

Curriculum Vitae

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EDUCATION

Ph.D. Cornell University, 1987. Microbiology/Ecology/Environmental Toxicology
M.S. Cornell University, 1986. Microbiology/Ecology
B.S. Pennsylvania State University, 1978. Microbiology.

PROFESSIONAL EXPERIENCE

Professor of Biology, 2000-Present.

James Madison University, Department of Biology

Associate Professor of Biology, 1993-2000.

James Madison University, Department of Biology

Assistant Professor of Biology, 1987-1993.

James Madison University, Department of Biology

Graduate Research Assistant, Department of Agronomy, Cornell University, 1983-1987.

Graduate Teaching Assistant, Department of Microbiology, Cornell University, 1981-1983.

Laboratory Technician, Department of Biology, Bucknell University, 1979-1981.

PUBLICATIONS

Trumbo, B., M. Hudy, E. P. Smith, D.-Y. Kim, B. A. Wiggins, K. H. Nislow, and C. A. Dolloff. 2010. Sensitivity and Vulnerability of Brook Trout Populations to Climate Change. Pages 62-68 in R. F. Carline and C. LoSapio, editors. Wild Trout X: Sustaining wild trout in a changing world. Wild Trout Symposium, Bozeman, Montana.

Keeling, W. G., C. Hagedorn, B. A. Wiggins, and K.R. Porter. 2005. Bacterial Source Tracking: Concept and Application to TMDL. In: "The TMDL Program: Approaches and Challenges" (T. Younos, Ed.), PenWell Books, Tulsa, OK, pp. 207-246.

Edge, T., J. Griffith, J. Hansel, J. Harwood, M. Jenkins, A. Layton, M. Molina, C. Nakatsu, R. Oshiro, M. Sadowsky, J. Santo Domingo, O. Shanks, G. Stelma, J. Stewart, D. Stoeckel, B. Wiggins, and J. Wilbur. 2005. Microbial Source Tracking Guide Document, U. S. Environmental Protection Agency. EPA/600-R-05-064.

Stoeckel, D. M., M. V. Mathes, K. E. Hyer, C. Hagedorn, H. Kator, J. Lukasik, T. L. O'Brien, T. W. Fenger, M. Samadpour, K. M. Strickler, and B. A. Wiggins. 2004. Comparison of Seven Protocols to Identify Fecal Contamination using *Escherichia coli*: Berkeley County, West Virginia. Environ. Sci. Technol. 38:6109-6117.

Harwood, V. J., B. A. Wiggins, C. Hagedorn, R. D. Ellender, J. Gooch, J. Kern, M. Samadpour, A. C. H. Chapman, B. J. Robinson, and B. C. Thompson. 2003. Phenotypic Library-Based Microbial Source Tracking Methods: Efficacy in the California Collaborative Study. J. Water Health 1:153-166.

Ritter, K. J., E. Carruthers, C. A. Carson, R. D. Ellender, V. J. Harwood, K. Kingsley, C. Nakatsu, M. Sadowsky, B. Shear, B. West, J. E. Whitlock, B. A. Wiggins, and J. D. Wilbur. 2003. Assessment of Statistical Models Used in Library-Based Approaches to Microbial Source Tracking. J. Water Health 1:209-223.