

Rajbir Parmar, Computer Engineer, in EPA's National Exposure Research Laboratory

Computational Exposure Division

[Mailing Address](#)

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Area of Expertise: I have spent the last seven years developing models, modeling frameworks, tools, and databases in watershed and stream management; aquatic habitat management; multimedia risk assessment; pathogens in recreational waters; ecosystem services; and chemical properties. As a member of the integrated modeling group, I develop components of multimedia risk assessment modeling systems including pre- and post-processing tools, databases, and scenario-building for user interfaces. I am responsible for developing and maintaining WHAT IF, APES, 3MRA, and Virtual Beach.

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.

Wolfe, K., N. Pope, R. Parmar, M. Galvin, C. Stevens, E. Weber, J. Flaishans, AND Tom Purucker. [Chemical Transformation System: Cloud Based Cheminformatic Services to Support Integrated Environmental Modeling](#). 8th International Congress on Environmental Modelling and Software, Toulouse, FRANCE, July 10 - 14, 2016.

Ignatius, A., K. Wolfe, R. Parmar, J. Flaishans, L. Harwell, S. Yee, Tom Purucker, AND M. Galvin. [Design and Implementation of a REST API for the Human Well Being Index \(HWBI\)](#). 8th International Congress on Environmental Modelling and Software, Utrecht, FRANCE, July 10 - 14, 2016.

View more research publications by [Rajbir Parmar](#).

Education:

- PhD Agricultural Engineering, Virginia Polytechnic Institute & State University 1989
- M.S. Agricultural Engineering, University of Hawaii 1984
- B. Tech. Agricultural Engineering, Punjab Agricultural University, 1981

Professional Experience:

- Computer Scientist, USEPA, ORD, NERL-ERD, Athens, GA 2006–present
- Computer Engineer, USEPA, ORD, NERL-ERD, Athens, GA. 2002–2006
- Senior Systems Programmer, Fedex 2002
- Senior Software Engineer, CAPS Logistics (An Invensys Company) 1995–2002
- Research Engineer, University of Georgia 1989–1995

- Research Assistant, University of Hawaii 1984 – 1985