



Division 1 – Analytical Electrochemistry

Annual Report – August 2024

Agenda:

1. Division activities
2. Division Officers
3. Elections
4. Membership
5. Meetings & symposia
6. Awards
7. Division budget
8. AOB



Division 1 – Analytical Electrochemistry – 2024 report

1. Division activities

Div. 1 objectives & activities follow those of the ISE

- to advance electrochemical science and technology
- to disseminate scientific and technological knowledge
- to promote international cooperation in electrochemistry
- to maintain a high professional standard among its members

This is achieved by

- organising & co-organising symposia in Annual and Topical Meetings
- sponsoring meetings organised by related societies
- publishing in *Electrochimica Acta*, e.g. Special Issues following each AM
- awarding prizes ([Early Career Analytical Electrochemistry Prize](#), [ISE-Elsevier Prize for Green Electrochemistry](#), [poster prizes](#))



Division 1 – Analytical Electrochemistry – 2024 report

2. Division Officers 2023-2024

Chair: **Guy DENUAULT**
(University of Southampton, UK)



Chair Elect: **Maria Cuartero Botia**
(KTH Royal Institute of Technology, Stockholm, Sweden)



Past Chair: **Luigi Falciola**
(Università degli Studi di Milano, Italy)



Vice-Chairs: **Rasa Pauliukaitė**
(University of Vilnius, Lithuania)
Wojciech Nogala
(Polish Academy of Sciences, Warsaw, Poland)





Division 1 – Analytical Electrochemistry – 2024 report

2. Division Officers 2023-2024

Chair: **Guy DENUAULT**
(University of Southampton, UK)

Chair Elect: **Maria Cuartero Botia**
(KTH Royal Institute of Technology, Stockholm, Sweden)

Past Chair: **Luigi**
(Univ)

Big thank you to Maria,
Rasa, Wojciech & Luigi

Vice-Chairs: **Rasa Pauliukaitė**
(University of Vilnius, Lithuania)
Wojciech Nogala
(Polish Academy of Sciences, Warsaw, Poland)





3. Elections

Next elections for Div. 1, early Oct. 2024

	Chair elect	Chair	Past Chair
2023	Maria	Guy	Luigi
2024	Maria	Guy	Luigi
2025	To be elected	Maria	Guy
2026	To be elected	Maria	Guy

Need candidate names asap



for all other ISE matters, e.g., budget, etc.



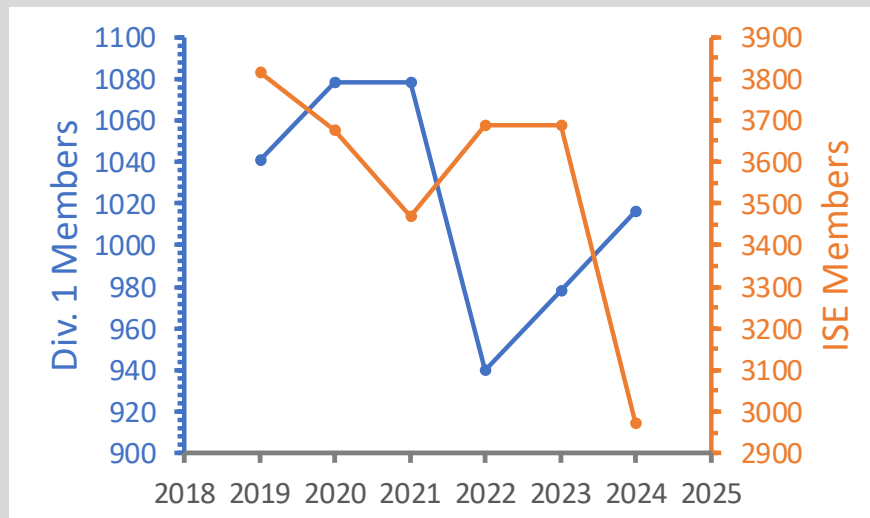
Division 1 – Analytical Electrochemistry – 2024 report

4. Membership

Div. 1 1016
ISE 2974

Healthy number
Still recovering after Covid

Div. 1	1016
Div. 2	543
Div. 3	1742
Div. 4	1743
Div. 5	649
Div. 6	465
Div. 7	1010



Wide geographical distribution

France	90
Germany	79
United States	65
Canada	59
Italy	53
United Kingdom	47
China	45
Japan	44
Australia	42
Spain	39
Korea, Republic of	35
Poland	34
Brazil	33
South Africa	30
Romania	25
Ireland	20
Croatia	18
Czech Republic	18
Belgium	17
Mexico	16
Switzerland	14
India	13
Sweden	13
Netherlands	12
Chile	11
Finland	11
Taiwan	11
Turkey	11
Portugal	10



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2023

74th AM, Lyon

Div. 1 organised

Symp. 1) Electroanalytical chemistry: from fundamental research to day-to-day analysis, Alain Walcarius (Div. 1), Guy Denuault (Div. 1), Damien Arrigan (Div. 1), Florence Geneste (Div. 1)

Div. 1 co-organised

Symp. 3) From wearable to sustainable electrochemical sensing and biosensing, Ilaria Palchetti (Div. 2), Elena Ferapontova (Div. 2), Stefano Cinti (Div. 1), Carole Chaix (Div. 2), Pierre Gros (Div. 2)

Symp. 11) New materials for electroanalysis, Neso Sojic (Div. 1), Luigi Falciola (Div. 1), Frederic Kanoufi (Div. 4), Magdalena Hromadova (Div. 6)



Div. 1 sponsored
3 poster prizes



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2023

35th TM, Gold Coast, Australia, May 2023

Debbie Silvester-Dean, Huijun Zhao, Chuan Zhao, Yulin Zhong

293 participants

5 Keynotes, 125 oral presentations (19 invited speakers), 130 posters.

Div. 1 sponsored 3 poster prize (€ 150 each)

- Mahin Maleki (Deakin University, Australia)
- Sarah Linden (Curtin University, Australia)
- Jawairia Khan (University of Technology Sydney, Australia)





Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2023

Div. 1 also sponsored

[ElecNano10, Paris, 10-12 May 2023,](#)

10th International Conference on Electrochemistry in Nanosciences: Electrochemistry for Nano & Nano for Electrochemistry

[4th European BioSensor Symposium 2023, Aachen, 27-30 Aug. 2023](#)



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2024

75th AM, Montréal, 18-23 Aug. 2024

Div. 1 is organising

Symp. 1) The electroanalytical journey from the fundamental electrochemical concept to the analytical application, Maria Cuartero Botia (Div. 1), Gaston Crespo (Div. 1), Antonella Badia (local), Christia Brosseau (local)

Symp. 2) Scanning Probe Microscopies: Towards quantitative electrochemistry, Wojciech Nogala (Div. 1), Guy Denuault (Div. 1), Joshua Byers (local), Zhifeng Ding (local)

Div. 1 is co-organising with Div. 2, 4 & 5

Symp. 3) Improving health monitoring & pollutant detection using electrochemical sensors, Silvia Cere, Rasa Pauliukaite (Div. 1), Fabio Cicoira (local), Philippe Dauphi-Ducharme (local)

75th Annual Meeting
of the International Society of Electrochemistry
18 - 23 August 2024
Montréal, Canada

Electrochemistry –
Science and Technology for a
Sustainable and Better Planet

<https://annual75.ise-online.org>
e-mail: events@ise-online.org

Online [brochure](#)



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2024

Div. 1 co-organised

36th ISE TM, 26-29 May 2024, Sibenik, Croatia

Marine & Environmental Electrochemistry in the Era of New Technologies

Slađana Strmečki Kos (local), Chair, Marija Marguš (local), Irena Ciglonečki - Jušić (local), Luigi Falciola (Div. 1), Alain Walcarius (Div. 1), Elena Ferapontova (Div. 2), Carlo Santoro (Div. 2)

- electrochemistry in the study of global biogeochemical cycles/processes
- electrochemistry in the identification and monitoring of emerging pollutants
- electrochemistry in the study of nano- and microparticles
- green electrochemistry; advances in the application of electrochemical sensors in the ocean and environment
- emerging electrochemical technologies in environmental remediation of pollutants
- electrochemical marine and environmental microbiology; microbial fuel cells
- corrosion, its control and protection
- electrochemistry in the study of atmospheric processes
- theoretical electrochemistry in marine and environmental research
- electrochemistry in the future; latest innovations and future challenges; artificial intelligence in environmental electrochemical measurement/ monitoring

36th Topical Meeting
of the International Society of Electrochemistry

Marine and environmental
electrochemistry in the era of new
technologies

26 - 29 May 2024
Sibenik, Croatia

Call for Papers

<http://topical36.ise-online.org>

The poster features a scenic view of Sibenik, Croatia, with its historic buildings and harbor. The ISE logo is prominently displayed at the top left of the poster.

Online [program](#)



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2024

Div. 1 also sponsored

ESEAC2024 19th International Conference on Electroanalysis
23-26 July 2024, Ulm, Germany [Web site](#)

Journées de Chimie Analytique 2024/ JCA2024
28-30 August 2024, Dschang, Cameroun [Web site](#)

AMYC-BIOMED 2024
23-25 September 2024, Rome, Italy [Web site](#)

Wearable and Implantable Sensors and Electrochemical Devices (WISED)
27-29 November 2024, Lyon, France [Web site](#)

XVIIIth conference of the French group of bioelectrochemistry (XVIIIth GFB)
15-17 January 2025, Autrans, France [Web site](#)

17th Dresdner Sensor-Symposium
25-27 November 2024, Dresden, Germany [Web site](#)



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2024

Div. 1 is not involved with

37th ISE TM, 9-12 June 2024, Stresa, Italy


Electrochemical Energy for a Greener and more Sustainable Future Society


38th ISE TM, 8-11 September 2024, Manchester, UK

Nanomaterials in Electrochemistry

[brochure](#)

37th Topical Meeting
of the International Society of Electrochemistry

 Electrochemical Energy for a
Greener and more Sustainable
Future Society





9 - 12 June 2024
Stresa, Italy

Call for Papers

<https://topical37.ise-online.org>

38th Topical Meeting
of the International Society of Electrochemistry

 Nanomaterials in Electrochemistry



8 - 11 September 2024
Manchester, UK

Call for Papers

<https://topical38.ise-online.org>



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2025

76th AM, 7-12 September 2025, Mainz, Germany

Div. 1 is organising symposium 1

Electroanalysis: From fundamentals towards smart devices

Guy Denuault (Div. 1), Mauro Bertotti (Div. 1), Frank-Michael Matysik (local),
Christine Kranz (local)

and co-organising symposium 13 with Div. 2 & 7

Mechanisms in molecular electrochemistry for (bio-)catalysis, (bio-) sensing and electronics

Federico Polo (Div. 1 & 2) Magdaléna Hromadova (Div. 7), Hye Jin Lee (Div. 1,
2 & 7), Valentina Pifferi (Div. 1 & 7), Kristina Tschulik (local).

76th Annual Meeting

of the International Society of Electrochemistry



Electrochemistry: From Basic
Insights to Sustainable Technologies

7 - 12 September 2025
Mainz, Germany



First Announcement

<https://annual76.ise-online.org>
events@ise-online.org

Online [brochure](#)



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2025

Div. 1 is co-organizing

40th TM, 15-17 August 2025, Changchun, China

Interfacial electrochemistry

Xiurong Yang(Chair), Guobao Xu, Erkang Wang, **Neso Sojic (Div. 1)**, **Wojciech Nogala (Div. 1)**, + 2 from Div. 6

Div. 1 is not involved with

39th TM, 25-27 March 2025, Natal, Brazil

The role of electrochemistry in sustainable energy and the environment

Lucia Helena Mascaro (local), Carlos A. Martínez-Huitle (local), Rodrigo Muñoz (local) with Div. 3 & 5



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2026

Topical meetings

- Helsinki, 2026, June 22-25, Div. 3 & 7, *Sustainable Electrochemical Energy Materials: Theory and Practice*
- Belgrade, 2026, June 6-10, Div 4, *Corrosion and Surface Modification at the Forefront of 21st Century Green Electrochemistry Processes and Technology*
- Poznan, 2026, Sept 23-26, Div 3, 2 & 7, *In-situ and operando monitoring of electrified interfaces*



Division 1 – Analytical Electrochemistry – 2024 report

5. Meetings & symposia: 2026

77th AM, Sydney, themes

Electroanalytical chemistry

Electrocatalysis

Batteries

Fuel cells

Corrosion

Single entity electrochemistry

(molecular, analytical, physical)

Scanning Probe Electrochemical Microscopy

Energy

Ammonia Synthesis

Hydrogen generation

Electrochemiluminescence

Photoelectrocatalysis

Minerals electrochemistry

Ionic liquid electrochemistry

Liquid/liquid electrochemistry

Solar cells

Microbial electrochemical systems

Electrochemistry for medicine/point of care

Devices/manufacturing

Wearables

Need symposia suggestions asap
Symposia list finalised next March



5. Meetings & symposia: 2027

Topical meetings

Please suggest topics
and venues for 2027 TM

Annual meetings

- 78th AM, 5-10 September 2027, Glasgow,



Division 1 – Analytical Electrochemistry – 2024 report

6. Early Career Analytical Electrochemistry Prize of ISE Div. 1 sponsored by OrigaLys

- **2014 Dr Jan Vacek** (Palacky Univesity, Olomouc, Czech Republic)
- **2015 Dr Bryan McCloskey** (University of California, Berkeley, USA) in recognition of his contributions to a highly interdisciplinary teams on understanding the fundamental chemistry of lithium-air batteries
- **2016 Dr Kosuke Ino** (Tohoku University, Sendai, Japan) for his research on integrated electrochemical devices based on micro/nanochemistry for bioassays
- **2017 Prof Kristina Tschulik** (Ruhr-University, Bochum, Germany) in recognition of her excellent work applying electrochemistry for the physical and chemical characterization of nanostructures and in particular single nanoparticles
- **2018 Dr Maria Cuartero Botia** (KTH, Stockholm, Sweden) for her contribution to the electrochemical detection of various species in aquatic systems based mostly on potentiometric methods
- **2019 Prof Sabine Kuss** (University of Manitoba, Winnipeg, Canada) for her fundamental contributions to analytical electrochemistry at the interface between electrochemistry and biology





Division 1 – Analytical Electrochemistry – 2024 report

6. Early Career Analytical Electrochemistry Prize of ISE Div. 1 sponsored by OrigaLys

- **2020 Dr Cameron Bentley** (University of Warwick, Coventry, UK) for his achievements in using nanoscale electrochemistry to understand various phenomena with broad impact in electrocatalysis, materials science and nanoscience
- **2021 Dr Dmitry Momotenko** (Carl von Ossietzky University of Oldenburg, Germany) for the development of new advanced instrumental analytical techniques for micro- and nanoscale analyses and for physico-chemical characterization of different materials and particularly for the extensive study of soft probe microelectrodes for SECM and for the integration of this advanced technique with mass spectrometry
- **2022 Dr Stefano Cinti** (Università degli Studi di Napoli “Federico II”, Italy) for the development of innovative electrochemical sensors (tattoo-sensors, microfluidic paper-based devices and nanomotors) applied to user-friendly analytical chemistry for applications in healthcare (point of care), clinical, pharmaceutical, environmental and agri-food sectors.





Division 1 – Analytical Electrochemistry – 2024 report

6. Early Career Analytical Electrochemistry Prize of ISE Div. 1 sponsored by OrigaLys

- **2023 Dr Paolo Bollella** (Bari University, Italy) in recognition of his recent achievements in Analytical Electrochemistry. The Award Selection Committee was impressed by the quality and scale of his contribution to the development of ultrasensitive enzyme-based amperometric sensors for the detection of biomarkers in clinical, food, and environmental samples.



Keynote lecture, Symp. 1, Tue. 14:00,

From Wearable and Minimally Invasive to Edible Enzyme-based Amperometric Biosensors



6. Awards

The 2024 Early Career Analytical Electrochemistry Prize of ISE Div. 1 sponsored by OrigaLys

Awarded to **Dr Muamer Dervisevic**, Monash University, Australia, for his contribution to the development of transdermal electrochemical biosensors for health care monitoring and diagnostics.



4 candidates

Award Selection Committee

Florence Lagarde (Analytical Sci. Inst., University of Lyon, nominated by OrigaLys)

Rasa Pauliukaite & Guy Denuault (Div. 1 committee)





6. Awards

The ISE-Elsevier Prize for Green Electrochemistry

Awarded to **Dr Yudong Xue**, EPFL Sion, Switzerland, for his or work on electrochemical solid waste treatment, valuable metal extraction, product engineering and manufacturing of critical metals



8 candidates

Award Selection Committee

Guy Denuault (Div. 1), Thierry Brousse (Div. 3), Carlos Martinez – Huitle (Div. 5)





7. Division budget

• Leftover from 2023 12511 €

Few sponsoring requests after Covid. Increasing.

• Sum returning to ISE 8577 €

To promote the sponsoring of prizes, meetings, etc., ISE budget rules allow each Div. to transfer up to 2 × the annual allocation to the next year

• 2024 allocation from ISE 4230 €

$(10\text{k CHF} / 7 \text{ Div.} + 20\text{k CHF} / \sum \text{ of all Div. members} \times \text{ number of Div. 1 members}) \times \text{exchange rate}$

• Sum available to Div. 1 8915 €

In line with previous years



8. Any Other Business

Any other matter for discussion?

- For AM 2025, dedicated venue, Speakers Corner, available throughout conference for informal discussions (e.g. for early career researchers to cover career development, success and challenges, personal-professional balance, research team, main research lines, etc.)
- How can we engage with industry?
- Nomination of ISE fellows: Div. can make a collective decision to nominate an ISE fellow



Division 1 – Analytical Electrochemistry – 2024 report

Thank You



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7. Budget rules

The deduction comes from an ISE budget rules for which, if we do not spend all the amount allocated, part of the sum is deducted (i.e. you cannot save much and should spend as much as possible). You can transfer funds from a year to the next up to a total of 2S (see below). This rule was not used in the COVID period since there was no possibility to spend but was reintroduced in 2023. So, we aim to spend what we receive.

The rules are the following:

- 10000 CHF is shared between the 7 divisions: $10000/7 = 1428.57$ CHF
- 20000 CHF is shared between the divisions according to the number of members in each division
- The total number of members is larger than the number of ISE members because some are involved in more than one division.
- So, each division receives circa 3.17 CHF per member. ($20000 / \text{total number of members}$)
- Each division receives $S = 1428.57 \text{ CHF} + 3.17 \text{ CHF} \times N$ where N is the number of members in the division

The Division budgets

+ available funds from 2023 (up to a total of +2S)

+ meeting surplus 3 years with 33.3% of shared surplus from topical meetings

Exception for 2022 & 2023: Exceptions introduced during the pandemic have been lifted.