



2nd EDITION OF THE SUMMER SCHOOL “HYDRIDES FOR ENERGY STORAGE”

Hôtel Chateaubriand

12 Pl. Chateaubriand, 35400 Saint-Malo

Website: <https://mh2024.org/summer-school>

Local organizers: Romain MOURY and Mickaël MATEOS
(CNRS-UPEC/ICMPE)

24-25 May 2024,
Saint-Malo, France



Romain.moury@cnsr.fr

Mickael.mateos@cnsr.fr



Announcement

We are pleased to announce our upcoming Summer School focusing on Hydrogen/Energy Storage Materials and Characterization Techniques for these materials,

Registration Information

Free for PhD Students: we are offering free registration for 40 doctoral students (hotel not included), registered at MH2024. Selection will be based on the submission of your CV and a motivation letter, to be sent to the organizers. The deadline for the application is the 1st of March, and the final decision will be communicated by the 15th of March.

Lectures

12 lectures will be given, by international expert in their field, organized in 3 sessions: **1.** Materials for Hydrogen Storage, **2.** Characterization Techniques and **3.** Industrial perspectives.

- **Talk 1:** Overview on Hydrogen Storage Materials (Martin DORNHEIM)
- **Talk 2:** Modeling Hydrogen-Metal Systems with the Calphad Method (Jean-Marc JOUBERT)
- **Talk 3:** Hydrides for Energy Storage and Chemical Conversion (Ping CHEN)
- **Talk 4:** Porous Materials for Hydrogen Storage (Petra-Agota SZILAGYI)
- **Talk 5:** Industrial Perspectives of Metal Hydrides for Hydrogen Storage (Young Whan CHO)
- **Talk 6:** Liquid Organic Hydrogen Carriers – Optimizing Properties to Enable Large Scale and Long Duration Energy Storage (Tom AUTREY)
- **Talk 7:** Life Cycle Assessment and Life Cycle Costing of Hydrogen Storage Systems (Paola RIZZI)
- **Talk 8:** Metal Hydrides for Energy Storage (Valérie PAUL-BONCOUR)
- **Talk 9:** Modelling and Machine Learning for Hydrogen Storage Materials (Sanliang LING)
- **Talk 10:** Structural Characterization, ex- in situ Diffraction and PDF analysis (Kouji SAKAKI)
- **Talk 11:** Industrial perspective of complex hydrides for battery applications (Rana MOHTADI)
- **Talk 12:** Challenges in Determining Sorption Properties in Metal Hydrides (Erika Michela DEMATTEIS)



Time	Friday, May 24 th		Saturday, May 25 th	
9h – 9h30	Registration/Welcome coffee		Session 2	Talk 6
9h30 – 10h				Talk 7
10h – 10h30			Opening remarks	
10h30 – 11h	Introduction	Talk 1	Session 1	Talk 8
11h – 11h30	Lunch		Lunch	
11h30 – 12h	Session 1	Talk 2	Session 2	Talk 9
12h – 12h30		Talk 3		Talk 10
12h30 – 13h	Coffee break		Coffee break	
13h – 13h30	Session 1	Talk 4	Session 3	Talk 11
13h30 – 14h	Session 3	Talk 5	Session 2	Talk 12
14h – 14h30	Free time		Closing remarks	
14h30 – 15h	Diner			
15h – 15h30				
15h30 – 16h				
16h – 16h30				
16h30 – 17h				
17h – 17h30				
17h30 – 18h				
18h – 18h30				
18h30 – 19h				
19h – 19h30				