

Main Room

8:30-9:10 Plenary: Microbial electrochemistry for bioremediation: the game changer

Korneel Rabaey

Chair: *Sebastià Puig*

9:15-10:35 Parallel Session 15: Bioremediation, water treatment and resource recovery from waste

Chair: *Uwe Schröder*

Desalination of Brackish Water Using a Microbial Desalination Cell: analysis of the electrochemical behaviour.

Marina Ramirez

Electrobioremediation by METland® solution differentiates among enantiomers in mixtures of pharmaceuticals and herbicides.

Álvaro Pun García

Development of a four-chamber microbial desalination cell for simultaneous treatment of Cr (VI) containing wastewater and by-products recovery.

MD Tabish Noori

Electrobioremediation of Pharma pollutants is boosted in a Microbial Electrochemical Fluidized Bed Reactor.

Yeray Asensio

Bioelectrochemical dechlorination of 1,2-dichloropropane by a Dehalogenimonas-enriched culture. David Juan Fernández Verdejo

10:30-10:45 Coffee Break

10:45-12.20 Parallel Session 17: Bioremediation, water treatment and resource recovery from waste

Chair: *Pascal Saikaly*

Groundwater denitrification by expanded bioelectrochemical systems. *Xiaofei Wang*

Combined electrochemical water softening and nitrate electro bioremediation. *Alba Ceballos-Escalera*

Electro-bioremediation of nitrate from saline groundwater and concomitant chlorine production. *Giulia Puggioni*

Soil Microbial Fuel Cell for Bioremediation of Recalcitrant Hydrocarbons. Arpita Nandy

Simultaneous removal of oxidable and reducible contaminants from groundwater with the "bioelectric well". *Matteo Tucci*

Power Generation from Constructed Wetland Microbial Fuel Cells under Batch and Continuous Flow. *María G. Salinas-Juárez*

12:20-13:00 Round Table on "electro-bioremediation"

Chair: *Korneel Rabaey*

13:00-14:00 Lunch

Wednesday,
15th
September 2021

Main Room

14:00-14:40 Eu-ISMET goes to high schools

Maria Teresa Bosch Vilardell, Narcís Pous and Miquel Àngel Ruiz

Chair: *Belén Barroeta*

14:45-16:00 Parallel Session 19: Materials science and design

Chair: *Falk Harnisch*

Magnetite anodes to inhibit oxygen production and to circumvent the use of membranes in microbial electrosynthesis.

Nils Rohbohm

Procedure for the screening of anode materials for microbial electrolysis cells operated with brewery wastewater.

Isaac Vázquez

Promising affordable separators for microbial electrolysis cells.

Oscar Santiago

Towards improving the performance of microbial fuel cells: Evaluation of inoculation strategies and anode materials.

Zainab Ul Kausar

Metal-free activated biochar as an oxygen reduction reaction catalyst in single chamber microbial fuel cells.

Tommy Pepè Sciarria

16:00-16:10 Coffee Break

16:10 - 17:30 Parallel Session 21: Materials science and design

Chair: *Eduard Borrás*

Capacitive bioanodes in fixed and moving bed reactors.

Tom Sleutels

Graphene functionalization with metallic Pt nanoparticles: envisaging future cathodes for bioelectrochemical H₂ production.

Pilar Sánchez Peña

Development and upscaling of gas diffusion electrodes for wastewater treatment and electrosynthesis of chemicals.

Deepak Pant

Estructures superficiales com les d'Antoni Gaudi: Platinized titanium as cost-effective anode material for Kolbe electrolysis.

Katharina Neubert

17:35 - 18:00 Closing ceremony

Note: The time zone is UTC+2.

Wednesday,
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Room 2

14:45-16:00 Parallel Session 20: Materials science and design

Chair: *Dessi, Paolo*

Magnetic resonance imaging as a tool for the analysis and optimization of electroactive biofilms inside porous electrode structures. *Luca Häuser*

Development and application of conductive nanomaterials for bioelectrochemical denitrification. *Magda Nechanická*

Influence of different photocatalytic dopants in the antifouling performance of Nanofiltration Microbial fuel cells. *Raul Bahamonde Soria*

The role of bioanode-membrane interlayer in tubular Ceramic Microbial Fuel Cells (CMFCs). *Jesús Rodríguez*

Power to Gas: newsworthy connection between electricity production trend, biochar electrodes and polarizations. *Andrea Goglio*

16:10-17:30 Parallel Session 22: General session

Chair: *Ola Gomaa*

The applicability of the Maximum Power-point of Microbial Fuel Cells: Influence of Potential Scan rate and real-time external Load. *Meshack Imologie Simeon*

Electrochemical characterization of the anodic biofilm activity in a methane-producing microbial electrolysis cell. *Marianna Villano*

The effect of the cathode current collector on the performance of a yeast-based air cathode microbial fuel cell. *Joana Vilas Boas*

Copla electroquímica: How sound is Electrochemical Impedance Spectroscopy on biofilm electrodes?. *Jörg Kretzschmar*

16:00-16:10 Coffee Break

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