

The 6th IWA Regional Membrane Technology Conference (IWA-RMTC 2018)
10-12, December, 2018
Vadodara, Gujarat, India

DAY 1 - Monday, 10 th December, 2018				
Time	Time Slot (min)	Agenda		Venue
8.00-9.30	90	Registration		CC Mehta Auditorium, The M. S. University of Baroda
9.30-10.30	60	Inaugural Ceremony		CC Mehta Auditorium, The M. S. University of Baroda
10.30-11.00	30	High Tea		
11.00-11.30	25+5	PL-1: Prof. Enrico Drioli , University of Calabria, Italy Title: <i>State of the art and perspectives of Integrated Membrane systems in the Water Industry</i>		CC Mehta Auditorium, The M. S. University of Baroda
11.40-12.10	25+5	PL-2: Prof. K. K. Sirkar , New Jersey Institute of Technology, USA Title: <i>Novel Membrane Processes, Membrane Materials and Membrane Devices</i>		CC Mehta Auditorium, The M. S. University of Baroda
12.20-12.50	25+5	PL-3: Prof. Ranil S. Wickramasinghe , University of Arkansas, USA Title: <i>Integrated electrocoagulation–forward osmosis and membrane distillation for treating hydraulic fracturing produced waters</i>		CC Mehta Auditorium, The M. S. University of Baroda
13.00-13.45	45	Lunch Break		
		Venue-1 (Main Hall)	Venue-2 (F1-Unit Building)	Venue-3 (F10-Unit Building)
13.50-14.15	20+5	IT-1: Dr. A. Volkov <i>Porous Condenser for Thermally driven membrane processes</i>	IT-2: Dr. Diganta Das <i>Fluid Flow and Mass Transport in Membrane based system</i>	IT-3: Prof. Gideon Oron <i>Nanotechnology for treatment and reuse of Grey Water</i>
14.15-14.40	20+5	IT-4: Dr. Ludovic Dumeénil <i>Nano/Microplastics removal by surface enhanced Plasma polymerized Ultrafiltration Membranes</i>	IT-5: Dr. Paramita Ray <i>Tailoring the Substrate and Rejection Layer of Thin Film Composite Nanofiltration Membranes: Achievement of High Flux and Rejection</i>	IT-6: Dr. Puyam Singh <i>Advanced Hollow fiber membranes for various separation processes</i>

14.40-15.05	20+5	IT-7: Dr. Seraj Ansari <i>Hollow fiber supported liquid membranes for Radioactive waste treatment</i>	IT-8: Dr. Swachha Majumdar <i>Porus Ceramic Membranes: Research commercialization prospects in India</i>	IT-9: Prof. Z. V. P. Murthy <i>Application of modified polymeric membranes for antifouling and enhanced performance</i>
15.05-15.20	10+5	OP-1: Dr. Peter M. Huck <i>Biofiltration as a 'Green' and Sustainable Pre- Treatment to reduce Membrane Fouling</i>	OP-2: Dr. Bhaskar Singh; <i>Iron Nanoparticles infused Polyethersulfone(FeNPs/PES) Membrane for Treating BTEX contaminated Water</i>	OP-3: Xianghua Wen <i>Influence of Temperature on the retention of micropollutants by nanofiltration</i>
15.20-15.35	10+5	OP-4: CABASSUD Corinne <i>Towards an Efficient Solar-Heated Vacuum Membrane Distillation Module</i>	OP-5: Dr. Peter Berg; <i>Multi- Reuse Research Project- Recycled Waste Water for the Industry</i>	OP-6: Suraj Pillai; CERAMOPUR at the Commonwealth Games Village - Delhi, India
15.35-15.50	15	Tea Break		
15.50-16.03	8+5	OP/s-1: Somdipta Bagchi; <i>Performance evaluation of microbial fuel cells employing ceramic separator of different surface area modified with mineral cation exchanger</i>	OP/s-2: Revathy Rajakumaran; <i>Surface Modified Nano-Filtration Membrane with Titanium nanotubes for Rejection and Adsorption of Pharmaceutical Compounds</i>	OP/s-3: Apurva Sinha; <i>Pilot scale study- ion selective nano filtration membrane for desalination of chloride rich steel industry effluent</i>
16.03-16.16	8+5	OP/s-4: Yifan Wang; <i>Adsorptive fouling caused by three different kinds of polysaccharides on PVDF and graphene oxide modified PVDF membranes</i>	OP/s-5: Guo Yu; <i>Identification and control methods of key pollutants during the nanofiltration membrane fouling process in drinking water treatment</i>	OP/s-6: Welldone; <i>Fundamental fouling mechanisms of DOM fractions and their implications on the surface modifications of ceramic nanofiltration membranes</i>
16.16-16.29	8+5	OP/s-7: Riho Mashiko; <i>Evaluation performance of an anaerobic membrane bioreactor treating sewage sludge</i>	OP/s-8: Richa Modi <i>A review on techniques for the reduction of RO membrane fouling for Dye Waste Water</i>	OP/s-9: Kang Xiao; <i>Fluorescence excitation-emission matrix (EEM) as a potential tool to identify hydrophobic/hydrophilic contents of organic matter in membrane bioreactors</i>

16.30-16.43	8+5	OP/s-10: Jyoti Prakash Ambre; <i>Graphene oxide blended Ultrafiltration membrane for ultrasound assisted vacuum driven graphene oxide concentration</i>	OP/s-11: Shujuan Huang; <i>Treatment performance and process simulation of membrane bioreactor (MBR) treating petrochemical wastewater</i>	OP/s-12: Suman Das; <i>Investigation of unary, binary and ternary mixtures of photocatalysts in immobilized form for treatment of dye wastewaters</i>
16.45-16.58	8+5	OP/s -13: Priyamjeet Deka; <i>Performances of reduced graphene oxide membranes for water desalination in reverse osmosis</i>	OP/s -14: Santanu Karan; <i>Ultrathin polyamide nanofilm composite membranes for nanofiltration applications</i>	OP/s -15: Sanjay Remanan; <i>A unique porous membrane derived from the technologically compatible poly(ethylene-co-methyl acrylate)/poly(vinylidene fluoride) biphasic blend and surface modification for water remediation</i>
17.00-18.00	60	Poster Session: PP 01 – 30		
18:30-20:00	90	Cultural Programme		CC Mehta Auditorium, The M. S. University of Baroda
20:00 onwards		Conference Dinner		CC Mehta Auditorium, The M. S. University of Baroda
DAY 2 - Tuesday, 11th December, 2018				
Time	Time Slot (min)	Agenda		Venue
8:30-9:30	60	Conference Breakfast		
9.30-10.00	25+5	PL-4: Prof. In S. Kim , Gwangju Institute of Science & Technology, Korea. Title: <i>Combination of Wastewater Reuse and Seawater Desalination: Commercial Potential from Pilot Operation of Pressure-Assisted Forward Osmosis (PAFO) Followed by Reverse Osmosis (RO) Hybrid Process</i>		Deep Auditorium, The M. S. University of Baroda
10.05-10.35	25+5	PL-5: Prof. Mathias Ulbricht , Universitat Duisburg- Essen , Germany. Title: <i>Advanced polymer-based separation membranes with tailored barrier and surface properties</i>		Deep Auditorium, The M. S. University of Baroda
10.40-11.10	25+5	PL-6: Prof. Satyajit Mayor , National Centre for Biological Science & Engineering, Bengaluru, India. Title: <i>Life at the Cell's edge: the plasma membrane as a functional active actin-membrane composite</i>		Deep Auditorium, The M. S. University of Baroda

11:10-11.30	15+5	Shri. B. C. Patel Chairman, Nandesari Industries Association		Deep Auditorium, The M. S. University of Baroda
11.30-12:00	30	Tea Break		
		Venue-1 (Main Hall)	Venue-2 (Room-1)	Venue-3 (Room-2)
12:00-12:25	20+5	IT-10: Dr. Sibdas Bandopadhyay; <i>A generic technology for remediation of toxic contaminants in drinking water and wastewater</i>	IT-11: Prof. Arun Isloor <i>Tailormade polymers and nanoparticles for the membrane applications</i>	IT-12: Dr. Malini Balakrishnan; <i>Membrane applications for environmental protection in Indian industries - experiences and opportunities</i>
12:25-12:50	20+5	IT-13: Prof. Pierre Le- Clech; <i>Tools for improving use of membrane technology in the water industry</i>	IT-14: Dr. S. Sridhar; <i>Innovative Membrane Technology for Sustainable Development of Indian Industry, Society and Academia</i>	IT-15: Dr. Soumitra Kar <i>Novel Membrane Materials & Processes for High-Impact Separation Applications</i>
12:50-13:05	10+5	OP-7: Dr. R. Anbarasan; <i>Synthesis and characterization of Zwitter ionic Polysulfone and Polyimide membrane</i>	OP-8: Dr. Subhankar Basu; <i>Polymer Coated Ceramic Membranes for Sewage Treatment</i>	OP-9: Sachin V Upadhye; <i>Kynar for Water Filtration</i>
13.05-13.45	40	Lunch Break		
13.45-14.10	20+5	IT-16 : Dr. Suresh Jewrajka; <i>Polyamide thin film composite nanofiltration membranes with modulated charge and performance</i>	IT-17: Dr. V. K. Shahi <i>Electro-membrane processes for water purification and energy generation</i>	IT-18: Prof. Zhiwei Wang; <i>Refractory contaminant removal from waters using Low-pressure Electrochemical Membrane Filtration Systems</i>
14.10-14.25	10+5	OP-10: Dr. Christoph Thiemig; <i>Membrane Technology helps Textile manufacturers reuse wastewater and achieve ZLD</i>	OP-11: Dr. Ganesh C. Sahoo; <i>Ceramic membrane-based removal of fluoride from contaminated water</i>	OP-12: Dr. Ankita Bose; <i>CO₂ separation by modified zeolite membrane</i>
14.25-14.40	10+5	OP-13: Dr. Noel Jacob Kaleekkal; <i>Novel Proton exchange membrane prepared by incorporation of modified Mesoporous Carbon/SPEEK nanocomposite into PVDF matrix</i>	OP-14: Dr. Shruti Mishra; <i>Dual-functional polyvinylidene fluoride nanofiltration membrane blended with functionalized nanomaterials for simultaneous removal of Cr(VI) and Cd(II) from aqueous solution</i>	OP-15: Dr. Patricia Luis; <i>Recovery of valuable salts from wastewater using membrane distillation-crystallization</i>

14.40-15.53	8+5	OP/s-16: Piyush S. Lalwani; <i>Studies on Treatment of Human Urine an essential source of nutrients to enhance fertilizer efficiency using Membrane</i>	OP/s-17: Vandana Gupta; <i>Cellulose Acetate-Flyash Composite Membrane: Synthesis, Characterization and Application</i>	OP/s-18: Mohit Chaudhary; <i>Adsorptive removal of fluoride from drinking water using Fe-Al-Mn@chitosan composite loaded membrane</i>
15.53-15.06	8+5	OP/s-19: T. Nagamani; <i>Synthesis and characterisation of novel ultrafiltration and ion exchange membranes to aid production of alkaline water by electrolyzers</i>	OP/s-20: Shailesh K. Pandey; <i>Photo-catalytic degradation of Ciprofloxacin in pharmaceutical waste water</i>	OP/s-21: Dhruvi M. Rakte; <i>Comparison of Thin Film Nano-Composite Membrane by Changing Phase of Dispersion of Graphene Oxide</i>
15.06-15.19	8+5	OP/s-22: Priyanka Y. Mistry; <i>Synthesis and characterization of polyphenylene oxide incorporated carbon nanotube based membranes</i>	OP/s-23: Mohil Dhulia; <i>Performance assessment of drinking water treatment systems: A comparative account of two different membrane material/configurations based and field scale RO plants</i>	OP/s-24: Nirenkumar B. Pathak; <i>Assessing the effect of different draw solutes in a baffled osmotic membrane bioreactor (OMBR) and fouling characterization employing optical coherence tomography (OCT) with real sewage</i>
15.19-15.32	8+5	OP/s -25: Arindam Kumar Das; <i>Cation Exchange Membrane with Low Frictional Coefficient and High Limiting Current Density for Energy Efficient Water Desalination</i>	OP/s -26: Satya Pal Verma; <i>Simultaneous removal of Cd⁺² and organic dye from wastewater using rhamnolipid biosurfactant</i>	OP/s -27: Madhumala M; <i>Vacuum Membrane Distillation: An Integrated Approach for Water Desalination</i>
15.32-15.45	8+5	OP/s -28: Komal Sharma; <i>Removal of Urea from Effluent Water by Noncyclic receptors using Bulk Liquid Membrane System</i>	OP/s -29: Boddu Vinisha; <i>GO-ZnO Modified Polyamide Reverse Osmosis Membrane with Improved Desalination Performance</i>	OP/s -30: Shu Wang; <i>Characterization of reverse osmosis membrane fouling by coal chemical industry wastewater: Identifying the roles of organic and inorganic foulants</i>
15.50-16.05	15	Tea Break		
16.05-16.18	8+5	OP/s -31: Ruijun Zhang; <i>Fabrication and characterization of a novel polyesteramide thin film composite nanofiltration membrane via catalyzed interfacial polymerization</i>	OP/s -32: Rumaiya Pervin; <i>Engineering Pore Morphology in the Polymer Films Fabricated via Evaporation Induced Phase Separation Technique</i>	OP/s -33: Yangying Zhao; <i>Effects of organic fouling and cleaning on the retention of pharmaceutically active compounds by ceramic nanofiltration membranes</i>

16.18-16.31	8+5	OP/s -34: Swathy Jakka Ravindran; <i>Early Detection of Biofouling on Water Purification Membranes by Ambient Ionization Mass Spectrometry Imaging</i>	OP/s -35: Hongsen Hui; <i>A three-stage fixed-bed electrochemical reactor for biologically treated landfill leachate treatment</i>	OP/s -36: Ruobin Dai; <i>Metal Organic Framework CuBDC Nanosheet Incorporated Thin Film Nanocomposite Membrane for High Performance Forward Osmosis</i>
16:31-16:44	8+5	OP/s -37: Nguyen Thanh Tin; <i>Critical Flux-Based Membrane Fouling Control of Forward Osmosis: Behavior, Sustainability, and Reversibility</i>	OP/s -38: Priyanka Kumari; <i>Fabrication of modified Titania thin film on porous stainless steel substrates to develop Photocatalytic Membrane reactor for treatment of agricultural effluents contaminated with pesticides</i>	
16:45-17:00	10+5	OP-16: Dr. Amit Kundu; <i>An enhanced perceptives of groundwater treatment system: Treatment options, characteristics and management</i>	OP-17: Dr. G. Muthuraman; <i>Supported liquid membrane used for removal and recovery of low salt dyes from textile effluent</i>	OP-18: Dr. Mausumi Mukhopadhyay; <i>Self cleaning cerium oxide-TFN NF membrane for water treatment</i>
17:00-17:15	10+5	OP-19: Dr. Arun Kumar; <i>Assessment of Arsenic Mitigation and Management in Bihar</i>	OP-20: Dr. Hemendra Pancholi <i>Use of SNI in Sewage Treatment</i>	OP-21: Dr. A. Nagendran; <i>Preparation and characterizations of PEI/CuO-g-PHMB ultrafiltration membranes with high antifouling and antibio-fouling properties</i>
17:15-18: 15	60	Poster Session: PP 31-60		
19:00-20:00	60	Shri Satyapal Mayor Memorial Lecture to be delivered by Prof. Munir Cheryan		Laxmi Vilas Palace (LVP), Baroda
20:00 Onwards		Banquet Dinner		Laxmi Vilas Palace (LVP), Baroda
DAY 3 - Wednesday, 12th December, 2018				
Time	Time Slot (min)	Agenda		Venue
8:30-9:30	60	Conference Breakfast		

9.30-10.00	25+5	PL-7: Prof. Xia Huang , Department of Environmental Sciences & Engineering, Tsinghua University, China Title: <i>Current state and future challenges of full-scale membrane bioreactor applications</i>			Deep Auditorium, The M. S. University of Baroda
10.10-10.40	25+5	PL-8: Prof. Ho kyong Shon , University of Technology Sydney, Australia Title: <i>Forward osmosis and pressure retarded osmosis: where we are?</i>			Deep Auditorium, The M. S. University of Baroda
10.45-11.15	25+5	PL-9: Dr. B. Chakravorty , President, Indian Membrane Society, Title: <i>Importance of membranes in achieving zero liquid discharge in industries</i>			Deep Auditorium, The M. S. University of Baroda
11:20-11.50	25+5	PL-10: Dr. R. V. Jasra , Senior Vice President, Reliance Industries Ltd, Vadodara Title: <i>Separations challenges in the hydrocarbon industry</i>			Deep Auditorium, The M. S. University of Baroda
11.50-12.05	15	Tea Break			
		Venue-1 (Main Hall)	Venue-2 (Room-1)	Venue-3 (Room-3)	
12.05-12.30	20+5	IT-19: Prof. G. P. Agarwal; <i>Biorefinery: A Membrane based Approach</i>	IT-20: Prof. Joao Crespo; <i>Removal of arsenic from drinking water supplies using the concept of Ion-Exchange Membrane Reactor</i>	IT-21: Dr. Mikel Duke, <i>Recovering value from wastewater using novel membrane materials and processes</i>	
12.30-12.55	20+5	IT-22: Prof. C. N. Murthy; <i>Porous structure studies of mixed-matrix membranes and their evaluation for water and waste-water treatment</i>	IT-23: Dr. Zhaoliang Cui; <i>Design and Industrialization of PVDF Membranes with High Anti-fouling Property</i>	IT-24: Prof. Jayesh Bellare; <i>3D multiscale matrices with hollow fiber membranes having increased HepG2 functional maintenance for bio-artificial liver application</i>	
12.55-13.35	40	Lunch Break			
13.35-14.00	20+5	IT-25: Mr. Ajay Popat <i>Advances in Membrane Technologies</i>	IT-26: Prof. V. S. Patel; <i>Safe Water for Everyone : Membrane Bioreactor Technology (MBR)</i>	IT-27: Dr. N. V. Chaudhary	
14:00-14:25	20+5	IT-28: Prof. TorOve Leiknes; <i>Biofouling in SWRO systems – exploring the biofilm community through metagenomic analysis</i>	IT-29: Prof. D. Mohan	IT-30: Prof. S. V. Satyanarayana <i>Membrane Separation Processes for Sustainable Environment</i>	

14:25-14:40	10+5	OP-22: Zhong Yu; <i>Two-dimensional FTIR spectroscopic characterization of functional groups of NaOCl-exposed alginate: Insights into membrane fouling</i>	OP-23: Manoj Chandra Garg; <i>Performance Evaluation of Forward- Osmosis Process: Effect of Temperature</i>	OP-24: Dr. Vanessa Pereira; <i>Sustainable development of photocatalytic membranes for water and wastewater treatment applications</i>
14:40-14: 55	10+5	OP-25: Raquel G. Pacheco; <i>Gravity driven systems using recycled membranes for drinking water application: a preliminary study</i>	OP-26: Swatantra Pratap Singh; <i>Laser-induced graphene polysulfone membrane filters and electrodes: anti-biofouling and anti-microbial properties</i>	
15:00-15:13	8+5	OP/s-39: Arjun Rastogi; <i>Biorefinery: A Membrane Based Approach</i>	OP/s-40: Gourav Mishra; <i>Improved performance of halloysite nanotubes mixed matrix poly(vinyl chloride) ultrafiltration membrane for humic acid separation</i>	OP/s-41: Anirban Roy; <i>Molecular interaction and Thermodynamics of Pore Formation Mechanism in Membranes</i>
15:30-15:50	20	Tea Break		
16:00-18:00	120	Technical Tour		
18:05-19:00		Award function & Closing Ceremony		
DAY 4 - Thursday, December 13, 2018				
Time	Time Slot (min)	Agenda		Venue
8:30-9:30	60	Conference Breakfast		Deep Auditorium, The M. S. University of Baroda
9.30-12.30	180	Conference Workshop to be conducted by Prof. Joao Crespo , NOVA University of Lisbon, Portugal; <i>Novel frontiers in sustainable treatment of antineoplastic compounds present in domestic and hospital wastewaters</i>		Deep Auditorium, The M. S. University of Baroda
12:30		Lunch		Deep Auditorium, The M. S. University of Baroda