

Advanced Technologies for Industrial Pollution Control (ATIPC-2018)
Civil Engineering Department, IEST Shibpur
December 17-19, 2018

Programme Schedule

Day	TIME	PROGRAM
17/12/2018	09:00 – 10:00	Registration
	10:00 – 11:00	Inauguration
	11:00 – 11:30	High Tea
	11:30 – 13:00	Key Note Lecture by Dr. Lee Blaney, University of Maryland Baltimore County, USA
	13:00 – 14:00	Lunch Break
	14:00 – 15:30	Key Note Lecture by Dr. Babu J. Alappat, Indian Institute of Technology, Delhi
	15:45 – 17:15	Technical Session I - Industrial effluent treatment, Reuse and Conservation Venue: Civil Engineering Seminar Hall
		Biodegradation of Carbazole using <i>Pseudomonas aeruginosa</i> RS1 (Paper ID 16) <i>Prasenjit Ghosh, Suparna Mukherji</i>
		A Study on Waste Heat Utilization in Steel Plants (Paper ID-107) <i>Saikat Chakraborty, Tathagata Bhattacharya, Sudeb Dutta</i>
		Chromium phytoremediation study with <i>Salvinianatans</i> (Water velvet) for treatment of metal finishing plant wastewater (Paper ID – 104) <i>Manisha Halder Biswas, Somnath Mukherjee</i>
		Degradation of various azo dyes by the help of nZVI immobilized in agarose membrane (Paper ID – 100) <i>Raju Mudi, Sandip Halder, Avik De</i>
		Aerobic Granulation in Oily Wastewater Treatment: Granule Characterization, Pollutant Removal and Phyto-toxicity Study (Paper ID-4) <i>Sayanti Ghosh, Saswati Chakraborty</i>
		Treatability Study of Synthetic Slaughterhouse Wastewater using Hybrid UASB Reactor (Paper ID – 84) <i>Loganath R, Debabrata Mazumder</i>
	15:45 – 17:15	Technical Session II - Water quality monitoring and treatment in industrial area (Venue: B-IX-2S, Civil Engineering Department)
		Mitigating Industrial Pollution in Urban Waterbodies Using Africal Sharptooth Catfishes(Paper ID- 99) <i>Jaydev Misra, Priyadarshini Mallick</i>
		Synthesis of iron doped Mesoporous TiO ₂ for degradation of organic dyes in wastewater under visible light (Paper ID – 26) <i>Kankana Seal, Soumen Basu, Mrinal Kanti Mandal, Hirok Chaudhuri</i>
		Adsorption Study of Chromium(VI) By Dried Biomass of Tea-Leaves (Paper ID – 53) <i>Sonali Hazra Das, Jhinuk Saha, Ananya Saha, Arun Kumar Rao, Bhaswati Chakraborty, Sudipta Dey</i>
		A Comparative Study on Cr(VI) Removal by Graphene Oxide(GO) and Functionalized Reduced Graphene Oxide(fRGO) (Paper ID – 14) <i>Spandan Ghosh, Soumya Kanta Ray, Chanchal Majumder</i>
		Removal of Dissolved Organic Carbon by functional Reduced Graphene Oxide from Organic-Rich Water Pre-treated by Electrocoagulation (Paper ID – 75) <i>Soumya Kanta Ray, Chanchal Majumder, Prosenjit Saha</i>
	17:30 – 18:45	Technical Session III - Industrial solid waste management Venue: Civil Engineering Seminar Hall
		Biotransformation of Sugarcane and Dairy Industries Sludge into Vermicompost using <i>Eiseniafoetida</i> (Paper ID – 98) <i>Dayanand Sharma, Bhavesh Patel, Chintak Kamalesh Parashar</i>

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		Numerical and Experimental Studies on Electrokinetic Extraction of Cr(VI) from Contaminated Kaolin (Paper ID – 85) <i>Rupa Chakraborty, Ambarish Ghosh, Asok Adak, Adanya Chatterjee</i>
		Remediation of Heavy Metal Contaminated Soils by Solidification/Stabilization with Fly Ash, Quick Lime and Blast Furnace Slag (Paper ID – 34) <i>R Raja, S Pal</i>
		Environmental concern elements in coal and coal combustion residues (Paper ID–11) <i>Debasree Saha, Tarit Roychowdhury</i>
		Kinetics of Reduction of Cr(VI) by D-glucose (Paper ID – 33) <i>Sutanu Maiti, Sudarsan Neogi, Binay K Dutta</i>
	17:30 – 18:45	Technical Session IV - Industrial effluent treatment, reuse and conservation Venue: B-IX-2S, Civil Engineering Department
		Effluent Management and Carbon Restoration Pattern in the East Kolkata Wetland (EKW) Area. (Paper ID – 86) <i>Swati Chakraborty, R. C. Srivastava</i>
		Determination of Rate and Order of Denitrification of Nitrified Effluent without Organic Carbon using Activated Sludge (Paper ID – 87) <i>Roumi Bhattacharya, Debabrata Mazumder</i>
		Aerobic Biodegradation of Lignosulfonate bearing Wastewater using Activated Sludge (Paper ID – 88) <i>Biswabandhu Chatterjee, Sanjit Mondal, Debabrata Mazumder</i>
		Kinetic study of biodegradation of resorcinol from waste water by indigenous mixed bacterial culture in presence of toxic heavy metals (Paper ID – 83) <i>Sonali Hazra Das, Ayimyaba R. Longkumer, Rayanee Chaudhuri, Sudipta Dey, Bhaswati Chakraborty</i>
		Biodegradation Study of Cellulose bearing Wastewater in Activated Sludge System (Paper ID – 89) <i>Sanjit Mondal, Biswabandhu Chatterjee, Debabrata Mazumder</i>
	19:00 – 20:00	Dinner
18/12/2018	09:30 – 11:00	Technical Session V - Industrial Effluent Treatment, Reuse and Conservation Venue: Civil Engineering Seminar Hall
		A Comparative Analysis of Treating Urban Wastewater using Bioremediation Methods in Kolkata, India (Paper ID – 68) <i>Susmita Mukherjee, Sonali Paul, Ranjana Das, Chiranjib Bhattacharya, Abhishek Dutta</i>
		Optimization of Degradation of 2,4-D Herbicide by UV-H ₂ O ₂ Process using Surface Response Methodology (Paper ID – 35) <i>Arijit Ghosh, Bijoli Mondal, Najmul Haque Barabhuiya, Asok Adak</i>
		Assessment of efficacy of clayey soil as liner material in retarding sub-surface leaching of chromium (Paper ID – 74) <i>Sumanta Rakshit, Supriya Pal, Soumya Bhattacharya</i>
		Optimization of Dye and COD Removal from Textile Waste Water using Microbial Treatment (Paper ID – 62) <i>Ayan Sinha, Barnali Mandal</i>
		Performance Study of Milk Processing Effluent Treatment in a Sequential Batch Reactor (SBR) (Paper ID – 61) <i>Dipankar Raha, Pradyut Kundu, Somnath Mukherjee</i>
		Magnesium doped Graphitic Carbon Nitride for effective removal of Fluoride ions (Paper ID – 57) <i>Dimitra Das, Kalyan Kumar Chattopadhyay, Somnath Mukherjee</i>

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	09:30 – 11:00	Technical Session VI - Water quality monitoring and treatment in industrial area Venue: B-IX-2S, Civil Engineering Department Mitigation of Methylene Blue from Wastewater by Adsorption/Photo degradation on TNT Surface (Paper ID-15) <i>Saismrutiranjana Mohanty , Sanjoy Kumar Maji</i> Kinetics and Mechanism of Hexavalent Chromium Removal from Aqueous Solution by Sweetmeat Waste (Paper ID – 90) <i>Md. Mirajul Islam, Asok Adak, Prabir K Paul , Yung-Tse Hung</i> As(V) Removal by Nano Materials: A Review (Paper ID – 81) <i>Spandan Ghosh, Soumya Kanta Ray, Chanchal Majumder</i> Efficacy Evaluation of Chromium (VI) Adsorption on Clay Soil Blended With Azadiracta Indica (Neem) And Moringa Oleifera (Drum Stick) Seed Shell (Paper ID – 45) <i>Chandrima Bhadra, Supriya Pal, Kalyan Adhikari</i> Characterization of Water Accommodated Fraction of Oily Sludge by GCxGC-TOFMS (Paper ID – 41) <i>Priyanka Chanda, Suryendu Dutta, Suparna Mukherji</i>
	11:30 – 13:00	Key note Lecture by Dr. Sachchida Nand Tripathi, Indian Institute of Technology, Kanpur
	13:00 – 14:00	Lunch Break
	14:00 – 15:30	Key note Lecture by Dr. Mukesh Sharma, Indian Institute of Technology Kanpur
	15:45 – 16:45	Business Talk by M/s. Thermo Fisher Scientific
	17:00 – 18:30	Technical Session VII - Industrial Effluent Treatment, Reuse and Conservation Venue: Civil Seminar Hall A Review on Urine a Source for Struvite Yielding: a nutrient recovery (Paper ID – 54) <i>Azhan Ahmad , Anirban Gupta</i> Comparative study of o-cresol biodegradation kinetics by mixed bacterial culture from different sites industrial waste treatment plant (Paper ID – 51) <i>Sonali Hazra Das, Rayanee Chaudhuri, Ayimyaba R. Longkumer, Bhaswati Chakraborty, Sudipta Dey</i> Modelling of adsorption process in industrial wastewater treatment–A Review (Paper ID – 47) <i>Rajat Chatterjee , Chanchal Majumder</i> Mathematical Modeling of Treatment of Oil and Grease Containing Wastewater by Biological Method- A Mini Review (Paper ID – 43) <i>P Sanghamitra, Supriyo Goswami, Debabrata Mazumder , Somnath Mukherjee</i> Removal of Phenol from its Aqueous Solution by Bacteria Immobilized Graphene Oxide Nanocomposite (Paper ID – 108) <i>Antara Ganguli, Papita Das, Siddhartha Datta</i>
	17:00 – 18:30	Technical Session VIII - Innovative Technologies in Industrial Waste Management (Venue: B-IX-2S, Civil Engineering Department) Utilization of Bio-adsorbents to Purify the Tannery Effluent (Paper ID – 95) <i>M. R. Shaibur, Ummay Habib, Shamsun Nahar Ritu Md. Arif Sharkar, Ratul Rabi Das</i> Tapered bubble column for removing methylene blue using industrial solid waste (Paper ID – 72) <i>Soham Kundu, Sandip K. Ghosh, Modhurima Misra, Amitava Bandyopadhyay</i> Fish Scale Waste: Potential Low-Cost Adsorbent for Fluoride Removal (Paper ID – 63) <i>Disha A. Khandare, Somnath Mukherjee</i> Assessment of Degree of Contamination due to Heavy Metals in the Industrial Regions around Durgapur (Paper ID – 60)

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		<i>Avishek Adhikary, Pravesh Nirman, Supriya Pal</i>
		Engineered Noise Control Strategy in Industrial Plant (Paper ID – 7) <i>Pradip Sankar Bhattacharyya</i>
	18:30 – 19:30	Cultural Programme
	19:30 – 20:30	Dinner
19/12/2018	09:30 – 11:00	Technical Session IX - Industrial effluent Treatment, Reuse and Conservation Venue: Civil Engineering Seminar Hall
		Adsorption of Chromium(III) from Aqueous Solution by use of Trimmings Produced from Leather Industry (Paper ID – 37) <i>Bedshruti Sen, Mahindra Kar Amit Baburao, A. Tamil Selvi</i>
		Treatment of Laundry Wastewater by UVC Based Advanced Oxidation Process – A Case Study (Paper ID – 30) <i>Deepjyoti Das, Najmul Haque Barbhuiya, Bijoli Mondal, Asok Adak</i>
		Application of Experimental Design Approach for Optimization of the Photo-chemical Degradation of Anionic Surfactant in Aqueous Solution (Paper ID – 29) <i>BijoliMondal, Deepjyoti Das, Asok Adak, Pallab Datta</i>
		Bio-Refractory Pollutant Removal Using Microbial Electrochemical Technologies: A Short Review (Paper ID – 36) <i>Indrasis Das, Sovik Das, Indrajit Chakraborty, Makarand M. Ghangrekar</i>
		Characteristics and Treatments of Dairy Industry Wastewater in a Suspended Growth Batch Reactor (Paper ID – 18) <i>Abhishek Das, Pradyut Kundub, Sunita Adhikari (Nee Pramanik)</i>
		Optimization Study of Moving Bed Hybrid Bio-reactor (MBHBR) System Treating Composite Chrome Tannery (Paper ID – 5) <i>Supriyo Goswami , Debabrata Mazumder</i>
	11:00 – 11:30	Business Talk by M/s. Swan Environmental Pvt. Ltd
	11:30 – 13:00	Technical Session X - Water Quality Monitoring and Treatment in Industrial Area Venue: Civil Engineering Seminar Hall
		Estimation of ferets diameter of activated carbon derived from agro waste for effluent treatment application (Paper ID – 97) <i>Abhijit Jadhav, Govindraj Mohanraj, Ashok Gokarn , Suseeladevi Mayadevi</i>
		Impact of Rubber Plantation on Water Quality of Small River in North East India: - A Case Study (Paper ID – 21) <i>Koushani Sarkar, Mrimoy Majumder</i>
		Antibiotics and Antibiotic Resistance in Wastewater: Causes and Remedies (Paper ID–28) <i>Najmul Haque Barbhuiya, Deepjyoti Das, Asok Adak</i>
		Zinc Oxide Nanoflower: Microwave Assisted Synthesis, Characterization and Application in Photocatalytic Degradation of a Reactive Textile dye (Paper ID – 32) <i>Poulomi Sarkar, Sudarsan Neogi</i>
		A Comparative Study on As(V) Removal by Graphene Oxide(GO) and Functionalized Reduced Graphene Oxide(fRGO) (Paper ID – 13) <i>Spandan Ghosh, Soumya Kanta Ray, Chanchal Majumder</i>
	11:30 – 13:00	Technical Session XI - Innovative technologies in Industrial Waste Management Venue: B-IX-2S, Civil Engineering Department
		Exploring different sources for Malachite Green decolorizing bacteria (Paper ID – 46) <i>Shreya Biswas, Piyali Basak, Amrita Jasu</i>

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		Biobleaching of Heavy Metals from Indian Steel Slag using <i>Acidithiobacillusferrooxidans</i> (Paper ID – 40) <i>Neha Garg, Suparna Mukherji</i>
		Performance Assessment of Amended Laterite Soil as Liner Material in Ash Pond Structures. (Paper ID – 22) <i>Shyamal Kumar Dutta Mazumdar, Avishek Adhikary, Supriya Pal</i>
		Removal of fluoride from synthetic waste water using isolated fungi from Indian Sundarban mangrove forest. (Paper ID – 31) <i>Dolanchapa Sikdar, Papita Das</i>
		Fabrication of Montmorillonite Impregnated Cellulose Acetate Nanofiber Membrane and its Use for Adsorption of Ciprofloxacin (Paper ID – 24) <i>Sushma Das, Asok Adak, Ananya Barui</i>
		Biodegradation of Cellulose Using <i>Aspergillus</i> sp. for extraction of fermentable sugars (Paper ID – 2) <i>Swagata Das, Shubhalakshmi Sengupta, Papita Das, Siddhartha Datta</i>
	13:00 – 14:00	Lunch Break
	14:00 – 15:30	Technical Session XII – Monitoring of industrial emission and control Venue: Civil Seminar Hall
		Reduction of traffic originated PM _{2.5} and noise in the roadside building –A review (Paper ID – 92) <i>Argha Kamal Guha, Sharad Gokhale</i>
		Reviewing recent developments of gas sensors using metal sulfides and their future prospects on ammonia gas sensing at room temperature (Paper ID – 58) <i>Bappaditya Chatterjee, Amitava Bandyopadhyay</i>
		NMVOC Mixing Ratio In Ambient Air of Effluent Treatment Plan of A Petroleum Refinery (Paper ID – 49) <i>D. Majumdar, M. Karthik, T.K. Nandy</i>
		MOS Sensor for Detection of Toxic and Hazardous Gases (Paper ID – 39) <i>Vinod Kumar</i>
		Assessment Of Ambient PM ₁₀ on The Basis of Characterization of Three Metals At Two Locations Within (Paper ID – 3) <i>Prasun Kumar Mondal.</i>
	15:30 – 16:30	Valedictory