

## **Report on Division 4 (Electrochemical Materials Science) activities from August 2024 to August 2025**

We currently have 1850 active members in Division 4, which represents a small increase of 6% compared to 2024. Division 4, together with Division 3, is one of the largest Divisions in the International Society of Electrochemistry, with almost the same number of members. The total number of ISE members is 3122, which is also a slight increase compared to 2024 (updated: August 2025).

### **1. The division officers for 2025-2026 term**

Carmen PEREZ (Chair Elect), University of Vigo, Spain.

Hiroki HABAZAKI (Chair), University of Hokkaido, Japan.

Samantha GATEMAN (Chair Elect), University of Western Ontario, Canada.

Jon USTARROZ (Vice-Chair), Free University of Brussels, Belgium.

Isao SHITANDA (Vice-Chair), Tokyo University of Science, Japan.

Division 4 is involved in the organization of the annual meeting and topical meetings. Additionally, Division 4 has sponsored several electrochemical meetings and symposia. This support is most often done through *funding one or two fellowships to support the participation of young scientists in these meetings*.

### **2. Organization and co-organization of 4 symposia at the 75<sup>th</sup> annual ISE meeting that took place from 18 to 23 August in Montreal, Canada**

Symposium 3. *"Improving health monitoring and pollutant detection using electrochemical sensors"* (D4, D1, D2, D5).

**Silvia Cere** (Coordinator), INTEMA UNMdP – CONICET

Rasa Pauliukaite, Center for Physical Sciences and Technology, Vilnius

Fabio Cicoira, Polytechnique Montréal

Philippe Dauphin-Ducharme, Université de Sherbrooke

Symposium 8. *"Corrosion and surface modifications"* (D4)

**Carmen Pérez** (Coordinator), University of Vigo

**Jan M. Macak**, University of Pardubice

**Samantha M. Gateman**, Western University

Joey Kish, McMaster University

Symposium 9. *"Machine learning in electrochemical materials science: Progress, challenges and opportunities"* (D4, D5, D2, D3, D7)

**Vincent Vivier** (Coordinator), Sorbonne University

Koji Fushimi, Hokkaido University

**James Noel**, Western University

## Symposium 16. General Session (All Divisions)

Jean Lessard (Coordinator), Université de Sherbrooke  
Wataru Sugimoto, Shinshu University  
Clara Santato, Polytechnique Montreal  
Donal Leech, University of Galway

## 3. Co-organization and sponsoring of 38<sup>th</sup> ISE Topical Meeting

### **Topic: Nanomaterials in Electrochemistry**

From 8 to 11, September. Manchester (UK), co-sponsored also by Div. 3 and 7.

## 4. Sponsored meetings

Division 4 has sponsored 14 meetings during this period (09/2024 – 08/2925)

### **2024**

#### **International Symposium on Beyond Li-Ion Batteries 2024 (BeLI24)**

From 1 to 6, September. Padova (Italy). Sponsored by: Div.4, Div.3

#### **Spectroscopie d'ImpEDance ElectRochimique AppLiquée : bases théoriques et applications (SIEDERAL)**

From 15 to 20, September. Aussois (France). Sponsored by Div. 4

#### **3rd Gerischer-Kolb Symposium (GKS)**

From 10 to 19, October. Günzburg (Germany). Sponsored by Div.4, Div. 7

#### **Symposium Additive Manufacturing in Engineering and Biomedicine (AMEB2024)**

24 October. Ljubljana (Slovenia). Sponsored by Div.4, Div. 7

#### **4th Asian Symposium on Electrochemical Impedance Spectroscopy (AEIS2024)**

From 25 to 26, November. Nagoya (Japan). Sponsored by Div.4

### **2025**

#### **XXX Scientific and Technical Conference ANTICORROSION. Systems – Materials – Coatings (ANTICORROSION 2025)**

From 19 to 21, March. Ustroń-Jaszowiec (Poland). Sponsored by Div.4

#### **Corrosion Awareness Day Meeting 2025 CorrDays 2025**

From 24 to 25, April. Gliwice (Poland). Sponsored by Div.4

#### **4<sup>th</sup> International Symposium on Anodizing Science and Technology. AST2025**

From 1 to 4 June. Narita, Chiba (Japan). Sponsored by Div. 4

#### **14<sup>th</sup> symposium on Electrochemical methods in corrosion (EMCR 2025)**

From 14 to 19, June. San Servolo, Venice (Italy). Sponsored by Div. 4

## **5<sup>th</sup> International Workshop on Functional Nanostructured Materials. FuNaM-5**

From 24 to 26 June. Krakow (Poland). Sponsored by Div. 4 and Div. 3

## **14<sup>th</sup> ISE Satellite Student Regional Symposium on Electrochemistry**

27 June. Zagreb (Croatia). Sponsored by Div. 4

## **1<sup>st</sup> Joint Conference of Gruppo Interdivisionale di Chimica per l'Accumulo e la Conversione Elettrochimica dell'Energia - Italian Group for Electrochemical Energy Storage (ACee - GISEL)**

From 21 to 23 July. Padova (Italy). Sponsored by Div. 4 and Div. 3

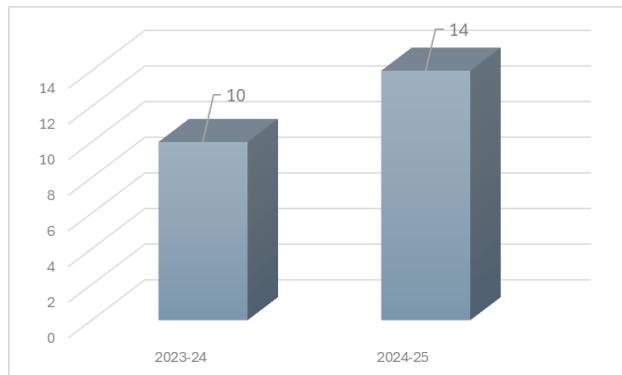
## **Educational learning modules on Li-ion batteries - ELMO-LION PhD Educational summer school. ELMO-LION**

From 28 July to 1 August. Padova (Italy). Sponsored by Div. 4 and Div. 3

## **Advanced Batteries, Accumulators and Fuel Cells, ABAF 26th**

From 31 August to 3 September. Brno (Czech Republic). Sponsored by Div. 4 and Div. 7

This activity represents a significant increase of 40% compared to the previous period, 09/2023-07/2024.



## **5. ISE Awards**

Chaired and sponsored ISE prizes

### **I. ISE-Prize for Electrochemical Material Science**

The ISE-Prize for Electrochemical Materials Science is awarded annually to a young researcher for contributions in the field of electrochemical materials science, including corrosion, electrodeposition and surface treatment.

#### **1.a. ISE-Prize for Electrochemical Material Science I**

The ISE-Prize for Electrochemical Materials Science I is awarded annually to a young scientist for contributions in *the field of electrodeposition, materials corrosion and protection, surface treatments*.

The prize has been awarded to **Dr. Oumaïma Gharbi** from Sorbonne Université, Paris (France), for her significant achievements in the field of corrosion science. Her works include major innovative electrochemical characterisation techniques,

and her contributions also extend to the realm of fundamental electrochemistry.

#### 1.b. ISE-Prize for Electrochemical Material Science II

The ISE-Prize for Electrochemical Materials Science II is awarded annually to a young scientist for contributions in the field of electrochemical materials science for *energy conversion and storage, modified electrodes and/or electrocatalysis*.

The prize has been awarded to **Prof. Rebecca Pittkowski** from University of Copenhagen (Denmark), for her recent contributions in the understanding and development of high entropy alloy nanoparticles and electrocatalysts, key for sustainable energy technologies like fuel cells and water splitting.

#### II. ISE Elsevier Prize for Applied Electrochemistry

The Chair of Division 4 was in the selection committee for the ISE Prize for Applied Electrochemistry sponsored by Division 5.

The prize has been awarded to **Dr. María Arnaiz** from CIC energiGUNE, Álava (Spain), for her recent work on novel aqueous binders for supercapacitor electrode processing paving the way towards scalable energy storage systems.

Carmen Pérez  
(on behalf of ISE Division 4)