

GUEST SPEAKERS

Plenary

Unni Olsbye: "From CO₂ to hydrocarbons - the oxygenate approach"

Mircea Dincă: "MOFs in the Catalytic Production of Commodity Chemicals"

Pedro Luis Arias: "An important challenge for catalysis: Hydrogen as a new energy vector"

Keynote

Blaž Likozar: "Integration of Renewables, Hydrogen and E-fuels: Where Electrification, Intensification and Digitalisation Meet"

Oleksandr Savateev: "Heterogeneous Carbon Nitride Photocatalysis for Organic Synthesis"

María Dolores Hernández Alonso: "Renewable Hydrogen Production Technologies – Challenges and Perspectives"

KEY DATES

November 2023:

Abstracts submission is open.

March 7th 2024:

Registration is open.

March 15th 2024:

Deadline for reception of abstracts.

May 2nd 2024:

Notification of abstracts acceptance.

May 15th 2024:

Deadline for early registration (reduced fees).

July 21st-23rd, 2024:

CCESC 2024.

VENUE

CCESC 2024 will be held in **Bizkaia Aretoa** exhibition and conference building. It is located in one of the most emblematic parts of Bilbao, open out onto the estuary and the Guggenheim Museum.

**ADDRESS: Avenida Abandoibarra, 3
48009 Bilbao, Spain.**

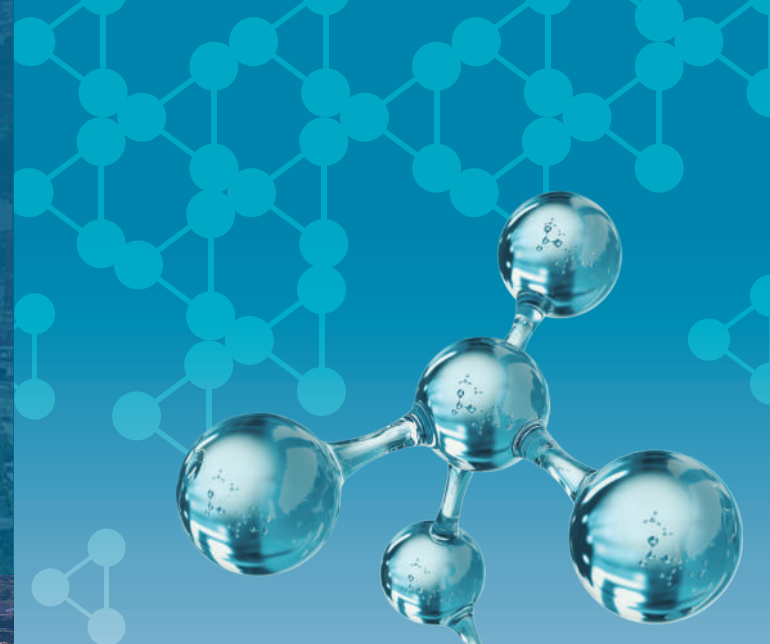


CONTACT

✉ info@ccesc2024.com

All the current information on the conference is available on the web site of the symposium:

<http://www.ccesc2024.com>



20 Bilbao
24 Spain
July 21st-23rd

CCESC

"5th International Symposium on Catalysis for Clean Energy and Sustainable Chemistry"

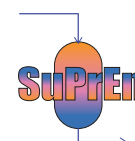
ORGANIZING INSTITUTIONS

emana ta zabalaz

Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

BILBOKO
INGENIARITZA
ESKOLA
ESCUELA
DE INGENIERÍA
DE BILBAO



Sustainable PRocess ENgineering
Ingeniería de Procesos Sostenibles

SCOPE OF THE SYMPOSIUM

The Organizing Committee cordially invites you to participate in the International Symposium on Catalysis for Clean Energy and Sustainable Chemistry to be held in Bilbao, Spain, from 21st to 23rd of July, 2024. The spirit of the Organizing Committee of this International Symposium is to organize an encounter between worldwide academic and industrial scientists with interest in the application of catalysis to the Sustainable Development. This symposium will help to review the present state of the art of these technologies and to discuss future directions, and of course, how they can positively revert in the development of the society.

SCIENTIFIC PROGRAM

Scientific program will consist of invited lectures and keynotes, about 40 oral presentations and an estimate of 80 posters. This symposium will be organized around the following topics:



TOPIC 1:

Catalytic processes for hydrogen production and valorization.

- Hydrogen and biosyngas production and transformation (PtG, FTS, Methanol, DME, e-fuels...).
- Hydrogen storage and transport.
- Fuel Cells and Electrolyzers.

TOPIC 2:

Biorefinery catalytic processes.

- Chemo-catalytic processes for the valorization of biomass and bio-wastes.
- Thermo-catalytic process for waste valorization into bio-fuels and bio-products.
- Strategies for the transformation of platform chemicals.
- Techno-economic and Life Cycle Analysis of catalytic processes.

TOPIC 3:

New catalyst development and study of reaction mechanisms.

- Synthesis and characterization of advanced catalysts.
- Heterogeneous catalysts for environmental applications (e.g. water and air treatment).
- Mechanistic studies and development of kinetic models.

TOPIC 4:

Novel trends in catalysis.

- Innovative reactors and process intensification.
- Water or Carbon Dioxide activation.
- Electro and photocatalysis.

CALL FOR CONTRIBUTIONS

Authors are invited to submit an abstract following the indications on the website www.ccesc2024.com, **before March 15th 2024**. Acceptance of submitted abstracts will be based on the Scientific Committee recommendation.

PUBLICATION OF CONTRIBUTIONS

Contributions selected by the Scientific Committee at the CCESC2024 conference will be published as a Special Issue (entitled "New Trends in Catalysis for Clean Energy and Sustainable Chemistry") at **Catalysis Today (Q1)** under peer-review scheme.

ORGANIZING COMMITTEE

Prof. Dr. Pedro L. Arias, UPV-EHU.

Prof. Dr. V. Laura Barrio, UPV-EHU, Treasurer.

Dr. Jesus M^a Requies, UPV-EHU, Co-Chair.

Dr. Iker Aguirrezabal, UPV-EHU, Co-Chair.

Dr. Iñaki Gandarias, UPV-EHU, Secretary.

Dr. Sergio Rojas, ICP-CSIC.

Prof. Dr. Pedro Maireles, Univ. Málaga.

Dr. Rafael Mariscal, ICP-CSIC.