

**Tracy L. Zontek, Ph.D.**  
[tzontek@ut.edu](mailto:tzontek@ut.edu)

**Curriculum Vitae**

**Education**

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- 2006            Ph.D.; University of Nebraska – Lincoln, Educational Administration  
Dissertation: *Factors Contributing to Occupational Injuries in Direct Care Workers.*
- 1994            M.S.P.H.; University of North Carolina at Chapel Hill,  
Environmental Science and Engineering  
Thesis: *A Method to Determine the Homogeneity of Noise Exposure Groups and  
Criteria for Enrollment into a Hearing Conservation Program.*  
Awarded the Department of Energy Industrial Hygiene Fellowship.
- 1992            B.S.; Clarkson University, Potsdam, NY, Biology/ Environmental Toxicology

**Professional Certification**

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- American Board of Industrial Hygiene, *Certified Industrial Hygienist (CIH)*, # 7786
- Board of Certified Safety Professionals, *Certified Safety Professional (CSP)*, # 15819

**Higher Education Experience**

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**University of Tampa**, Tampa, FL (2018-present)  
**Associate Professor of Health Sciences & Human Performance**

*Teaching*

August 2018 – present

All courses utilize Blackboard and online components.

- HSC 440 – Health Policy and Social Change
- HSC 100 – Personal & Family Health

**Western Carolina University**, Cullowhee, NC (2003-2018)

*Professor, School of Health Sciences*

*Program Director, Environmental Health Program (January 2016-June 2018)*

*Teaching*

January 2003 – June 2018

All courses utilize Blackboard and online components.

- ENVH 483 – *Environmental Health Internship*
- ENVH 480 – *Independent Study*
- ENVH 460 – *Senior Seminar*
- ENVH 458 – *Environmental Law*
- ENVH 457 – *Industrial Hygiene*
- ENVH 450 – *Quantitative Air Analysis*
- ENVH 410 – *Radiation Safety*
- ENVH 317 – *Noise and Hearing Conservation*
- ENVH 310 – *Water Quality*

- ENVH 311 – *Water Quality Laboratory*
- ENVH 300 – *Occupational Health*
- ENVH 230 – *Introduction to Environmental Health*
- ENVH 215 – *Principles of Personal Protective Equipment*
- ENVH 210 – *Global Disparities in Public Health*
- ENVH 200 – *Introduction to Public Health*
- ENVH 190 – *From Black Death to Bioterrorism: The Public Health Response*
- HSCC 220 – *Medical Terminology*
- HSCC 101 – *Nutrition, Fitness, and Wellness*
- ND 190 – *Personal Nutrition*

**Embry-Riddle Aeronautical University, Worldwide Campus**

*Adjunct Professor, College of Aeronautics, Master of Occupational Safety Management Program*

*Teaching*

*October 2015 – present*

*All courses are taught completely online using Canvas.*

- SFTY 501 - *Industrial Hygiene & Toxicology*
- SFTY 691 - *Graduate Capstone Course*

***Service***

- Chair, Peer Observation Task Force, Western Carolina University, School of Health Sciences
- Member, WCU Student Learning Outcomes Assessment Committee
- Member, Western Carolina University, College of Health and Human Sciences, Clinical Education Committee
- Member, Western Carolina University, College of Health and Human Sciences, Scholarship Committee
- Member, Western Carolina University, Tenure, Promotion and Reappointment Committee
  - Experience at department, college and university levels
- Member, American Society of Safety Engineers, Future Safety Leader Conference Committee
- Member, Institutional Biosafety Committee, Western Carolina University
- Chair, WCU School of Music Dooley Excellence in Music Teaching Award
- Member, Chancellor’s 2020 Strategic Planning Commission, Subcommittee on Fulfilling Educational Needs of the State and Region
- Member, First Year Experience Faculty Focus Team
- Exam Reviewer, Centers for Disease Control and Prevention (CDC) Environmental Public Health Online Courses (EPHOC)
- Faculty advisor to WCU student section of the American Society of Safety Engineers
- Faculty liaison to the American Society of Safety Engineers, Piedmont Section
- eLearning Faculty Mentor, Coulter Faculty Center
- Member, UNC-T Health Committee
- Member, Western Carolina University Liberal Studies Oversight Committee
- Member, Undergraduate Research Committee, Honors College
- Chair, School of Health Sciences TPR/CRD Review Committee
- Member, AIDS Quilt Committee
- Chair, Chancellor’s Distinguished Teaching Award Committee
- Member, Excellence in Teaching Liberal Studies Award Committee
- Member, Nursing Assistant Conference Committee, Mountain Area Health and Education Center, Asheville, NC
- Chair, Health Services Study Group, Western Carolina University

- Member, Sexual Health Sub-committee, Western Carolina University
- Member, Wellness Council, Western Carolina University
- Member, Nutrition Sub-committee, Western Carolina University
- Member, College of Applied Sciences Safety Committee, Western Carolina University
- Member, College of Applied Sciences Gerontology Group, Western Carolina University
- Participant in *Open Classrooms Project*, Western Carolina University
- Participant in learning communities to augment first-year student success, Western Carolina University

### **Scholarship**

#### Peer Reviewed Publications

**Zontek, T.L.**, Jankovic, J.T., Moore, M., Ogle, B. & Hollenbeck, SM. (2018). Preferred sampler inlet configurations for collection of aerosolized nanoscale materials. *International Journal of Occupational and Environmental Health*, In press, available at <http://dx.doi.org/10.1080/10773525.2018.1484995>.

**Zontek, T.L.**, Ogle, B., Hollenbeck, S. & Jankovic, J.T. (2017). A comparison of occupational exposure limits and their relationship to reactive oxide species. *Journal of Chemical Health and Safety*, in press, available at <http://www.sciencedirect.com/science/article/pii/S1871553217300348>.

**Zontek, T.L.**, Jankovic, J.T., Ogle, B. & Hollenbeck, S. (2016). An exposure assessment of desktop 3D printing. *Journal of Chemical Health and Safety*, 24(2), 15-25.

Jankovic, J.T., Ogle, B.R., **Zontek, T.L.**, Biegalski, M.D., Hollenbeck, S. & Wells, T. M. (2016). Suitability of polycarbonate safety glasses for UV laser eye protection. *Journal of Chemical Health and Safety*, 23(2), 29-33.

**Zontek, T.L.** (2016). *Chapter 16: Employee Health and Wellness in Planning and Managing the Safety System*, Friend, M.A. & Ferry, T.S. (editors). Government Institutes: Rockville, MD.

**Zontek, T.L.** & Ogle, B.R. (2016). *Chapter 17: Industrial Hygiene Planning and Managing the Safety System*, Friend, M.A. & Ferry, T.S. (editors). Government Institutes: Rockville, MD.

**Zontek, T.L.** & Hall, K.K. (2016). *Chapter 19: Hazardous Materials and Waste Management Planning and Managing the Safety System*, Friend, M.A. & Ferry, T.S. (editors). Government Institutes: Rockville, MD.

Jankovic, J.T., **Zontek, T.L.**, Ogle, B.R., and Hollenbeck, S. (2015). Direct reading particle counters: Calibration verification and multiple instrument agreement via bump testing. *Journal of Occupational and Environmental Health* 12(7): D116-22.

Ogle, B. & **Zontek, T.** (2014). *Chapter 6: Introduction to Industrial Hygiene in Fundamentals of Occupational Safety and Health (6<sup>th</sup> Ed)*, Friend, M.A., & Kohn, J.P. (editors). Government Institutes: Rockville, MD.

**Zontek, T.** & Ogle, B. (2014). *Chapter 15: Hazardous Materials in Fundamentals of Occupational Safety and Health (6<sup>th</sup> Ed)*, Friend, M.A., & Kohn, J.P. (editors). Government Institutes: Rockville, MD.

Hubble, M.W., **Zontek, T.L.**, Richards, M. E. (2010). Predictors of influenza vaccination among EMS personnel. *Prehospital Emergency Care* 15(2), 139-148.

Jankovic, J.T., **Zontek, T.L.**, Ogle, B.R., and Hollenbeck, S. (2010). Characterizing aerosolized particulate as part of a nanoprocess exposure assessment. *International Journal of Occupational and Environmental Health*, volume 16.4.

Jankovic, J.T., Hollenbeck, S., and **Zontek, T.L.** (2010). Ambient air sampling during quantum-dot spray deposition. *International Journal of Occupational and Environmental Health*, volume 16.4.

Jankovic, J.T., Ogle, B.R., Hall, M., Hollenbeck, S., and **Zontek, T.L.** (2010). Particle loss in a scanning mobility particle analyzer sampling extension tube. *International Journal of Occupational and Environmental Health*, volume 16.4.

Ogle, B. & **Zontek, T.** (2010). *Chapter 6: Introduction to Industrial Hygiene* in *Fundamentals of Occupational Safety and Health* (5<sup>th</sup> Ed), Friend, M.A., & Kohn, J.P. (editors). Government Institutes: Rockville, MD.

**Zontek, T.**, Ogle, B., & Ogle, R. (2010, March). Evaluation of an air monitoring protocol for nanoscale materials. *Professional Safety* (55)3.

**Zontek, T.** Ogle, B., & DuVernois, C. (2009, October). Job satisfaction and issues related to the retention of environmental health professionals. *Journal of Environmental Health* (72)3.

**Zontek, T.**, Isernhagen, J. & Ogle, B. (2009, August). Psychosocial factors contributing to occupational injury in direct care workers. *American Association of Occupational Health Nursing Journal* (57) 8.

### Fellowship

ORISE Faculty Fellowship, Oak Ridge National Laboratory, Summers, 2006-2018. Chosen by the Materials Science and Technology Division to research industrial hygiene monitoring of nanoscale materials.

### Grants

**Grant award (external funding)** by U.S. Environmental Protection Agency, Undergraduate Fellowship Program. Support for student education and research, Fall 2016 – Spring 2017, \$50,000.

**Grant award (external funding)** by Association of Environmental Health Academic Programs, *Meeting Students on Their Own Turf: Podcasting as a Method to Recruit Environmental Health Majors*. Fall 2007 – Fall 2008, \$4000

**Grant participant (external funding)** under principle investigator B. Ogle. The Northwest Partnership for Public Health, Internship Grant, *A study of job satisfaction among environmental health specialists in North Carolina*. Fall 2006. \$5,000. Provided consultation on methodology design and completed statistical analysis. Wrote study final report.

**Grant award (internal funding)** by Western Carolina University Office of Assessment, *Retention of Student Wellness Concepts at WCU*, Fall 2006, \$1500. Project resulted in presentation by student at Undergraduate Research Expo.

**Grant participant (external funding)** under principle investigator P. Kneller. Eastern Band of Cherokee Indians/Environmental Protection Agency, *A Study of the Relationships Between Hospital Admissions for the Qualla Boundary Reservation and Community-Level Ozone Measures*. Fall 2005. \$40,000. Completed statistical analysis and interpretation of results.

#### Peer Reviewed Presentations/Poster Presentations

Zontek, T.L., Ogle, B.R., Hollenbeck, Scott M., & Jankovic, J. T. (2016). *Airborne emissions from commercial large-scale 3D printers*. Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, San Antonio, TX.

Ogle, B.R., Zontek, T.L., Hollenbeck, Scott M., & Jankovic, J. T. (2016). *Hazard analysis of consumer grade 3D printer*. Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, San Antonio, TX.

Zontek, T.L. & Ogle, B.R., (2015). *Gateway vaping: Exploring the hazards of non-nicotine flavored E-cigarettes*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Dallas, TX, June 6 - 9, 2015.

Ogle, B.R. & Zontek, T.L. (2015). *A simple bump test for particle count instruments*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Dallas, TX, June 6 - 9, 2015.

Zontek, T.L. & Ogle, B.R., (2014). *Why size matters: Evaluating the fate of nanoscale materials*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Orlando, FL, June 8 - 11, 2014.

Ogle, B.R., & Zontek, T.L. (2014). *Characterizing the particle size of consumer grade fogging machines*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Orlando, FL, June 8 - 11, 2014. First place.

Zontek, T.L. & Ogle, B.R., (2013). *Lab safety inspections: A springboard to engaged learning in undergraduate education*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Las Vegas, NV. June 23 - 27, 2013.

Ogle, B.R., & Zontek, T.L. (2013). *A low-tech method for managing nanoparticles within fume hoods*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Las Vegas, NV. June 23 - 27, 2013.

Zontek, T.L., Ogle, B.R., Jankovic, J. & Hollenbeck, S. (2012). *Industrial hygiene air monitoring for nanoscale materials*. Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, June 27- July1, 2012, San Diego, CA.

Ogle, B.R., Zontek, T.L., Wells, T.M., Jankovic, J. & Hollenbeck, S. (2012). *Characterizing laser pointer hazards*. Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, June 27- July1, 2012, San Diego, CA.

Ogle, B.R., and Zontek, T.L. (2011). *Consumer chainsaws: Why the homeowner should go electric*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Chicago, IL. June 12 - 15, 2011.

Zontek, T.L., Hubble, M.W., Richards, M.E., and Ogle, B.R. (2011). *Predictors of influenza vaccination among EMS personnel*. Poster Presentation at American Society of Safety Engineers National Professional Development Conference, Chicago, IL. June 12 - 15, 2011.

Ogle, B.R. and Zontek, T.L. (2010). *Occupational health and safety impacts of nanoscale materials*. Presentation at Western NC Safety and Health School conference. November 10, 2010, Asheville, NC.

Zontek, T.L. (2010). *Making sense of nanomaterials*. Presentation at American Society of Safety Engineers, Region VI Professional Development Conference, September 22 - 24, 2010, Myrtle Beach, SC.

Zontek, T., Ogle, B., Jankovic, J. & Hollenbeck, S. (2010). *An updated protocol for nanoscale material air monitoring*. Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, June 5-9, 2010, Albuquerque, NM.

Ogle, B., Zontek, T., Jankovic, J. & Hollenbeck, S. (2010). *Freeware contour mapping of ambient nanoscale particles*. Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, June 5-9, 2010, Albuquerque, NM.

Ogle, B. & Zontek, T. (2009). *Chinese drywall: Are your walls making you sick and ruining your heat pump?* Poster presentation at American Society of Safety Engineers National Professional Development Conference, San Antonio, TX, June 28 - July 11, 2009.

Zontek, T. & Ogle, B. (2009). *Psychosocial factors contributing to injuries in direct care workers*. Poster presentation at American Society of Safety Engineers National Professional Development Conference, San Antonio, TX, June 28 - July 11, 2009.

Zontek, T. & Byrd, B. (2009). *A review of vector-borne disease education in undergraduate environmental health programs*. Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, June 21-24, 2009, Atlanta, GA.

Zontek, T. (2009). *Environmental exposure assessments for nanomaterials in the R&D environment*. Presentation at the American Chemical Society Annual Meeting, March 22-26, 2009, Salt Lake City, UT.

Zontek, T. (2008). *Current practices for air monitoring of engineered nanoscale materials*. Presentation at DOE Symposium, Safe Handling of Engineered Nanoscale Materials. Argonne National Laboratory, Chicago, IL, July 7 - 9, 2008.

Zontek, T. & Ogle, B. (2008). *Evaluation of an air monitoring equipment for reengineered nanoscale materials*. Poster presentation at American Society of Safety Engineers National Professional Development Conference, Las Vegas, NV, June 9 - 11, 2008.

Zontek, T. (2008). *Nanotechnology*. Presentation at American Society of Safety Engineers Piedmont Section, Professional Development Conference, Greenville, SC, March 27, 2008.

Zontek, T. (2007). *Development and use of an industrial hygiene sampling method for nanoscale particles*. Presentation at American Chemical Society Annual Meeting, Boston, MA, August 2007.

Zontek, T.L. & Chapman, L. (2007). *Ultimate survey – an assessment tool for liberal studies learning outcomes*. Presentation at UNC Teaching and Learning with Technology conference, Raleigh, NC, March 2007.

Zontek, T. L. (2006). Factors contributing to injuries in direct care workers. *Dissertation Abstract International*.

Zontek, T.L., Jankovic, J. & Ogle, R.B. (2006). *Measurement and hazard analysis of laser ablation process (applying an occupational exposure control limit)*. Poster presentation at International Conference on Nanotechnology Occupational Health and Safety, Cincinnati, OH, December 2006.

Howe, J. Y., Drakeford, A.E., Peascoe, R. A., Zontek, T. L. & Watkins, T. R. (2006). *Influence of Bulk Graphite Thickness on the Accuracy of X-Ray Diffraction Measurement* presented to the ASTM D.02 Committee's semi-annual meeting on June 28, 2006, in Toronto, Canada.

### Non-refereed

Zontek, T. (2012). Panel speaker at *No Limits March*. Event in celebration of Women's History Month and International Women's Day, Western Carolina University, March 2012.

Zontek, T. and Ogle, B. (2011). *Substance and style: Guiding successful student presentations*. Teaching and Learning in the First Year Seminar – Faculty Conversation Series. Western Carolina University.

Zontek, T. (2007). *Engaging students online and keeping them engaged*. Presentation at Passages to eLearning conference, Maggie Valley, NC, November 2007.

Zontek, T. & Scifers, M. (2006). *Global Women and Health*, Featured speaker in celebration of Women's History Month at Western Carolina University, March 2006.

Zontek, T. (2004). *Assessing online discussions*. Presentation at Western Carolina University eTECH Best Practices in Distance Education, April 2004.

### Undergraduate Research Projects

Krofchik, A. M., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2017). *Unmanned aerial system (drones): A tool for environmental monitoring*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2017.

Gossett, C., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2017). *Droning for pollen – using an unmanned aerial system for pollen counts*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2017.

Hoover, R. M., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2017). *Tick dragging - taking humans out of the equation*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2017.

- Evans, E.M., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2016). *Blue light exposure vs. melatonin levels: LEDS are invading our homes and disrupting sleep*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2016.
- Gower, K., Patton, C. & Zontek, T.L. (2016). *Safety culture evaluation: Does enhanced training change perceptions of summer student interns*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2016.
- Phillips, H., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2016). *Comparison of aerosol monitoring instruments*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2016.
- West, S. E., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2016). *Green laser pointers: Near-infrared leakage and related hazards*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2016.
- Tighe, A., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2015). *A hazard analysis of the handheld 3D printing pen*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2015.
- Calhoun, S., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2015). *Safety hazards associated with the Crayola marker airbrush*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2015.
- Clark, S., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2015). *Hazard analysis of consumer grade 3D printer*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2015.
- Mentzer, M., Pickel, J., Zontek, T.L., & Ogle, B.R. (2015). *Using radio frequency identification technology to manage chemical inventories*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2015.
- Williams, R., Greeley, L., Zontek, T.L., & Ogle, B.R. (2015). *Emission of ultrafine particles from various base metals in TIG welding: Does the base metal affect the amount of ultrafine particles emitted during the TIG welding process?* Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2015.
- Ricchio, J., Greeley, L., Zontek, T.L., & Ogle, B.R. (2015). *Heat stress monitoring – a case study: Is there evidence to support a revision of work practices?* Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2015.
- Tompkins, A., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2014). *Fog machine aerosol nanoscale characterization*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2014 and the American Industrial Hygiene Association, Tennessee Valley Professional Development Conference, October 2014.
- Parker, A., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2014). *Characterization of nanoparticles in electronic cigarette vapor*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2014.



Robert, E., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2014). *Analyzing health effects of electronic vaporizers*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2014.

Sloop, A., Wiggins, L., Zontek, T.L. & Ogle, B.R. (2014). Environmental cleaning in tribal health care facilities with ATP bioluminescence. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2014. First place.

Cleary, C., Murga, R., Zontek, T.L. & Ogle, B.R. (2014). *A comprehensive review of RCRA compliance in health care facilities*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2014.

Taylor, M., Zontek, T.L. & Ogle, B.R. (2014). *Night shift: Fewer incidents of less reporting?* Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2014.

Blender, K., Zontek, T.L., & Ogle, B. (2013). *Injury analysis of shift work*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2013.

Ferry, S., Zontek, T.L., & Ogle, B. (2013). *New to nano? Air monitoring technique for nanoscale materials*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2013.

Kroeger, M., Zontek, T.L., & Ogle, B. (2013). *Hazard analysis: Microwave oven leakage and individuals with pacemakers*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2013.

Lowery, J., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2013). *A comparison of physical surface area to mobility surface area*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2013.

Michaud, R., Zontek, T.L., & Ogle, B. (2013). *A community health assessment of the town of Auburn, MA*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2013. Won first place.

Ostrander, E., Zontek, T.L., & Ogle, B. (2013). *Evaluating industrial hygiene air monitoring equipment for R&D laboratories*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2013.

Turner, J., Zontek, T.L., & Ogle, B. (2013). *Survey of hazardous waste disposal in remote Indian hospitals*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2013.

Wells, T.M., Lee, M., Ogle, B.R., Zontek, T.L., Jankovic, J. & Hollenbeck, S. (2012). *Characterizing the potential use of ANSI class Z87.1 safety glasses for the attenuation of UV excimer laser exposure*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2012.

Grijalva, W., Ogle, B.R. & Zontek, T.L. (2012). *Translation versus communication: The pitfalls of English-to-Spanish education*. Presentation at the American Society of Safety Engineers Region VI

Professional Development Conference, Myrtle Beach, SC, September 2012.

Fotopoulos, P., Ogle, B.R. & Zontek, T.L. (2012). *Understanding and controlling occupational exposure to rabies*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2012.

Hudson, C., Hustedt, K., Wittry, B., Zontek, T.L. & Ogle, B.R. (2012). *Vector identification and control procedure in a small Indian Health Service hospital*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2012.

Turner, J., Cooper, J., Zontek, T.L. & Ogle, B.R. (2012). *Survey of South Carolina industrial site blue flag procedure compliance*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2012.

Turner, J., McQueen, A, Ogle, B.R., & Zontek, T.L. (2011) *Comparison of noise emissions of standard electric and gas-powered chainsaws*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2011.

Phillips, J., Ogle, B.R., & Zontek, T.L. (2011). *A comparison of consumer lasers and their associated health hazards*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2011.

McQueen, A., Ogle, B.R., & Zontek, T.L. (2011). *Use of gravimetric analysis to determine if ozone can improve air quality in an unoccupied location*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2011.

Lee, M., Ogle, B.R., & Zontek, T.L. (2011). *Reducing injury to bariatric patients and healthcare providers utilizing the situation, background, assessment and recommendation (SBAR) procedure in a small, Indian Health Service hospital*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2011.

Deardorff, M., Ogle, B.R., & Zontek, T.L. (2011). *Comprehensive decontamination emergency plan for a small hospital*. Presentation at the American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2011.

Connell, S., Ogle, B. & Zontek, T. (2010). *Using the Condensation Particle Counter (CPC) to evaluate clean room particle counts during high and low occupancy and developing contour maps to help characterize clean room control technology at CNMS*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2010.

Craig, D., Ogle, B. & Zontek, T. (2010). *The use of RFID to improve the effectiveness, efficiency and safety of chemical inventories at CNMS*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2010.

Arnold, L., Zontek, T., Ogle, B., & Lynn, D. (2010). *Identifying deficiencies in construction safety injury/illness reporting*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2010.

Hammond, N., Zontek, T. & Lynn, D. (2010). *Exploring sustainability in health and safety*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2010.

Sanxhaku, A. Ogle, B. & Zontek, T. (2009). *Hazard evaluation and PPE assessment at Student Health Services*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2009.

Waldron, C., Zontek, T. & Ogle, B. (2009). *Comparing integrated sampling results with photoionization detector to encourage real-time monitoring of solvents*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2009.

Voncannon, A. Zontek, T. & Ogle, B. (2009). *Using movable control areas to comply with International Building Code chemical storage limits*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2009.

Lysen, A, Stevenson, J. & Zontek, T. (2009). *Is Western Carolina University's new smoking policy effective?* Poster presentation at National Environmental Health Association Annual Educational Conference and Exposition, June 2009, Atlanta, GA, and presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September, 2009.

Henry, N., Ogle, B. & Zontek, T. (2009). *Personal protective equipment selection and training program for janitors, custodians, and housekeepers at Western Carolina University*. Presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2009.

Salsbury, M., Zontek, T. & Ogle, B. (2008). *Assessment of noise exposure in spray room employees*. Awarded first place of all graduate and undergraduate research posters and presentations. Poster presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2008.

Litchfield, L., Zontek, T. & Ogle, B. (2008). *An evaluation of cabinet shop workers in Highlands, North Carolina*. Awarded second place of all graduate and undergraduate research posters and presentations. Poster presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2008.

Catalan, C., Zontek, T. & Ogle, B. (2008). *Noisy neighbors: Evaluation of noise levels at athletic events at Western Carolina University*. Awarded third place of all graduate and undergraduate research posters and presentations. Poster presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2008.

Ray, C., Zontek, T. & Ogle, B. (2008). *Evaluating the noise exposure of employees at Western Carolina University's steam plant*. Poster presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2008.

Hall, M. A., Zontek, T. L., & Ogle, B. R. (2007). *Evaluation of an air sampling protocol for nanoscale particles*. Poster presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2007. Also chosen to present at the Environmental Protection Agency Southeast Regional Collegiate Science and Health Symposium, Atlanta, Georgia, November 2007.

Jackson, A.F., Zontek, T. L., & Ogle, B. R. (2007). *When art creates hazard: Evaluation of an iron pour at Western Carolina University*. Awarded first place of all graduate and undergraduate research

posters and presentations. Poster presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2007.

Schneller, A. J., Zontek, T. L., & Ogle, B. R. (2007). *Determining the impact of oil-based painting classes at the Fine and Performing Arts Center*. Poster presentation at American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2007.

Drakeford, A., Howe, J.Y., Jin, R., Peascoe, R. A., Walker, L.R., & Zontek, T. L. (2006). *Micro structural characterization of nuclear graphite materials using X-ray diffraction and electron microscopy*. Oak Ridge National Laboratory, Student Research Presentations. Also presented at Western Carolina University Undergraduate Research Expo.

Webster, A. L. & Zontek, T. L. (2006). *Retention of Wellness Concepts in WCU Students*. Presented at Western Carolina University Undergraduate Research Expo.

Berry, M., Drakeford, A, & Rudoff, P. (2005). *Wellness across the ages*. Presented to HSCC 101 classes and WCU administrators as part of the Western Carolina University Undergraduate Research Expo.

Butler, B., Hall, M., Taylor, A., Trogon, C, & Vickers, J. (2005). *Barriers to first-year student wellness at Western Carolina University*. Presented to HSCC 101 classes and WCU administrators as part of the Western Carolina University Undergraduate Research Expo.

#### Awards

- Nominee, *Board of Governors Award for Excellence in Teaching*, October 2015
- Nominee, *First-Year Experience Faculty Advocate*, April 2015
- Finalist, *First-Year Experience Faculty Advocate*, April 2014
- *Board of Governor's Innovation in Teaching Award*, WCU College of Health and Human Sciences, May 2013
- *American Society of Safety Engineers National Outstanding Student Section Award*, June 2012
- *Safety Professional of the Year, American Society of Safety Engineers, Piedmont Section*, March 2012
- *American Society of Safety Engineers National Outstanding Student Section Award*, June 2011
- *Student Engagement Award*, College of Health and Human Sciences, Spring 2010
- *Student Organization Advisor of the Year*, Western Carolina University, Spring 2010
- *Don C. Morgan Faculty Scholar Award*, College of Health and Human Sciences, Spring 2008
- *Chancellor's Distinguished Teaching Award*, Western Carolina University, Spring 2007
- *Excellence in Teaching Liberal Studies Award*, Western Carolina University, Spring 2007
- *Meritorious Service to Students Award*, Western Carolina University, Spring 2007
- Nominee, *Jay M. Robinson Teaching Award for eLearning*, Spring 2007
- Nominee, *Excellence in Teaching Liberal Studies Award*, Spring 2006
- *Faculty of the Year Award*, Western Carolina University Student Affairs, Spring 2005

#### **East Carolina University, Greenville, NC**

*Adjunct Faculty Instructor, Environmental Health Sciences and Safety*

*Sectional Lecturer, Spring 2001*

- EHST 6701 – Industrial Hygiene Laboratory

*Sectional Lecturer, Fall 2001*

- EHST 3900 – Occupational Health
- EHST 6701 – Industrial Hygiene Laboratory

*Sectional Lecturer, Spring 2002*

- EHST 6203 – Bioterrorism, Biosafety and Public Health Preparedness
- EHST 3701 – Industrial Hygiene Laboratory

*Student Research Committee Assistance – Spring 2002*

- Leslie Kantor – Master’s Research Project: *An Analysis of the Impact of Airborne Concentration of Honing Generated Beryllium Dust, and Operation Frequency on the Effectiveness of Clean-Up Procedures*, Committee Member.
- William DeLeo– Ph.D. Dissertation: *Safety Educators and Practitioners Identify the Competencies of an Occupational Safety Degree: An Application of the Delphi Technique*, Review Panel Expert.

### **Virginia Commonwealth University, Richmond, Virginia**

*Fixed Term Faculty, Office of Environmental Health and Safety, January 1998 – November 2000.*

- *Sectional Lecturer, Virginia Microelectronics Center Process Education and Research Safety, October 1998 - November 2000.*
- *Sectional Lecturer, Chemical Engineering Research Laboratory Safety, September 1999.*
- *Sectional Lecturer, Health and Safety Considerations in a Microelectronics Cleanroom, February 2000.*
- *Sectional Lecturer, Laboratory Safety, Microbiology 512, November 1998, 1999.*

### **Professional Development**

*Fall 2016 – Summer 2017*

- *American Society of Safety Engineers Professional Development Conference, Denver, CO, June 2017*

*Fall 2015 – Summer 2016*

- *National Environmental Health Association Annual Educational Conference and Exposition, San Antonio, TX, June 2016*
- *Embry Riddle Faculty Development Courses*
  - *Teaching with a Learning Management System*
  - *Supporting Online Learners*
  - *Igniting Research in your Course*

*Fall 2014 – Summer 2015*

- *American Society of Safety Engineers Professional Development Conference, Dallas, TX, June 2015*

*Fall 2013 – Summer 2014*

- *American Society of Safety Engineers Professional Development Conference, Orlando, FL June 2014*
- *American Society of Safety Engineers Piedmont Section Professional Development Conference, Greenville, SC, March 2014*

*Fall 2012 – Summer 2013*

- *American Society of Safety Engineers Professional Development Conference, Las Vegas, NV, June 2013*

*Fall 2011 – Summer 2012*

- *National Environmental Health Association Annual Educational Conference and Exposition, San Diego, CA, June 2012*
- *American Society of Safety Engineers Piedmont Section Professional Development Conference, Greenville, SC, March 2012*

*Fall 2010 – Summer 2011*

- *American Society of Safety Engineers Conference, Chicago, IL, June 2011*
- *American Society of Safety Engineers Piedmont Section Professional Development Conference, Greenville, SC, March 2011*

*Fall 2009 – Summer 2010*

- *National Environmental Health Association Annual Educational Conference and Exposition, Albuquerque, NM, June 2010*
- *American Society of Safety Engineers Piedmont Section Professional Development Conference, Greenville, SC, March 2010*

*Fall 2008 – Summer 2009*

- *American Society of Safety Engineers Conference, San Antonio, TX, June 2009*
- *American Society of Safety Engineers Piedmont Section Professional Development Conference, Greenville, SC, March 2008*

*Fall 2007 – Summer 2008*

- *DOE Symposium, Safe Handling of Engineered Nanoscale Materials. Argonne National Laboratory, Chicago, IL, July 2008*
- *National Environmental Health Association Annual Educational Conference and Exposition, Tucson, AZ, June 2008*
- *American Society of Safety Engineers Conference, Las Vegas, NV, June 2008*
- *American Society of Safety Engineers Region VI Professional Development Conference, Myrtle Beach, SC, September 2007*
- *Passages to eLearning, Maggie Valley, NC, November 2007*

*Fall 2006 – Summer 2007*

- *UNC Teaching and Learning with Technology Conference, Raleigh, NC, March 2007*
- *NC State Assessment Symposium-Cary, NC, April 2007*
- *American Society of Safety Engineers Conference, Orlando, FL, June 2006*

*Fall 2005 – Summer 2006*

- *SOTL Faire: Student Portfolios and Student Learning*
- *American Society of Safety Engineers Conference, Seattle, WA, June 2006*
- *North Carolina Center for Health & Aging Spring Summit, Asheville, NC, April, 2006*

*Fall 2004 - Summer 2005*

- *Training for the Protection of Human Research Subjects*
- *National Environmental Health Association Annual Educational Conference and Exposition, Providence, RI, June 2005*

*Fall 2003 – Summer 2004*

- *Teach-In, Constructing Creative Assignments that Lead to Learning, March 4, 2004*
- *eTECH Best Practices in Distance Education, Creating Community in Online Learning, February 27, 2004*
- *eTECH Best Practices in Distance Education, Web Delivered PowerPoint Presentations with Sound, April 28, 2004*
- *Summer Institute for Teaching and Learning, June 11 – 13, 2003*
- *American Industrial Hygiene Conference & Exposition, Atlanta, June 2004*

## **Professional Experience**

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### **East Carolina University, Greenville, NC**

*Safety Manager, Office of Environmental Health and Safety, December 2000 – December 2002.*

- *Designed educational web tools to provide training and evaluation opportunities to faculty, staff and students.*
- *Managed departmental intern program to include teaching students to manage time, priorities and projects, develop interpersonal skills, and to apply knowledge in real situations. Develops student work plans to ensure adequate independent projects for professional development.*
- *Served as department Webmaster developing customer and regulatory driven tools and resources to improve knowledge and compliance.*

- Developed health and safety management plans, policies and procedures for Brody School of Medicine in accordance with Joint Commission on Accreditation of Healthcare Organizations Environment of Care standards. Provides training to clinics to outline regulatory and accreditation concerns and assists in developing solutions and timelines for completion.

### **Independent Consultant**

*Occupational Health and Safety Consultant August 1997- present.*

- Lead abatement on interstate bridge, Nation's Construction Inc.
- Indoor air quality/mold issue in public school, Nation's Construction Inc.
- Asbestos abatement project review, Nation's Construction Inc.
- Indoor air quality project: formaldehyde in new home construction, Tomac Construction
- Indoor air quality project: pollutant exposures from interstate, Bio-Tec Inc.
- Department of Transportation Hazardous Materials Regulations project to determine proper shipping procedures of commercial products, Kemper National Insurance Company and Sears Roebuck Company.

### **Virginia Commonwealth University, Richmond, Virginia**

*Assistant Director, Office of Environmental Health and Safety, January 1998 – November 2000.*

- Supervised and managed West Campus health and safety staff.
- West Campus Health and Safety Coordinator: Managed occupational health and safety issues including: accident investigations; chemical, gas, and fire emergency response; industrial hygiene and indoor air quality issues.
- Managed Occupational Safety program for Virginia Commonwealth University including: review of employee injury and illness reports; coordination with Risk Management and Workers Compensation; and identifying trends and high-risk areas for intervention.
- Coordinator for School of Engineering's semiconductor clean room health and safety program. Reviewed construction designs and implemented safety policies and procedures, continuous toxic gas monitoring system, and engineering controls.
- Provided additional industrial hygiene support through air monitoring, noise monitoring and technical documentation of problems and solution sets.

### **Kemper National Insurance Company, Long Grove, Illinois**

*Industrial Hygienist III, January 1996 to July 1997.*

- Developed training materials and provided instruction on the following topics: basic industrial hygiene training; OSHA: Hazard Communication, Noise and Hearing Conservation Programs, and Respiratory Protection Programs; Department of Transportation Hazardous Materials Regulations; and International Air Transport Association Dangerous Goods Regulations.
- Independently conducted studies to recognize, analyze and evaluate potential hazards and environmental problems affecting human health. Studies included walk-through inspections, air monitoring for chemical contaminants, environmental audits and noise dosimetry; reports included solutions to potential problems, status of OSHA/EPA compliance, recordkeeping and documentation.
- Coordinated efforts with Kemper Loss Control Engineers and Occupational Health Nurses to ensure clients' awareness with best industry practices and individual liabilities and risks.

### **MELE Associates, Rockville, Maryland**

*Industrial Hygienist, working on contract to the U. S. Air Force, October 1994 to January 1996.*

- Performed Technology Needs Surveys; identified deficiencies related to EPA and OSHA compliance within the Air Force's Medical Command.

- Coordinated with Air Force laboratories, industry and academia to develop programs or identify off-the-shelf technology to resolve compliance deficiencies.
- Assisted in documenting this work in the *USAF Environment, Safety and Occupational Health Research Development & Acquisition Strategic Plan*, used by the Deputy Undersecretary for Defense (Environmental Security) to determine program funding.