

# 5th Doctoral Day - PROGRAM

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**8h45 - Welcoming coffee + poster arrival**

**9h00 - Opening speech of Pr. P. MIELE and presentation of YoChin (C. Oberlin)**

## **Session 1: Chairs C. Oberlin & J. Jouannaux**

**9h20**

**Habib Belaid**

3D printed scaffolds for bone tissue engineering applications

**9h30 - Flash communication**

**Carole Barou**

Design of calcium phosphate based cement for bone regeneration and drug delivery

**Syreina Alsayegh**

Ceramic Membranes Elaboration for photocatalytic applications

**Ghenwa El Chawich**

3D printing of a new generation of structured non-oxide polymer derived ceramics

**Nazym Tuleushova**

Acceleration of H<sub>2</sub> production: Development of nanocatalysts for the selective electrooxidation of glycerol coupled with the production of molecular hydrogen in aqueous media

**9h50**

**Sara Kawrani**

Studying CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> behavior after adding the boron nitride nanosheets

**10h00 - Coffee Break – Poster Session 1**

## Session 2: Chairs: M. Harguindeguy & D. Alligier

**10h20**

**Marianne Benoit**

Design of self-oscillating membranes

### 10h30 - Flash communication

**Hana Bouzit**

Synthesis and study of the self-assembly of linear ABC terpolymers in order to elaborate innovative asymmetric membranes

**Gbenro Folaranmi**

Set up, evaluation and optimization of flow capacitive deionization for desalination process

**10h40**

**Enrique Folgado**

Synthesis and Self-Assembly of PVDF based Amphiphilic Block Copolymers

**10h50**

Présentation parcours CPE ENSCM – **Pr. Florian Monnier**

**11h00**

**Julien Jouannaux**

Development of porous structures and dense membranes based on perovskite materials for thermochemical production of solar fuels

### 11h10 - Flash communication

**Quentin Hanniet**

Electrocatalytic activity of graphene-based-Si(B)CN composites

**Kevin Turani I Belloto**

Amine-borane adducts and B-C-N materials for reversible hydrogen storage

**11h20**

**Carlos Castilla Martinez**

Synthesis of boranes as potential hydrogen storage materials

**11h30**

**Theatre – TAUST**

**12h00**

**Lunch Break - Poster Session 2**

## Session 3: Chairs: A. Schmitt & Q. Hanniet

**13h30**

**Rui Yu**

Dynamic CMCS-based hydrogel and the application

**13h40**

**Maria Di Vicenzo**

Highly Permeable and Selective Reverse Osmosis Membranes incorporating Artificial Water Channels

**13h50 - Flash communication**

**Libo Huang**

Design, synthesis and mechanism of the transport through artificial water channel AWCs systems

**Dmytro Strilets**

Artificial water channels

**14h00**

**Cyril Oberlin**

Indirect additive manufacturing of ceramic cores

**14h10**

**Mohammad Medlej**

Development of water-based adhesive from the aqueous extract of onion plant

**14h20**

**Feedback: ex-PhD – Guest**

**14h45**

**Gabriela Vollet-Marson**

Valorization of brewer spent yeast through enzymatic hydrolysis and membrane fractionation

**14h55**

**Qazi Sohaib**

Post-Combustion CO<sub>2</sub> Capture with Room Temperature Ionic Liquid Coupled With Membrane Contactor

**15h05 – Flash communication**

**Louis Cornette de Saint-Cyr**

Optimizing a new way for biological reduction of CO<sub>2</sub>

**15h10**

**Marine Harguindeguy**

Enzymatic removal of micropollutants in water with new bio-based immobilization supports

**15h20**

**Sher Ahmad**

Tetracycline degradation in water by enzymes immobilized on silica monoliths

**15h30 Coffee break – poster**

## Session 4: Chairs: C. Castilla Martinez & A. Ruiz Valencia

**15h45**

**Maya Abdallah**

Influence of Polyacrylamide Hydrogel Stiffness on Podocyte morphology, protein expression and mechanical properties

**15h55**

**Tianji Ma**

Conical track-etched nanopore for a free-label detection of OSCS contaminants in heparin

### 16h05 – Flash communication

**Alice Schmitt**

Oxidation of micropollutants using membrane contactors for the diffusion of ozone

**16h10**

**Duc Trung Tran**

Elaboration of anti-fouling photocatalytic composite polymer-TiO<sub>2</sub> membranes

**16h20**

**Zoukifli Amadou Yacouba**

Zero-discharge advanced treatment for a safe and sustainable urban wastewater reuse

**16h30**

**Gauthier Bousquet**

Elaboration of new superhydrophilic polymeric membranes in order to perform water / oil separation in effluents

**16h40**

PhD investigation survey – **Dr. G. Lesage**

**17h00**

Jury's deliberation & awards

**17h30**

Closing speech - **C. Oberlin**

JDD Afterwork at the IEM

**19h30/20h**

Let's take some drinks together in Montpellier center to celebrate this PhD day!