

Water for Life

ADDRESSING A 21ST CENTURY CRISIS

Michael J. Plewa, Water for Life Program Coordinator

et Interdisciplinary
Environmental
Toxicology Program

Trans-Disciplinary Research to Maximize the Benefit and Minimize the Risk of Water Disinfection Practices: Moving Toward Water Sustainability



Jane Ellen Simmons, M.S.P.H., Ph.D., D.A.B.T., F.A.T.S.
Acting Pharmacokinetics Branch Chief, National Health and Environmental Effects Research Laboratory (NHEERL); Advisor, Network and Leadership Training Organization, Environmental Protection Agency

Provision of potable water by chemical disinfection is a major public health triumph of the 20th century that has resulted in dramatic reductions in mortality and morbidity from water-borne disease. The unintended consequence is production of highly complex mixtures of disinfection by-products (DBPs) by reaction of the oxidizing chemicals used to disinfect water with organic and inorganic material in the source water. Understanding the health risks from long-term, low-level DBP exposure requires: consideration of highly complex mixtures with a large fraction of unknown constituents; new techniques, methods and models; and, the closely coordinated efforts of a multi-disciplinary research team. An overview of the U.S. EPA's Four-Lab Study will be presented. As increased demands are placed on limited water resources, meeting the challenge of sustainable water will require trans-disciplinary research efforts.

Friday, November 19, 2010

Seminar 12:00–1:00 p.m.

Discussion 1:00–2:00 p.m.

149 National Soybean Research Laboratory

1101 West Peabody Drive, Urbana

For more information contact:

Ann Hart, *Research Assistant*, at 244-6006 or amhart@illinois.edu

Brian Pianfetti, *HDR and Managing Director Water CAMPWS*, at 333-2633 or bpianfet@illinois.edu or visit the Website www.watercampws.org/waterforlife/ for streaming live video and archived presentations.

Series sponsors: University of Illinois Graduate College, NIEHS Environmental Toxicology Training Grant, Center of Advanced Materials for the Purification of Water with Systems, Illinois-Indiana Sea Grant College Program and College of ACES



University of Illinois
Graduate College
Focal Point Program



ILLINOIS - INDIANA



Center of Advanced Materials
for Purification of Water with Systems