

Divisional activities for the period Sept 2019-Sept 2020

ELECTROCHEMICAL MATERIALS SCIENCE

Members: There are currently 1966 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 70th ISE Annual Meeting, 4 to 9 August 2019, Durban, South Africa (2019)

Symposia at 70th ISE Annual Meeting

Symposium 4

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

Symposium 9

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

Symposium 10

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

Symposium 11

The Science, Technology and Engineering of Corrosion (D4)

Symposium 12

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

Symposium 13

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

Symposium 17

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

Symposium 18

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

Symposium 20

Carbon – A Starring Role in Electrochemistry (D4)

Symposium 21

General Session (all Divisions)

2) Co-organization of the 26th ISE Topical Meeting, in Tainan, Taiwan, March 29-April 1, 2020
“Electrochemical Deposition for Semiconductor and Green Energy”

Unfortunately the meeting has been cancelled due to the Public Health Emergency caused by the diffusion of Corona Virus (2019-NCOV).

3) Organization and co-organization of 7 symposia at the 71st annual ISE meeting called “Belgrade Online”, since it was held on line.

Symposium 6

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

Symposium 10

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

Symposium 11

Corrosion and corrosion protection strategies (D4)

Symposium 16

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

Symposium 17

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

Symposium 18

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

Symposium 21

Education and transmission of knowledge from the past to the new generations of electrochemists (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 2020: Jilei Liu, College of Materials Science, Hunan University, Changsha (China).
- ISE Elsevier Prize for Applied Electrochemistry
The Chair of Division 4 was in the selection committee for the above ISE Prize.
Recipient for 2020: Sergio Garcia-Segura, Arizona State University (USA).

6) Organization and co-organization of symposia for the 72nd ISE meeting to be held in Belgrade

S2 Functional Surfaces and Electrochemically Active Materials: Preparation and Applications (D1, D4)

S12 Corrosion and corrosion protection (D4)

S10 Advanced Processes for Materials Recycling: from Batteries to E-Waste (D5, D4, D3)

S14 Electrochemical Technology for Process Intensification and Sustainability (D5, D4)

S15 Anodization and Its Applications in Environmental and Energy Research (D5, D4)

S23 Electrochemistry Knowledge transfer: from academy to Startup Company and Industries.

Prepared by Monica Santamaria on behalf of Division 4 October 8, 2020