



One Health Driven Environmental Research in the Anthropocene

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The Hong Kong Polytechnic

University



Seminar Abstract

Our world is facing many grand challenges such as water scarcity, soil degradation, food insecurity, and antibiotic resistance. In the era of Anthropocene marked by highly coupled human and natural systems, the One Health framework emphasizes the interdependence of human, animal, plant, and environmental health. It serves as an ideal platform for environmental soil and water research, because clean water and safe food are critical environmental determinants of health. This talk will highlight our recent work on environmental processes of emerging contaminants (e.g., antibiotics, antibiotic resistance genes, engineered nanoparticles, and plant pathogens), and their impacts on agricultural production, food safety, and human health.

Biography

Dr. Wei Zhang is an Assistant Professor of Environmental and Soil Physics at Michigan State University, USA. He received his Ph.D. degree in Environmental Engineering from Cornell University in 2010, his MS degree in Biosystems Engineering from Oklahoma State University in 2006, and his bachelor's degree in Environmental Chemistry from Nanjing University in 2000. He is broadly interested in the quality and sustainability of soil and water resources, and his current research focuses on environmental processes and impacts of emerging contaminants including antibiotics, engineered nanoparticles, and emerging microbial pathogens. He has published 44 peer-reviewed articles in premier journals in environmental science such as Environmental Science & Technology (10 papers) and Water Research (7 papers). His publications have been cited over 1000 times, with an H-index of 19. He currently serves as an Associate Editor for Journal of Environmental Quality, and Canadian Journal of Soil Science.

*** ALL INTERESTED ARE WELCOME ***

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