Larry Wymer, Mathematical Statistician, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division
Mailing Address

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Area of Expertise: Larry's research has focuses on improving recreational water monitoring methods and statistical techniques, understanding the spatial and temporal dispersion of indicator organisms in the waterbody, and developing a sound framework by understanding risk relationships involved in water contact. Another area of research is in collaborative study design, working with organizations to improve standards for validating new chemical and microbiological methods for water monitoring.

He also provides statistical support for various projects, which recently have included fate and transport of the qPCR signal through waste water treatment to source, development of immunoassay using saliva samples to assess exposure to waterborne pathogens, virus recoveries using various concentration and adsoption techniques, and infectivity of viruses among diverse cell lines.

Select Publications:

Augustine, S., K. Simmons, T. Eason, S. Griffin, C. Curioso, L. Wymer, Shay Fout, A. Grimm, K. Oshima, AND A. Dufour. Statistical approaches to developing a multiplex immunoassay for determining human exposure to environmental pathogens. JOURNAL OF IMMUNOLOGICAL METHODS. Elsevier Science Ltd, New York, NY, 425(10):1-9, (2015).

Varughese, E., C. Bennett-Stamper, L. Wymer, AND J. Yadav. A new in vitro model using small intestinal epithelial cells to enhance infection of Cryptosporidium parvum. JOURNAL OF MICROBIOLOGICAL METHODS. Elsevier Science Ltd, New York, NY, 106(7):47-54, (2014).

Chern, E., K. Brenner, L. Wymer, AND Rich Haugland. Influence of wastewater disinfection on densities of culturable fecal indicator bacteria and genetic markers. JOURNAL OF WATER AND HEALTH. IWA Publishing, London, Uk, 12(3):410-417, (2014).

View more research publications by Larry Wymer.

Education:

- M.B.A. Quantitative Analysis, University of Cincinnati, 1978
- B.S. Physics, Case Western Reserve University, 1970

Professional Experience:

- Mathematical Statistician, USEPA, ORD, NERL-MCEARD, Cincinnati, OH 1998-present
- Sr. Statistician, Lockheed Martin, Cincinnati, OH 1996-1998
- Sr. Statistician, DynCorp, Cincinnati, OH 1994-1996
- Section Manager, Computer Sciences Corporation, 1987-1994