

# EDT-CHIM Scientific PhD Day

Date: Friday 26th January 2024

Location: University of Liège – Sart Tilman  
Exedre Dick Annegarn (B8)

## PROGRAM

09.15-09.45 Registration (+ poster installation)  
09.45-10.00 Introduction by Prof. Loïc Quinton (EDT-CHIM Spokesperson) & Prof. Gentiane Haesbrouck (Dean of the Science Faculty at ULiège, President of the FNRS Doctoral School Commission)

### **SESSION 1** Chair: Prof. Loïc Quinton (ULiège)

10.00-10.50 **KL 1 Prof. Thibault Gendron (ULiège)**  
*Taming the Radiations: When Chemists Unite to Harness the Power of Radioactivity and Advance Biomedical Sciences*

10.50-11.10 **OC 1 Julie Jiang (ULB)**  
*Interactions of Ru(II) Polypyridyl complexes with G-quadruplexes: Insight of ligand chelation site into telomeric binding*

11.10-11.30 **OC 2 Thomas Habets (ULiège)**  
*Dynamic N,S-acetal chemistry: toward recyclable CO<sub>2</sub>-based thermosets*

11.30-11.50 **OC 3 Lou D'haese (UNamur)**  
*Raman optical signatures of cryptophanes derivatives*

11.50-12.10 **OC 4 Romain Christiaens (UCLouvain)**  
*Development of new co-fermentation strategies based on the enzymatic activities of lager and ale yeasts to enhance polyfunctional thiol release from glutathionyl and  $\gamma$ GluCys-precursors*

12.10-12.50 **Lunch** Poster session (odd numbers)  
12.50-13.30 Poster session (even numbers)

### **SESSION 2** Chair: Dr. Damien Sluysmans (ULiège)

13.30-14.20 **KL 2 Prof. Guillaume Vives (Sorbonne Université, Paris)**  
*Functional molecular machines: from switchable molecular tweezers to cyclodextrin-based information ratchets*

14.20-14.40 **OC 5 Maxime Ledent (ULiège)**  
*AFM Exploration of Individual Molecular Rotors: Probing Motion and Decoding the Impact of Molecular Design*

14.40-15.00 **OC 6 David Dellemme (UMons)**  
*Molecular Modeling of Single-Chain Nanoparticles as Enzyme Mimetics*

15.00-15.20 **OC 7 Liuxi Yang (UNamur)**  
*Non-covalently synthesis of porous organic salts*

15.20-16.00 Coffee break

<b>SESSION 3</b>	<b>Chair: Prof. Hennie Valkenier (ULB)</b>
16.00-16.20	OC 8 Levy Van Leuven (UMons) <i>Effect of Stabilizers on Iron Oxide Nanoparticles Polyol Synthesis by Flow Chemistry</i>
16.20-16.40	OC 9 Antonin Engel (UCLouvain) <i>Silica-supported gold-palladium plasmonic nanoparticles for catalysis in continuous flow</i>
16.40-17.00	OC 10 Alessia Fantoni (ULB) <i>Advancing di-carboxylate detection in aqueous environments: development of Zn(II)-salophen based plasmonic nanosensors</i>
17.00-17.20	OC 11 Renato Olarte Hernandez (UNamur) <i>Simulating Vibronic Structures using quantum computer algorithms by Doktorov formulae</i>

17.20-18.30 Conclusions & drinks