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Hydrologist, Water-Quality Specialist:

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Education:

B.S. Indiana University, Bloomington, Indiana 1977 (Biology)

M.S. Rice University, Houston, Texas 1990 (Environmental Science)

Research Interests:

Methods for detecting pathogens in the environment, predictive modeling at beaches, beach water quality, microbiological monitoring

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Selected Publications:

Francy, D.S. and Darner, R.A., 2008, Nowcasting beach advisories at Ohio Lake Erie Beaches: U.S. Geological Survey Open-File Report 2008-1427, 13 p. accessed at <http://pubs.usgs.gov/of/2007/1427/>

Francy, D.S., Bertke, E.E., Finnegan, D.P., Kephart, C.M., Sheets, R.A., Rhoades, J., and Stumpe, L., 2006, Use of spatial sampling and microbial source-tracking tools for understanding fecal contamination at two Lake Erie beaches, U.S. Geological Survey Scientific Investigations Report 2006-5298, 29 p.

Francy, D.S. and Darner, R.A., 2006, Procedures for developing models to predict exceedance of recreational water-quality standards at coastal beaches: U.S. Geological Survey Techniques and Methods 6-B5, 34 p.

Francy, D.S., Darner, R.A., and Bertke, E.E., 2006, Models for predicting recreational water quality at Lake Erie beaches: U.S. Geological Survey Scientific Investigations Report 2006-5192, 13 p.

Francy, D.S., Struffolino, P., Brady, A.M.G., and Dwyer, D.F., 2005, A spatial, multivariable approach for identifying proximate sources of *Escherichia coli* to Maumee Bay, Lake Erie, Ohio: U.S. Geological Survey Open File Report 2005-1386, 20 p.

Francy, D.S., Bushon, R.N., Stopar, Julie, Luzano, E.J., and Fout, G.S., 2004, Environmental factors and chemical and microbiological water-quality constituents related to the presence of enteric viruses in ground water from small public water supplies in southeastern Michigan: U.S. Geological Survey Scientific Investigations Report 2004-5219, 60 p.

Francy, D.S., Simmons, O.D. III, Ware, M.W., Granger, E.J., Sobsey, M.D., and Schaefer, F.W. III, 2004, Effects of seeding procedures and water quality on recovery of *Cryptosporidium* oocysts from stream

water by using U.S. Environmental Protection Agency Method 1623: Applied and Environmental Microbiology, v. 70, no. 7, p. 4118-4128.

Francy, D.S., Gifford, A.M., and Darner, R.A., 2003, *Escherichia coli* at Ohio bathing beaches—distribution, sources, wastewater indicators, and predictive modeling: Water-Resources Investigations Report 02-4285.

Francy, D.S. and R.A. Darner, 2000, Comparison of methods for determining *Escherichia coli* concentrations in recreational waters, Water Research, vol. 34, no. 10, p. 2770-2778.

Francy, D.S., Helsel, D.R., and Nally, R.A., 2000, Occurrence and distribution of microbiological indicators in groundwater and stream water, Water Environment Research, vol. 72, no. 2, p.152-161.

Francy, D.S. and Darner, R.A., 1998, Factors affecting *Escherichia coli* concentrations at Lake Erie public bathing beaches: U.S. Geological Survey, Water-Resources Investigations Report 98-4241, 41 p.

Francy, D.S., Hart, T.L., and Virosteck, C.M., 1996, Effects of receiving water quality and wastewater treatment on injury, survival, and regrowth of fecal-indicator bacteria and implications for assessment of recreational water quality: U.S. Geological Survey, Water-Resources Investigations Report 96-4199, 42 p.

Francy, D.S., Myers, D.N., and Metzker, K.D., 1993, *Escherichia coli* and fecal-coliform bacteria as indicators of recreational water quality: U.S. Geological Survey, Water-Resources Investigations Report 93-4083, 34 p.