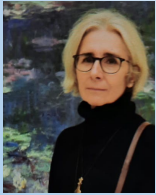




International Society of Electrochemistry

Division 2 Bioelectrochemistry Report 2024

DIVISION 2 OFFICERS –2023



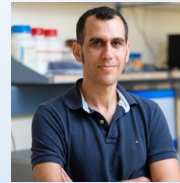
Chair: Ilaria Palchetti



- Chair Elect: Carlo Santoro



- Past Chair: Elisabeth Lojou



- Vice-Chair: Omer Yehezkeli



- Vice-Chair: Hye Jin Lee



International Society of Electrochemistry

Summary of the Division 2 activities

Awards of our Division

In 2024

Fred Lisdat

Technical University of Applied Sciences Wildau
has been selected as the winner of

Bioelectrochemistry Prize



Congratulations!

The Bioelectrochemistry Prize of ISE Division 2 is awarded to Fred Lisdat for his contribution to the areas of protein-based electrochemistry, electron transport in biological systems, from enzymatic multilayers to artificial systems, photobioelectrochemistry, biosensing and biofuel cell, and for his very strong commitment in the dissemination of the idea of bioelectrochemistry.

The Award lecture will be given at the 2025 Annual Meeting

Awards of our Division

In 2025

We are waiting for your proposals/nominations for

the Katsumi Niki Prize for Bioelectrochemistry

<https://www.ise-online.org/awards/awards.php#top>

Previous prize winners:

J. Ulstrup (2004), Rolando Guidelli (2005), Philip N. Bartlett (2007), Serge Cosnier (2009), Wolfgang Schuhmann (2011), Lo Gorton (2013),

George S. Wilson (2015), Justin Gooding (2017), E. Katz (2019), J. Butt (2021), Ana Maria Oliveira Brett (2023).

Sponsored Meetings in 2024

- **27-26 July 2024: ESEAC 2024 Meeting**

Location: Ulm, Germany; Contact: Christine Kranz

<https://www.uni-ulm.de/nawi/eseac-2024/>

- **14 – 17 August 2024: ISESS** (International Symposium on Electrochemistry and Surface Science), satellite meeting of the 75th ISE Annual Meeting.

Location: Guelph, Canada; Contact: Aicheng Chen

<https://www.isess.uoguelph.ca/>

- **23-25 October 2024: AMYC-BIOMED 2024**

Location: Rome, Italy; Contact: Catia Arbizzani

<https://2024amycbiomed.webnode.page/>

- **25-27 November 2024: Dresdner Sensor-Symposium 2024**

Location: Dresden, Germany; Contact: Kristina Böhlandt-Brandes

<https://dechema.de/dss17.html>

- **13-17 January 2025: XVIIIth conference of the French Group of Bioelectrochemistry**

Location: Autrans Méaudre en Vercors, France; Contact: Julien Vieillard



International Society of Electrochemistry

36th Topical Meeting 26-29 May 2024

Sibenik, Croatia

“Modern electrochemical aspects of marine and environmental research in the era of new technologies”

**Division 1 &
Division 2**

**Carlo Santoro
Elena Ferapontova**





International Society of Electrochemistry

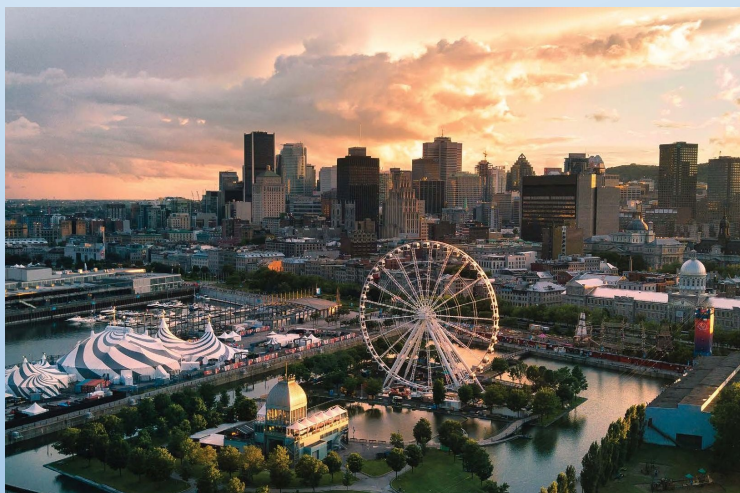
2024

75th Annual Meeting of ISE

Montréal, Canada from 18 to 23 August 2024

<https://annual74.ise-online.org/index.php>

“Electrochemistry – Science and Technology for a Sustainable and Better Planet”



2025 – 75th Annual Meeting of ISE, Montreal

Symposium 4: Bioelectrochemistry – diversity and focus

Sponsored by: Division 2, Bioelectrochemistry

This symposium will comprise all aspects of bioelectrochemistry – from fundamental studies, via different specialized fields towards all areas of applications. However, we would like to focus on the following subjects in order to deepen the discussion on these topics:

- Biosensing and electrochemistry of biomolecules (new concepts, biomimetic, enzymes and enzyme engineering)
- Photobioelectrochemistry (photoactivation, light-induced heating, surface plasmon effects, photobioelectrodes, photoactive cell-electrode coupling, coupling of enzymes to light-triggered electrodes)
- Bioelectrosynthesis (enzymatic catalysis, microbes, electrode design, value-added products and their characterization)
- Microbial electrochemistry and biocorrosion (mechanism, genetic modifications, technical applications, cell construction, methods)
- Fundamentals of electron transfer (protein electrochemistry, enzyme mechanisms, nucleic acids)

Symposium Organizers:

Fred Lisdat (Coordinator), Technische Hochschule Wildau

Keisei Sowa, Kyoto University

Zhe She, Queen's University

Sabine Kuss, University of Manitoba

Hye Jin Lee, Kyungpook National University

2024 – 75th Annual Meeting of ISE, Montreal

Division 2 decided to organize only one symposium for 75th ISE AM .

Arguments:

i) explore a new format with dedicated half days on main and novel topics of bioelectrochemistry

ii) follow the advice from EC to decrease the number of symposia

Div 2 decided to award 2 students for their oral presentation in our main symposium:

- Awards for the best oral communications among young researchers at the main Symposium (S02) of the Division 2 at 75th ISE AM 2024

Two prizes

Division 2 Budget

Division 2 income 2024: **5471,92 €**

SPENT or ENGAGED

- Division 2 awards 75th ISE AM
- Sponsored conferences

500 €
2800€

LEFT

2171,93 €

76th Annual Meeting of ISE, 7-12 September, Mainz, Germany **Mainz,**
Germany

«Electrochemistry: From Basic Insights to Sustainable
Technologies»



2025 – 76th Annual Meeting of ISE, Mainz

- **Division 2:**

S02 Symposium Title:

“Bioelectrochemistry from fundamentals to sustainable applications”

Symposium Organizers: Ilaria Palchetti, Italy, (lead)

Elisabeth Lojou, CNRS,, France

Omer Yehezkeli,, Israel

Nicolas Plumere, Germany

- **Symposium of Division 2 joint with Division 3**

S03 Symposium Title:

“Electrochemical and Bioelectrochemical synthesis of small molecular products”

Symposium Organizers: Carlo Santoro (Div 2), Italy (lead)

HyungKuk Ju, South Korea

Corina Andronescu, Germany

- **Symposium of Division 2 joint with Division 6 and 7**

S13 Symposium Title:

“Mechanisms of molecular electrochemistry for (bio)catalysis, (bio)sensing, and electronics”

Symposium Organizers: Federico Polo, Italy, (lead)

Hye Jin Lee, South Korea (Div 2)

Division 2 Facebook

<http://www.facebook.com/pages/ISEDivision-2-Bioelectrochemistry/156450904449193>

Linkedin...coming soon

Felipe Conzuelo
Universidade NOVA de Lisboa