Peter Paul Egeghy, Research Environmental Health Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division
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Area of Expertise: Peter's research primarily addresses the need for rapid screening and prioritization of manufactured chemicals based on potential for human exposure through the development of novel approaches for accelerated exposure assessment and of publicly accessible exposure databases. Peter's research also involves the application of exposure assessment techniques using advanced statistical methods to investigate the determinants of exposure and to evaluate factors that contribute to observed exposure variability, particlarly of factors, related to both the environment and to the individual, that contribute to the observed variability in biological markers of exposure.

Select Publications:

Egeghy PP, Sheldon LS, Isaacs KK, Ozkaynak H, Goldsmith MR, Wambaugh JF, et al. 2015. Computational exposure science: An emerging discipline to support 21st-century risk assessment. Environ Health Perspect. 2015 Nov 6. [Epub ahead of print].

Isaacs KK, Glen WG, Egeghy P, Goldsmith MR, Smith L, Vallero D, et al. 2014. Sheds-ht: An integrated probabilistic exposure model for prioritizing exposures to chemicals with near-field and dietary sources. Environ Sci Technol 48:12750-12759.

Goldsmith MR, Grulke CM, Brooks RD, Transue TR, Tan YM, Frame A, et al. 2014. Development of a consumer product ingredient database for chemical exposure screening and prioritization. Food Chem Toxicol 65:269-279.

Wambaugh JF, Wang A, Dionisio KL, Frame A, Egeghy P, Judson R, et al. 2014. High throughput heuristics for prioritizing human exposure to environmental chemicals. Environ Sci Technol 48:12760-12767.

De Vocht F, Northage C, Money C, Cherrie JW, Rajan-Sithamparanadarajah B, Egeghy P, et al. 2013. The future of exposure assessment: Perspectives from the X2012 Conference. Ann Occup Hyg 57:280-285.

Mitchell J, Pabon N, Collier ZA, Egeghy PP, Cohen-Hubal E, Linkov I, et al. 2013b. A decision analytic approach to exposure-based chemical prioritization. PLoS One 8:e70911.

View more research publications by Peter Egeghy.

Education:

- Ph.D., Environmental Sciences and Engineering (Industrial Hygiene), University of North Carolina, Chapel Hill, 2001
- M.S., Environmental and Occupational Health (Industrial Hygiene), California State University, Northridge, 1994
- M.P.H., Environmental Health, University of California, Berkeley, 1993
- B.A., Environmental Sciences, University of California, Berkeley, 1990

Professional Experience:

- Research Environmental Health Scientist, National Exposure Research Laboratory, U.S. EPA, Research Triangle Park, NC, 2004-present
- Research Fellow (detail), National Center for Computational Toxicology, U.S. EPA, Research Triangle Park, NC, 2009
- Environmental Health Scientist (post-doctoral fellow), National Exposure Research Laboratory, U.S. EPA, Las Vegas, NV, 2001-2004
- Assistant Environmental Health and Safety Manager, Olive View-UCLA Medical Center, Los Angeles, CA, 1994-1996

Honors and Awards:

- US EPA Scientific and Technological Achievement Award (STAA) Level I 2008
- US EPA Scientific and Technological Achievement Award (STAA) Level II 2014, 2009, 2008
- US EPA Scientific and Technological Achievement Award (STAA) Level IIII 2015, 2015, 2014, 2013, 2011, 2011
- US EPA Scientific and Technological Achievement Award (STAA) Honorable Mention 2010
- US EPA Children's Environmental Health Excellence Award 2007
- US EPA Office of Research and Development Honor Award 2014 (Technical Assistance), 2011 (Impact)
- US EPA Office of Research and Development Honor Award Bronze Medal 2010
- US EPA National Exposure Research Laboratory Exposure Science Excellence Award 2013
- US EPA National Exposure Research Laboratory Superior Accomplishment Recognition Awards (Team) 2007, 2006
- Society of Toxicology, Risk Assessment Specialty Section, Top Ten Abstracts 2015
- Society of Toxicology, Risk Assessment Specialty Section, Top Three Published Papers 2014