

## Scientific Board

The members of the working party on the electrochemical engineering [https://efce.info/WP\\_EE.html](https://efce.info/WP_EE.html) of the European Federation of the Chemical Engineering, headed by Professor Bouzek Karel ([Karel.bouzek@vscht.cz](mailto:Karel.bouzek@vscht.cz)) and by Doctor Weidlich Claudia ([Claudia.weidlich@dechema.de](mailto:Claudia.weidlich@dechema.de))

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## 13<sup>th</sup> European Symposium on Electro-chemical Engineering



to overcome current societal issues on:  
Energy,  
Environment,  
Raw Materials,  
Pollution,  
Wastes Treatment,...

June 26<sup>th</sup> to  
June 29<sup>th</sup> 2023  
Toulouse, FRANCE

Announcement,  
Call for Papers

<https://13thesee2023.sciencesconf.org>



## Scientific Topics

- 1) 'New' Challenges of EE (Societal-Economic-Environmental Impacts, recycling and valorization, life cycle assessment ...)
- 2) Reduced scale and 3-D electrochemical Engineering (local electroanalysis,  $\mu/n$  reactors,  $\mu/n$  scaled architectures, new integrated processes coupling biology/electrochemistry...)
- 3) Energy conversion and storage (all areas: New Prospects, Lithium, Supercapacitors, Fuel Cells, Redox Flow Batteries, Biofuel Cells, Cells in connection with Renewable Energy Sources,...).
- 4) Electrochemical treatment of wastes-pollution abatement (organic/mineral/drugs, soils, dyes), Water treatment electrochemistry, CO<sub>2</sub> electromanagement,....
- 5) All areas of electrosynthesis (organic/ mineral/ molten salts/ ionic liquids/supercritical, bioelectro-syntheses), photo-electro-chemistry.
- 6) Electroseparations (Electrodialysis, Electrophoresis, ana/cata-phoresis, Electrocoagulation/ flocculation, capacitive deionization,....).
- 7) Electrodeposition-Electrocristallization-Electrochemical machining and applications (refining, recycling of the raw metallic materials, urban mining, surfaces treatment/modification...).
- 8) Design modelling and simulation of electrochemical devices.
- 9) New materials for electrochemical reactors and peripherals (transfers enhancers for electron, mass and heat, Electrode functionalization, Electrocatalysis, NEMCA, transfers in semi solid media,...).
- 10) Corrosion and Biocorrosion engineering.
- 11) Industrial problematics- Speakers from industries highly solicited.

**Not exhaustive list**

### Visit Toulouse:

<https://fr.dreamstime.com/photos-images/capitole-toulouse.html>  
<https://www.alamyimages.fr/photos-images/cathdrale-de-toulouse.html>  
<https://www.google.com/> (photos centre ville, pont neuf, toulouse)



## Scope

The 13th symposium, scheduled in Toulouse, France from Monday June 26<sup>th</sup> to Thursday June 29<sup>th</sup>2023, continues the tradition of European symposia on electrochemical engineering (ESEE) initiated in 1984 and organised by the Working Party on Electrochemical Engineering of the European Federation of Chemical Engineering (EFCE).

Beyond the traditional focus on "Design, optimization and modelling of electrochemical processes and tools", Electrochemical Engineering irrigates numerous scientific disciplines, governs various research fields and addresses a number of societal and industrial issues.

The 13<sup>th</sup> symposium focuses on the «Electrochemical Engineering as the key to overcome current societal issues on Energy- Environment- Raw Materials-Pollution/ Wastes Treatment,...».

We will be very pleased to welcome you to the 13<sup>th</sup> European Symposium on Electrochemical Engineering (13<sup>th</sup>ESEE2023). As a speaker, auditor, or exhibitor, it will be a great joy to:

- get to know you and those around you (coworkers, students, and your staff);
- listen to your oral or poster communications,
- to enable to you to discover the most recent developments and the latest innovations in electrochemical equipment and technologies.

This symposium expects:

- to enable to share the latest advances/knowledge of research in the field of the electrochemical engineering and the electrochemistry,
- to strongly promote fascinating discussions and fruitful exchanges on any electrochemical field,
- to stimulate the required synergy for the generation of multilateral research collaborations, between academic and/or industrial researchers, junior and/or senior, on any research and/or research and development related to electrochemistry and/or electrochemical processes.

## Time Table

### Registration deadline

- Early birds registration deadline: May 05<sup>th</sup>, 2023
- Participant and speaker registration deadline: May 05<sup>th</sup>, 2023
- Registration deadline: June 19<sup>th</sup>, 2023

### Abstract submission

- Submission deadline: March 31<sup>th</sup>, 2023
- Answer to the authors (after review: oral or poster issue): April 20<sup>th</sup>, 2023
- Definitive acceptance of the abstract (conditioned by the complete registration): May 05<sup>th</sup>, 2023

More information about the conference, pre-registration, registration and submission of abstracts will be provided on the web site:

<https://13thesee2023.sciencesconf.org>