

Monday 20th November 2023

13:00 - 13:20 **Welcome and Opening Remarks**

Chairman: J.-P. Chapel

- 13:20 - 13:50 **D. Mecerreyes** (POLYMAT, UPV/EHU, San Sebastian), *IL01*
Current trends and perspectives of polymers in batteries
- 13:50 - 14:10 **F. Le Goupil** (LCPO, Pessac), *CO01*
Bio-based poly(hydroxy urethane)s for efficient high-power energy storage
- 14:10 - 14:30 **B. Bach** (LEPMI, Grenoble), *CO05*
Design de ionomères pour les membranes échangeuses d'anions dans les piles à combustibles et les électrolyseurs
- 14:30 - 14:50 **L. Rubatat** (IPREM, Pau), *CO03*
Block copolymer nanostructured solid polyelectrolytes from equilibrium to out of equilibrium strategies
- 14:50 - 15:10 **L. Hourdin** (LEPMI, Grenoble), *CO04*
Développement d'une membrane échangeuse de protons capable de fonctionner durablement dans une PEMFC à 95°C
- 15:10 - 15:30 **A. Karst** (ICS, Strasbourg), *CO02*
Synthesis of conductive sepiolite-PEDOT particles and processing of a conductive thermoplastic material
- 15:30 - 15:50 **C. Bakkali** (ICGM, Montpellier), *CO06*
Polyhydroxyurethane covalent adaptable networks: looking for suitable catalysts
- 15:50 - 16:20 *Coffee Break*

Chairman: T. Tassaing

- 16:20 - 16:50 **S. Guillaume** (ISCR, Rennes), *IL02*
Polymerization catalysis toward stereoregular functional PHAs: the Good, the Best and the Unique
- 16:50 - 17:10 **M. Lalanne-Tisné** (UMET, Lille), *CO09*
Cellulose nanocrystals modification by grafting from ring-opening polymerization of cyclic carbonate
- 17:10 - 17:30 **K. Caillaud** (PBS, Rouen), *CO07*
Synthèse de polyoxazolines homotélchéliques pour la préparation d'hydrogels d'acide hyaluronique thermosensibles et biocompatibles
- 17:30 - 17:50 **G. Bichot** (ICR, Marseille), *CO08*
Novel NIR organic dyes for polymer synthesis: benefits of the photothermal activation in the Near-InfraRed range
- 17:50 - 18:10 **P. Salaun** (UMET, Lille), *CO10*
Association of covalent organic frameworks and polymers for the synthesis of raspberry particles with a radial single-crystal grain orientation
- 18:10 - 18:30 **D. Vuluga** (PBS, Rouen), *CO11*
Synthesis and telescoped CO₂-based functionalization under microfluidic conditions

Tuesday 21st November 2023

Chairman: J. McGraw

Joint session with the GDR ISM

- 08:30 - 09:00 **E. Raphael** (Gulliver, Paris), *IL03*
The Glass Transition at Interfaces
- 09:00 - 09:20 **L. Bureau** (LiPhy, Grenoble), *CO12*
Surface and frictional forces of adsorbed thin films of charged polysaccharides
- 09:20 - 09:40 **E. Belamie** (ICGM, Montpellier), *CO13*
Porous aligned silica fibers obtained by electrospinning chitin nanorods / PVP and siloxane oligomers co-suspensions
- 09:40 - 10:00 **C. Lorthioir** (LCMCP, Paris), *CO14*
Enchevêtrements piégés dans les phases lamellaires de triblocs symétriques : approche par RMMN du solide
- 10:00 - 10:20 **R. Weiss** (ICS, Strasbourg), *CO15*
Gauging material deformations at the molecular level via soft-mechanoresponsive chiral probes
- 10:20 - 10:50 *Coffee Break*
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Chairman: L. Bureau

Joint session with the GDR ISM

- 10:50 - 11:20 **A. Banc** (L2C, Montpellier), *IL04*
Gluten as near-critical gel
- 11:20 - 11:40 **C. Bliard** (ICMR, Reims), *CO16*
Properties of polymalto/isomaltosaccharides as regolith binder for extraterrestrial masonry
- 11:40 - 12:00 **T. Nabyeva** (ICS, Strasbourg), *CO17*
Controlling porous and crystalline structures of poly(vinylidene fluoride) aerogel
- 12:00 - 12:20 **G. Miquelard Garnier** (PIMM, Paris), *CO18*
Extensional viscosity of immiscible polymer multilayer films: signature of the interphase
- 12:20 - 12:40 **E. Govorun** (Gulliver, Paris), *CO19*
Model of diffusion-controlled growth of hydrogel membranes
- 12:40 - 13:00 **Q. Jean** (IMP, Saint-Etienne), *CO24*
Characterization of reclaim rubbers: application and limits of Horikx's theory
- 13:00 - 14:10 *Lunch*
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Chairman: V. Ravaine

- 14:10 - 14:40 **K. Bouchemal** (IRCP, Paris), *IL05*
Morphology controlled nanomaterials to navigate mucosal barriers
- 14:40 - 15:00 **P. Marquaille** (C3M, Paris), *CO20*
Chitosan grafted with fibronectin as a building unit for bioactive thermosensitive hydrogels
- 15:00 - 15:20 **B. Le Droumaguet** (ICPME, Thiais), *CO21*
Biodegradable biporous polymeric materials from 2-methylene-1,3-dioxepane: towards tissue engineering
- 15:20 - 15:40 **L. Hays** (LBP, Strasbourg), *CO22*
Polymeric nanoparticles as tools to build luminescent materials for bioimaging
- 15:40 - 16:00 **A. L. Villela Zumaya** (UCT, Prague), *CO23*
Development of API/PLA amorphous solid dispersion for personalized medicine: computational and experimental study

16:00 - 16:10 **M. Dolatkhani** (PolymerExpert, Pessac), CF01
De l'idée à l'industrialisation

16:10 - 16:20 **G. Jacquier** (Netzsch, Dardilly), CF02
Netzsch Analyses & Tests – Présentation générale

16:20 - 16:50 *Coffee Break*

Chairman: C. Bonduelle

16:50 - 17:10 **L. Milenkovic** (SIMM, Paris), CO25
Micro-compartments of UCST hydrogels for microfluidic biotechnologies

17:10 - 17:30 **M.-T. Khong** (IBMM, Montpellier), CO26
Preparation of cyclic polyester-based copolymers – attractive materials for biomedical applications

17:30 - 17:50 **B. Lonetti** (IMRCP, Toulouse), CO27
Control of thermo-responsive nanoassemblies through polymer composition profile and their application as drug delivery vectors

17:50 - 18:10 **L. Moine** (IGPS, Orsay), CO28
Poly(malic acid)-based functional polyesters as a versatile platform for biomedical applications

18:10 - 18:30 **A. Monmagnon** (LITEN, Grenoble), CO29
In-situ NMR spectroscopy as a promising tool for the development of highly reactive non-isocyanate polyurethane materials

18:30 - 20:30 **Poster Session**

Wednesday 22nd November 2023

Chairman: T. Vidal

- 08:30 - 09:00 **R. Auzély** (CERMAV, Grenoble), *IL06*
Polysaccharide hydrogels: from controlled synthesis to *in vivo* applications for cell delivery and activity monitoring
- 09:00 - 09:20 **B. Farias-Mancilla** (LCPO, Pessac), *CO30*
Interpenetrated networks in silicone hydrogel contact lenses
- 09:20 - 09:40 **V. Dulong** (PBS, Rouen), *CO31*
Nanogels formés par complexation polyélectrolytiques de polysaccharides aux propriétés antioxydantes pour la séquestration/libération de composés actifs
- 09:40 - 10:00 **S. Kalem** (IMMM, Le Mans), *CO32*
Control the characteristics of self-assembled supramolecular janus nanocylinders through the process of chemistry
- 10:00 - 10:20 **K. Belkhir** (UMET, Lille), *CO33*
Self-immolative polymers for nanoparticles with unique degradation profiles in biomedical applications
- 10:20 - 10:50 *Coffee Break*
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10:50 - 12:50 **Assemblée Générale du GFP**

12:50 - 14:00 *Lunch*

Chairman: A. Llevot

- 14:00 - 14:30 **Prix Champetier 2023**
- 14:30 - 14:50 **Prix de these 2023**
- 14:50 - 15:10 **S. Bruzard** (IRDL, Lorient), *CO34*
Taylor-made biosynthesis of polyhydroxyalkanoates: towards polymers with planned biodegradation
- 15:10 - 15:30 **A. Delavarde** (ICGM, Montpellier), *CO35*
Paving the way to sustainability: exploring the synthesis of lignin-derived diisocyanates for bio-based polyurethanes
- 15:30 - 15:50 **M. Lansalot** (CP2M, Lyon), *CO36*
Degradable vinylic polymer particles synthesized by aqueous (controlled) radical emulsion polymerization
- 15:50 - 16:00 **L. Fayt** (Jacomex, Dagneux), *CF03*
Jacomex and our products
- 16:00 - 16:10 **V. Rousseau** (Rayonier, Pessac), *CF04*
RYAM and the Bioethanol project
- 16:10 - 16:40 *Coffee Break*
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Chairman: T. Guimaraes

- 16:40 - 17:10 **C. Detrembleur** (CERM, Liège), *IL07*
Water-induced self-blown non-isocyanate polyurethane foams at room temperature
- 17:10 - 17:30 **A. Giunta** (IMP, Saint-Etienne), *CO37*
Itaconic acid polymerization: from oligomers to microgels

17:30 - 17:50 **K. Ferji** (LPCM, Nancy), CO38

Photo-polymerization induced nanoprecipitation: toward surfactant-free latex

17:50 - 18:10 **C. Fliedel** (LCC, Toulouse), CO39

Switchable organometallic-radical/ring-opening polymerization: towards novel recyclable polymers

18:10 - 18:30 **C. Chassenieux** (IMMM, Le Mans), CO40

Hydrogels nanocomposites 100% bio-sourcés

Thursday 23rd November 2023

Chairman: E. Grau

Session : Polymers and biorefineries

- 08:30 - 09:00 **S. Grelier** (LCPO, Pessac), *IL08*
Quel avenir pour la bioraffinerie ?
- 09:00 - 09:30 **J. Luterbacher** (EPFL, Lausanne), *IL09*
Preserving and building on natural structures to make biobased chemicals and performance materials
- 09:30 - 10:00 **C. Michaud** (Rayonier, France), *IL10*
"For a Wood based Biofuture": RYAM Biorefineries
- 10:00 - 10:30 **L. Dupin** (L'Oréal, Aulnay s/ Bois), *IL11*
Intérêt du secteur cosmétique pour les synthons biosourcés
- 10:30 - 11:00 **Discussion/Table Ronde**
- 11:00 - 11:30 *Coffee Break*
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Chairman: J. Vignolle

- 11:30 - 11:50 **V. Monteil** (CP2M, Lyon), *CO41*
Chemical recycling of silicones
- 11:50 - 12:10 **J. Basson** (IMP, Saint-Etienne), *CO42*
Evaluation of new plasticizers as alternatives to glycerol in thermoplastic starch
- 12:10 - 12:30 **C. Branger** (MAPIEM, Toulon), *CO43*
Molecularly imprinted polymers electrodes for benzo(a)pyrene detection prepared by surface-initiated photopolymerization
- 12:30 - 12:50 **M. Guerreiro** (IBMM, Montpellier), *CO44*
Phosphorus-based films for actinide decontamination
- 12:50 - 14:00 *Lunch*
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Chairman: S. Harrison

- 14:00 - 14:30 **M. Manica** (IBM, Zurich), *IL12*
Harnessing the power of language models to accelerate material design
- 14:30 - 15:00 **A. Cuenca** (LOF Solvay, Pessac), *IL13*
An orchestrated laboratory to boost the innovation in chemistry
- 15:00 - 15:30 **F. Leonforte** (L'Oréal, Aulnay s/ Bois), *IL14*
IA & polymers from a cosmetic perspective
- 15:30 - 16:00 **N. Ghamri** (Arkema, Lyon), *IL15*
AI and Numerical Simulation for Materials Innovation
- 16:00 - 16:30 **Discussion/Table Ronde**
- 16:30 - 17:00 *Coffee Break*
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Chairman: O. Sandre

- 17:00 - 17:20 **A. Tchagoué** (LIRIS, Lyon), *CO45*

Towards AI-based polymer discovery: an optimized data collection system from epoxy/amine tables

17:20 - 17:40 **O. Coutelier** (IMRCP, Toulouse), CO46

RAFT polymerization of N-vinylformamide and corresponding block copolymers

17:40 - 18:00 **J. Raynaud** (CP2M, Lyon), CO47

La catalyse pour construire, déconstruire et reconstruire les polyoléfines

19:30 – 23 :30 *Conference Banquet (Cité du Vin, 134 quai de Bacalan, Bordeaux)*

Friday 24th November 2023

Chairman: V. Ponsinet

- 08:30 - 09:00 **M. Destarac** (IMRCP, Toulouse), *IL16*
Recent advances in radical thiocarbonyl addition ring-opening (TARO) polymerization
- 09:00 - 09:20 **P. Woisel** (UMET, Lille), *CO48*
Thermoresponsive polymers and host-guest chemistry: a win-win combination
- 09:20 - 09:40 **Y. V. Kudryavtsev** (Gulliver, Paris), *CO49*
Au rod/sphere nanocomposite with a block copolymer matrix via the click reaction
- 09:40 - 10:00 **V. Darcos** (IBMM, Montpellier), *CO50*
Analysis of hydrophilic polymer by interaction liquid chromatography
- 10:00 - 10:20 **B. Couturaud** (ICPME, Thiais), *CO51*
Polymer metal-organic framework self-assembly (PMOFSA) to generate well-dispersed polymer-MOF hybrid nanoparticles in water
- 10:20 - 10:50 *Coffee Break*
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Chairman: C. Grazon

- 10:50 - 11:20 **A. Ruiz-Carretero** (ICS, Strasbourg), *IL17*
Exploring the role of hydrogen bonding and supramolecular chirality in organic electronics
- 11:20 - 11:40 **H. Manzanarez** (LITEN, Grenoble), *CO52*
Modélisation du transport ionique au sein d'un électrolyte polymère
- 11:40 - 12:00 **F. Vidal** (LPPI, Cergy), *CO53*
Ionogels and ionoelastomers as ionic conducting membranes with healable properties for soft actuators and sensors
- 12:00 - 12:20 **F. Bonnet** (UMET Lille), *CO54*
High impact resistance PLLA-based composites designed by TP-RTM
- 12:20 - 12:50 **Prix Champetier 2022**
- 12:50 - 13:00 **Closing Remarks**

Poster Presentation

P01	A. Bagur (ICMCB, CRPP, Pessac) Towards DNA-coated patchy silica nanoparticles for programmable self-assembly
P02	L. Bouteiller (IPCM, Paris) Isocyanate free synthesis of tris-urea terminated polymers for Janus nanorods self-assembly
P03	Y. Ma (LCPO, Pessac) Surface induced self-assembly of polypeptides obtained from aqueous ROPISA
P04	B. Gautheron (UMET, Lille) Light sensitive synthesis of 2D CF imine particles
P05	A. Pitto-Barry (IGPS, Saclay) Synthesis of boron-containing polymers
P06	J.-F. Stumbé (LPIM, Mulhouse) Investigation of synthesis methods for the preparation of chitosan-grafted-glycidol
P07	S. Hidalgo-Caballero (Gulliver, Paris) Assessment of electrical conductivity of polymers in microfluidic devices
P08	E. Courtecuisse (LCPO, Pessac) Chitosan- <i>block</i> -dextran polysaccharides for nucleic acid delivery
P09	C. Courtine (CRPP, Pessac) Water in silicone emulsions for the 3D-printing of kidney phantoms
P10	M. Morel (PBS, Rouen) Hyaluronic acid-based injectable thermosensitive hydrogel for the theranostic treatment of glioblastoma multiforme
P11	W. Wang (LCPO, Pessac) Imidazolium-based polymerized ionic liquids as versatile stabilizers for ruthenium nanoparticles
P12	R. Hello (CRPP, Pessac) Development of electrostatic polymer complexes for the local and controlled release of actives
P13	C. Jaffry (LBCM, IRDL, Lorient) Etude de l'impact des propriétés physico-chimiques de films de polymères sur leur colonisation par des micro-organismes
P14	A. Reisch (LBP, Strasbourg) On the roles of polymer chemistry, kinetics, and mixing in the assembly of loaded polymer nanoparticles
P15	V. Ayzac (LCPO, Pessac) Vegetable oil based hyperbranched
P16	A. Benzemma (IMP, Saint-Etienne) Recycling of multi-layer polymer films by solid-state shear pulverization (SSSP) and solid-state/melt extrusion (SSME)
P17	C. Desvaux (C3M, Paris) Triazine-based degenerate exchange: a novel chemistry for the design of vitrimers
P18	G. Gimenez (ISM, Pessac) Depollution in water droplet
P19	K. Abou Ezze (LCPO, Pessac) NHC dimers as cross-linking points for functional polymer networks
P20	V. Skyronka (IMP, Saint-Etienne) Elaboration de mélanges TPE à partir de PP et de caoutchouc régénéré : caractérisation du comportement d'un élastomère dans une matrice PP

P21	B. Erradhouani (ISM, Talence and LCPO, Pessac) Caractérisation de l'impact des fuites de matériaux d'emballages alimentaires en Analyse de Cycle de Vie
P22	Q. Jaussaud (LCPO, Pessac) Self-blown polyurethane foam synthesis via <i>in-situ</i> generated isocyanates
P23	N. Cavalcante Nepomuceno (ICGM, Montpellier) Sustainable and full-biobased epoxy resins from epoxidized soybean oil (EBSO) cured with tartaric acid
P24	P. Kenfack Ymbe (CRPP, Pessac) Adsorption and enzymatic activity of myeloperoxidase and glucose oxidase and their bifunctional chimeras on silicone model surfaces
P25	J. Li (IMP, Lyon) Influence of the long-branched chains on the electrical, linear and nonlinear rheological properties of polypropylene/carbon nanotube systems before and after fast shear flows
P26	T. Merland (IMMM, Le Mans and SIMM, Paris) Hydrogels nanocomposites obtenus par co-assemblage de polymères amphiphiles et de nanoplaquettes de fullerène
P27	F. Tidas (LPIM, Mulhouse) Synthesis of a novel crosslinking agents for hydrogel by functionalizing hyperbranched polyglycerol with itaconate groups
P28	P. M. Resende (LCPO, Pessac) P(VDF-TrFE) morphotropic phase boundary detection from Raman spectroscopy