

Call for Papers

MEEP²⁰²⁵

Microbial/Enzymatic Electrochemistry Platform

Microbial, Enzymatic & Bio-Photovoltaic Electrochemical Reactors

Fuel Cells & Electrolyser Systems

6th International

MEEP Symposium

2 – 4 July 2025, Lucerne Switzerland

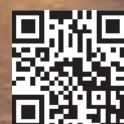
Symposium Chairs **Prof. Johannes Gescher**
Technical University of Hamburg,
Germany

Dr. Catarina M. Paquete
NOVA University Lisbon, Portugal

FEATURING Bio-electrochemical Systems:

- Biocatalysts & Reaction Cascades
- New Materials, Biohybrids & Surfaces
- Reactor Engineering
- Scale-up, Applications, Sustainability & Economics

Organised by:
EFCF – European Electrolyser & Fuel Cell Forum  www.I-MEEP.com



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MEEP 2025

Microbial/Enzymatic Electrochemistry Platform

Lucerne, Switzerland 2 - 4 July

6th Symposium

Microbial, Enzymatic & Bio-Photovoltaic Electrochemical Reactors

Bio-Electrochemical Systems
Fuel Cells & Electrolysers

Chaired by:

Prof. Johannes Gescher Technical University of Hamburg, Germany

Dr. Catarina M. Paquete NOVA University Lisbon, Portugal

Featuring:

- Biocatalysts & Reaction Cascades
- New Materials, Biohybrids & Surfaces
- Reactor Engineering
- Scale-up, Applications, Sustainability & Economics



Scope of the Symposium

www.i-meep.com/Scope

The aim of the 6th International MEEP Symposium is to bring together key knowledge on biocatalysts & reaction cascades, new materials, biohybrids & surfaces in the field of bio-electrochemistry. To show the applicability of bio-electrochemical systems e.g. in the production of valuable chemicals, upcycling or detoxification of (biomass) waste streams and the development of novel sensors, another focus will be on reactor technology and scale-up as well as sustainability and economics of applications.

We welcome oral & poster contributions that describe applications, (electrode-) materials and reactors on different technology readiness levels, with the objective of paving the way for new international research collaborations, and boosting the momentum of applied bio-electrochemical research. Hence, we welcome researchers in the fields of natural sciences and engineering, but also specialists on economic feasibility and life cycle assessment, offering the opportunity to come together and share insights into these emerging and continuously expanding fields of technology.

A Scientific Advisory Board www.i-MEEP.com/SAB has been formed to evaluate & structure the technical program. This panel exercises full scientific independence in all technical matters. All submitted extended abstracts will be made available to only registered participants for optimal understanding of the oral and poster presentations. If the authors wish, all their extended abstracts will be published with their own DOI in www.i-MEEP.com/Library. In addition, further scientific publication options are offered (see publication policy).

The MEEP 2025 symposium will take place again as a physical and virtual event (hybrid), offering participants from all continents, the opportunity to contribute and participate. However, being present in Lucerne in person is an unbeatable win-win situation for all. Therefore, it makes sense that only physically present participants will have the coveted opportunity to present orally.

Technical Program

www.i-MEEP.com/Conference

The multi-day technical symposium will feature lectures of invited and contributed papers and posters. Care will be taken by the Scientific Advisory Board (SAB) to ensure that all presentations are of consistent high quality, yet understandable for participants with various backgrounds and expertise.

1. Biocatalysts & Reaction Cascades

- 1.1 Genetic/metabolic engineering of microbes
- 1.2 Steered & tailored interaction of enzymes & organisms with electrode surfaces
- 1.3 Characterisation and optimization of biofilms for BES
- 1.4 Integration of (bio-)electrochemical reactions in multistep process cascades

2. New Materials, Biohybrids & Surfaces

- 2.1 Advanced anode & cathode materials
- 2.2 Electrode surfaces & surface catalysis
- 2.3 Membranes – electrode assemblies

3. Reactor Engineering

- 3.1 Reactor architecture & geometries
- 3.2 Engineering studies
- 3.3 Resilience & stability of reactor systems

4. Scale-up, Application, Sustainability & Economics

- 4.1 Scalability, applications & real-life installation
- 4.2 Life cycle assessment & economic boundary conditions
- 4.3 Social perception/acceptability studies of BES
- 4.4 Others

Publication Policy

www.i-MEEP.com/PP

All **extended abstract**, will be offered **publication with a DOI** in the **EFCF community** of the general-purpose **open-access repository** www.Zenodo.org. Since 2019 a limited number of contributions will be invited to be included in a **Special Issue** of the peer-reviewed Journal "Fuel Cells – From Fundamentals to Systems" published by Wiley-VCH, involved in e.g.: **EFCF 2019** – Volume 20, Issue 4, pg 383-514 (see www.EFCF.com/SI). Authors who wish to **publish "elsewhere"** may opt out, and thus retain all copyrights.

Furthermore, the programme and event details are distributed in the **Final Announcement** by email, and on www.i-MEEP.com/FA. The extended abstracts are made accessible for the registered participants as **individual files** in the non-public electronic **Proceedings of the Conference (PoC)** in the MEEP MemberZone for an optimal understanding of the presentations before, during and also after the conference. Only where the authors have expressly agreed their extended abstract becomes part of the file list that serves as the public **Proceedings of the MEEP event Year (PEY)**. This and all other event info are "open access" on www.i-MEEP.com/Proceedings or .../Library.

Abstract Submission

www.i-MEEP.com/AuthorCenter

Members of academic institutions, R&D organizations, engineering firms, start-ups and industry are invited to submit contributions for oral or poster presentation at the MEEP 2025 Symposium. Submission will take place via the Author Centre.

The submission procedure and conditions are:

1. Download from www.i-MEEP.com/Download Abstract Template, Instructions & Samples
2. Upload your **one-page abstracts** at www.i-MEEP.com/Upload by **13 January 2025** (late abstracts cannot be considered for oral presentation).
3. Receive notification about acceptance in March 2025. This requires you to submit an **extended abstract/paper by 12 May 2025** and to register^{4*}. These are **mandatory** conditions for publication with DOI or in the Special Issue. Shorter versions are allowed for contributions never to be published.

^{4*} Presenting authors are required to **register** for the symposium and to pay the appropriate registration fee. Presenters who are not registered for the conference **by 31 May** lose their presentation slot. **No-shows** without timely cancellation will be **penalized**. EFCF-MEEP cannot provide direct financial support to attendees, but consult the list of fees below for **early registration privileges, rebates & support options**.

For Frequently Asked Questions please visit www.i-MEEP.com/FAQ or email info@i-MEEP.com.

Venue, Access & joint EFCF event

www.i-MEEP.com/Lucerne

MEEP events are traditionally held at the Culture and Convention Centre Lucerne (KKL) in conjunction with the European Electrolyser and Fuel Cell Forum www.EFCF.com. EFCF 2025 will be concerned with: Low-temperature hydrogen & direct liquid fuel cells, water electrolysis, materials & technologies for CO₂ reduction; Electrochemical engineering & system integration; H₂ Carriers, e-fuels & infrastructure. EFCF offers also a technology & supplier exhibition as well as the popular tutorials: FC&H₂ & EIS (each 0.5 ECTS credits). The KKL conference centre (www.i-MEEP.com/KKL) is a well-known location, on the stunning waterfront of the Lake Lucerne. It is easy to arrive by plane and train, and is located just a short walk from charming hotels and the historical town centre.

Time Schedule & Events

www.i-MEEP.com/Schedule

13 January 2025	Deadline for submission of abstracts via website – www.i-MEEP.com/Upload
March 2025	Notification about acceptance in the MEEP program
Middle of April 2025	Final Announcement with definitive oral program , poster and sponsor list www.i-MEEP.com/FA
12 May 2025	Deadline for submission of paper – www.i-MEEP.com/Upload
1 July 2025 10:00 – 17:00	Project meetings & Tutorials: 1. FCH: Fuel Cell, Electrolyser & Hydrogen (0.5 ECTS credits, Level: kick-start) 2. EIS: Electrochemical Impedance Spectroscopy (0.5 ECTS credits, Level: advanced)
Early arrivals	are invited to visit the EFCF exhibition starting at 16:00 and attend the EFCF Welcome Reception at 18:00.
.2 July 2025 09:00 – 18:00	EFCF 2025 starts with Keynotes, Country Overviews and Industry status and technical presentations see www.EFCF.com . Opportunity to buy a reduced day ticket and to visit for free the EFCF exhibition and poster session.
from 17:00	Meet MEEP stakeholders, 18.00 MEEP Welcome Reception , 19.30 optional Swiss Surprise Night or own dinner
MEEP symposium 2025	
3 July 2025 09:00 – 18:00	Welcome, Keynotes, Invited & Contributed Presentations in Oral and Poster Sessions, 19:30 "Dinner on the Lake": Highly recommended but optional pleasure boat networking trip with music & picturesque scenery
4 July 2025 09:00 – 18:00	Oral & Poster Sessions – Plenary Keynotes, Exhibition, Award and Closing Ceremony, Goodbye Coffee All days opportunity to visit EFCF exhibition and poster session.

Services & Fees → REGISTRATION

www.i-MEEP.com/Services - www.i-MEEP.com/REGISTRATION

Symposium*	Registration Privileges:	Physical			Virtual	
		Early - 31 March	Regular from 1 April	Late from 15 May	Regular - 14 May	Late from 15 May
• Full-time students/trainees (age ≤ 28, with valid identification) and unemployed persons		430	+150	+100 CHF	180	+100 CHF
• Government, universities, consultants etc., industry and commerce		740	+150	+100 CHF	320	+100 CHF

EFCF combination & day tickets on request.

Tutorials

• FC, EL & H ₂ Tutorial - Fuel Cells, Electrolysers & Hydrogen (kick-start, www.EFCF.com/FCH):	580 CHF	350	+100 CHF
• EIS Tutorial - Electrochemical Impedance Spectroscopy (advanced, www.EFCF.com/EIS)	580 CHF	350	+100 CHF

*The fees are for a 2¼-day event. If additional sessions and thus the reserve day are needed due to many contributions, the fees will be adjusted. All fees include the 8,1% VAT where applicable. Discounts are offered for group registrations of 3 or more. For further information please contact us at info@i-MEEP.com. One Swiss Franc ("CHF") is valued at about 1.06 EURO, 1.17 US Dollar, 171 YEN, 8.4 CNY (Aug 2024, www.i-MEEP.com/Currency).

Physical fees include access to the MEEP symposium and EFCF exhibition, plus all advantages of the virtual access as well as all business lunches, all refreshments, welcome reception. The exclusive **evening networking events** on Wednesday the "Swiss Surprise Night" and on Thursday the unique and popular "Dinner on the Lake" are not included in the fee, but can be booked during the online registration (each CHF 135 pp).

Virtual access includes virtual, live and on-demand access as well as access to the virtual community rooms during and to the member zone after the conference, proceedings (PoC, PEY) of the MEEP 2025 and earlier, rebate on EFCF conference fee, MEEP membership with all additional services & discounts until the next symposium (worth 470 CHF, 270 CHF for students) & post conference access to all on-demand streams MEEP 2025 and earlier, and where available: Presentations, member contacts, books of abstracts and proceedings back to 2019.

Partners

www.i-MEEP.com/Partners

We are excited to offer a variety of partner- & sponsorship opportunities for those interested in supporting MEEP 2025. Sponsors will profit from direct contact with leading experts in these important emerging technologies. Sponsorship includes networking opportunities, a chance to showcase any products or services, and a great way to establish new partnerships within this diverse, international scientific community. Contact sponsor@i-meep.com to find out more.

Symposium Chairs



Prof. Johannes Gescher

Technical University of Hamburg, Germany

chairs the Institute of Technical Microbiology at the Technical University in Hamburg, Germany. His research focuses on the application of bioelectrochemical systems in anode assisted fermentations, bioelectrosynthesis reactions, and the upcycling of biomass waste streams. The core of all processes developed in his lab are engineered and tailored productive biofilms that catalyze continuous processes, while thriving with electrodes as electron donor or acceptors. He has published > 70 peer reviewed journal papers, raised several million Euros of third-party funding, and is reviewer for research agencies and international journals.



Dr. Catarina M. Paquete

NOVA University Lisbon, Portugal

is an Assistant Research Professor and Team Leader in the IBN group at ITQB NOVA in Portugal. Her research has been devoted to the elucidation of extracellular electron transfer processes performed by electroactive bacteria, and to the determination of the factors that control electron transfer in biological systems. Using molecular biology and electrochemistry she aims to modify electron transfer processes and improve electroactive organisms towards their practical application in biotechnological processes. To date she has published > 50 peer reviewed journal papers, and has been PI of several research projects raising over 1 M€ in research funding. Additionally, she has taken on the role editor for special issues in various journals, while also serving as a reviewer for several scientific journals and funding agencies.


Scientific Advisory Board

www.I-MEEP.com/SAB

- Dr. Bruno Allard / Ecole de Lyon, France
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Organised by:



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