

People's Democratic Republic of Algeria
 Ministry of Higher Education and Scientific Research
 University TAHRI Mohammed of Bechar, Algeria
 Faculty of Exact Sciences
 Laboratory for the Development of Renewable
 Energies and their Applications in Saharan Areas
 (LDERAS)



Organize

The 3rd National Conference on Renewable Energy, Photovoltaic Materials and Devices



17 - 18
November 2025

Presential mode only

(Online presentations are not scheduled)

<https://ncrepvmd2025.e-monsite.com/>

or mail to: nc-repvmd@univ-bechar.dz



The Laboratory of the Development of Renewable Energies and their Applications in Sahara Areas (LDERAS) in partnership with the Faculty of Exact Sciences of the University of TAHRI Mohamed Bechar, organizes the 3rd version of the National Conference on Renewable Energy, Photovoltaic Materials and Devices, to be held in Bechar, Algeria, on November 17-18, 2025. This conference aims to bring together academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Renewable Energy systems, Photovoltaic materials and Devices. It also offers a leading interdisciplinary platform for presenting and discussing recent innovations, trends, challenges, and solutions in these fields.

Authors are invited to submit original research papers in Arabic, English, or French via the following platform:

<https://cmt3.research.microsoft.com/NCREPVMD2025>

Conference language: Arabic, English, or French.

Similarity rate: the similarity index must not exceed 30%

Important dates	
Paper submission deadline	September 30, 2025
Acceptance notification	October 15, 2025
Camera ready and registration	November 1, 2025
Conference date	November 17-18, 2025

Conference fees	
Regular participant	8 000 DZD
PhD student	4 000 DZD
Others	12 000 DZD

These fees Registration fee: Covers only participation.
 Accommodation is not included.

The 3rd NC-REPVMD conference will feature invited talks, oral presentations, and poster sessions organized around the following four thematic areas:

1. Materials and Technologies for Solar Cells

- Silicon-based solar cells (monocrystalline, polycrystalline, amorphous)
- High-efficiency solar cells (III-V compounds, multijunction, concentrated PV)
- Organic, dye-sensitized, and Perovskite solar cells
- Emerging materials and concepts for photovoltaic devices

2. Thin Films and Materials Engineering

- Deposition and characterization of thin films for photovoltaic
- Growth techniques: Sol-Gel, Sputtering, CVD, etc.
- Structural, optical, and electronic properties of materials
- Surface and interface passivation

3. Renewable Energy Systems and Management

- Hybrid renewable energy systems
- Size optimization and energy management strategies
- Smart grid integration, energy storage, and control
- Microgrids and off-grid applications
- Artificial Intelligence in Renewable Energy

4. Modeling, Simulation and Characterization of PV Devices

- Modeling and Numerical Simulation of PV panels and systems
- Electrical, Optical, and Thermal Characterization techniques
- Reliability, Aging, and Performance degradation of PV modules
- Fabrication and Testing of photovoltaic prototypes



The 3rd National Conference on Renewable Energy, Photovoltaic Materials and Devices

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Pr. DENNAI Benmoussa
Director of LDREASA
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