

Spring Training School "TOTEMIC"

APRIL 20th – 26th 2025

Institut d'Études
Scientifiques de
Cargèse, Corsica

TOOLS FOR ENERGY MATERIALS MODELLING ACCELERATION

TOPICS

- ✓ **AI in Materials Science:** Empower colleagues with knowledge of AI challenges in materials science.
- ✓ **Accelerated Discovery:** Explore new numerical methods for rapidly discovering materials for energy transition applications.
- ✓ **Evolving Numerical Tools:** Enhance numerical tools (DFT, molecular dynamics, finite elements) through AI contributions.
- ✓ **Optimizing Databases:** Leverage AI tools to optimize the use of materials science databases.



SPEAKERS

Dr. Joshua Berry, Univ. of Sheffield, UK
Pr Silvana Botti, Ruhr Univ. Bochum, De
Pr Katerina Christofidou, Univ. of Sheffield, UK
Dr Alessio Comisso, ORACLE, S
Pr Michael Eikerling, RWTH Aachen Univ., De
Dr Arthur France-Lanord, CNRS, F
Pr. Pascal Friederich, KIT, De
Pr James Kermode, Univ. of Warwick, UK
Pr Ole Martin Løvvik, Univ. of Oslo, No
Ass. Pr. Alexandre Nominé, Univ. de Lorraine, Fr
Dr. Ing. Ozlem Ozcan, BAM, De
Dr Roberta Poloni, CNRS, F
Pr Kevin Rossi, TU Delft, NL

Info & Registration

<https://eu-mace.eu/event/4908:training-school-2025-totemic.html>

Contact

TOTEMIC-2025@proton.me

APPLICATION - The Training School will take place from **April 20 to 26, 2025** and can accommodate up to **60 participants**. Interested PhD students and post-docs are invited to send us by January 30, 2025 at the latest, to the contact address, a CV and a brief letter of motivation specifying:

- 1) The subject of their current research;
- 2) Their expectations with regard to this Spring School.

Registration will be confirmed by the end of Feb 2025 at the latest.

Thematic school - TOTEMIC aims to explore the critical role of materials science in the ecological transition and raise awareness within the scientific community about the new paradigm of AI integration in materials development. This event will delve into the intersection of materials science, artificial intelligence, and multi-scale modeling. Attendees will gain insights into the latest advancements in energy conversion, storage, and high-performance materials, as well as strategies for maximizing the utility of data generated in materials science, adhering to the FAIR principles. This school is primarily designed for PhD students and postdocs, but it also welcomes senior researchers seeking to incorporate AI and data-driven approaches into their work. **Poster sessions to share ideas and foster discussions between trainees and trainers will be also organized. Participants are warmly welcomed to contribute.**



Venue - The Institut d'Etudes Scientifiques de Cargèse is located in Corsica, in an enchanting setting by the sea. The relatively isolated site has all the facilities required for our activities (accommodation and catering for morning and lunchtime, seminar rooms, amphitheater, full audio-visual equipment, wifi, indoor and outdoor relaxation areas) and encourages group cohesion. Transport is provided to and from Ajaccio airport, as well as to and from the village of Cargèse for evening meals (taken together in a local restaurant). For further details: <https://iesc.universita.corsica/>



Organizing & Scientific committees

Pr. D. Lacroix, UL, F
Dr. S. Nakamae, CEA-Saclay, F
Dr. G. Fugallo, CNRS, F
Dr. K. Termentzidis, CNRS, F
Pr. T. Kyratsi, Univ. of Cyprus, CY
Dr. R. Garcia Mayo, CIEMAT, Spain
Pr. A. Pereira Gonçalves, Univ. of Lisboa, P
Dr. S. Merabia, CNRS, F
Pr. I. Galanakis, Univ. of Patras, GR
Pr. R. Iglesias, Univ. of Oviedo, S
Dr. J. Pakarinen, VTT, FIN
Pr. T. Karakasidis, Univ. of Thessaly, GR

Registration - **Registration for TOTEMIC TS is free of charge.**

The accommodation fee (371€/pers. for a shared room by 2 persons) includes **mandatory** lodging at the IESC from Sunday evening to Saturday morning, airport transfers, lunches from April 21 to 25, and the gala dinner. Evening meals are not included neither accommodation outside of IESC campus. Participants from industry are kindly requested to contribute a sponsoring fee of 200€ (suggested amount) per person to support award delivered at the end of the week.

A total of 25 scholarships will be offered to PhD students and post-doctoral fellows selected by COST EU-MACE and CNRS, covering the accommodation.