

NAME Tricia L. Coakley tcoakley@enr.uky.edu; 859.257.6757	POSITION TITLE Research Facility Manager
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Western KY University University of KY	BS MS (expected)	1998 pursuing	Biology/Chemistry (double Geological Science)

Positions and Employment

1995-1998 Student Laboratory Technician, Ogden Environmental Laboratory, Western KY University
 1998-1999 Substitute Teacher, Metcalfe County Schools, Edmonton, KY
 1999-2002 Laboratory Technician, Ogden Environmental Laboratory, Western KY University
 2002-present Facility Manager, Environmental Research and Training Laboratory, University of KY

Research Skills and Interests

My research interests include microbial and chemical water quality and hydrogeology. I am specifically interested in the study of molecular fecal source tracking and in method development and technological advancement of this field. My skills include differential bacteriology, epifluorescence microscopy, cell culture, conventional and real-time PCR, and inorganic analysis by ICP-OES and AA.

Selected publications and presentations

Coakley, T., G.M. Brion, and A.E. Fryar, 2009 “Important Considerations for the Interpretation of Molecular Fecal Source Tracking Data: A Case Study of Central Kentucky Urban and Mixed Use Watersheds.” *IWA WaterMicro: 15th Int. Symposium on Health-related Water Microbiology*, Naxos Island, Greece.

Coakley, T., G.M. Brion, and A.E. Fryar, 2009 “Relationships between Indicators of Fecal Load, Source, and Age: Developing a Multi-Indicator Approach for Risk Characterization” *IWA WaterMicro: 15th Int. Symposium on Health-related Water Microbiology*, Naxos Island, Greece.

Reischer, G.H., J.M. Haider, N. Pokorny, A.M. de Roda Husman, S. Wuertz, B. Pradhan, C. Ferguson, D. Byamukama, D.W. Mushi, G. Ko, J. Ebdon, J. Aström, T. Coakley, R. Poma, W. Ahmed, V. Vrajmasu, E.M. Toth, M.A. Schade, A.R. Blanch, A.H. Farnleitner, 2009, “Global scale investigation of source- specificity and -sensitivity of microbial source tracking qPCR assays targeting intestinal *Bacteroidetes*”. *IWA WaterMicro: 15th Int. Symposium on Health-related Water Microbiology*, Naxos Island, Greece.

Brion, G.M., L.E. Black, S.J. Freitas, and T. Coakley, 2007, “Modeling Enteric Virus Presence in the Kentucky River”. International AWWA WaterMicro 2007 Conference, Tokyo, Japan.

Coakley, T., C. Groves, L. Elliott, and S. Wright, 2001, “Microbial Ecology of Conduit Stream Sediment Interstitial Fluids of the South Central Kentucky Karst Aquifer”. National Meeting of the Geological Society of America, Boston, Massachusetts.

Coakley, T., C. Groves, L. Elliott, and S. Wright, 2001, “Reasons Why We Should Be Mindful of Microbes When we Consider Karst Systems: Impacts on Karst Development”. 13th National Cave and Karst Management Symposium, Tucson, Arizona.

Coakley, T., C. Groves, L. Elliott, and S. Wright, 2002, “Microbial Ecology of Conduit Stream Sediment Interstitial Fluids of the South Central Kentucky Karst Aquifer: Impacts on Aquifer Development”. Institute of Karst Geology, Chinese Academy of Geological Sciences, Guilin, China.

Elliott, L., S. Wright, C. Groves, and T. Coakley, 2000, Microbial Ecology of Conduit Stream Interstitial Fluids of the South Central Kentucky Karst Aquifer and Impacts on Aquifer Development, *Proceedings of the Eighth Mammoth Cave Science Conference, Mammoth Cave, Kentucky*, pp. 57-60.