

JET'2022

NOVEMBER 16TH – 18TH
2022
MARRAKESH - MAROC



JET'2022

International Congress
for Applied Mechanics

November 16th – 18th
2022
Marrakesh - Morocco

<https://jet2022.sciencesconf.org>

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in collaboration with



JET'2022

International Congress for Applied
Mechanics



The 11th edition of the Technical Study Days (JET'2022) will be held in Marrakech, from November 16 to 18, 2022, as part of collaboration between the Franco-Maghreb Association of Mechanics and Materials (AF3M) and the Moroccan Society of Mechanical Sciences (SMSM). It will review the research and applications of mechanical sciences and materials contributing to sustainable development and environmental protection in three aspects: research, training and industry.

The real benefits of these innovations relate to the major industrial sectors of energy, transport, mechanical industries, water and waste treatment, as well as the agri-food and living industries. Mechanical sciences and materials will, in the coming years, be fundamental elements of a major technological change necessary to meet the challenges of sustainable development. The emergence of renewable energies, the importance of the energy transition, the extension of the operating life of equipment and industrial installations, already committed to major equipment such as nuclear and power plants or refineries are the perfect example. It is therefore necessary to put more and more knowledge into the design, production and operation of equipment by massively using artificial intelligence.

At the same time, the evolution of materials based on biomimetics or bio-based materials will influence many industrial sectors by their mechanical, electrical, phonic and thermal properties. Currently, bio-composites are increasingly used in several industrial sectors (mechanical, building, aeronautic) for their biodegradability, their lightness, and their exceptional resistance, very important assets in order to reduce the impact of industrial products on the environment. The main idea being to take advantage of local materials in order to save transport, better availability at suitable costs.

The role of research in this strategy is fundamental to enable this energy of the future to become a key element of the energy transition. Indeed, several obstacles and scientific challenges must be overcome: the production, storage, transport and conversion of hydrogen.

THE THEMES SELECTED FOR JET'2022

- **Theme 1:** Design / Optimization / Lightening / Lifetime and integrity check
- **Theme 2:** Materials / Production processes / Recycling and Life Cycle
- **Theme 3:** Renewable Energies / Energy saving / monitoring of equipment, Artificial Intelligence
- **Theme 4:** Bio-sourced materials/Eco-materials/Eco-Design
- **Theme 5:** Hydrogen in production, storage, transport and conversion

OFFICIAL LANGUAGE: ENGLISH AND FRENCH

INSTRUCTIONS TO AUTHORS

The communication proposal will include:

- The title of the communication, the names of the authors, their affiliation, their email and postal addresses
- Key words in French
- The theme of the days to which the communication relates

The author will highlight the original nature of the research or industrial development work.

SCHEDULE DATES

- April 30th, 2022: first call for papers.
- June 30th, 2022: online submission of the communication in the congress website - maximum 6 pages
- August 30th, 2022: deadline for communication submission. Communications Review
- September 15th, 2022: acceptance notification, oral or poster presentation.
- September 30th, 2022: compulsory confirmation of attendance at the congress and final registration.

IMPORTANT INFORMATION

We inform the authors that only the communications presented to the JET2022 by one of the authors (Oral or Poster) will be published in the collection of communications.

REGISTRATION

After acceptance, the author must register at JET'2022 to ensure the publication of his communication in the proceedings

THE BEST SELECTED COMMUNICATIONS MAY BE PUBLISHED BY THE EDITOR SPRINGER

FEES

- The registration form is to be completed on the site when submitting the contribution:

150€ for researchers from the Maghreb

300€ for industrialists and researchers outside the Maghreb.

- (Fees includes registration, proceeding, lunches and coffee breaks)