

***Beyond the Hospital:***  
**Antibiotic Resistance as a Problem of the Community Environment**  
**Presenter Bios**

Physician, writer and full-time advocate, **David Wallinga, M.D.**, represents the Institute for Agriculture and Trade Policy (IATP) as a *de facto* doctor to the nation's ailing food system. Through his work, Dr. Wallinga sheds a public spotlight on commonplace practices usually kept under wraps—the contamination of high fructose corn syrup with mercury, the routine feeding of antibiotics and arsenic to food animals to help them grow faster. His 2010 essay on farm policy and the obesity epidemic in Health Affairs helped launch unprecedented interest in the health of the 2012 Farm Bill; subsequently, dozens of the nation's medical and public luminaries have signed onto IATP's Charter for a Healthy Farm Bill. Dr. Wallinga has also served as the only physician on the steering committee of Keep Antibiotics Working: The Campaign to End Antibiotic Overuse since 2000.

**Dr. Ellen Silbergeld** is trained in environmental engineering and toxicology and holds a PhD in Environmental Engineering from John Hopkins University where she is a professor in Epidemiology, Environmental Health Sciences and Health Policy and Management. With respect to the issues of pathogen exposures her research group was the first to undertake epidemiological studies among US farmers and workers, as well as their families and communities, which demonstrates that use of antimicrobial drugs in animal feeds is a significant driver for the selection of drug resistance in human pathogens. She is currently conducting research in this area with support from CDC and several foundations. Using state of the art molecular methods for pathogen identification and tracking, she has reported on increased carriage of drug resistant pathogens in commercial food items produced with conventional methods, and she has reported on environmental pathways by which pathogens from food animal production facilities enter the environment. She has served as a science advisor for the Environmental Protection Agency, Department of Energy, Center for Disease Control, National Institute of Environmental Health Sciences, Occupational Safety and Health Administration, and international organizations including the World Bank, United Nations Environment Programme, World Health Organization, Pan American Health Organization, and the International Labour Organization. She is editor in chief of Environmental Research and serves on the editorial board of several high impact journals. She has received numerous awards, including a lifetime achievement award from the Society of Toxicology, the Barsky Award of the APHA and a MacArthur "genius" award.

**Rolf Halden, PhD, PE** is a professor of environmental engineering at Arizona State University's Biodesign Institute and an adjunct faculty member of the Johns Hopkins Department of Environmental Health Sciences. He studies the fate of and risks posed by antimicrobial compounds in the environment, and has provided multiple invited presentations on this topic to the FDA, EPA, the National Academies and members of U.S. Congress. His new book is *Contaminants of Emerging Concern in the Environment: Ecotoxicological and Human Health Considerations*, <http://pubs.acs.org/isbn/9780841224964>.

**Kathy Dolan, MHS** is the Public Health Policy Analyst at Food & Water Watch, a national consumer advocacy group based in Washington DC. Her work focuses on the impact of chemical pollutants and biotechnology on our food and water systems. Kathy holds a B.S. in Health Studies from Georgetown University, and an M.H.S in Health Policy from Johns Hopkins Bloomberg School of Public Health.

**Carolyn K. Shore, PhD** is an American Society for Microbiology Congressional Science Fellow in the office of Rep. Louise Slaughter, where works on PAMTA (the Preservation of Antibiotics for Medical Treatment Act). She recently completed a postdoctoral research fellowship at the University of Iowa Carver College of Medicine where she worked on bacterial biofilm formation. Her Ph.D. in Microbiology and Molecular Genetics is from Harvard University, Boston.