

Scientific day program

- 8:50 Welcoming of participants
9:00 Opening ceremony - Michel Latroche
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Session 1 - Chair : Fannie Le Floch

- 9:10 **Clément D'hondt (3rd year, MCMC)**
Cyclic Plasticity of a TWIP steels
- 9:30 **Vierajitha Srikanthan (3rd year, SPC)**
Novel bi-porous and bio-inspired polymeric materials: synthesis and characterization
- 9:50 **Farah Daili (1st year, ESO)**
Carbin-hetero bond formation by electrochemical approach, application to the synthesis of biologically active aromatic compounds
- 10:00 **Jorge Montero (3rd year, CMTR)**
Hydrogen Storage Properties of Multi-Principal Element Alloys based on Refractory Elements
- 10:20 **Ghada Asskar (3rd year, ESO)**
Methododology of synthesis in series-aromatic aza. Application to the study of structure- neuronal toxicity relationship
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10:40-11:20 Coffee break - Poster pitches - session 1

Session 2 - Chair : Yanlong Zhou

- 11:20 **Bérengère Evin (3rd year, CMTR)**
Metal tritides aging modeling, application to palladium tritide
- 11:40 **Marion Le Gal (3rd year, SPC)**
Exploration of the marine microbial biodiversity for the production of Polyhydroxyalkanoates and design of new MRI-visible PHA-based biomaterials
- 12:00 **Antoine Lacour-Gogny-Goubert (3rd year, MCMC)**
Development and study of refractory complex concentrated alloys for aeronautic application
- 12:20 **Tania Xavier (3rd year, ESO)**
Bioresources-based organic synthesis: use of solketal and methyl coumalate
- 12:40 **Dauren Batyrbekuly (3rd year, GESMAT)**
Mechanistic investigation on hybrid Zn/V₂O₅ rechargeable battery using a binary Li⁺/Zn²⁺ aqueous electrolyte
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13:00-14:00 Lunch - Buffet

Session 3 - Chair : Lamia Rebiai

- 14:00 **Thomas Rieger (3rd year, MCMC)**
Study of microstructural and mechanical properties of compositionally complex alloys called “High Entropy Alloys”
- 14:20 **Nour Mattar (3rd year, SPC)**
Development of bio-based composite materials for sustainable construction: structure-properties relationship
- 14:40 **Gautier Huser (3rd year, MCMC)**
Study of the elaboration of high entropy material from powder
- 15:00 **Quoc-Bao N'guyen (3rd year, SPC)**
Elaboration of porous biosourced epoxy resins for civil engineering and characterization of physicochemical, thermomechanical and acoustic properties

15:20-16:00 Coffee break - Poster pitches - session 2

Session 4 - Chair : Maxime Dottor

- 16:00 **Lamia Rebiai (1st year, CMTR)**
Nanostructured Fe₂O₃ electrode materials for the photoelectrochemical oxidation of urea in wastewaters
- 16:10 **Laura Brelle (1st year, SPC)**
Seawater based Biotechnology for Bioplastic Production and Application
- 16:20 **Yanlong Zhou (1st year, GESMAT)**
The chemistry of Nitride for the storage of energy
- 16:30 **Malak Alaa Eddine (1st year, SPC)**
Transport in hydrogel foams – host mechanics and drug delivery
- 16:40 **Clémence Tafani (1st year, MCMC)**
Study of elementary deformation mechanisms of multi-component metallic alloys (high-entropy alloys) with a body centered cubic structure
- 16:50 **Thi Dieu Hien Phan (1st year, SPC)**
Synthesis of new multivalent stimuli-responsive polymer therapeutic
- 17:00 Presentation and poster Awards + Group photo
- 17:10 End of scientific day

Poster sessions

- n°1 **Abou Diack Rasselio (2nd year, CMTR)**
Thermoelectric properties of self-substituted Fe₂VAl alloys
- n°2 **Anna Benarosch (2nd year, MCMC)**
Carbide precipitation during tempering in a model Fe-C-Mo bainitic steel
- n°3 **Diara Diatta (2nd year, ESO)**
Pharmacochimistry and Structural Analysis of metabolites of Terminalia macroptera and Néocarya macrophylla
- n°4 **Liu Wang (2nd year, CMTR)**
Study of interaction between hydrogen and ultra-dispersed metal for heterogeneous catalysis
- n°5 **Fannie Le Floch (2nd year, SPC)**
Redox-responsive nanocapsules chitosan/DNA: from thiolated chitosan to kidney-targeted DNA nanocarriers
- n°6 **Maxime Dottor (2nd year, CMTR)**
Thermodynamic assessment of the chromium-hydrogen system
- n°7 **Ankush Bhatia (2nd year, GESMAT)**
A new insight in the redox mechanism involved during the delithiation/lithiation of spinel materials provided by Raman spectroscopy
- n°8 **Sirine Kabadou (2nd year, CMTR)**
The study of rare earth and transition metals effects on the evolutions of magnetic properties of ZrTe₃O₈:2%Yb, 5%Mn ceramics
- n°9 **Louise Breloy (2nd year, SPC)**
Photo-polymerization of bio-sourced monomers for antibacterial applications
- n°10 **Anna Celeste (2nd year, CMTR)**
The effect of the pressure on species confined in hybrid materials
- n°11 **Roberto López Munoz (student exchange, SPC)**
Electrospun fibers from poly(methyl methacrylate-co-methacrylic acid) loaded with zinc oxide nanoparticles: towards devices for anticancer therapy
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