



**Technical Program**  
**International Conference on Sustainable Solutions in Industrial Pollution, Water and Wastewater Treatment**  
**November 10-11, 2018**  
**Venue: Auditorium, University Polytechnic (Boys)**

**Day 1, Saturday November 10, 2018**

09.0 a.m. – 10.30 a.m.                      **On Spot Registration**  
10.30 a.m. – 11.45 a.m.                    **Inaugural Function**  
11.45 a.m. – 12.15 noon                   **Tea Break**

**Technical Session 1**

12.15 noon- 12.40 p.m.	<b>Key Note Lecture</b>	Dr. Rajendra Singh, Tarun Bharat Sangh
12.40 p.m. - 1.05 p.m.	<b>Invited Talk:</b> Sustainable Solutions in Water and Wastewater Engineering Must Address the Spread of Antimicrobial Resistance (AMR)	Prof. Anwar Hashsham, MSU, USA
1.05 p.m. – 1.30 p.m.	<b>Invited Talk:</b> Restoring National Air Resources: Challenges to Solutions	Prof. Mukesh Sharma, I.I.T., Kanpur

**1.30 p.m. – 2.30 p.m.**                      **Lunch (Venue: University Polytechnic Lawns)**

**Technical Session 2**

**Session Chairs: Prof. Ligy Philip and Prof. Absar A Kazmi**

2.30 p.m. – 3.00 p.m.	<b>Invited Talk:</b> Wastewater Treatment Using Pulse Power Technology	Prof. Ligy Philip, I.I. T., Madras
3.00 p.m. – 3.30 p.m.	<b>Invited Talk:</b> Development of PVA Gel Based Moving Bed Biofilm Reactor for Organics and Nitrogen Removal: From Laboratory to Field	Prof Absar A Kazmi, I.I.T., Roorkee
3.30 p.m. – 3.40 p.m.	Stoichiometric Model on Simultaneous EBPR and Sludge Production in OSA	Prof. Anwar Khursheed, AMU
3.40 p.m. – 3.50 p.m.	Dynamic study of column adsorption of lead ions from wastewater using polyaniline coated mango leaf powder	Achla Kaushal, DTU



3.50 p.m. – 4.0 p.m.	Treatment of dairy wastewater by electrocoagulation using vertically held rotating cylindrical aluminium electrodes.	Amit Kumar, MNIT Allahabad
4.0 p.m. – 4.10 p.m.	Pilot- Scale Studies on Pre-Denitrification Process for Organic Matter and Nitrogen Removal	Nilesh Tomar, IIT Roorkee
4.10 p.m – 4.20 p.m.	Fuzzy Logic Based Models to Predict Biogas and Volatile fatty Acids (VFA) Production in UASB Reactor treating Sulphate Rich Wastewater	D Nayyer, MNNIT, Allahabad

#### 4.20 p.m. – 4.40 p.m. Tea Break

#### Technical Session 3      Session Chairs: Prof. Mohammad Jawed, IIT Guwahati and Prof. S.K. Singh, Delhi Technical University

4.40 p.m.- 5.10 p.m.	<b>Invited Talk:</b> Performance Assessment of Clariflocculator of a Water Treatment Plant – A Case Study	Prof. Mohammad Jawed, IIT Guwahati
5.10 p.m. - 5.20 p.m.	Delineation of Natural Hydrochemical Backgrounds in Sanganer Block, Jaipur District Rajasthan	Dr. Abdurrehman, CSIR, NGRI, Hyderabad
5.20 p.m. - 5.30 p.m.	Feasibility Study of Supplying Drinking Water from Surface Water Sources in Amritsar City	Chadetric Rout    M.M. U.Mullana
5.30 p.m. – 5.40 p.m.	Assessment of Water quality status of river Yamuna, Delhi: Impact of Municipal and Industrial Wastewater	Shikha Yadav, University of Delhi
5.40 p.m. – 5.50 p.m.	Mixing of contaminated river water with riparian groundwater along Kali Nadi – a vicious development.	Haris Hasan Khan
5.50 p.m. – 6.00 p.m.	Heavy metal pollution in groundwater of Aligarh City, Uttar Pradesh	Mashkoo Khan, AMU
6.00 p.m. – 6.10 p.m.	Water Quality Index and Investigation of Ground Water Quality Using Physico-Chemical Characteristics at Achnera block, Agra District.	Shahjad Ali, Anand College, Agra

#### 8.0 p.m. Onwards Conference Dinner (Venue: Civil Engineering Lawns)



**Day 2, Sunday November 11, 2018**

**Technical Session 4: Sustainable Solutions 1      Session Chairs: Prof. Zulfiqar Ahmad, I.I.T. Roorkee, Prof. Babu J Alappat, IIT Delhi**

10.00 a.m. – 10.20 a.m.	<b>Invited Talk:</b> Solid Waste Management Waste to Energy	Prof. Babu J Alappat, IIT Delhi
10.20 a.m. – 10.40 a.m.	<b>Invited Talk:</b> Sediment Transport and Management in Ganga River	Prof. Zulfiqar Ahmad, I.I.T., Roorkee
10.40 a.m. – 10.50 a.m.	Development of Inject Printed Flexible Passive Sensor Tag for Monitoring of Quality of Potable Water	Dr. S.J.A. Rizvi, AMU
10.50 a.m. – 11.00 a.m.	Solid Waste Management Scenario in Kampur Metropolitan Area of Assam	Amallesh Adhikary Advocate High Court, Guwahati
11.00 a.m. – 11.10 a.m.	Preparation of Landfill sites for Urbanization Through an Efficient Combination of Stone Columns and Soil Nails: A Numerical Modelling of a Stabilized Landfill Site	Dr. M.A.Farooqi, AMU
11.10 a.m. – 11.20 a.m.	II <sup>ND</sup> Generation Bioethanol: A Sustainable Solution for Converting all types of Agricultural Residues into a Cleaner, Greener and Economic Fuel Option.	Aashti Hamid M.S. University if Baroda, vadodra
11.20 a.m. – 11.30 a.m.	Algae in Generation of Biofuels Integrated with Wastewater Treatment and other Applications of Algae Simultaneously	Shirjeel Ahmad Khan

**11.30 – 11.50 a.m. Tea Break**

**Technical Session 5      Sustainable Solutions 2      Session Chairs: Prof. R.H. Siddiqi and Prof. Ashok Kumar**

11.50 a.m.–12.10 p.m.	<b>Invited Talk:</b> Examination of Industrial Pollution in the United States of America	Prof. Ashok Kumar, Toledo, USA
12.10 p.m. – 12.30 p.m.	<b>Invited Talk:</b> Emerging contaminants: Occurrence and fate in WWTPs	Dr. Arya V, I.I.T., Delhi
12.30 p.m. – 12.50 p.m.	<b>Invited Talk:</b> Climate Implication and Emissions of PM 2.5 and Gaseous Pollutants from Biomass Burning in Cookstoves in villages of North India	DR. Ghazala Habib, I.I.T Delhi
12.50 p.m. – 1.00 p.m.	Commuters Exposure to PM2.5 and Noise while Travelling in Public Transport	Dr. Rajeev Kumar Misra, DTU
1.0 p.m. – 1.10 p.m.	Chemical characteristics of PM2.5 and identification of local and regional source contribution in Delhi using positive matrix factorization	Kashish Jain, I.I.T. Delhi
1.10 p.m. – 1.20 p.m.	Particulate and gaseous emissions from light commercial vehicle under no load and full load conditions	Shahzar Khan, I.I.T., Delhi
1.20 p.m. – 1.30 p.m.	Influence of Lead Pollution in Erodibility of Cohesive Sediments	Prof. Sarafaraz Ali Ansari, AMU



1.30 p.m. – 2.30 p.m.

Lunch (Venue: University Polytechnic Lawns)

Technical Session 6

Nanotechnology

Session Chair: Prof. Ameer Azam and Prof. Anwar Khursheed

2.30 p.m. – 2.50 p.m.	<b>Invited Talk</b>	Prof. Absar Ahmad, Director
2.50 p.m. – 3.00 p.m.	Biosorption of textile dye using silver nanoparticle functionalized algal nano bio-composite	Wasim Akram Shaikh
3.00 p.m. – 3.10 p.m.	Nano-optical Properties of the Synthesized Material Like $\text{TiO}_2$	Syed Irtaza Hussain, JP Chhapra
3.10 p.m. – 3.20 p.m.	Role of Nano-Particles on the Permeability of Fly Ash	Prof. Javed Alam
3.20 p.m. – 3.30 p.m.	Adsorption of Fluoride from Aqueous Solution by Cerium-Aluminum Binary Oxide Nanomaterials	Rumam Zaidi, AMU
3.30 p.m. – 3.40 p.m.	Synthesis and application of POLY(ACRYLAMIDE)/BENTONITE HYDROGEL Nanocomposite for the uptake of Lead and Cadmium	Suhail Ayoub Khan, JMI
3.40 p.m. – 3.50 p.m.	Commingling the 'NANO' into 'COMPOSITE', synthesis of a CNT NANO-COMPOSITE and studying its photocatalytic and Anti-Cancer applications	Yashfeen Khan, AMU
4.00 p.m. – 5.00 p.m.	Valedictory Function	