

Divisional activities for the period Sept 2018-Sept 2019

ELECTROCHEMICAL MATERIALS SCIENCE

Members: There are currently 1259 active members in Division 4

**Officers**

Chair: Monica Santamaria, Università di Palermo (Italy)



Past Chair: Giovanni Zangari, University of Virginia (USA)



Chair Elect: Vincent Vivier, CNRS at Sorbonne Université (Paris – France)



Vice-Chair: Chi-Chang Hu, National Tsing-Hua University (Taiwan)



Vice-Chair: Mikhail Vorotyntsev, M.V. Lomonosov Moscow State University.



1) Organization and co-organization of symposia at the 69<sup>th</sup> ISE Annual Meeting, 2 – 7 September, Bologna, ITALY (2018)

Symposia at 69<sup>th</sup> ISE Annual Meeting

S4 Bipolar Electrochemistry, from Bioanalysis to Materials Science (D1, D2, D4)

S7 Electrochemical Systems for Energy Conversion: Fuel Cells and Electrolysers (D1, D3, D4)

S10 Materials for and from Electrochemistry: State of the Art and Future Trends (D4, D6)

S11 Corrosion, Passivation, and Protection Strategies (D4)

S12 Electrophoretic Deposition of Functional Coatings: from Materials Science to Biotechnology (D4).

S13 Electrochemistry Applied to Cultural Heritage (D1, D4, D6)

S 21 General Session (All Divisions)

2) Co-organization with D5 of the 24<sup>th</sup> ISE Topical Meeting, in Merida, Mexico, April 7-10, 2019

“Electrochemical assembling at the meso, nano and molecular scale”

Co-organizers proposed by Division 4 include

Stanko Brankovic University of Houston, USA

Tom Breugelmans, University of Antwerp, Belgium

3) Organization and co-organization of 10 symposia at the 70<sup>th</sup> annual ISE meeting

S4 Renewable Energy and Photo-Electrochemistry (D3, D4, D6)

S 9 Electro-physical Chemistry and Application of Platinum Group Metals (D4, D5, D7)

S 10 New Concepts and Opportunities in Electrochemical Synthesis: Fundamentals, Methods and Applications (D4)

S 11 The Science, Technology and Engineering of Corrosion (D4)

S12 Electrochemical Technology for Water and the Environment for Social, Health and Economic Development (D4, D5)

S 13 Electrografting of Materials: from Fundamentals to Applications (D4, D6)

S 17 Electrochemical Technologies for Sustainable and Advanced Manufacturing (D4, D5)

S 18 Electrochemistry and Mining: Minerals and Metal Processing (D4, D5)

S 20 Carbon – A Starring Role in Electrochemistry (D4)

## S 21 General Session (all Divisions)

### 4) Sponsored meetings

Past sponsored meetings:

<https://www.ise-online.org/ise-sponsoring/past-sponsored.php>

Forthcoming sponsored meetings:

<https://www.ise-online.org/ise-sponsoring/sponsored.php>

### 5) ISE awards

Chaired and sponsored ISE prizes

- ISE-Prize for Electrochemical Material Science (Total 1000 Euro)  
The ISE-Prize for Electrochemical Materials Science is awarded annually to a young person for contributions in the field of electrochemical material science, including corrosion, electrodeposition and surface treatment.  
Recipient for 2019: Laifa Shen, Max Planck Institute for Solid State Research, Stuttgart, Germany
- ISE Elsevier Prize for Applied Electrochemistry  
The Chair of Division 4 was in the selection committee for the above ISE Prize.
- Recipient for 2019: Jiayan Luo, Tianjin University, Tianjin, China

### 6) Organization and co-organization of symposia for the 71<sup>st</sup> ISE meeting to be held in Belgrade

S3 Electrochemical conversion of CO<sub>2</sub>: Sensing, monitoring, mechanism and technological development (D1, D4, D5)

S 6 Advances in Microbial Electrochemistry for Energy Conversion, Biotransformation, Bioremediation and Electroanalysis (D1, D2, D3, D4)

S 10 Electrochemical and electroless deposition: tailoring growth from monolayers and nanostructures to functional applications (D4)

S 11 Corrosion and corrosion protection strategies (D4)

S 16 Two-Dimensional Materials: an Electrochemical Perspective (D4, D7).

S 17 Electroactive materials: polymers, inorganic solids, nanocomposites and hybrid materials (D4)

S18 Nanoelectrochemistry and electrocatalysis – from fundamentals to applications (D1, D7, D2, D3, D4)

S 21 Education and transmission of knowledge from the past to the new generations of electrochemists (All Divisions)

S 22 General Session (All Divisions).

#### 7) Scientific Meetings Committee

Monica Santamaria attended the Scientific Meeting Committee held in Lausanne on March 22, 2019.

**Prepared by Monica Santamaria on behalf of Division 4 October 15, 2019**