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Soil and Water Science Department
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EDUCATION

- 1999 Ph.D. Environmental Engineering, University of Florida, Gainesville, Florida
Minor: Soil and Water Science
- 1995 M.E. Environmental Engineering, University of Florida
Concentration in Hydrologic Sciences
- 1992 B.S. Environmental Engineering with Honors, University of Florida

PROFESSIONAL EXPERIENCE

- 2001-present Assistant Professor, Soil and Water Science Department, University of Florida
- 2000-2001 Assistant Professor, Department of Civil and Materials Engineering, University of Illinois at Chicago
- 2000 Assistant Professor (Visiting), School of Civil Engineering, Purdue University, IN
- 1999 Postdoctoral Associate, Soil and Water Science Department, University of Florida
- 1994 Engineering Fellow, Environmental Protection Department, U.S. Department of Energy, Lawrence Livermore National Laboratory, Livermore, CA
- 1993 Environmental Engineer (Civilian), 94th Combat Support Group, United States Air Force, Dobbins Air Reserve Base, Marietta, Georgia

RECENT GRANT-FUNDED PROJECTS

- 2004 - 2006 USGS/SFWMD - Development of a procedure for using selected water quality model components with existing hydrologic models \$470,249 (PI: Munoz-Carpena, R., Co-PI: [Jawitz, J.W.](#))
- 2002 - 2005 USDoD/EPA - Impacts of DNAPL source zone treatment: Experimental and modeling assessment of the benefits of partial source removal \$991,700 (PI: Wood, A.L., Co-PIs: Annable, M.D., Falta, R.W., [Jawitz, J.W.](#), Goltz, M.N., Enfield, C.G., and Rao, P.S.C.)
- 2002 - 2006 FDACS/SFWMD/FDEP - Phosphorous retention and storage by isolated and constructed wetlands in the Lake Okeechobee basin \$2,672,971 (PI: Reddy, K.R., Co-PIs: Clark, M.W., DeBusk, T.A., Graham, W.D., [Jawitz, J.W.](#), Annable, M.D., Wise, W., Grunwald, S.)
- 2002 - 2004 USDA-NRI: In-situ quantification of surface water and groundwater nutrient fluxes from agricultural watersheds \$135,000 (PI: [Jawitz, J.W.](#), Co-PIs: White, J.R., Annable, M.D., and Hatfield, K.)
- 2001 - 2003 NSF - In-situ quantification of chlorinated hydrocarbon mass flux and intrinsic remediation using fiber optic biosensors \$95,384 (PI: [Jawitz, J.W.](#); Co-PIs K. Rockne, F. Ansari)

PROFESSIONAL ACHIEVEMENTS

- 2006-present Associate Editor, Journal of Environmental Quality
2006 Alpha Zeta Professor of the Year Award for UF College of Agriculture and Life Sciences
2005 UF Soil and Water Science Department Outstanding Teacher/Advisor of the Year

PEER-REVIEWED JOURNAL PUBLICATIONS WITHIN THE PAST FIVE YEARS

- Totten, C.T., Annable, M.D., Jawitz, J.W., and Delfino, J.J., 2007. Fluid and porous media property effects on dense non-aqueous phase liquid migration and contaminant mass flux, *Environmental Science & Technology*, In press.
- Perkins, D.B., Haws, N.W., Jawitz, J.W., Das, B.S., and Rao, P.S.C., 2007. Mechanized military training impacts on hydraulic characteristics of ridgetop soils in a forested watershed. *Ecological Indicators*, In press.
- Wang, H., and Jawitz, J.W., 2006. Hydraulic analysis of cell-network treatment wetlands. *Journal of Hydrology*, 330, pp. 721-724, doi:10.1016/j.jhydrol.2006.05.005.
- Fure, A.D., Jawitz, J.W., and Annable, M.D., 2006. DNAPL source depletion: Linking architecture and flux response. *Journal of Contaminant Hydrology*, 85, 118-140, doi:10.1016/j.jconhyd.2006.01.002.
- Wang, H., Jawitz, J.W., White, J.R., Martinez, C.J., and Sees, M.D., 2006. Rejuvenating the largest treatment wetland in Florida. *Ecological Engineering*, 26, 132-146, doi: 10.1016/j.ecoleng.2005.07.016.
- Jawitz, J.W., Fure, A.D., Demmy, G.G., Berglund, S., and Rao, P.S.C., 2005. Groundwater contaminant flux reduction resulting from nonaqueous phase liquid mass reduction. *Water Resources Research*, 41, W10408, doi:10.1029/2004WR003825, 15 pp..
- Brooks, M.C., Annable, M.D., Rao, P.S.C., Hatfield, K., Jawitz, J.W., Wise, W.R., Wood, A.L., Enfield, C.G., 2004. Controlled release, blind test of DNAPL remediation by ethanol flushing, *J. Contam. Hydrol.*, 69(3-4), pp. 281-297, doi:10.1016/S0169-7722(03)00158-X.
- Jawitz, J.W., 2004. Moments of truncated continuous univariate distributions. *Advances in Water Resources*, 27(3), pp. 269-281, doi: 10.1016/j.advwatres.2003.12.002.
- Jawitz, J.W., Dai, D., Rao, P.S.C., Annable, M.D., and Rhue, R.D., 2003. Rate-limited solubilization of multi-component nonaqueous phase liquids by flushing with cosolvents and surfactants: Modeling data from laboratory and field experiments. *Environmental Science & Technology*, 37(9), pp. 1983-1991, doi: 10.1021/es0256921.
- Jawitz, J.W., Annable, M.D., Demmy, G.G., and Rao, P.S.C., 2003. Estimating non-aqueous phase liquid spatial variability using partitioning tracer higher temporal moments. *Water Resources Research*, 39(7), 1192, doi:10.1029/2002WR001309.
- Rao, P.S.C., and Jawitz, J.W., 2003. Comment on "Steady-state mass transfer from single-component dense non-aqueous phase liquids in uniform flow fields" by T. C. Sale and D. B. McWhorter. *Water Resources Research*, 39(3), 1068, doi: 10.1029/2001WR000599.
- Jawitz, J.W., Annable, M.D., Clark II, C.J., and Puranik, S., 2002. Inline gas chromatographic tracer analysis: An alternative to conventional sampling and laboratory analysis for partitioning tracer tests. *Instrumentation Science & Technology*, 30(4) pp. 427-438.
- Brooks, M.C., Annable, M.D., Rao, P.S.C., Hatfield, K., Jawitz, J.W., Wise, W.R., Wood, A.L. and Enfield, C.G., 2002. Controlled release, blind tests of DNAPL characterization using partitioning tracers. *Journal of Contaminant Hydrology*, 59, pp. 187-210.