Research* 9(1):19-38.
7. Popov, G, Blunt, LA, McGlothlin, G, Young-Corbett, D, Zey, JN, Heckel, P, (2013). Integrating Prevention through Design in Undergraduate Curricula. *Professional Safety: Journal of the American Society of Safety Engineers*. March 2013: 44-49.
8. Young-Corbett. (2014). Prevention through Design (PtD): Health Hazards in Asphalt Roofing. *Journal of Construction Engineering and Management*. 140(9): September 2014.
9. Weidman, J., Dickerson, D. E., & Koebel, C. T. (2015). Intervention to improve purchasing decision-maker perceptions of ventilated tools. *Journal of Construction Engineering and Management*, 141(6), 04015007.
10. Weidman, J., Dickerson, D. E., & Koebel, C. T. (2015). Prevention through design adoption readiness model (PtD ARM): An integrated conceptual model. *Work*, 52(4), 865-876.
11. Ghosh, S., & Dickerson, D. (2015). Modified interaction process analysis as a macroergonomic method of analyzing communication patterns in construction. *IIE Transactions on Occupational Ergonomics and Human Factors*, 3(1), 45-57.
12. Weidman, J., Dickerson, D., & Koebel, C. T. (2015). Prevention through Design: A Macroergonomic Conceptual Approach to Risk Reduction. *IIE Transactions on Occupational Ergonomics and Human Factors*, 3(1), 24-36.

13. Dickerson, D. E., & Ackerman, P. J. (2016). Risk-based maintenance management of US public school facilities. *Procedia Engineering*, 145, 685-692.
14. Weidman, J., Dickerson, D. E., & Koebel, C. T. (2016). Effective intervention strategy to improve worker readiness to adopt ventilated tools. *Journal of Construction Engineering and Management*, 142(8), 04016028.
15. Dickerson, D. E. (2016). Environmental relative burden index: a streamlined life cycle assessment method for facilities pollution prevention. *Journal of Green Building*, 11(1), 95-107.
16. Weidman, J. E., Dickerson, D. E., & Koebel, C. T. (2016). Technology Champions: A Theory-Based Intervention to Improve Adoption of Occupational Safety Innovations. *International Journal of Construction Education and Research*, 12(3), 193-207.
17. Kim, S., Nussbaum, M. A., Schoenfisch, A. L., Barrett, S. M., Bolding, M. C., & Dickerson, D. E. (2017). Occupational Safety and Health Concerns in Logging: A Cross-Sectional Assessment in Virginia. *Forests*, 8(11), 440.
18. Ghosh, S., Dickerson, D. E., & Mills, T. (2017). Effect of the Last Planner System® on Social Interactions among Project Participants. *International Journal of Construction Education and Research*, 1-18.

Papers in refereed conference proceedings

1. Sexton-Lewis, P.*, Kleiner, B.M., and Young, D.E. (2004). User feedback on Moldex N-100 filtering face-piece design. Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society. (pp: 2013 – 2017) New Orleans, LA.
2. Young, D.E. and Kleiner, B.M. (2008). Drywall finishing industry: macro-ergonomic evaluation and intervention design. *Proceedings of the 9th edition of Human Factors in Organizational Design and Management (ODAM) International Symposium*. L. Sznclwar, F. Marcia and U. Montedo (Editors); Sao Paulo, Brazil.
3. Young-Corbett, D.E. (2009). Building-related Environmental Assessment and Technology in Housing, Existing (BREATHE): development of standardized protocols for evaluating the indoor environmental quality of existing housing. *Proceedings of the 9th International Conference and Exhibition of Healthy Buildings 2009*. September 13-17. Syracuse, NY. USA.
4. Ghosh, S.*, and Young-Corbett, D. (2009). Intersection between Lean Construction and Safety Research: A Review of Literature. *Proceedings of the 2009 Industrial Engineering Research Conference*, May 30 – June 3, Miami, FL.
5. Ghosh, S.*, Young-Corbett, D., and Fiori, C. M. (2010). Emergent Themes of Instruments used to Measure Safety Climate in Construction. *Proceedings of the 2010 Construction Research Congress (CRC2010)*, May 8 – 11, Banff, Alberta.
6. Bhattacharjee, S., Ghosh, S.*, and Young-Corbett, D. (2010). Energy Service Performance Contracting in Construction: A Review of the Literature. *Proceedings of the 46th ASC Annual International Conference*, held April 7- 10, Boston, MA.

7. Sexton-Lewis, P.*, Young-Corbett, D.E., and Kleiner, B.M. (2010). Bioaerosol Exposures and Respiratory Symptoms Associated with Landscaping Mulch-handling Task. American Industrial Hygiene Conference and Exposition. May 22-27, Denver, CO, USA.
8. Bhattacharjee, S.*, Ghosh, S.*, and Young-Corbett, D. (2010). The Next Step to Improve Safety – Prevention through Design. Proceedings of 2010 Associated Schools of Construction Region III Conference. October 20-23, 2010. Downers,GA.
9. Young-Corbett, D and Ackerman, P.* (2011). Condition Assessment Methodologies for Public School Indoor Environmental Health. *Proceedings of Indoor Air 2011: The 12th International Conference on Indoor Air Quality and Climate*. Austin, TX. June 5-10, 2011.
10. Young-Corbett, D. (2011). Sustainable Healthy Schools: A Lifecycle Analysis (LCA) Framework for Facility Condition Management. *Proceedings of the International Conference on Sustainable Design and Construction*. American Society of Civil Engineers. Kansas City, MO. March 23-25, 2011.
11. Bhattacharjee, S., Ghosh, S.*, and Young-Corbett, D. (2011) The Next Step to Improve Safety – Prevention through Design. *47th Annual International Conference of Associated Schools of Construction*. April 6-9, 2011. Omaha, Nebraska, USA.
12. McNair, L., Young-Corbett, D. (2011). Building New Engineering Education Theory and Practice for Interdisciplinary Pervasive Computing Design. *Proceedings of the 2011 Annual Conference and Exposition of the American Society for Engineering Education*. Vancouver, BC, Canada. June 26 – 29, 2011.
13. Forsyth, J.B.*, Martin, T.L., Young-Corbett, D., Dorsa, E. (2011) Feasibility Study of a Wearable Carbon Monoxide Warning System for Construction Workers. *9th Annual IEEE International Conference on Pervasive Computing and Communications (PerCom 2011)*. Seattle, WA. March 21-25, 2011.
14. Ghosh, S.*, Bhattacharjee, S., and Young-Corbett, D. (2011). Identifying Critical Barriers Inhibiting Use of ESPC in the Private Building Sector. *47th Annual International Conference of Associated Schools of Construction*. April 6-9, 2011. Omaha, Nebraska, USA.
15. Bhattacharjee, S., Ghosh, S.*, and Young-Corbett, D. (2011). Safety Improvement Approaches in Construction Industry: A Review and Future Directions. Proceedings of the 47th Annual International Conference of Associated Schools of Construction. April 6-9, 2011. Omaha, Nebraska, USA.
16. Ghosh, S.*, Young-Corbett, D., and Van Aken, E. (2011). Role of Social Interaction in Construction Production Planning: A Conceptual Model. *Proceedings of the Institute of Industrial Engineers (IIE) Annual Conference and Expo 2011*. May 21 – May 25, 2011, in Reno, Nevada, USA.
17. Young-Corbett, D and Ackerman, P. (2011). Condition Assessment Methodologies for Public School Indoor Environmental Health. *Proceedings of Indoor Air 2011: The 12th International Conference on Indoor Air Quality and Climate*. Austin, TX. June 5-10, 2011.

18. Ghosh, S.*, and Young-Corbett, D. (2011). Barriers to the Adoption of Prevention through Design (PtD) Controls among Masonry Workers. *International Council for Research and Innovation in Building and Construction Conference (CIB W099 Conference 2011)*, Washington, DC, USA, August, 2011.
19. Weidman, J.E.*, Young-Corbett, D., Koebel, C.T., Fiori, C., and Montague, E.N. (2011). Prevention through Design: Use of the Diffusion of Innovation Model to Predict Adoption. *International Council for Research and Innovation in Building and Construction Conference (CIB W099 Conference 2011)*, Washington, DC, USA. August, 2011.
20. Forsyth, J. B.*; Martin, T. L.; Young-Corbett, D.; Dorsa, E. (2012); , "Feasibility of Intelligent Monitoring of Construction Workers for Carbon Monoxide Poisoning," *Automation Science and Engineering, IEEE Transactions on* , vol.9, no.3, pp.505-515, July 2012 doi: 10.1109/TASE.2012.2197390
21. Young-Corbett, D. (2012). Life Cycle Assessment (LCA) of Asbestos and Lead Building Materials in Schools: Goal and Scope Definition. *ICSDC 2011: Integrating Sustainability Practices in the Construction Industry*; Eds. Wai Kiong, Oswald Chong, and Christopher Hermreck; International Conference on Sustainable Design and Construction (ICSDC) 2011; Kansas City, Missouri, March 23-25, 2011.
22. Goldberg, A.* and Young-Corbett, D. (2014). Decision making in commercial construction. *Human Factors in Organizational Design and Management XI: Nordic Ergonomics Society Annual Conference 46*. Broberg, O., Fallentin, N., Hasle, P., Jensen, P.L., Kabel, A., Larsen, M.E., Weller, T. (editors). Copenhagen, Denmark. August 17-20, 2014.
23. Goldberg, A.* and Young-Corbett, D. (2014). Adoption Readiness of Prevention through Design (PtD) Controls in Concrete, Masonry, and Asphalt Roofing. *2014 Construction Research Congress*. Georgia Institute of Technology, Atlanta, GA, USA; May 19-21, 2014.
24. Dickerson, D. E., & Ackerman, P. J. (2016). Risk-based Maintenance Management of US Public School Facilities. In O. Chong, K. Parrish, P. Tang, D. Grau, & J. Chang (Eds.), *ICSDEC 2016 - INTEGRATING DATA SCIENCE, CONSTRUCTION AND SUSTAINABILITY* Vol. 145 (pp. 685-692). Arizona State Univ, Coll Avenue Commons, Tempe, AZ: ELSEVIER SCIENCE BV. doi:10.1016/j.proeng.2016.04.069
25. Dickerson, D.E. (2017). Current Trends and Stakeholder Perceptions of Radon-resistant Home Construction Engineering Sustainability 2017: Innovation and the Triple Bottom Line; Pittsburgh, PA. April 9-11.
26. Dickerson, D.E. (2017). Using the Environmental Relative Burden Index (ERBI) to Evaluate Pollution Prevention Options"Engineering Sustainability 2017: Innovation and the Triple Bottom Line; Pittsburgh, PA. April 9-11.
27. Dickerson, D.E. (2018). Total Worker Health® Approach to Improving Construction Worker Safety and Health. Institute of Industrial and Systems Engineers (IISE) Annual Conference and Expo 2018. Orlando, Florida. May 19-23, 2018.

28. Dickerson, D.E. (2018). Prevention through Design: Stakeholder Perceptions of PtD Solutions in Construction. Institute of Industrial and Systems Engineers (IISE) Annual Conference and Expo 2018. Orlando, Florida. May 19-23, 2018.

Awards, Recognition, Invited Presentations

1. Best Paper Award

IEEE Transactions Best Paper of 2012:

Forsyth, J.B., Martin, T.L., Young-Corbett, D.E., Dorsa, E. (2012). Feasibility of Intelligent Monitoring of Construction Workers for Carbon Monoxide Poisoning. *Journal of IEEE Transactions on Automation Science and Engineering*. 9(3): 505-515. (2011 Impact factor: 1.46) From the reviewers: "The selection is a very nice paper with a creative and highly practical innovation to protect construction workers from CO poisoning with an in-helmet sensor. The authors motivate their design, report the implementation details, develop an elegant model to filter out motion and to model reliability, and then perform a convincing user study."

2. Invited keynote presentations or lectures

- *National Conference on Prevention through Design*, National Institute for Occupational Safety and Health. August 23, 2011. Arlington, VA. Invited to speak on Prevention through Design in Engineering Education.
- *The Engineer of 2020 Workshop*, Purdue University. September 20, 2011. Invited to Speak on Prevention through Design.
- *Prevention through Design Workshop 2021*, Arizona State University. May 26-27, 2021. Keynote speaker on Prevention through Design for Health Hazards.

Service Activities

- National Institute for Occupational Safety and Health, National Occupational Research Agenda (NORA) Construction Sector Council (2017-present)
- National Institute for Occupational Safety and Health, National Occupational Research Agenda (NORA); Healthy Work Design and Wellbeing Cross Sector Council (2018-present)
- Member: Advisory committee on Prevention through Design inclusion in the undergraduate engineering curriculum. National Institute for Occupational Safety and Health (NIOSH) (2011-2012)