CLOSING SESSION & CONCLUSIONS

Theme cimee25 : Advancing sustainability through Materials, Electrochemistry & Green Energy

7th International Symposium on Materials, Electrochemistry & Environment (CIMEE 2025)

25– 27 September 2025, Lebanon

Jointly Organised by

- Department of analytical Chemistry, Faculty of Pharmacy, Ankara University, Turkey .
- Center of Materials Technology and Photonics, Hellenic Mediterranean University, Heraklion, Crete, Greece
- Laboratory of Applied Chemistry & Environment, ENSA, University of Ibn Zohr, Morocco
- Laboratory of Environmental Engineering & Ecotechnology, ENIS, University of Sfax, Tunisia.
- Laboratory of Electrochemistry, LEIMCR, Faculty of Technology, University of Ferhat Abbas Sétif-1, Algeria

CLOSING SESSION

SEVENTH INTERNATIONAL SYMPOSIUM ON MATERILS, ELECTROCHEMISTRY & ENVIRONMENT

Septième Colloque International sur les Matériaux, l'Electrochimie et l'Environnement, CIMEE25

THE LARGEST GATHERING OF EXPERTS IN MATERIALS, ELECTROCHEMISTRY & ENVIRONMENT

The CIMEE research Group with many universities in Middle East, North Africa and Europe are pleased to invite you to participate in this edition, 7th International Symposium on Materials, electrochemistry and environment (CIMEE 2025). will be held on September 25-27, 2025 Lebanon (online event). Theme: Advancing sustainability through Materials, electrochemistry and green energy. Three-days international symposium devoted to the main scientific areas in Materials chemistry, Electrochemistry and environmental analytical chemistry

As for previous editions of CIMEE, the scientific committee will ensure the high quality and diversity of the scientific program together with the accessibility of the meeting to scholars, PhD/post-doc and local Master students. For the latter, an advantageous registration fee will be proposed. Moreover, a special session will be organised with renowned academic participants. The program will be designed to attract physical chemists both from academia and industry, and especially PhD students, postdocs and young researchers will have plenty of opportunities for exchange and discussion.

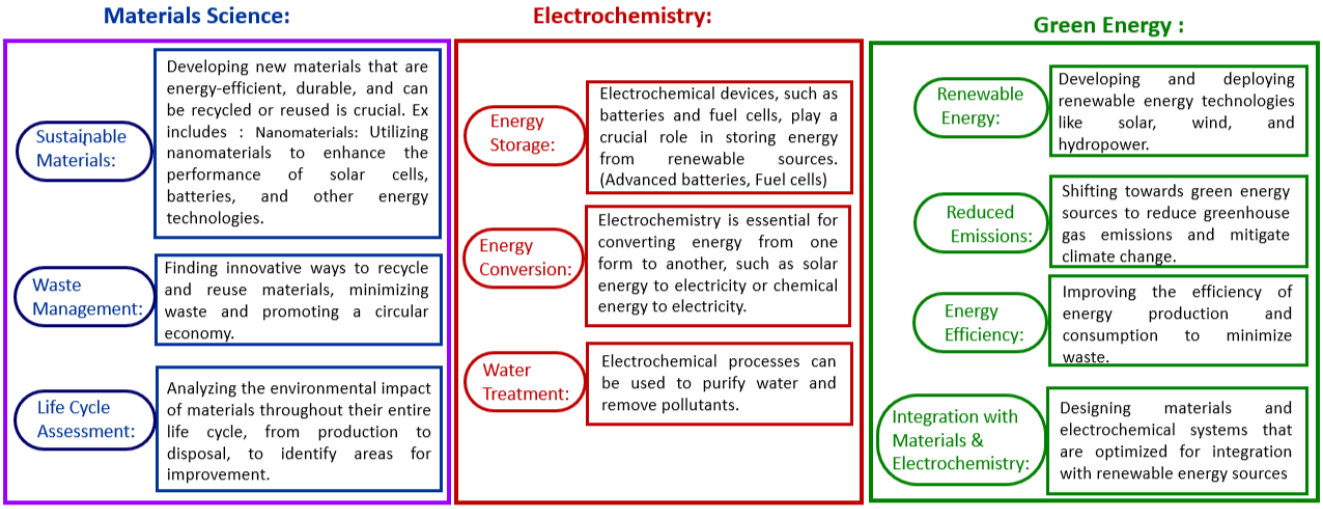
Septembre 25 – 27, 2025, LEBANON

CIMEE'25 TOPICS

- T 1. MATERIALS & THE ENVIRONMENT
- T 3. ATMOSPHERIC CHEMISTRY & ENVIRONMENTAL POLLUTION
- T 5. AGRO GEOENVIRONMENT, AGROCHEMISTRY & BIOGEOCHEMISTRY
- T 7. CLIMATE CHANGE, COASTAL & MARINE ECOSYSTEM

Theme : Advancing sustainability through Materials, electrochemistry and green energy

- T 2. ELECTROCHEMISTRY, BIOELECTROCHEMISTRY & ENVIRONMENT
- T 4. STRUCTURAL, ANALYTICAL & PHYSICAL CHEMISTRY
- T 6. BIIOTECHNOLOGY & PHYTOCHEMISTRY FOR ENVIRONMENTAL SUSTAINABILITY
- T 8. BIO-GREEN-ENERGY SCIENCE, WASTE TREATMENT & TECHNOLOGY



Advancing sustainability through Materials, Electrochemistry & Green Energy

Welcome Speech by El Moll, CIMEE25conference chair, on the Opening ceremony

Welcome Speech by El Moll on the CIMEE25 Opening ceremony

Dear attendees, esteemed researchers and friends,

welcome to this wonderful day, where we celebrate together the launch of the 7th International Symposium, CIMEE25.

Our world today faces multifaceted crises, exacerbated by pollution, the negative impacts of climate change, and global conflicts on the planet. In fact, the severity of effects caused by climate change depend primarily on the trajectory of human activities. It has become clear that Science, technology, and innovation are fundamental to addressing the world's environmental and climate challenges. Therefore, it is essential to highlight the role of materials science, electrochemistry, technology, and innovation in tackling these challenges, such as pollution, climate change, and the depletion of natural resources. This is why the theme for this edition CIMEE25 was chosen "Advancing Sustainability through Materials, Electrochemistry & Green Energy"

Our conference attracts a diverse audience, including researchers, scientists, academics and industry professionals, all coming together to exchange ideas and insights on the broad landscape of chemistry. From seasoned chemists to renowned electrochemists, from industry experts to eager learners, our gathering provides a platform for collaboration and exploration.

We explore a wide range of topics, encompassing materials chemistry, electrochemistry, analytical and bioanalytical chemistry, nanotechnology, and much more. We delve into discussions on the role of chemistry, electrochemistry, geochemistry, agriculture, and environmental sustainability in finding solutions to environmental problems, offering opportunities for learning, advancement, and development of solutions in areas such as solid waste, wastewater management and clean energy production.

This event serves as a leading platform for presenting and discussing research findings among colleagues, academics, and experts, thus contributing to the development of senior and young researchers' skills and encouraging their engagement in an active and interdisciplinary scientific environment. It also aims to strengthen collaboration between research laboratories and centers both within Lebanon and internationally. This conference, which seeks to foster a culture of scientific research, has gained increasing national, regional,

and international recognition over its previous editions, and this year witnessed broad participation from leading universities in Lebanon, the Middle East, and around the world.

A comprehensive program of presentations, workshops, and panel discussions will be tailored to diverse interests and experience levels. Through the theme chosen for this edition, we are interested in exploring the challenges and opportunities presented by technological advancements in materials chemistry, as well as the role of electrochemistry in environmental applications. In this way, the conference contributes to resource conservation and the reduction of carbon emissions as well as environmental pollution. Furthermore, participants will have the opportunity to present their latest research, establish collaborations, and explore innovative approaches to addressing global challenges.

Through the chosen theme of this edition, we would like to ask two questions:

1) How can we leverage this opportunity to discuss all available methods and processes for reducing carbon emissions, conserving natural resources, and addressing the pollution problems caused by solid waste and wastewater worldwide? Undoubtedly, we need a comprehensive approach that focuses on transitioning to a circular economy, investing in renewable energy, and implementing sustainable waste and water management practices.

2) How can we achieve sustainability through the application of materials science, electrochemistry, and green energy technologies? The answer can be summarized in 3 key points:

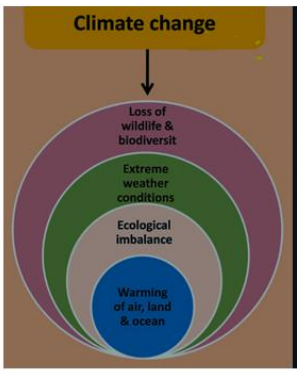
i) Materials science, electrochemistry, and green energy are converging to drive sustainability by enabling cleaner energy production, efficient storage, and environmental remediation. Recent advancements highlight the critical role of electrochemical technologies in carbon capture, water purification, and the production of green hydrogen and ammonia, all essential for a low-carbon future.

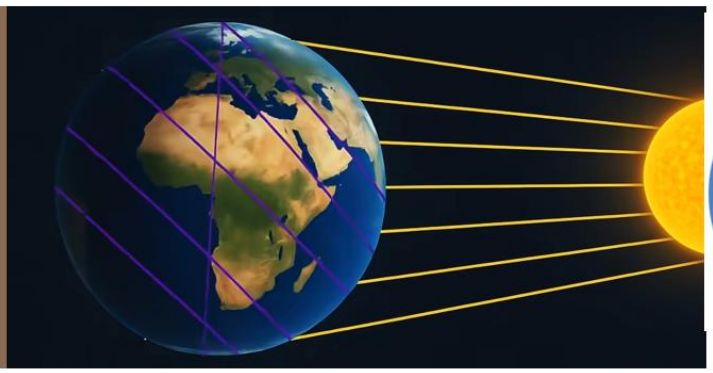
ii) Furthermore, Electrochemical innovations are pivotal for environmental sustainability, offering efficient and adaptable solutions for water treatment, carbon capture, and the electrochemical valorization of pollutants, thereby supporting a circular economy. Moreover, the development of advanced electrode materials and electrocatalysts is crucial for improving the efficiency of processes like electrochemical water treatment, CO2 reduction, and hydrogen production.

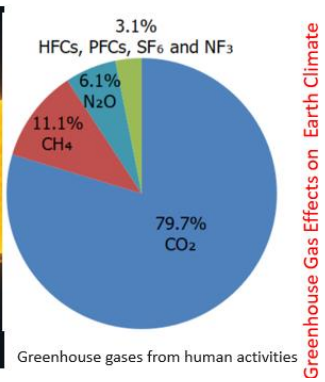
iii) Finally, green energy technologies are central to achieving sustainability by reducing reliance on fossil fuels and mitigating climate change. Key solutions include especially biomass energy. The Biomass energy is a key component in achieving sustainability through green energy technologies, offering a renewable and versatile resource derived from organic materials such as agricultural residues, forestry by-products, organic waste, and sludge. This renewable energy source can be converted into heat, power, and biofuels using various technologies, including combustion, gasification, pyrolysis, anaerobic digestion, and fermentation, which are crucial for reducing dependence on fossil fuels and mitigating climate change. Recent advancements in biomass conversion technologies have significantly improved efficiency and output. Innovations in bioreactor design, biocatalysts and nanotechnology have boosted biofuel and bioenergy production.

It is my honor to express my gratitude to all partners as well as everyone who contributed to making our project a reality, whether through planning, implementation, or by offering suggestions, support, and advice. I wish you all success and good fortune in the proceedings of this conference, and we hope that its decisions and recommendations will reflect the significant responsibility we all share to ensure a better life and a cleaner environment for the Middle East, the Mediterranean region, and the world

Good luck







Earth Overshoot

Overshoot contributes to

Consequences of Overshoot

- Deforestation
- Water Scarcity
- Soil erosion Loss of biodiversity
- Increased GHG emissions

Diminish the planet's ability to absorb carbon dioxide, exacerbating climate change.

The planet can be **saved** by using technology and innovations solutions

Achievement of the Sustainable Development Goals (SDGs) & Environmental, Social, and Governance

By developing

(i) sustainable materials can help accelerate our efforts to decarbonize energy sector

(ii) Environmental sensors that can monitoring the pollution & evaluating impact on the ground.