

Centre for Environmental Science and Engineering, Indian Institute of Technology Kanpur
International Conference on Environmental Health and Technology, March 15-17, 2010, Outreach Auditorium
Programme

DAY 1- March 15, 2010

Session	Time, hrs		Speaker	Institute	Title
	Start	End			
Registration	0800	0930	Registration		
Inaugural	0930	1030	Inauguration		
	1030	1100	Tea (Outreach Lawns)		
Special Session	1100	1145	William H. Schlesinger	The Cary Institute of Ecosystem, USA	Coupled Biogeochemical Cycles
Chair: Deepak Kunzru	1145	1230	R. R. Sonde	Thermax, Pune	Clean Technology & Climate Change Challenge - Myths & Realities in Indian Context
	1230	1315	V. P. Aneja	NC State University, USA	Farming Air Pollution: Challenges and Opportunities
	1315	1415	Lunch (Visitors Hostel (VH) Lawns)		
Atmospheric processes and Air Quality	1415	1445	H. B. Singh	NASA , Ames Research Centre	ARCTAS: An International Polar year (IPY) Experiment to Investigate Pollution in the Arctic Atmosphere
	1445	1515	S. Pushpavanam	IIT Madras, Chennai	Towards a holistic approach for source apportionment: combining Factor Analysis. Positive Matrix Factorization and CMB ₂ Modeling
Chair: M. Sharma	1515	1545	P.S. Khillare	J.N.U. , New Delhi	Assessment of Particulate PAHs in pre- and post-CNG periods in Delhi
	1545	1615	B Sengupta	Ex. Secretary CPCB, N. Delhi	Current Status of Air Pollution Control in India
	1615	1630	Tea (Outreach Lawns)		
Water & Waste Management	1630	1700	Edward McBean	University of Guelph, Guelph, Ont., Canada	Risk Management of As in drinking water for the rural poor in a climate changing world
	1700	1730	K. Shiomori	University of Miyazaki, Japan	Findings from Arsenic Mitigation Project in Bahraich, Uttar Pradesh, India
Chair: Nishit Verma	1730	1800	Udai Singh	CH2M Hill, USA	Some Challenges in Hazardous Waste Management
Pre-banquet Talk*	1915	2000	Arun Shourie	Member Rajya Sabha and Former Minister, Govt. of India	

- Talk will be held at Outreach (1915 hrs) and Banquet in lawns of Visitors' Hostel (2000 hrs)

DAY 2- March 16, 2010

Session	Time, hrs		Speaker	Institute	Title
	Start	End			
Climate Change and Environmental Chemistry Chair: Nalini Shankar	0800	0825	S N Singh	N.B.R.I., Lucknow	Climate Change and Ecology
	0825	0850	D. Chakraborty	Jadavpur University, Kolkata	Groundwater Arsenic Contamination in Ganga-Meghna-Brahmaputra (GMB) Plain and its Health Effects
	0850	0915	B C Raymahashay	Ex. Professor, IIT Kanpur	Rocks, Soils and Environmental pollution
	0915	0940	C. J. Cormier	World Bank	Energy Intensive Sectors of the Indian Economy - Options for Low Carbon Development
	0940	0955	Tea (Outreach Lawns)		
Environmental Health Chair: Ashok Kumar	0955	1020	Shantanu Bhattacharya	IIT Kanpur	BioMEMS and micro fluidics for clinical diagnostics and detection
	1020	1045	S. K. Katiyar	Ex. Principal, GSVM Medical College, Kanpur	Delivery of anti-tubercular drugs through inhaled route – a novel approach in management of pulmonary tuberculosis
	1045	1110	M. Kleinman	University of California, Irvine, USA	Inhaled Particulate Matter and Cardiovascular Disease
	1110	1135	Alena Bartonova	NILU, Norway	Approaching complexity in Environment and Health: bringing science nearer decision making
	1135	1200	BR Gurjar	IIT Roorkee	Air Pollution and Health Risk in Mega cities
	1200	1245	Poster Sessions (Outreach Auditorium)		
	1245	1330	Lunch (VH Lawns)		
Technology and Action Plans Chair: S. Panda	1330	1355	Samar Chatarjee	Safe Foundation, Washington, DC	Nanotechnology facilitating waste minimization
	1355	1420	Nishit Verma	IIT Kanpur	Development of Chemical nanofibers and nanoparticles as adsorbents for mitigation of gaseous, aqueous and biosystems
	1420	1445	P. Gargava	Central Pollution Control Board, Delhi	Source Apportionment Studies and Action Plan for Attainment of Air Quality Standards in Six Indian Cities
	1445	1510	S. K. Gupta	Envirotech, New Delhi	Indigenous Air Monitoring System
	1510	1530	Tea (Outreach Lawns)		

Session	Time, hrs		Speaker	Institute	Title
	Start	End			
Environmental Monitoring and Management Chair: Mukesh Sharma	1530	1555	Titia Meuwese	Synspec BV, The Netherlands	Advancements in Continuous Air Quality Monitoring
	1555	1620	Virendra Sethi	IIT Bombay	Development of Metal-Oxide/Polymer Nano-composite Sensors for Detection of Gas Pollutants
	1620	1645	KP Singh	ITRC, Lucknow	Partial Least Squares and Artificial Neural Network Modeling of the Environmental Processes-Some Case Studies
	1645	1710	S. Panda	IIT Kanpur	Electrolyte Insulator Semiconductor based Microfluidic Biosensor for Early Disease Detection
	1710	1735	Rakesh Kumar	NEERI, Mumbai	Cleaning of our Lakes and Rivers of India using Sustainable Treatment Systems
	1735	1800	Anumita Roychowdhury	Centre for Science and Environment	Seeking solutions to air pollution, congestion, and health
	2015	2200	Dinner		

DAY 3: March 17, 2010

Session	Time, hrs		Speaker	Institute	Title
	Start	End			
Exposure and Health Chair: S. Bhattacharya	0800	0825	SK Choudhury	IIT Kanpur	Economic and Eco-friendly Machining : A boon for Machine Industry
	0825	0850	Mukesh Sharma	IIT Kanpur	Estimation of Metabolic Parameters for Lead Discharge through Liver and Kidney: Application of Physiologically Based Pharmacokinetic Model
	0850	0915	Rajsekhar Bala	NUS, Singapore	Emissions of Ultrafine Particles from Laser Printers: Characterization and Health Impacts
	0915	0930	Tea		
Environmental Health – Case Studies Chair: A. Ghatak	0930	0955	AB Gupta	MNIT, Jaipur	Presence of Fluorides and nitrates in drinking water and human health
	0955	1020	Massimo Spadoni	Italian National Research Council	Environmental geochemistry and geochemical mapping as support to land planning and public health protection: case histories in Italy
	1020	1045	B D Melhotra	NPL, New Delhi	Opportunities in nanostructured metal oxides based biosensors for clinical diagnostics'
	1045	1110	P.K. Seth	Ex Director, ITRC	Challenges and Opportunity in Environmental Health
Concluding Session	1110	1215	Integration and Synthesis – Panel Discussion		
	1215	1315	Lunch (VH Lawns)		

Student Posters

S.No.	Title of the Abstracts	Authors	Affiliation
1.	Endocrine Disrupting Chemicals (EDCs): Remedial Options	Gurdeep Singh, Alok Sinha, Rajneesh Kr. Srivastava	Department of Environmental Science and Engineering, ISM, Dhanbad
2.	Trimesic acid coated alumina: a potent adsorbent for both cationic and anionic pollutants from aqueous solution	Bedabrata Saha, Saswati Chakraborty, Gopal Das	Indian Institute of Technology Guwahati Assam – 781039, India
3.	16S rRNA based identification of a bioactive dextran producing <i>Pediococcus pentosaceus</i> isolated from soil of biodiversity hotspot Assam	Seema Patel, <u>Arabinda Ghosh</u> and Arun Goyal	Indian Institute of Technology Guwahati, Assam, India
4.	Indoor air quality using biomass fuels and its impact on human respiratory health – a case study	Anurag Yadav, Gaurav Singh, Nishant Sharma, Saurav Chakraborty, P. Chandilya, N Kaul, A B Gupta.	Malaviya National Institute of Technology, Jaipur, 302017, India
5.	Effect on Pulmonary functions of the healthy subjects during wheat-rice residue burning in and around Patiala city	Amit Awasthi, Nirankar Singh, Susheel Mittal, Prabhat K Gupta and Ravinder Agarwal	Thapar University Patiala-147004
7.	Detection and Quantification of Airborne Endotoxins from Occupational Environment	Vinita Katiyar	Indian Institute of Technology Delhi, India - 110016
8.	Fine Particle Concentrations and its Chemical Characterization in Residential homes Located in Different Microenvironments of Agra, India	Mahima Habin and Ajay Taneja	Dr. B R Ambedkar University, Agra, India
9.	Adsorption of methylene blue on used tea levels: Two stage batch absorber design	Atul Singh, Sheo Prasad Shukla, Narendra Bahadur Singh	Institute of Engineering & Technology, Lucknow.

S.No.	Title of the Abstracts	Authors	Affiliation
10.	Regional Scale Chemical Transport Modeling: Development of GIS-based Emission Inventory and Application of WRF and CAMx Models	Varun Bhatt, Swarnali Sanyal, Gargi Singh, and Mukesh Sharma	Indian Institute of Technology, Kanpur
11.	Kinetics of degradation of 4-chlorophenol by Fenton's process	Prasanna Kelapure, Prabir Ghosh, A.N.Samanta and Subhabrata Ray	Indian Institute of Technology, Kharagpur-721302.
12.	Kinetics of growth and biodegradation of p bromophenol and p-nitrophenol by Arthrobacter chlorophenicus A6	N. K. Sahoo, K. Pakshirajan, P. K. Ghosh	Indian Institute of Technology Guwahati -781039, India
13.	Temperature and Humidity sensing studies with nanostructured polyaniline thin films	Prasenjit Ghosh , Hakeem Abrar Ahmad, Siddhartha Panda	Indian Institute of Technology Kanpur
14.	Development of a Continuous Annular Photocatalytic Reactor for the Control of Volatile Organic Compounds using TiO ₂ Nanoparticles	Rajesh Mohanan, Pavan kumar Nagar, Suraj Agarwal, Mukesh Sharma and Tarun Gupta	Indian Institute of Technology Kanpur
15.	Enhanced performance of an EIS sensor using textured dielectric silica surface	Subham Dastidar, Abhishek Agarwal, Ravi Chahar, Siddhartha Panda	Indian Institute of Technology Kanpur
16.	Densities and Orientations of Antibodies on Nano-textured Silicon Surfaces	Satyendra Kumar, Nitin Rathor, Ramchander Ch, Dharitri Rath, Siddhartha Panda	Indian Institute of Technology Kanpur
17.	Ground water geochemistry of Kanpur district along the alluvial gangetic plain, UP, India and mechanism of arsenic release	Vivek Singh Chauhan and Nalini Sankararamakrishnan	Indian Institute of Technology, Kanpur
18.	Equilibrium Studies on the Treatment of Arsenic Contaminated Water using Iron-Chitosan Spacer Granules	Anjali Gupta and Nalini Sankararamakrishnan	Indian Institute of Technology, Kanpur
19.	Activated Carbon Micro and Nanofibers in Environmental Remediation Applications	Anindita Chakraborty, Ravi Naik, Paramita Halder, Mekala B., Ashutosh Sharma, Nishith Verma	Indian Institute of Technology Kanpur

S.No.	Title of the Abstracts	Authors	Affiliation
20.	Preparation of Micro-Nano Carbonized Polymeric Beads for Environmental and Pharmaceutical Applications	Rishabh Saraswat, Vikas Kumar, Karthiga K., Nalini Sankararamakrishnan, Ashutosh Sharma Nishith Verma	Indian Institute of Technology Kanpur
21	Ammonia Emissions in the US: Assessing the role of bi-directional ammonia transport within vegetation canopies using the Community Multi-scale Air Quality (CMAQ) model	Megan L. Gore and Viney P. Aneja, Ellen J. Cooter, Robin L. Dennis, and Jon Pleim	North Carolina State University Raleigh, NC 27695-8208, USA
22	Design of novel materials for the separation of organic impurities from aqueous medium	Sudhir K. Singh, M. V. P. Srinivas and Jayant K. Singh	Indian Institute of Technology Kanpur
23	Indoor Air Pollution Measured in the Different Microenvironments at IIT Kanpur	Rajmal Jat, Julie Parfait, Adrien Peuch and Tarun Gupta	Indian Institute of Technology Kanpur
24	Development and Field Evaluation of a PM _{2.5} Sampler	Tarun Gupta and Jaiprakash	Indian Institute of Technology Kanpur