Waste Management and Health Care

Overview

Developing countries are facing a serious issue of rapid increase in waste generation rate and these countries are unable to support the basic services required to manage the large volume of waste on daily basis. As a result, the collected wastes are dumped in open landfilling sites while the uncollected wastes remain strewn on the roadside, many-a-time clogging drainage. Improper handling, storage, and disposal of wastes are major causes of environmental pollution, which provides breeding grounds for pathogenic organisms and encourages the spread of infectious diseases thus adversely affecting health of the people. This course will holistically analyze the different health implications that result due to improper waste management and how it affects various population sub-groups. It will also delineate the sustainable waste management techniques and appropriate health care remediation practices that can be adopted in developing countries to improve the situation.

Modules	**3rd December-8th December, 2018** **Module A:** Environmental issues and public health **Module B:** Solid waste management in developing countries **Module C:** Models for integrated environment and health care management **Module D:** Urban waste management interventions **Module E:** Community participation and behavioral change There will be lectures and interactive tutorial sessions. However, number of participants will be limited to less than fifty.
You Should Attend If…	• you are a senior undergraduate or a graduate student interested in better comprehending waste management and health care nexus. • you are an early career researcher, teacher, or practitioner interested in waste management practices and health concerns. • you are a government functionary, policy maker, or a life- long learner willing to make positive change in your communities of practice.
Fees	The participation fees for taking the course is as follows: **Participants from abroad : US $200** **Industry/ Research Organizations: Rs. 10,000** **Academic Institutions/ Government Organizations: Rs. 5,000** **Students: Rs. 1,000 (relaxation for reserved category candidates)** The above fee includes all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, free internet facility. The participants will be provided with accommodation on payment basis.

INTERNATIONAL EXPERT

Dr. Pankaj Lal is an Associate Professor in the Department of Earth and Environmental Studies and founding director of Clean Energy and Sustainability Analytics Center, Montclair State University. Dr. Lal undertakes integrative, interdisciplinary research that explores interconnections among society and the environment. Along with his research team, he has been working in the United States, Caribbean islands, Africa and South Asia focusing on environmental and energy economics and policy issues, including solid waste management, recycling and environmental analyses. His ongoing research projects involve aspects of clean energy, water, waste management, natural resources, and economies that collectively impact communities around the world. He was awarded Presidential Early Award for Scientists and Engineers by President Obama and received prestigious National Science Foundation CAREER Award to explore opportunities for bioenergy sustainability as well. He has published more than five dozen scholarly articles in peer-reviewed journals, federal research agencies technical reports and book chapters. He frequently reviews competitive grant proposals for agencies like National Science Foundation and United States Department of Agriculture.

LOCAL EXPERTS

Dr. **Ashok Kumar Ghosh** is Chairman of Bihar State Pollution Control Board (BSPCB) and Member of Regional Empowered Committee (REC), Ministry of Environment, Forests, and Climate Change. He is also working as Professor and Head of Research Wing at Mahavir Cancer Institute and Research Centre, Patna. The main areas of his research are ground water quality and quantity. He is PI of DST supported project INNOWATER. Dr. Ghosh is also working on International Project DELTAP supported by NWO Wotro of Netherlands, Project; NUTRI-SAM supported by DST-UKIERI; & Project FAR-Ganga supported by DST-NERC.

Dr. **Aditya Raj** is an Asst. Professor at Indian Institute of Technology Patna. Dr. Aditya was the recipient of the best young Sociologist award by the Indian Sociological Society in 2013. He completed his PhD as a Commonwealth Fellow from McGill University in 2007. He was at the University of British Columbia, Vancouver before joining IIT Patna in 2010. Dr. Aditya has presented and published with social science international forums of repute. His interests include society and education, migration, inclusive development, and youth.

Course Co-ordinator

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Dr. Papia Raj is an Assistant Professor in the Department of Humanities and Social Sciences, Indian Institute of Technology Patna. She is a public health expert and her research interests include environmental health, health care management, population and public health. Dr. Papia completed her PhD degree from McGill University, Montreal. She was a post-doctoral fellow in the School of Population and Public Health at University of British Columbia, Vancouver. As a PI for the project titled Waste Management Training to Reduce Health Hazards of Solid Wastes in Patna, Dr. Papia had organized workshops on this issue involving different stakeholders. She brings an interdisciplinary approach to her work, drawing on geography, health sciences, development studies, medical anthropology, epidemiology and social theory. She had been the recipient of many international awards from prestigious organizations including Canadian Association of Population Therapeutics; NEXUS Research Unit, University of British Columbia; Association of American Geographers; McGill Centre for Research and Training on Women. Dr. Papia has presented and published her research extensively in national and international forums of repute.