

**James J. Quackenboss, Research Physical Scientist, in EPA's National Exposure Research Laboratory**

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**Area of Expertise:** James is a Research Physical Scientist, in the Exposure Measurements and Analysis Branch in the U.S. Environmental Protection Agency's National Exposure Research Laboratory (NERL). He currently chairs the Interagency Coordinating Committee for the multi-agency National Children's Study (NCS), and has worked with the NCS on exposure assessment designs and approaches. He chaired a joint committee to conduct a workshop on the sampling design for the NCS, and led the development of design options and background documents for consideration by the workshop panel and the NCS Advisory Committee. At EPA, he contributed to the development of the National Human Exposure Assessment Survey (NHEXAS), was the principal EPA collaborator for a NHEXAS pilot study, and coordinated the development of the Minnesota Children's Pesticide Exposure Study. Prior to coming to EPA in 1991, he was involved in the application of exposure assessment techniques to epidemiological studies at the University of Arizona, and conducted personal exposure and indoor air quality studies at the University of Wisconsin.

**Select Publications:**

Whitmore RW, Pellizzari ED, Zelon HS, Michael LC, Quackenboss JJ. Cost/variance optimization for human exposure assessment studies. *J Expo Anal Environ Epidemiol*. 2005 Nov;15(6):464-72.

Ozkaynak H, Whyatt RM, Needham LL, Akland G, Quackenboss J. Exposure Assessment Implications for the Design and Implementation of the National Children's Study. *Environ Health Perspect*. 2005; 113(8):1108-15.

Needham LL, Ozkaynak H, Whyatt RM, Barr DB, Wang RY, Naeher L, Akland G, Bahadori T, Bradman A, Fortmann R, Liu LJ, Morandi M, O'Rourke MK, Thomas K, Quackenboss J, Ryan PB, Zartarian V. Exposure Assessment in the National Children's Study: Introduction. *Environ Health Perspect*. 2005 113(8):1076-82.

Bahadori T, Phillips RD, Money CD, Quackenboss JJ, Clewell HJ, Bus JS, Robison SH, Humphris CJ, Parekh AA, Osborn K, Kauffman RM. Making sense of human biomonitoring data: findings and recommendations of a workshop. *J Expo Sci Environ Epidemiol*. 2007 Jul;17(4):308-13.

Strauss WJ, Ryan L, Morara M, Iroz-Elardo N, Davis M, Cupp M, Nishioka MG, Quackenboss J, Galke W, Ozkaynak H, Scheidt P. Improving cost-effectiveness of epidemiological studies via designed missingness strategies. *Stat Med*. 2010 Jun 15;29(13):1377-87.

Jordan KC, Knuth ML, Moyer-Mileur LJ, Larson RR, Sherwood BE, McNutt S, Quackenboss JJ, Viet SM, Melnyk LJ. Feasibility of community food item collection for the National Children's Study. *Sci Total Environ.* 2010 Dec 15;409(2):307-13.

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**Education:**

- M.S., Preventive Medicine-Epidemiology, University of Wisconsin, Madison, 1984
- B.S., Anthropology, University of Wisconsin, Madison, 1980

**Professional Experience:**

- Research Physical Scientist, USEPA, ORD, NERL-HEASD, Exposure Measurements and Analysis Branch, 2008-present
- Acting Associate Director for Human Exposure Research, USEPA, ORD, NERL-HEASD, 2006-2008
- Environmental Scientist, USEPA, ORD, NERL-HEASD, Exposure and Dose Research Branch, 1991-2006
- Research Specialist, Dept. of Internal Medicine, Respiratory Sciences Center, University of Arizona, 1985-1991
- Research Assistant, Dept. of Preventive Medicine, University of Wisconsin, 1981-1982
- Project Specialist, Dept. of Preventive Medicine and Institute for Environmental Studies, University of Wisconsin, 1982-1985