

**Kelly G. Pennell**  
Associate Professor

**University of Kentucky**  
Civil Engineering

### Professional Preparation

Lawrence Technological University	Southfield, MI	Civil Eng.	B.S. 1997
Rose-Hulman Institute of Technology	Terre Haute, IN	Env. Eng	M.S. 2001
Purdue University	West Lafayette, IN	Civil Eng.	Ph.D. 2005
Brown University	Providence, RI	Chem. Eng.	Post-Doc 2005-2008

### Appointments

University of Kentucky	Associate Professor	2016-present
University of Kentucky	Assistant Professor	2013-2016
University of Massachusetts-Dartmouth	Assistant Professor	2010-2013
Brown University	Assistant Professor (Research)	2008-2010
Brown University	State Agencies Liaison	2005-2011
ARCADIS Geraghty & Miller	Project Engineer	1997-2002

### Selected Publications

- Roghani, M., Jacobs, O.P., Miller, A., Willett, E.J., Jacobs, J.A., Viteri, C.R., Shirazi, E., & Pennell, K.G. (2018). Occurrence of chlorinated volatile organic compounds (VOCs) in a sanitary sewer system: Implications for assessing vapor intrusion alternative pathways. *Science of the Total Environment*, 616-617, pp. 1149-1162.
- Shirazi, E. & Pennell, K.G. (2017). Three-Dimensional Vapor Intrusion Modeling Approach that Combines Wind and Stack Effects on Indoor, Atmospheric, and Subsurface Domains. *Environmental Science: Processes and Impacts*, 19(12), pp. 1594-1607.
- Little, P.C. & Pennell, K.G. (2017). Measuring Vapor Intrusion: From Source Science Politics to a Transdisciplinary Approach. *Journal of Environmental Sociology*, 3(2), pp. 145-154.
- Pennell, K.G., Scammell, M.K., McClean, M.D., Suuberg, E. M., Ames, J., Moradi Gharehtapeh, A., Indeglia, P.A., Friguglietti, L., Shen, R., Yao, Y., Heiger-Bernays, W. (2016). "Field Data and Numerical Modeling: A Multiple Lines of Evidence Approach for Assessing Vapor Intrusion Exposure Risks" *Science of the Total Environment*, 556: 291-301.
- Moradi, A., Tootkaboni, M., Pennell, K.G. (2015) "A variance decomposition approach to uncertainty quantification and sensitivity analysis of the J&E model." *Journal of the Air & Waste Management Association*, 65(2): 154-164.
- Perron, M.M. Burgess, R. M., Cantwell, M. G., Suuberg, E.M., Pennell, K.G. (2013) "Performance of passive samplers for monitoring estuarine water column concentrations: 1. Contaminants of concern." *Environmental Toxicology and Chemistry*. 32(10): 2182-2189.
- Pennell, K.G. Thompson, M., Rice, J.W., Senier, L., Brown P., Suuberg, E. (2013). "Bridging Research and Environmental Regulatory Processes: The Role of Knowledge Brokers" *Environmental Science & Technology* 21:11985-11992.

Lui, J., Pennell, K.G., Hurt, R.H. (2011) "Kinetics and Mechanisms of Nanosilver Oxysulfidation." *Environmental Science and Technology*, 45: 7345-7353.

Naunovic, Z., K. G. Pennell, and E. R. Blatchley III (2008) "The Development and Performance of an Irradiance Field Model for a Cylindrical Excimer Lamp." *Environmental Science and Technology* 42(5): 1605-1614.

## **Synergistic Activities**

**1.** Assistant Director of the University of Kentucky's Superfund Research Center (UKSRC) and Co-leader for Research Translation Core and Co-Leader of the Community Engagement Core within UKSRC. Provide leadership about overall research directions, trainee experiences and engage with policy makers, regulatory and industry professionals, as well as community members on issues related to environment science and environmental health.

**2.** College of Engineering Dean's Committee on Diversity and Inclusion (2016- Present). Provide leadership and vision to promote equity and justice throughout the college. Our current freshman cohort provides evidence that the College is making progress. The URM for freshman increased from 6.7% (in 2012) to 13.3% (as of January 2018). The female enrollment increased from 15.5% (in 2012) to 22% (as of January 2018).

**3.** Associate Director of the Kentucky Water Resources Institute. Engage with universities and policy makers about water resources issues that are important to the state and the nation. Meet with staff within USDA, USGS, USACE, and state agencies to discuss overlapping interests.

**4.** Scientific Co-Chair for the Central and Eastern European Conference on Health and the Environment (CEECHHE) for 2016 (Prague, Czech Republic) and 2018 (Krakow, Poland) and Co-Organizer for Environmental Chemistry Symposium at the 2017 Fall American Chemistry Meeting.

**5.** Ad-hoc reviewer for NSF Scientific Review Panels (2011, 2015, and 2017), peer-reviewer for scientific journals (e.g. *Environmental Science & Technology*, *Ground Water Monitoring and Remediation*, *Regulatory Toxicology and Pharmacology*, *Journal of Contaminant Hydrology*) and Guest Editor for *Reviews on Environmental Health*, Special Issue: *Environmental Challenges in Central and Eastern Europe*.