

John T. Creed, Research Chemist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise: The development of metal speciation based analytical protocols. These protocols can then be used to identify unique exposure sources; generate speciation based data sets for model development that facilitate a more accurate estimate of population based risk; and develop in-vitro assays that are predictive of bioavailability and mimic the biotransformations associated with in-vivo systems.

Select Publications:

Currier, J., R. Saunders, L. Ding, W. Bodnar, P. Cable, T. Matousek, John Creed, AND M. Styblo. Comparative oxidation state specific analysis of arsenic species by high-performance liquid chromatography-inductively coupled-mass spectrometry and hydride generation-cryotrapping-atomic absorption spectrometry. JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY. Royal Society of Chemistry, Cambridge, Uk, 28(6):843-852, (2013).

Trenary, H., P. A. CREED, A. Young, M. Mantha, C. A. SCHWEGEL, J. XUE, M. J. KOHAN, K. HERBIN-DAVIS, D. J. THOMAS, AND JOHN T. CREED. An In Vitro Assessment of Bioaccessibility of Arsenicals in Rice and the Use of this Estimate within a Probabilistic Exposure Model . Journal of Exposure Science and Environmental Epidemiology . Nature Publishing Group, London, Uk, 22(4):369-375, (2012).

CREED, JOHN T. The role of arsenic speciation in exposure assessment and the need to include bioaccessibility and biotransformation. Presented at 95th Canadian Chemistry Conference and Exhibition, Calgary, AB, CANADA, May 26 - 30, 2012.

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Education:

- Ph.D. Chemistry, University of Cincinnati, 1989
- B.S. Chemistry, Thomas More College, 1985

Professional Experience:

- Research Chemist, USEPA, ORD, NERL-MCEARD, Cincinnati, OH 1989-present