

Gerard (Gerry) F. Laniak, Environmental Engineer, in EPA's National Exposure Research Laboratory

Systems Exposure Division

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Area of Expertise: My career efforts have focused on providing modeling based tools and application methods in the context of EPA regulatory decision-making. Regulatory problem statements have evolved during the past two decades from single media, single chemical, single exposure pathway concerns to human and ecological assessments of risk and to multiple stressors via a range of naturally occurring exposure pathways. The primary challenge is in integrating the multi-disciplinary science and modeling required to address the problem statements. Through these efforts we have learned that technology integration drives science integration and, to that end, all collaborative efforts have centered around developing and/or applying integrated technologies.

Select Publications:

Wolfe, K., R. Parmar, G. Whelan, Gerry Laniak, M. Galvin, K. Kim, M. Molina, R. Zepp, P. Duda, AND D. Keiser. [A Workflow to Model Microbial Loadings in Watersheds](#). iEMSs 8th International Congress on Environmental Modelling and Software, Toulouse, FRANCE, July 10 - 14, 2016.

Parmar, R., K. Wolfe, G. Whelan, Gerry Laniak, M. Galvin, AND J. Goodall. [Documenting Models for Interoperability and Reusability](#). iEMSs 2016, Toulouse, FRANCE, July 10 - 14, 2016.

Whelan, G., R. Parmar, AND Gerry Laniak. [Microbial Source Module \(MSM\): Documenting the Science and Software for Discovery, Evaluation, and Integration](#). US EPA Office of Research and Development, Washington, DC, EPA/600/B-15/315, 2015.

View research publications by [Gerry Laniak](#).

Education:

- M.S.E.E. Environmental Engineering, University of North Carolina, Chapel Hill, 1980
- B.C.E. Civil Engineering, Catholic University of America, 1975

Professional Experience:

- Environmental Engineer, USEPA, ORD, NERL-ERD, Athens, GA 1988–present