ABBES LAGHROUR UNIVERSITY OF KHENCHELA

FACULTY OF SCIENCES AND TECHNOLOGY

DEPARTMENT OF PROCESS ENGINEERING

LABORATORY OF BIOCOMPOSITES, BIOMOLICULES, SURFACES TRAITEMENT AND WATER TRAITEMENT

THE FIRST NATIONAL CONFERENCE ON:

Application of Modern Process Engineering Techniques Through a Future Vision that Achieves Sustainable Development (NC-AMPETSD'25)

November 04, 2025, in Khenchela, Algeria

-Hybrid Conference-

WELCOME TO NC-AMPETSD'25

We are delighted to extend our invitation to the 1st National Conference on Application of Modern Process Engineering Techniques Through a Future Vision that Achieves Sustainable Development (NC-AMPETSD'25), This event will unite a diverse community of attendees passionate about the latest scientific and technological advancements in these fields.

ABOUT THE CONFERENCE

This scientific event will be organized on November 4, 2025, in Khenchela, Eastern Algeria, the conference will serve as a dynamic platform researchers, academicians, and industry experts to exchange knowledge and present their latest advancements in **the application of new technologies in process engineering**.

Don't miss the chance to join us at NC-AMPETSD'25. Expand your knowledge, establish meaningful relationships, and delve into new dimensions within these fields.

Topics of interest include, but are not limited to the following :

Polymers and Composite Materials

Polymers and composite materials are essential classes of materials widely used in modern engineering and manufacturing. Polymers are long-chain molecules made from repeating units called monomers, and they can be natural (like cellulose) or synthetic (like polyethylene). They offer advantages such as low weight, corrosion resistance, and flexibility. Composite materials, on the other hand, are engineered combinations of two or more different materials—typically a polymer matrix reinforced with fibers —to achieve superior mechanical properties like strength, stiffness, and durability. These materials play a critical role in aerospace, automotive, biomedical, and construction industries due to their tunable properties and performance benefits.

Electrochemistry

Electrochemistry is the branch of chemistry that studies the relationship between electricity and chemical reactions.

It focuses on processes where electrons are transferred between species, such as in redox (reduction-oxidation) reactions. Electrochemical systems include batteries, fuel cells, and electrolysis setups, where chemical energy is either converted to electrical energy or vice versa. This field is crucial for energy storage, corrosion prevention, metal plating, and environmental remediation, making it foundational to both industrial applications and sustainable technologies.

Modeling and artificial intelligence

Modeling and artificial intelligence (AI) are powerful tools used to simulate complex systems and make data-driven decisions across various scientific and engineering fields. Modeling involves creating mathematical or computational representations of real-world processes to predict behavior and optimize performance. AI, particularly through machine learning, enhances modeling by identifying patterns, learning from data, and improving predictions without being explicitly programmed. Together, they enable more accurate forecasting, process optimization, and automation, playing a vital role in areas like materials science, energy systems, and environmental monitoring.

Renewable Energies

Renewable energies are sources of energy derived from natural processes that are continuously replenished, such as sunlight, wind, water flow, and geothermal heat. Unlike fossil fuels, renewable energy technologies produce little to no greenhouse gas emissions, making them essential for combating climate change and promoting environmental sustainability. Common forms include solar panels, wind turbines, hydroelectric dams, and bioenergy systems. The shift toward renewable energy is transforming the global energy landscape by providing cleaner, more sustainable, and increasingly cost-effective alternatives to conventional energy sources.

Abstract Submission

An extended one-page summary is required via: nc-ampetsd25@univ-khenchela.dz

Or

https://cmt3.research.microsoft.com/NCAMPETSD2025/

Important Dates

Abstract Submission Deadline : October 10, 2025.

Notification of Acceptance/Rejection : Before October 15, 2025.

Confirmation of Participation : Before October 20, 2025.

Registrtion : Before October 22, 2025.

FEES

TEACHERS	**6000 DA**
PHD STUDENTS	**4000 DA**
INDUSTRIALISTS	**12000 DA**

Conference Date : October 28, 2025

Laboratory of BioComposites, BioMolicules, Surfaces Traitement and Water Traitement

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