



Day 1, 31st January 2019

09:15	Registration + Breakfast	
10:15	Inaugural session (Prof. Balaji, Dean R&D, IIT/B & Prof. Mukherji, Head, CESE, IIT/B)	
10:30	(Keynote 1) Prof. Shyam Asolekar, CESE, IIT Bombay	
Session A1: Air Quality and Impacts, Room No 21 (Chair: Prof. V. Sethi)		
11:30	Expert Talk (Prof. Shankar Murthy, NITIE, Mumbai)	
12:06	K. Tibrewal	Air Quality Implications of The Latest Brick Emissions Standards (2018) in India
12:24	T. Sharma	Impact of Transport Policies on Vehicle Usage and Air Pollution in Urban Cities
12:42	A. K. Mandariya	Temporal Characteristics of Hygroscopic Growth Factor of Accumulation Mode Particle at Heavily Polluted Urban Atmosphere of Kanpur During Winter
Session B1: Climate Change and Implications, Room No 22 (Chair: Prof. P. Kalbar)		
11:30	Expert Talk (Prof. T. I. Eldho, Civil, IIT Bombay)	
11:48	Expert Talk (Prof. Subimal Ghosh, Civil, IIT Bombay)	
12:06	R. Maity	Assessment of Urban Temperature Rise with Time-Varying Downscaling Model
12:24	A. Gusain	Flood Hazard Characterization of Highly Flood-Prone Region under Changing Climate at Village Level
12:42	N. Sudharsan	Are We Underestimating The Heat Stress over India Due to Heatwaves?
Session C1: Emerging Wastewater Technologies, Room No 23 (Chair: Prof. A. Garg)		
11:30	Expert Talk (Prof. A. B. Gupta, MNIT, Jaipur)	
12:06	S. Bharti	Antiviral Activity of Colloidal and Immobilized Silver Nanoparticles
12:24	N. K. Chaturvedi	Degradation Studies Of O-Anisidine A Toxic Pharmaceutical Compound in Aqueous Solution by Fenton's Oxidation
13:42	J. Jose	Pulsed Corona Discharge Treatment For The Degradation of Chloroform and Chlorobenzene
13:00	Lunch	



Session A2: Indoor Air Pollution, Room No 21 (Chair: Prof. H.C. Phuleria)

14:00		Expert Talk (Prof. Virendra Sethi, CESE, IIT Bombay)
14:36	D. Sharma	Indoor Air Pollution from Solid Biomass Burning in Cook stoves: an Intervention Analysis to Assess the Benefits and Co-Benefits in Rural Settings
14:54	S. Lama	Predicting the Accumulation of CO ₂ in a Cinema Hall Using GNU Octave Application
15:12	J. Patel	Peak Hour Road Traffic Noise Mapping of West Zone of Surat Using ArcGIS

Session B2: Waste Management, Room No 22 (Chair: Prof. S. Murthy)

14:00		Expert Talk (Prof. Pradip Kalbar, C-USE, IIT Bombay)
14:36	V Arundhathi	Comparative Life Cycle Assessment of Various Synthesis Routes of Silver Nanoparticles
14:54	J. Kurasam	Impact of Activated Sludge Based Sewage Treatment Plant in The Proliferation of Antibiotic Resistant Bacteria
15:12	C. V. Reddy	Impact of MSW on Stabilization, Temporal Leachate Characteristics: A Laboratory Scale Landfill Simulation Reactor Study

Session C2: Wastewater Treatment Technology, Room No 23 (Chair: Prof. A.B. Gupta)

14:00		Expert Talk (Prof. Suparna Mukherji, CESE, IIT Bombay)
14:36	M. Patel	Effect of Wastewater on Arsenic Mobilization from Soil to Water
14:54	T. V. Surya	Performance Evaluation of Batch Operated Constructed Wetlands in Wastewater Treatment
15:12	I. Khatri	Catalytic Wet Oxidation Treatment Of Centrifuged Biomethanated Spent Wash Produced from Distillery

15:30

Tea + Poster Session

Achieving Excellence Together



Session A3: Air Pollution Assessment, Room No 21 (Chair: Prof. T. Gupta)

16:30		Expert Talk (Dr. Sunita Purushottam, Mahindra Lifespace Developers Ltd.)
17:06	M G. Raj	Assessment of Commuters' Repetitive Exposure to Particulate Matter 2.5 and Nitrogen Dioxide on Various Modes of Transportation in Chennai
17:24	P. K. Nagar	Sampling, Analysis and Interpretation of PM ₁₀ , PM _{2.5} , Metals And Organics At Kanpur, Uttar Pradesh
17:42	A. Sharma	Surface PM _{2.5} Concentrations and Its Composition over India Using WRF-Chem Simulations

Session B3: Environmental Management, Room No 22 (Chair: Prof. A. Shrivastav)

16:30		Expert Talk (Prof. Arnab Jana, C-USE)
17:06	Ekta	Nano-Pesticides- A New Emerging Technology in Agricultural Sector
17:24	M. Prasad	Natural Resource Management and Corporate Governance in Indian Firms
17:42	A. Singh	Open Solid Waste Dumpsites and Its Reclamation Potential in India

Session C3: Wastewater Management Technologies, Room No 23 (Chair: Prof. M.K. Chandel)

16:30		Expert Talk (Prof. Swatantra P. Singh, CESE, IIT Bombay)
17:06	J. Jekenilling	Geochemical Analysis of Arsenic Contaminated Groundwater of Baikunthpur (Uttar Pradesh), India
17:24	S. Mohapatra	Characterisation of dissolved organic matter in wastewater obtained from a WWTP using fluorescence spectroscopy
17:42	A. V. Karim	Sono-catalytic removal of ciprofloxacin using polystyrene as catalyst

18:00 **High Tea**

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Day 2, 1st February 2019

8:30	Air Pollution Monitoring Tutorial (Prof. Tarun Gupta, IIT Kanpur)	
10:00	Breakfast	
10:30	Keynote 2 (Prof. Pratim Biswas, Univ. Washington, St. Louis)	
Session A4: Ambient Air Pollution, Room No 21 (Chair: Prof. V. Sethi)		
11:30	Expert Talk (Prof. Tarun Gupta, Civil, IIT Kanpur)	
12:06	K. Biswas	Design and Computational Fluid Dynamics Simulations of an Eccentric Nozzle Inertial Impactor's Performance
12:24	A. Garg	Levels, Health Risk Assessment and Ozone Formation Potential of BTEX Emissions in Ambient Air of Central Delhi, India
12:42	N. Raparthi	Estimating the average fleet emission factors for on-road vehicles by driving a Car through the roadway tunnels
Session B4: Environmental Technologies, Room No 22 (Chair: Prof. M. Sahu)		
11:30	Expert Talk (Prof. Satish B. Agnihotri, CTARA, IIT Bombay)	
12:06	J. Malik	Exploring the influence of occupant behaviour on thermal comfort in social housing
12:24	S. Das	Effect of impose potential on microbial electro synthesis of organic compounds from biogas
12:42	N. K. Khandelwal	Synthesis and characterization of Clay-Carbon-NZVI trident nanocomposite for the removal of toxic metal ions from aqueous solutions
Session C4: Water and Wastewater, Room No 23 (Chair: Prof. S.P. Singh)		
11:30	Expert Talk (Dr. Anju Singh, NITIE)	
12:06	L. Pisharody	Evaluation of Con A Lectin for Concentration of Rotavirus from Water Samples
12:24	S. S. Borah	Application of Information Entropy for Development of a Water Quality Index
12:42	K. U. Ahamad	Artificial Neural Network Models to Predict Dissolved Oxygen and Secchi Depth in Eutrophic Lakes



13:00

Lunch

Session A5: Urban Air Pollution, Room No 21 (Chair: Prof. M. Sahu)

14:00

Expert Talk (Prof. Chandra Venkataraman, Chemical, IIT Bombay)

14:36

Expert Talk (Dr. Ashok Gopalakrishnan, Magnificent2/ REWA Univ.)

15:12 A. Anand

Modelling Indoor PM_{2.5} And BC in Slum Homes Of Mumbai, India

15:30 A. Sarkar

Optimizing air-outlet and furniture location for improved indoor air quality in low-income tenement units of Mumbai, India

Session B5: Waste to Resource, Room No 22 (Chair: Prof. A. Singh)

14:00

Expert Talk (Prof. Anurag Garg, CESE, IIT Bombay)

14:36 P. Singh

Potential of Food Waste as a source of decentralised energy generation

14:54 A. K. Thakur

Effective use of marble waste and fly ash for making geo-polymeric hybrid composite bricks via cold extrusion technique

15:12 J. Bhagat

DNA damage and biochemical responses in short neck clam- Paphia Malabarica from Goa Coast

Session C5: Wastewater Treatment Systems, Room No 23 (Chair: Prof. S. Suresh)

14:00

Expert Talk (Dr. Ajay Deshpande, SPPU/ ADB)

14:36 S. Krishnan

Natural dye-sensitized photocatalysis for the discolouration of methylene blue

14:54 J. Sharma

Sulphate removal from industrial wastewater by electrocoagulation by precipitate of Ettringite

15:12 G. D. Bhowmick

Introducing novel hybrid ion exchange membrane and ANAMMOX bacteria to improve nitrogen removal efficacy of microbial fuel cell

15:30 A.K. Mohapatra

Inhibited fluorite dissolution due to interaction of manganese and carbonate in Indian groundwater aquifers

15:30

Tea + Poster Session

16:30

Panel Discussion (CESE Alumni event) (Invited members only)

19:00

Dinner (Invited members only)



Day 3, 2nd February, 2019

10:00		Tea
10:30		Keynote 3 (Prof. Sharad P. Kale, BARC)
Session A6: Air Pollution Health Effects, Room No 21 (Chair: Prof. H.C. Phuleria)		
11:30		Expert Talk (Dr. Amita Athavale, KEM)
12:06		Expert Talk (Dr. Shyam Tampi, Bombay Hospital)
12:42	J. V. Puthussery	Real-time measurement of the oxidative potential of ambient particles
13:00	O. Bansal	Impact of a Severe Dust Storm on Aerosol Characteristics over North-western part of India
Session B6: Solid Waste Management, Room No 22 (Chair: Prof. A.K. Dikshit)		
11:30		Expert Talk (Prof. A.B. Inamdar, CSRE, IIT Bombay)
12:06	U. Jadeja	Synthesis of Biodegradable Plastic from Household Waste
12:24	K. R. Nair	Biochemical Changes During Composting of Wet Biodegradable Organic Waste
12:42	P. Pradhan	Energy recovery from waste – Gasification of biomass pellets for thermal energy production
13:00	S. M. Arali	Biogas Production from Kitchen Waste and its Utilisation for SI Engine: Case Study
Session C6: Water and Wastewater, Room No 23 (Chair: Prof. S. Karmakar)		
11:30		Expert Talk (Prof. Amritanshu Shrivastav, CESE, IIT Bombay)
12:06	R. Negi	Analysis of Water-Energy Nexus for Water Utilities in Thane region of Maharashtra, India.
12:24	T. Bandyopadhyay	Removal of Hexavalent Chromium from Groundwater Using Electrocoagulation
12:42	A. Patani	Phyto-Desalination of Saltwater using Halophytes
13:00	N. Tomar	Small scale PVA gel based MBBR wastewater treatment plant development based on the performance of lab scale plant
13:20		Awards + Closing Ceremony
14:00		Lunch