

**4th Asia Pacific - International
Society of Microbial Electrochemistry and Technology
(AP-ISMET)
Meeting**

**Bioelectrochemical and electrochemical approaches
for decentralized sanitation**

13 -16 November 2018

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Birla Institute of Technology & Science - Pilani,
K K Birla Goa campus, Goa, India

Organized by



BITS Pilani
K K Birla Goa Campus

Programme Agenda

	13th November 2018
	Conference opening
15.00	Registration
16.00	Inauguration
16.30	Keynote Presentation: Willy Verstraete
17.30	HIGH TEA
	14th November 2018
	<i>A morning of microbiology</i>
9.00	Keynote - Sarah Glaven : The role of microbial communities in bioelectrochemical systems for energy generation and storage
9.45	Session start - Local Representative
10.15	Dario Rangel Shaw : Electro-anammox: Electrode-dependent anaerobic oxidation of ammonium by anammox bacteria
10.35	Abdullah Al-Mamun : Treatment of landfill leachate by single chamber air-cathode microbial fuel cell
10.55	Krishna kathuri : Electrochemical behaviour of <i>Desulfuromonas acetexigens</i> biofilm grown under set anode potential
11.15	BREAK
11.30	Korneel Rabaey : Electroactive biofilms – the more control, the more questions
12.00	Ambika Arkatkar : Initial Bioelectrochemical Behaviour of Microbial Fuel Cell with Biocatalytic Co-Culture Inoculum
12.20	Abdul Qadir : Transducing light to current: Cyanobacteria as anodic biocatalyst in biofuel cell setup
12.40	Sharda Nara : Salivary Enzymes for Rapid Electricity Generation in Microbial Fuel Cell.
	<i>Technology / Components</i>
13.00	LUNCH
14.00	Session start- Makarand Gangrekar : Bioelectrochemical system with modified cement cation exchange membrane for kitchen wastewater treatment and electricity generation
14.30	MD Tabish Noori : Green synthesis of Co_3O_4 to be used as oxygen reduction reaction catalyst in microbial fuel cell
14.50	Priya Sharma : Srtuvite formation from microbial fuel cell
15.10	Reeshab Goenka : Determination of the platinum equivalence of <i>Escherichia coli</i> MTCC 1610 in a single chamber microbial fuel cell
15.30	BREAK
15.45	Anna Prokhorova : Bioelectrochemical denitrification at biocathodes using swine wastewater
16.05	Asheesh Kumar Yadav : Constructed wetlands coupled with microbial fuel cells for decentralized wastewater treatment
16.30	Gourav Dhar Bhowmick : Pilot-scale submerged ultrafiltration membrane bio-fuel cell with transverse and magnetically induced vibration techniques to mitigate biofouling with enhanced power production
16.50	Sarah Glaven and Korneel Rabaey : Terminology and data representation
17.35	Closing for the day
19.30	Gala Dinner

15th November 2018	
<i>Sanitation</i>	
9.00	Keynote - S Venkata Mohan: Microbial Electrochemical Technology: Multi-facet Applications
9.45	Session start- Guru: Sanitation of blackwater via sequential wetland and electrochemical treatment
10.15	Milan Basil: Multi-user Reinvent-the-toilet system using electrochemical disinfection of biologically treated waste.
10.35	Inka Vanwongerghem: Empowered Septic Tanks – Vertical flow constructed wetlands combined with electrochemical disinfection to treat septic tank effluent and provide safe water for reuse
10.55	Dipak Ashok Jadhav: 100 L and 1.5 m ³ capacity advanced bioelectric toilet: Performance evaluation of field scale microbial fuel cell
<i>Processes</i>	
11.15	BREAK
11.30	Rahul kandpal: Development of Miniaturized Microbial Fuel Cell for Electricity Generation from Kitchen Waste and Mathematical Modelling
12.00	Jarina Joshi : Enhancement in bio-ethanol production in bioelectrochemical cell using <i>Saccharomyces cerevisiae</i> and <i>Wickerhamomyces anomalus</i>
12.20	Praveen Rosario: Characterization of fecal sludge as biomass feedstock in a town in Tamil Nadu.
12.40	Afnan Al-Mutairi: Electricity production and treatment of seafood processing industrial wastewater using air-cathode Microbial Fuel Cell (MFC) with halotolerant consortium
<i>Processes</i>	
13.00	LUNCH
14.00	Session start- Lee tae ho: Effect of the ratio of electrode size to anodic volume and HRT on simultaneous COD and nitrogen removal in single-chamber microbial fuel cell
14.30	Priyakant Pushkar: In-situ electrochemical diffusion analysis of Benthic Microbial Fuel Cell
14.50	Diwakar Singh : Solar powered microbial electrolysis cell for the removal of hexavalent chromium
15.10	Naoko Yoshida: On-site evaluation of electricity recovery from sewage wastewater by tuber microbial fuel cells
15.30	BREAK
15.45	Poster Session
16.45	Closing session
16th November 2018	
10.00	Technical Tour
12.00	Lunch
13.00	Field Trip followed by Beach Tour