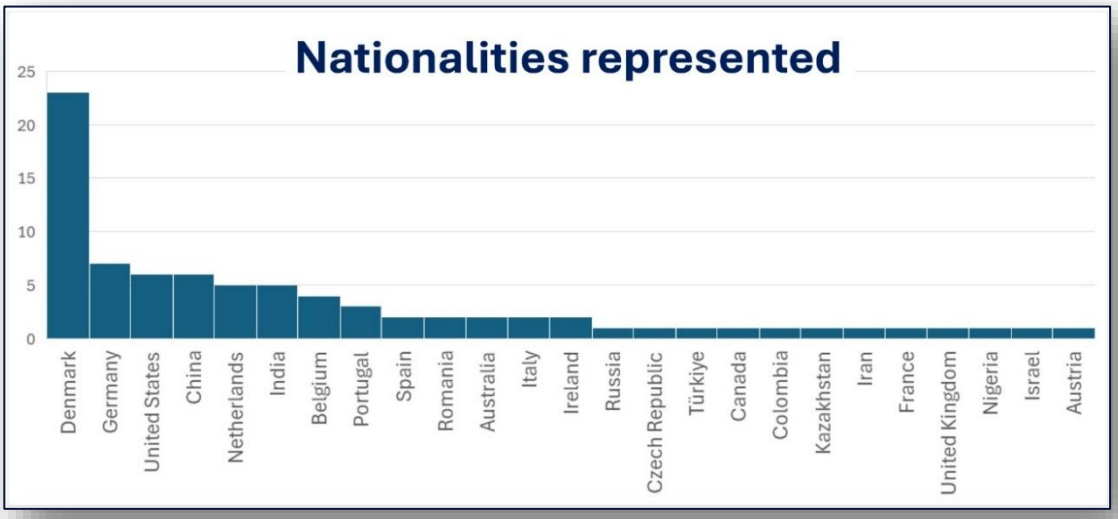
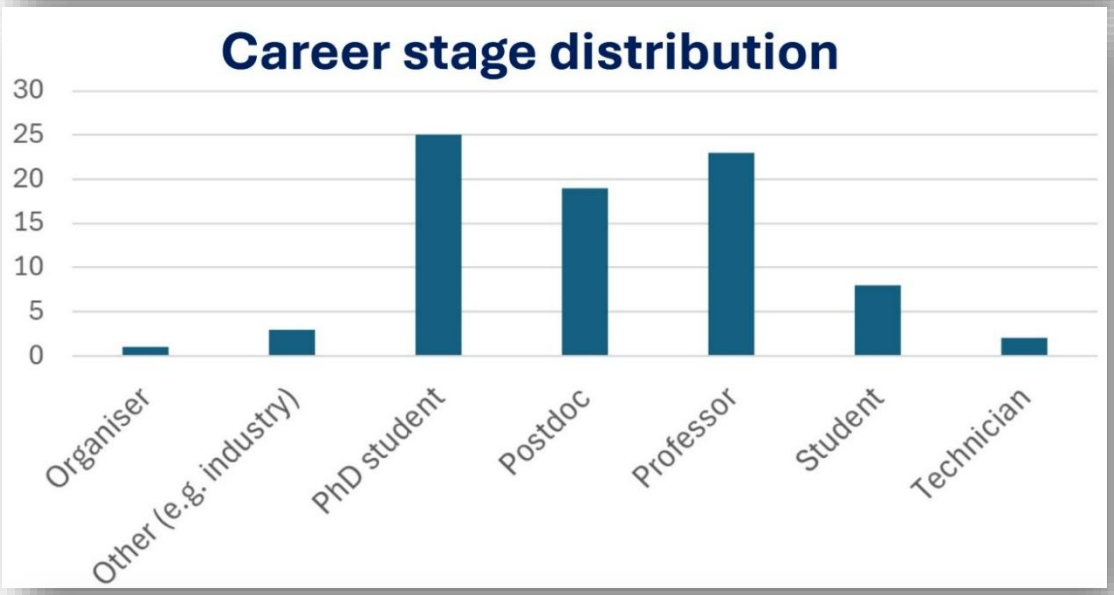
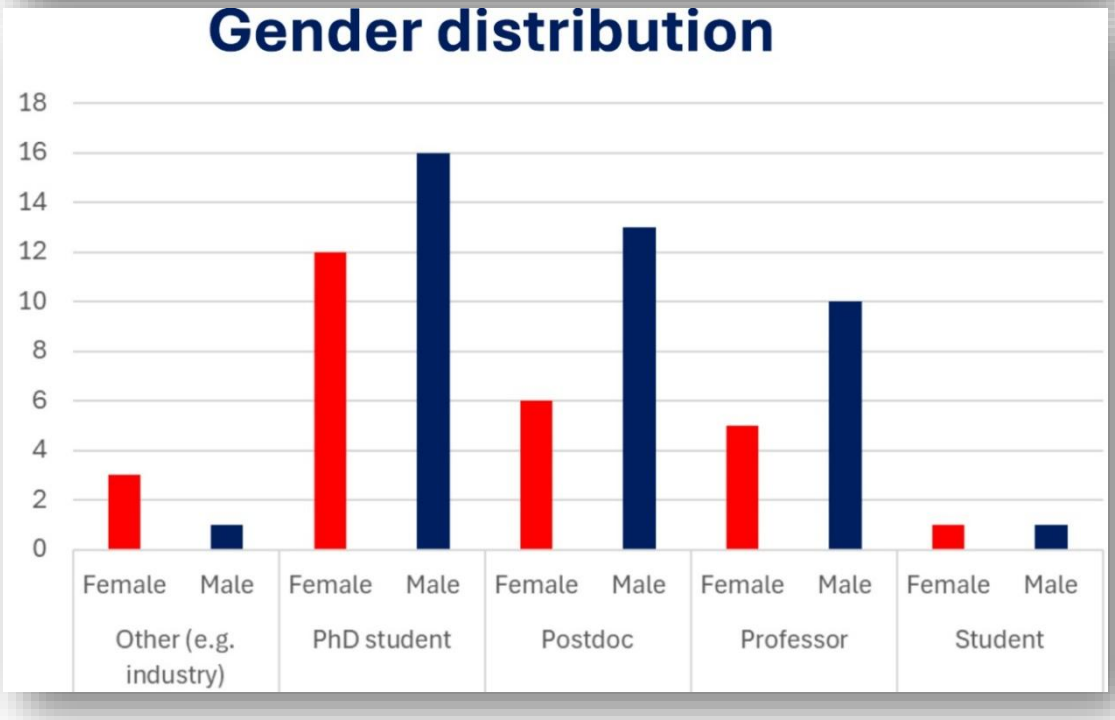
BES Bioelectrochemical Society

CONFERENCE	**Electromicrobiology 2025 (EM-25). May 21 to May 23, 2025**
CITY, COUNTRY	**Aarhus, Denmark**
WEBSITE URL:	https://conferences.au.dk/electromicrobiology-2025
PARTICIPANT STATISTICS (see figures page two)	›› **81 participants in total** ›› **Nationalities:** 25 nationalities represented from 6 continents ›› **Career stage distribution; rather** even, with 25 PhD students, 19 Post-docs, and 23 professors. ›› **Gender distribution:** 41% females vs 59% male with a slight overweight of men in the three research career categories: PhD, Postdocs, and Professors.
PROGRAM STATISTICS	›› **Three Theme Sessions presenting 22 contributed talks.** Session 1: Molecules & Mechanisms - 8 talks. Session 2: Organisms - 10 talks. Session 3: Nature & Technology - 4 talks. ›› **Three Poster Sessions presenting: 40 posters.** Each session focused particularly on a set of posters. ›› **Five Invited Talks.** Lucinda Doyle – Indian Institute of Technology, Delhi, India Abraham Esteve-Núñez – University of Alcala, Spain Miriam Agler-Rosenbaum – Leibniz Institute, Germany Carlos A. Salgueiro – NOVA University of Lisbon, Portugal Cornelia U. Welte – Radboud University, The Netherlands
EVALUATION SURVEY EXCERPTS	›› **Excellent overall participant feedback:** 96% rated the conference as very good to outstanding. ›› Pre-conf. **Early Career Scientist Workshop added strong value:** Especially hands-on training and networking opportunities ›› **Poster sessions appreciated:** Splitting into three sessions worked well.
QUOTES FROM PARTICIPANT FEEDBACK	›› *"The number of participants is perfect for getting to discuss deeply with people. The range of topics covered was also ideal and very intellectually stimulating."* ›› *"I particularly enjoyed the broad scope of research at this conference… EM has been a great venue to pitch ideas, share new results, and get feedback from the community in a friendly and non-confrontational manner."* ›› *"I really like the format with everyone being together for a few days and having time to really immerse oneself into the science. It's very well organized."*

PARTICIPANT STATISTICS GRAPHICS:







The gender count does not total 81 because gender information was obtained only from participants who submitted abstracts. This information was used to ensure that diversity considerations were incorporated into program planning.

Wednesday, May 21			
Time	**Title**	**Presenter**	**Abstract Code**
13:00 – 15:00	**Arrival, conference registration, and poster mounting.** Fruit and cake with soft drink, coffee & tea		
15:00 – 15:15	**Opening Welcome**	**Lars Peter Nielsen and Andreas Schramm,** Aarhus University, DK	
15:15 – 15:30	**Opening Appetizer - theatre by Kartik & Robin**	**Kartik Aiyer & Robin Bonné,** Aarhus University, DK	
15:30 – 16:15	**Opening keynote:** *Clostridium ljungdahlii* – ready or not for microbial electrosynthesis?	**Miriam Agler-Rosenbaum** Leibniz-HKI), Germany	**INV03**
16:15 – 17:15	**Session 1 – Molecules & Mechanisms** (part one)	Chaired by Thomas Boesen	
16:15 – 16:30	Insights from the Mto Pathway in *Sideroxydans lithotrophicus* ES-1	**Catarina M. Paquete**, Universidade NOVA de Lisboa, Portugal	CT15
16:30 – 16:45	Proteomics insights into *Methanosarcina barkeri* extracellular electron uptake	**Abdalluh Jabaley**, University of Southern Denmark, DK	CT07
16:45 – 17:00	**Bio Break**		
17:00 – 17:15	Towards a quantum dynamical mechanical model of long-range electron transfer in cable bacteria	**Thorsten Hansen**, University of Copenhagen, DK	CT05
17:15 – 18:30	**Poster session #1** (no. 1, 4, 7 etc.)		
17:15 – 17:35	One minute madness #1	Chaired by Robin Bonné	
17:35 – 18:30	Poster Presentations #1 (with snacks, soft drinks & beer)		
18:30 – 19:00	Break and hotel room check-in		
19:00	**Dinner** (Hotel Restaurant)		
20:30	Socializing, at own expense (Hotel Lobby Bar)		

Thursday, May 22			
Time	**Title**	**Presenter**	**Abstract Code**
7:00 – 7:30	**Morning swim (optional)**		
7:30 – 8:30	**Breakfast (Hotel Restaurant)**		
08:30 – 10:45	**Session 1: Molecules & Mechanisms (continued)**	Chaired by Markéta Linhartová	
08:30 – 09:15	**Session Keynote:** Novel Method for Elucidating Bacterial Electron Transfer Pathways – A Success Story for *Geobacter sulfurreducens*	**Carlos A. Salgueiro**, Universidade NOVA de Lisboa, Portugal	**INV04**
09:15 – 09:30	Bioelectrochemical and NMR characterization of extracellular electron transfer through MtrC and MtrCAB from *Aeromonas hydrophila*	**Haris Nalakath**, Universidade Nova de Lisboa, Portugal	CT13
09:30 – 09:45	Investigating Putative Cytochrome Electron Pathways in Cable Bacteria	**Nikoline Sanggård Madsen**, Aarhus University, DK	CT11
09:45 – 10:00	Chirality-Induced Spin-Dependent Electron Transport through Bacterial Cell Surface Multiheme Electron Conduits	**Sukrampal Yadav,** University of Southern California, USA	CT18
10:00 – 10:30	**Coffee Break** (Poster Room)		
10:30 – 10:45	Hemin-binding DNA structures on the surface of bacteria promote extracellular electron transfer	**Obinna Ajunwa,** Aarhus University, DK	CT02
10:45 – 12:30	**Session 2 – Organisms** (part one)	Chaired by Jo Philips	
10:45 – 11:30	**Session Keynote:** Almost a Decade of "Weak Electricigens": Where Are We Now?	**Lucinda Doyle,** Indian Institute of Technology Delhi, India	**INV01**
11:30 – 11:45	Uncovering a Novel EET Mechanism in the Sulfur-Oxidizing Marine Sediment Bacterium, *Thioclava electrotropha*	**Joshua D. Sackett,** Michigan State University, USA	CT17
11:45 – 12:00	Electron Uptake by Sulfate-Reducing Microorganisms: Metabolic Pathways, Energy Production, and Biogeochemical Implications	**Juan Liu,** Peking University, China	CT09
12:00 – 12:15	**Group Photo** (on the beach, weather permitting)		
12:15 – 13:15	**Lunch** (Hotel Restaurant)		
13:15 – 15:00	**Session 2 – Organisms** (continued)	Chaired by Ian Marshall	
13:15 – 13:30	A New Dawn for Methanotroph Cultivation: Bioelectrochemical Systems yield almost pure cultures of Methanoperedens Archaea	**Martijn Wissink,** Radboud University, NL	CT20
13:30 – 13:45	Multi-heme cytochromes support metabolic versatility in anaerobic methanotrophic archaea	**Xueqin Zhang,** University of Queensland, Australia	CT21
13:45 – 14:00	Comparison of dihydrogen thresholds of electroactive and other methanogens	**Timothé Philippon,** Aarhus University, DK	CT16

Thursday, May 22 (continued)			
Time	**Title**	**Presenter**	**Abstract Code**
13:15 – 15:00	**Session 2 – Organisms** (continued)	Chaired by Ian Marshall	
14:00 – 14:15	Electroactive Anammox: the curious reactions of an ammonium utilising bioanode	**Conall Holohan**, Radboud University, Netherlands	CT06
14:15 – 14:30	Emergent properties of an engineered co-culture of electroactive bacteria	**Jeffrey A. Gralnick**, University of Minnesota, USA	CT04
14:30 – 14:45	The Power of Microbial Teamwork within Electroactive Biohybrids	**Ramya Veerubhotla,** Aarhus University, DK	CT19
14:45 – 15:00	Unraveling Extracellular Electron Transfer Mechanisms in Cable Bacteria	**Kartik Aiyer,** Aarhus University, DK	CT01
15:00 – 15:30	**Coffee Break** (Poster Room)		
15:30 – 16:45	**Poster session #2** (no. 2, 5, 8 etc.)		
15:30 – 15:50	One minute madness #2	Chaired by Robin Bonné	
15:50 – 16:45	Poster Presentations #2 (with snacks, soft drinks, and beer)		
16:45 – 19:00	Break – weather dependent tours in local surrounding	To be announced	
19:00	**Conference Dinner (Hotel Restaurant)**		
21:00	**Hotel lobby bar open (own expense)**		

Friday, May 23			
Time	**Title**	**Presenter**	**Abstract Code**
7:00 – 7:30	**Morning swim (optional)**		
7:30 – 8:30	**Breakfast (Hotel Restaurant)**		
8:30 – 10:00	**Session 3: Nature & Technology** (part one)	Chaired by Meiying Xu	
08:30 – 09:15	**Session Keynote:** Methane oxidation at the bioanode	**Cornelia U. Welte**, Radboud University, Netherlands	**INV05**
09:15 – 09:30	Electrochemical characterization of *Shigella* sp. IRSG1 and *Lysinibacillus* sp. IRSG3 enriched under anaerobic iron-reducing conditions using soil from Goa, India	**Monika Luthra,** Indian Institute of Technology Delhi, India	CT10
09:30 – 09:45	Insights on the application of Applied Laboratory Evolution for the electrosynthesis of Multicarbon Organic Compounds from CO_2	**Rosa Anna Nastro,** University Parthenope of Naples, Italy	CT14
09:45 – 10:00	Electric fields in Anammox granules influence nitrate/ammonium fluxes	**Ugo Marzocchi,** Aarhus University, DK	CT12
10:00 – 10:30	Coffee, Bio Break, and room check-out		
10:30 – 11:15	**Session 3: Nature & Technology** (continued)	Chaired by Jeanine Geelhoed	
10:30 – 10:45	Conductive mineral particles are a niche for electroactive microbial communities in marine subsurface sediments	**Kasper Urup Kjeldsen,** Aarhus University, DK	CT08
10:45 – 11:00	Cable bacteria and nitrous oxide production	**Mie Mai Corneliussen,** Aarhus University, DK	CT03
11:00 – 11:15	The role of extracellular electron transfer on generation of microbial-derived reactive oxygen species	**Shaofeng Zhou,** Guangdong Academy of Sciences, China	CT22
11:15 – 12:15	**Panel Discussion**	To be announced	
12:15 – 13:15	**Lunch** (Hotel Restaurant)		
13:15 – 14:30	**Poster session #3** (no. 3, 6, 9 etc.)		
13:15 – 13:35	One minute madness	Chaired by Robin Bonné	
13:35 – 14:30	Poster session #3 (with coffee & tea and refreshment)		
14:30 – 15:15	**Closing Keynote:** Applications and Perspectives of Electromicrobiology	**Abraham Esteve-Núñez,** University of Alcalá, Spain	**INV02**
15:45 – 16:00	**Concluding remarks**	**Lars Peter Nielsen,** Aarhus University, Denmark	