


Tuesday, June 15 th		Wednesday, June 16 th		Thursday, June 17 th		Friday, June 18 th					
9h	 <p>Balard Chemistry Conférences 15-18th June 2021 Montpellier (France)</p>	9h			9h						
9h15		9h15	S.VAN VLIERBERGHE, Ghent University, Versatile biomaterial platform: from photo-crosslinkable bioinks to shape memory polymers	9h15	F. BABONNEAU, Sorbonne University, Solid-State NMR: a powerful tool to characterize hydroxyapatites	9h15	P. SIMON, Toulouse III University, Electrochemistry at the nanoscale: understanding ion adsorption/transfer in electrodes for energy storage applications				
9h30		9h30			9h30						
9h45		9h45			9h45						
10h00		10h00	M.L. FOCARETE, University of Bologna, Functional 3D-nanofiber-hydrogel composites for biomedical applications		10h00	N. STEUNOU, University of Versailles Saint-Quentin, Design of porous composites by assembling MOFs with (bio)macromolecules or carbon based materials for environmental related applications					
10h15		10h15	K. BELABES, IBMM, Design of hybrid peptide / polymer nanofibers for soft tissues regeneration	W. WANG, IEM, Covalent Functionalized MoS ₂ Membranes with Tunable Layer Spacing for Molecular Sieving	10h15	R. GUTIÉRREZ-CLIMENTE, IBMM, Biomimetic protein imprinting on magnetic particles using amino acid-based hybrid blocks	F. REN, IEM, Artificial nucleation sites and the study of solvation structures in electrolytes for Lithium metal batteries	10h15	T. LALIRE, IMT Mines Alès, Chemical modification impact of graphene or graphite in conductive nanocomposite morphology control	S. ALSAYEGH, IEM, Design of advanced photocatalytic materials by Atomic Layer Deposition (ALD)	
10h30		10h30	T. BROSSIER, ICGM, Hybrid polymer biomaterial for tissue engineering scaffold using stereolithography	J. CASETTA, IEM, Graphene Oxide (GO) assisted polymeric hollow fibers membranes for water purification	10h30	B. MEZGHRANI, IBMM/ICGM, Periodic mesoporous ionosilica nanoparticles for green light photodynamic therapy and photochemical internalization of siRNA	J. LIZION, ICGM, ¹²⁵ Te NMR structural investigations coupled to NMR shift prediction suitable for Te containing crystalline materials	10h30	Y. FOUCAUD, ICSM, Hydration mechanisms of uranium dioxide (UO ₂): new insights from ab initio molecular dynamics simulations	F. CUMINET, ICGM, Catalyst-free transesterification vitrimers: the power of fluorine to activate bond exchanges	R. OYE AUKE, ICSM, Synthetic methodologies and study of thermosetting resins obtained from biobased and/or non-toxic compounds for the recovery of critical metals
10h45		10h45	Amphi. Mousseron		10h45	Amphi. Mousseron		10h45	Amphi. Mousseron		
11h00		11h00	Break		11h00	Break		11h00	Break		
11h15		11h15			11h15			11h15			
11h30	11h30	M. BARBOIU, CNRS, Artificial Water Channels-toward Biomimetic Membranes for Desalination		11h30	F. CUNIN, CNRS, Porous silicon, a biodegradable semiconductor for nanomedicine		11h30	S. LEMOUZY, ICGM, Understanding the synthesis and reshaping of fluorinated polyester vitrimers: a kinetic study			
11h45	11h45	J. BEN GHOZI-BOUVRAND, ICSM, Liquid porous nanomaterials for liquid-liquid extraction	L. DHELLEMMES, IBMM, Optimizing intact protein separation using capillary electrophoresis	11h45	T. AUBERT, ICGM, Cage-derived mesoporous silica nanomaterials	K. WANG, ICSM, Analysis of ion correlation in silica nanochannels: Molecular dynamics of ion distribution and potential of mean force	11h45	Award ceremony of the best poster			
12h00	12h00	D. STRILETS, IEM, Synergistic self-assembly of alkylureido systems into artificial water channels	M. GROSJEAN, IBMM, Design of degradable elastomers and hydrogels for the conception of bioresorbable anti-inflammatory patches	12h00	L. SIMON, ICGM, Polyoxazolines nanofunctionalizations towards an effective antioxidant delivery to prevent skin cancer	S. LARBAOUI, ICGM, Iron and/or titanium containing microporous Silico-aluminophosphates as a novel photocatalyst for hydrogen production by water splitting process	12h00	L. DESMURS, ICGM, Determination of porous surfaces and volumes in mesoporous zeolites for catalytic valorization of methylmercaptan co-olymers in solution		M. SEMSARILAR, IEM, Preparation of well-defined 2D-lenticular aggregates by self-assembly of PNIPAM-b-PVDF amphiphilic diblock copolymers in solution	
12h15	12h15	A. FATNASSI, ICGM, Carbon aerogels as catalysts supports for hydrogenation reactions of organic molecules	Y. A. GUECHE, ICGM, Selective laser sintering of solid oral dosage forms with Copovidone and Paracetamol using a CO ₂ laser	12h15	C. BAROU, IEM, Fabrication of injectable calcium phosphate cements containing polymer microspheres for drug delivery	G. FOLARANMI, IEM, Influence of NaCl concentration on the desalination performance of carbon based flow electrode	12h15	Q. WANG, ICGM, First evidence of size-dependence on structure transition of gold nanoparticles under H ₂ by combined in situ HRTEM and AIMD simulations		S. ALDROUBI, ICGM, Task-specific ionic liquids for the synthesis of functional carbonaceous materials	
12h30	12h30			12h30			12h30	B. CHAUDRET, INSA Toulouse, Organometallic Nanoparticles for Magnetically Induced Catalysis			
12h45	12h45			12h45			12h45	Balard Conferences CLOSING			
13h00	13h00	Lunch		13h00	Lunch		13h00				
13h15	13h15	Amphi. Mousseron		13h15	Amphi. Mousseron		13h15				
13h30	13h30	On-site registrations		13h30	Amphi. Mousseron		13h30				
13h45	13h45	Amphi. Mousseron		13h45	Amphi. Godechot		13h45				
14h00	14h00			14h00			14h00	Health session			
14h15	14h15	G. HADZIOANNOU, University of Bordeaux, Solid-state electrocaloric cooling, from materials to devices		14h15	A. MAIGNAN, Normandy University, (Magneto)thermopower and thermal conductivity in oxides and sulfides		14h15	Environment session			
14h30	14h30			14h30			14h30	Energy session			
14h45	14h45			14h45			14h45				
15h00	15h00	Inauguration of "Pôle Chimie de MUSE"		15h00	C. CHANEAC, Sorbonne University, Conceptual architectonic of luminescent nanoparticles for optical imaging and temperature sensing		15h00				
15h15	15h15	K. ŚWIRK, ICGM, Low-temperature selective catalytic reduction of NO by NH ₃ over HKUST-1 catalysts impregnated with Mn	C. PECHBERT, ICGM, Alloys negative electrode for Mg-ion/S batteries	15h15	Q. HANNIET, IEM, Si(β)CN/rGO composites as an electrocatalyst for Hydrogen Evolution Reaction (HER)	M. CAHU, ICGM, A systematic rational study of the influence of the insertion of Mn ²⁺ in Prussian blue nanoparticles on their photothermal properties	15h15				
15h30	15h30	H. BOUZIT, IEM, Synthesis and self-assembly of double stimuli-responsive polystyrene-block-poly(2-vinylpyridine)-block-poly(N-isopropylacrylamide) triblock terpolymers	L. ABBASSI, ICGM, Cumulative effects of stacking faults and nanostructuring on thermoelectric properties of Bi-FeSi ₂	15h30	R. MIGHRI, ICGM, Reversible H ₂ storage via BCN	A. SERHOUNI, IBMM, Development of novel strategies to target DNA methylation and histone acetylation in cancers	15h30				
15h45	15h45	G. DAKROUB, IEM, Organosilicon PECVD films for BTEX gases detection	K. ATA, ICGM, Crystallographic and DFT investigation of weak CH...O hydrogen bonds in as-synthesized zeolitic materials	15h45	F. DUQUET, IEM, Modified titanium oxide for green hydrogen production by electro-photocatalysis	N. BONDON, ICGM, Nanodiamond-based organosilica nanoparticles for two-photon imaging and antibacterial photodynamic therapy	15h45				
16h00	16h00	Break		16h00	Break		16h00				
16h15	16h15	Balard Conferences OPENING		16h15	Amphi. Mousseron		16h15	Amphi. Godechot			
16h30	16h30			16h30			16h30				
16h45	16h45	R. PELLENQ, George Washington University, Carbon-cement nano-composite electrodes: science and applications to reduce the ecological footprint of concrete by giving it new functionalities	R. SEMINO, University of Montpellier, Modelling of MOF/Polymer Composites: From Compatibility to Performance	16h45	R. BERTHELOT, CNRS, Shuffling alkali ions in layered transition metal oxides: crystallochemistry challenge and possible applications		16h45				
17h00	17h00	P. JIUND, ICGM, Defects and their influence on the thermoelectric properties of materials: an ab initio study	M. FABBIANI, ICGM, Porous materials for hybrid functional nanocomposites: metal and organic nanowires confined in zeolites and mesoporous silica	17h00	A. SZYMASZEK, AGH University of Science and Technology, Catalytic activity of natural clinoptilolite and MWW-type zeolite modified with iron in selective catalytic reduction of nitrogen oxides with ammonia (NH ₃ -SCR)	S. DAAKOUR, IEM, Dynamer-liposome dynamic system for drug delivery	17h00				
17h15	17h15	N. TULEUSHOVA, IEM, Au AND Au-Ag Electrocatalysts for glycerol oxidation and co-production of hydrogen	G. EL CHAWICH, IEM, 3D printing of a new generation of structured polymer derived ceramics	17h15	K. B. CERVANTES DIAZ, IEM, Design of mesoporous SiC membranes from polymeric precursors for water filtration	L. DARRONNAT, ISEC, What news on the plutonium-cadmium variants interaction at molecular scale?	17h15				
17h30	17h30	M. DUER, University of Cambridge, Heavy mice and lighter things: using solid-state NMR to explore the structure of tissues in health and disease	P. DA COSTA, Sorbonne University, CO ₂ methanation over V-promoted hydrotalcite-derived nickel catalysts for CO ₂ methanation: on the effect of the catalyst preparation method	17h30	K. BUYUKSOY, IMT Mines Alès, Improvement of mechanical and microstructure of Poly(lactic acid) based blends for biomedical applications	J. EL HAYEK, IEM, Synthesis, functionalization and 3D printing of bioceramics for bone engineering	17h30				
17h45	17h45	C. OBERLIN, IEM, Elaboration of silica ceramics by indirect additive manufacturing and aqueous gelcasting	T. PELLUUAU, ICGM, Encapsulation of bio-inspired Mn complexes in mesoporous silica nanoparticles with improved biocompatibility for the regulation of oxidative stress	17h45	J. SCHNEIDER, ICGM, Polyacid-functionalized mesoporous materials: synthesis and evaluation of the performances in heterogeneous catalysis	M. VINCENT, ICGM, In vitro and in vivo evaluation of antioxidant formulations to treat Macular Degeneration	17h45				
18h00	18h00	Poster session		18h00	M. FANG, IEM, Polymer assisted MOF synthesis and membrane preparation	E. GULCAY, ICGM, From high-throughput computational screening to experimental validation for siloxane adsorption in MOFs	18h00				

Informations
<https://balard-conferences.fr>

Contact
contact@balard-conferences.fr

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- CCB 2021 POSTERS SESSION -

A digital poster session is also available on balard.live.
Enjoy the short videos which summarise each poster presented in the list!

Energy

- PC1/ **Martin DROBEK**, IEM - Synergistic effect of Pd nanoparticles and mof membranes on nanowires hydrogen sensors
PC2/ **Mathilde DUFOUR**, ICGM - Synthesis of new π -conjugated molecules for organic solar cells
PC3/ **Jordan GARO**, ICGM - π -conjugated materials from biosourced precursors
PC4/ **Elizabeth MAKOMBE**, ICSM - Malonamides for the multi-recycling of nuclear spent fuel
PC5/ **Aydin OZCAN**, ICGM - How MOF/polymer interfacial void shape/size affect the gas permeability of mixed matrix membranes
PC6/ **Ludvine POYAC**, ICGM - Catalytic properties of porphyrins bearing peripheral n-heterocyclic carbene rhodium complexes
PC7/ **Kiran TAKSANDE**, ICGM - Exploration of guest@MOFs as proton conductors
PC8/ **Qing WANG**, ICGM - Stability of Pt-single atom catalysts (saas) dispersed in transition-metal surfaces under hydrogen pressure at various temperatures
PC9/ **Huali WU**, IEM - Enhancing the C^{2+} production from the electrochemical reduction of CO_2 using functionalization

Environment

- PC10/ **Shadi AL-NAHARI**, ICGM - Investigation of the more environment-friendly solvent-free approach for the syntheses of zeolites
PC11/ **Dimitri BERNE**, ICGM - Catalyst-free epoxy vitrimer based on transesterification internally activated by β -CF₃ group
PC12/ **Florian CUMINET**, ICGM - Catalyst-free transesterification vitrimers: the power of fluorine to activate bond exchanges
PC13/ **Dandan SU**, IEM - Polyamine dynamic frameworks as activators of carbonic anhydrases
PC14/ **Sophie HERR**, ICSM - Contribution of ultrasound in the depollution of heavy metals from vermiculite clay
PC15/ **Bonito KARAMOKO**, IEM - Nanocomposite membranes based on polymere/exfoliated 2D materials obtained by pickering emulsion
PC16/ **Céline POCHAT**, IEM - Open innovation test bed for nano-enabled membranes
PC17/ **Wael RMILI**, Sfax University, Tunisie - Study of mechanical properties of Reverse Osmosis (RO) membranes under operating conditions
PC18/ **Bamlak SETEGNE**, ICGM - Development of transparent bipolar membrane for photoelectrochemical conversion of CO_2
PC19/ **Agnieszka SZYMASZEK**, AGH University of Science and Technology, Poland - Natural clinoptilolite modified with iron or/copper as an effective catalyst of selective catalytic reduction of nitrogen oxides with ammonia (NH_3 -SCR)
PC20/ **Fida TANOS**, IEM - Calcium copper titanate based nanocomposites for the photoelectrocatalytic wastewater treatment

Health

- PC21/ **Laura ARSENIÉ**, ICGM - New nucleobase derived polymers for self-assembled DNA-inspired architectures
PC22/ **Nicolas BONDON**, ICGM - Nanodiamond-based organosilica nanoparticles for two-photon imaging and antibacterial photodynamic therapy
PC23/ **Maeva COSTE**, IBMM - Cell-selective siRNA delivery using glycosylated dynamic covalent polymers self-assembled in situ by RNA-templating
PC24/ **Bénédicté FROMAGER**, IEM - 3D membranes of electrospun fibers for cell therapies
PC25/ **Oumaima KARAI**, Sidi Mohamed Ben Abdellah University Fez, Morocco - Design, synthesis and biological screening of new heterocyclic carboxylic α,α -diaminoesters
PC26/ **Elodie LOGEROT**, IBMM - Amidated and carboxylated peptides mass spectrometric separation based on survival yield technique
PC27/ **Ilyes MAHTI**, ISEC - Chelation of zirconium by the dota ligand, a multiparametric study
PC28/ **Lucas MELE**, ICGM - Phosphorus based small molecules as promising lead candidate to alleviate NDs through modulation of SIR
PC29/ **Amina MERABTI**, ICGM - Photosensitizers targeting carbonic anhydrase for synergistic therapy of multiresistant hypoxic tumors
PC30/ **Youssef MOUACHA**, IEM - Synthesis, characterization and the antibacterial activity of a new [1,2,3] triazole derivative
PC31/ **Sébastien ROCA**, IBMM - PEG functionalized polycation as last layer for SMIL capillary coatings to limit protein adsorption in capillary electrophoresis
PC32/ **Noelia SANCHEZ-BALLESTER**, ICGM - Alginate esters: novel multifunctional excipients for direct compression
PC33/ **Alexandra SERHOUNI**, IBMM - Development of novel strategies to target DNA methylation and histone acetylation in cancers