

26th Doctoral School of Chemical Sciences Day

WHERE

Agora, Domaine du Haut-Carré
43 rue Pierre Noailles, Talence

WHEN

Thursday, **March 21st**, 2024
8:30 am – 6 pm



Oral presentations - **3rd year** PhD students



Poster sessions - **2nd year** PhD students



Presentation from the **SCF**
Round table on the well-being

Plenary talk

« *Improving the processability of
dynamic covalent networks* »



Dr. Damien MONTARNAL

CR CNRS | Catalysis, Polymerisation, Processes and
Materials Laboratory (**CP2M**) – Université de **Lyon**



École doctorale
Sciences chimiques

université
de **BORDEAUX**

Schedule on <https://doctorat.u-bordeaux.fr/avant-le-doctorat/les-ecoles-doctorales/SC>

26th Doctoral School of Chemical Sciences Day

21st of March, 2024

Morning

8:30 am

Opening speech by
representative of the Université
de Bordeaux

10:00 am

Coffee break

10:15 am

2nd Year poster session
(session n° 1→37)

8:45 am

3rd Year oral presentations

9:45 am

Presentation from the SCF

11:30 am

Round table on the well-being

12:15 pm Lunch

Afternoon

2:00 pm

Plenary talk by Dr. Damien
Montarnal
« *Improving the processability of
dynamic covalent networks* »

4:00 pm

2nd Year poster session
(session n° 38→75)

3:00 pm

3rd Year oral presentationsc

5:15 pm

Presentations of students
associations : **Adoc** and **Aquidoc**

3:45 pm

Coffee break

5:30 pm

Award ceremony and closing

Poster 2nd Year PhD students – morning session

N°	First Name	Surname	Laboratory	Poster Title
1	Natacha	Bessouet	LCTS	The Thermal-Gradient Chemical Vapor Infiltration Process: Assessment of Chemical Kinetics and Infiltration Quality Criteria
2	Carine	ASSAF	CBMN	Development of Atomic Force Microscopy related modes for the study of plasma membrane repair
3	Justine	COUVEZ	ISM/LCPO	Nanovectors for temperature -and light- activated release of therapeutic actives and monitoring by magnetic resonance imaging
4	Zoi	GANOSIS URIBEZUBIA	ISM/LCPO	Synthesis of covalent dynamic network basec on NHC-borane units
5	Romain	Hello	CRPP	Development of electrostatic polymer complexes for the local and controlled release of actives
6	Guillaume	GERMAN	LCTS	Evolution of ceramic matrix composites in a geological storage environment
7	Lucile	Cluzeau	ISM/LCPO	Polyethylene deconstruction and functionalization through C-H activation
8	Agathe	Zanon	CRPP/LCPO	Electrostriction in self-assembled structures of block copolymers for sensing and energy harvesting
9	Eleonore	KUREK	ISM	Light harvesting and enhanced emission in core-shell dye-based fluorescent organic nanoparticles
10	Jackie	Burghart	LOF	Tunable rheological behavior of ionomer dispersions via formulation
11	Mingshan	CHI	LOF	Microviscosity measurement of complex fluids in microfluidic channel by molecular rotors
12	Louis	AMBROISE	ISM	Photocatalyzed radical additions to ynamides. Application to the total synthesis of Leuconotis alkaloids.
13	Gabrielle	Lacroix	CRPP	Formulation of porous chemically curable Silicone for kidney surgery training
14	Insaf	GAALICH	ISM/ICMCB	Innovative recycling process of lithium-ion batteries: using LCA for eco-design and benchmarking
15	Enmanuel	DUARTE ANAYA	ICMCB	Supercritical ionothermal relithiation of Li _{1-x} (Ni _{0,6} Mn _{0,2} Co _{0,2})O ₂ positive electrode materials for Li-Ion Battery Direct Recycling
16	Thomas	DARDE	LCPO	A short overview of polymerization strategies to install degradable motifs in vinylic polymer backbones.
17	Edison	JIMENEZ	CRPP	Photoswitchable azobenzenes-nucleotide coacervate droplets as a step towards membrane-free protocells
18	Josianne	OWONA	ISM	Investigating pressure-sensitive mechanoluminescent properties through a QM/MM hybrid scheme
19	Clara	PIERSSON	CBMN	Mechanisms of membrane-induced tau aggregation
20	Clément	Desgoulières	LCPO	Synthesis of new biobased polyamides with intrinsically flame retardant properties
21	Elena	Daufresne	LCTS	Investigation on RT mechanical behaviour of intermetallic-based compounds for aerospace applications
22	Léonie	Beaupère	CBMN/IBGC	Development of Bioenergetic Hybrid Artificial Cells
23	Luca	Caponecchia	LCPO/ISM	Synthesis of metal-free semiconducting polymers via organocatalysis: sustainable materials for renewable energies
24	Bilal	Erradhouani	ISM/LCPO	How to account for plastic leakage from food packaging in Life Cycle Assessment ?
25	Alexandra	Doussot	ISM	Ex situ generation of ¹⁸ O ₂ and ¹⁷ O ₂ from endoperoxides for ¹⁸ O-labelling and mechanistic studies of oxidations by dioxygen
26	Etienne	Bequet-Ermoy	ISM	Metal-free biaryl synthesis using boranes
27	Marion	DOSANTOS	CRPP/ICMCB	Synthesis of piezoelectric (TMA)[FeCl ₄] and integration into a polymer composite
28	Wanmai	Srisuwanno	ISM/NSysA	Autonomous chiral metal-motors for enantioselective synthesis
29	Ruchao	Gao	ISM/NSysA	Spatial Precision Tailoring the Catalytic Activity of Graphene Monolayers for Designing Janus Swimmers
30	Grégoire	Boé	ISM	Quantitative in situ analysis of complex fluids by co-localized IR/Raman spectroscopy for the study of the chemistry of hydrothermal vents
31	Gwendoline	Bourdon	ISM/EPOC	Hygroscopic properties of organic aerosols of atmospheric interest - Study at the single particle scale
32	Ivone Marselina	NUGRAHA	ICMCB/LCPO	Inorganic-polymer composite materials at the positive electrode of Li all solid state batteries
33	Laura	VIAUD	ISM	Dynamics of hydrogen interaction on tungsten surfaces
34	Ana	GORSE	CBMN	Characterization of antipsychotic interactions with the lipid membrane
35	Nejma	RABHI	CBMN	Impact of lipids on the dynamics and heteromerization of the dopamine D2 receptor
36	Léon	Rembotte	CRPP/LP2N	Real-Time Microfluidic Screening of Organoids
37	Guillaume	Gimenez	ISM/NSysA	Biomimetic mussel adhesive-inspired made by self-coacervation of polyampholytes

Poster 2nd Year PhD students – afternoon session

N°	First Name	Surname	Laboratory	Poster Title
38	Valentin	Marot	LCPO	Enhancing controlled drug release with g-benzyl-L-glutamate-based polypeptides
39	Zirui	Fan	CRPP	A novel pathway for colloidal patchy particles
40	Anaïs	LUTON	CBMN	Structure-guided design of macrocyclic peptide inhibitors of the bacterial sliding clamp of Gram-negative bacteria
41	Mathieu	Bonnardel	ICMCB	Development of multimaterial fibers using the stack& draw process to create high temperature gas micro-sensors
42	Sarah	Nieto	LCPO	Biodegradable polymersomes as controlled drug delivery system for the treatment of neurodegenerative diseases
43	Rosanna	Le Scouarnec	ARNA/LCPO	Thermoresponsive lipopolypeptide towards controlled aggregation on liposome surface
44	Guanlan	ZHAO	ICMCB	Beyond Capacity: Unveiling the superiority of O6-Type Lithium-Rich Layered Oxide as a Positive Electrode Material with Controlled Transition Metal Dynamics
45	Zidouhia	Doha	ISM/LCPO	Photoinduced transformation of N2 into nitrogen-containing functional groups and fuels
46	Vivien	Willems	CRPP	Phase-separation dependent active motion of Janus lipid vesicles
47	Cindy	LEMAIRE-MATHIS	ICMCB	Millifluidic approaches for the study of formose reaction in prebiotic thermo-hydro-geochemical systems of deep hydrothermal vents
48	Kevin	Peyraud-Vicré	ARNA/CRPP	New Insights to Chemistry of Life: Bio-inspired Organocatalysis in aqueous droplets
49	Matthieu	Soula	CRPP	Self-assembly of triplex forming DNA coated colloidal particles
50	Eugénie	Pariente	ICMCB/LOMA	Controlled Design of M-SCs Nano-Heterodimers by Laser Photodeposition (M = Metal or Metal Oxide and SC = Semiconductor)
51	Anne-Lise	De Abreu	ISM/LCPO	Photochemical recycling of polystyrene waste
52	Leslie	ARIAS-ARANDA	ISM/NSysA	Imaging of single objects by electrochemiluminescence
53	Yupei	Ma	LCPO	Self-assembled polypeptides: towards biomimetic piezoelectric materials
54	Razane	El ANNAN	CBMN	Investigating the influence of particulate matter PM2.5 on human bronchial epithelial cells by Confocal Raman microscopy
55	Huili	WANG	ISM	Non-noble-metal based catalyst Cu2S@GaBr3 for highly efficient conversion of terminal alkynes and propargylic amines with CO2 under atmospheric pressure
56	Clara	Pioger	ICMCB/CEA	Urea-assisted synthesis of Rare Earth Oxides nanopowders for Solid Oxide Electrolyser Cell
57	Wilson	De OLIVEIRA	CRPP	Towards Glassy Columnar LC Matrices for Anisotropic TADF
58	Thinh	TRUONG	ICMCB	Topotactic fluorination of intermetallics to get novel superconducting and magnetic materials
59	Henri	Coste	ICMCB	Modulation of the nanoparticles "Protein Corona" by tailoring their surface chemistry
60	Emilie	Viaud	ISM	A Kinetic Dynamic Epimerization Approach towards Highly Enantioenriched Selenoxides
61	Marie	Gouteron	ISM/UPV	Synthesis of Chiral Brønsted superacids based on [6]- and [7]-helicenic diols
62	Adrien	Denizet	ISM/INCIA/IMN	Total synthesis of Securinega alkaloids and study of their biological activities
63	Yann	Bourdeau	CBMN	New LED-activated RF-based nanomaterials for applications in anticancer photodynamic therapy
64	Antoine	BREZAULT	CRPP/ISM	Multi-responsive Supramolecular PNIPAM microgels
65	Lilian	Saryeddine	CBMN	Diazirine-conjugated phospholipids for the design of photosensitive liposomes
66	Valentin	Demaille	CBMN	The role of cream maturation in butter fabrication process
67	Julien	Castets	ICMCB	Engineering visual appearance in thin film surfaces using correlated disordered structuration
68	Suraj	NAYAK	ICMCB	WO3-x nanostructures as plasmonic electrochromic materials for dual-band VIS-NIR modulation
69	Henri	Barry	ARNA	Chemical modifications and self-assembly of oligonucleotides to fight against resistance to anti-infective drugs
70	Monike	Da Silva Kutz	CRPP	Non-symmetric twisted core for discotic liquid crystals with delayed fluorescence and persistent room temperature phosphorescence
71	Emmanuel	Idowu	ICMCB/CRPP	Mechanistic study of Si particle formation via environmental TEM and preparation of highly resonant Si@Au particles
72	Romuald	Frugier	ICMCB	Promising stable oxygen electrode for SOEC applications
73	Quentin	STEMBAUER	ISM/ICMCB	Organic and metallo-organic photosensitizers for photoelectrochemical cells based on semiconductor of delafossite structure for sustainable hydrogen production
74	Rita	BORGES ANASTÁCIO	ISM/IECB	Functional oligomeric helices as new tools for probing molecular and supramolecular chirality on chiral surfaces and interfaces
75	Yue	Yu	LCPO	Structural and dynamical properties of polymer coacervates and application to the sequestration of model biomolecules.