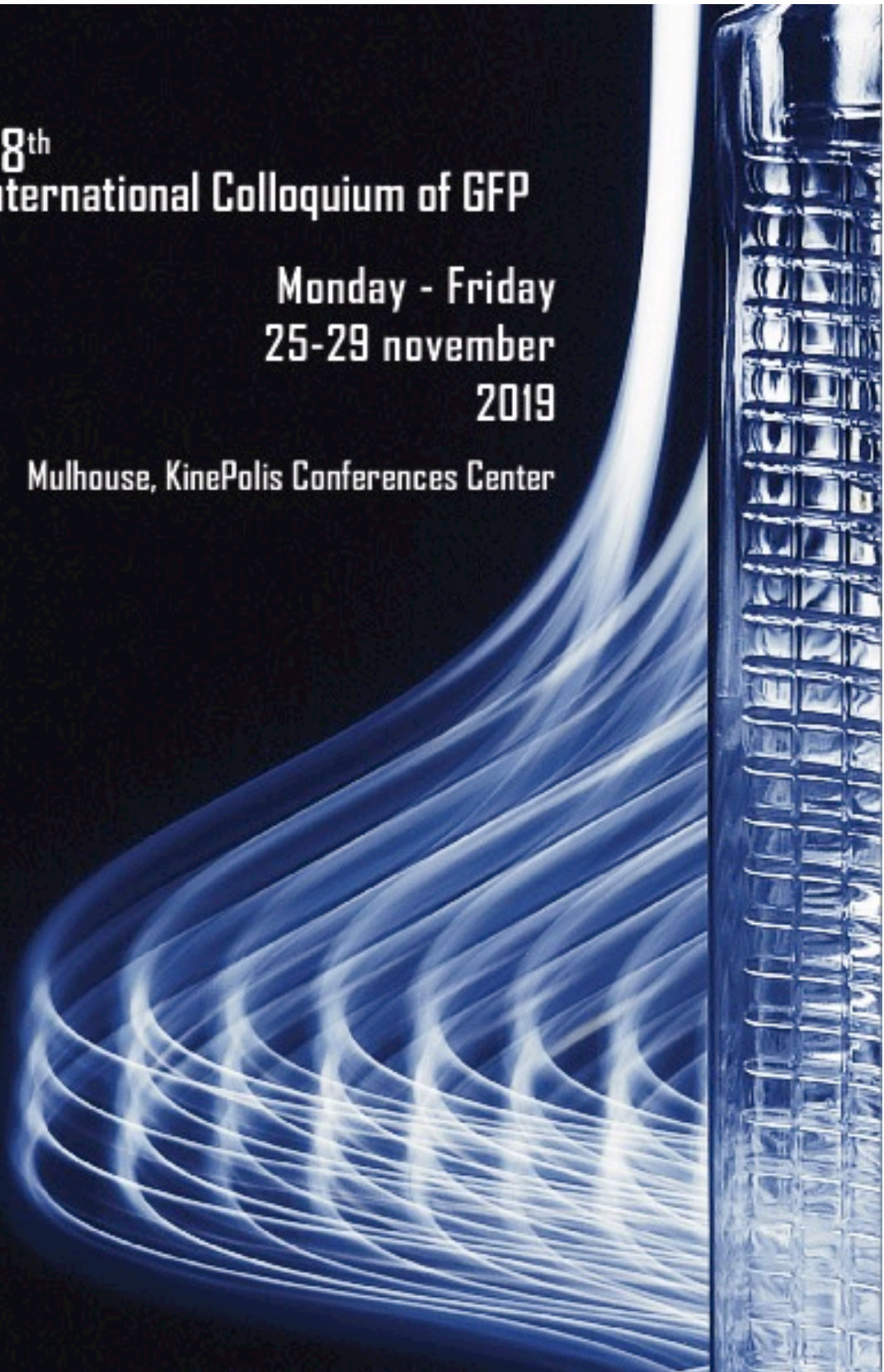


**48<sup>th</sup>**  
**International Colloquium of GFP**

**Monday - Friday**  
**25-29 november**  
**2019**

**Mulhouse, KinePolis Conferences Center**



On behalf of the Board of Directors of the French Polymer Society, we are pleased to invite you to Mulhouse, France, to attend the 48th International Colloquium of GFP, Monday - Friday, 25th November - 29th November 2019. This year, the colloquium will be characterized by an international dimension, thanks to the privileged location of Mulhouse, at the border with Germany and Switzerland. We expect between 150 and 180 attendees from a wide range of backgrounds and countries, and from universities, research centers or industry, to report on the most recent advances in domains linked to polymers (synthesis, characterization, processing, properties, applications). Five major topics will be specifically addressed during this meeting : Polymers and light, Polymer interfaces and (nano)composites, Macromolecular and supramolecular engineering, Polymers and sustainable development, Polymer materials : from structure to properties.

#### **International organizing committee**

Dr. Jorg Baschnagel (Strasbourg)  
Dr. Michel Bouquey (Strasbourg)  
Pr. Maurice Brogly (Mulhouse)  
Pr. Christophe Chassenieux (Le Mans)  
Pr. Jean-François Gérard (Lyon)  
Dr. Sophie Guillaume (Rennes)  
Pr. Yves Grohens (Lorient)  
Dr. Vincent Ladmiral (Montpellier)  
Dr. Jörg Lahann (Karlsruhe)  
Pr. François Lequeux (Paris)  
Pr. Rolf Mulhaupt (Freiburg)  
Dr. Bastian Rapp (Freiburg)  
Pr. Gunter Reiter (Freiburg)  
Dr. Julien Thuilliez (Clermont-Ferrand)  
Pr. Christop Weder (Fribourg)  
Prof. Manfred Wilhelm (Karlsruhe)  
Pr. Dominik Wöll (Aachen)

#### **Local organizing committee**

Dr. Stéphane Mery (ICS, Strasbourg)  
Dr. Julien Poly (IS2M, Mulhouse)  
Dr. Philippe Mesini (ICS, Strasbourg)  
Dr. Eric Pollet (ICPEES, Strasbourg)  
Pr. Xavier Coqueret (ICMR, Reims)  
Dr. Christelle Kowandy (ICMR, Reims)  
Dr. Lavinia Balan (IS2M, Mulhouse)  
Dr. Dimitri Ivanov (IS2M, Mulhouse)  
Dr. Olivier Soppera (IS2M, Mulhouse)  
Dr. Florence Bally-Le Gall (IS2M, Mulhouse)  
Dr. Arnaud Spangenberg (IS2M, Mulhouse)  
Dr. Abraham Chemtob (IS2M, Mulhouse)  
Dr. Khalid Ferji (LCPM, Nancy)  
Philippe Kunemann (IS2M, Mulhouse)  
Dr. David Ruch (LIST, Luxembourg)  
Pr. Boris Lakard (UTINAM, Besançon)  
Pr. Cécile Nouvel (LRGP, Nancy)  
Pr. Jacques Lalevee (IS2M, Mulhouse)  
Pr. Vincent Roucoules (IS2M, Mulhouse)  
Christelle Portier (IS2M, Mulhouse)  
Dr. Fabrice Morlet-Savary (IS2M, Mulhouse)  
Pr. Laurent Vonna (IS2M, Mulhouse)

#### **Important deadlines**

Abstract submission : Oral & Poster, September 20th, 2019 - Late abstract (only Poster), October 14th, 2019

Registrations : Regular registration, November 4th, 2019

#### **Organizing secretariat**

Institut de Science des Matériaux de Mulhouse, 15 rue Jean Starcky, 68057 Mulhouse

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# PROGRAM

## Monday 25 November

13.45 Opening Ceremony

### Macromolecular and supramolecular engineering - Session 1 –

*Chairs: Patrick Theato & Abraham Chemtob*

14.00 **Jean-François Lutz**

Digital Polymers: Emergence of a new class of macromolecules

14.40 **Stephen Schrettl**

Tunable and Responsive Supramolecular Polymer Materials

15.00 **Jean Raynaud**

Dynamic boron-based polymers & Networks for hydrogen storage

15.20 **Cecile Nouvel**

Submicronic emulsions produced by phase inversion temperature with polymeric surfactants

15.40 **Mirella Wawrzychyn**

Artificial Extracellular Matrix Design

16.00 3 min Poster Pitches - Session 1 -

16.25 Sponsor Pitch: Bruker

16.30 Coffee break

### Macromolecular and supramolecular engineering - Session 2 –

*Chairs: Jean-François Lutz & Abraham Chemtob*

16.50 **Patrick Theato**

New Synthetic Routes towards Sulfur Containing Functional Polymers

17.30 **Mathias Destarac**

Organotin raft agents: A range apart

17.50 **Vincent Monteil**

New trends in free radical polymerization of ethylene under moderate pressure conditions

18.10 **Vincent Ladmiral**

Synthesis and self-assembly of PVDF-based block copolymers

18.30 **Delphine Chan-Seng**

Unexpected UCST behavior of cationic comb homopolymers in water

18.50 End of the day

## Tuesday 26 November

### Polymer materials: From structure to properties - Session 1 –

*Chairs: Guillaume Fleury & Olivier Soppera*

- 8.30 **Sabine Ludwigs**  
Bioinspired Multifunctional Polymer Films for Polymer Electronics Applications
- 9.10 **Sébastien Clément**  
Cationic conjugated polythiophene for optoelectronic applications: Influence of counteranions
- 9.30 **Ernst Meyer**  
Preparation of molecular wires using on-surface chemistry
- 9.50 **Housseem Chabane**  
Fire behavior and morphology of epoxy-amine matrix designed by polyhedral oligomeric silsesquioxane-supported imidazolium ionic liquid (IL-g-POSSPh)
- 10.10 Coffee break

### Polymer materials: From structure to properties - Session 2 –

*Chairs: Sabine Ludwigs & Arnaud Spangenberg*

- 10.30 **Guillaume Fleury**  
Nanostructured thin films from block copolymer self-assembly: exquisite symmetries from macromolecular design
- 11.10 **Marianne Benoit**  
Self-oscillating polymer interfaces to design life-like pulsatile membranes
- 11.30 **Julien Crozzolo**  
Synthesis and Study of Associative Water-Soluble Copolymers for Enhanced Oil Recovery
- 11.50 **Antoine Hinaut**  
Electrospray deposition of molecules in ultra-high vacuum: building large molecular assemblies
- 12.10 **Farzad Ramezani**  
Entropy in stock in non-equilibrated polymer melts: translating molecular relaxation into lifting macroscopic weights
- 12.30 Lunch – POSTER SESSION

### Polymer materials: From structure to properties - Session 3 –

*Chairs: Ernst Meyer & David Ruch*

- 14.00 **Guillaume Sudre**  
Polysaccharide-based highly stretchable physical hydrogels obtained by interpolymer complexation

14.20 **Yvette Tran**

Responsive hydrogel films for novel functionalities

14.40 **Dominik Wöll**

Nanoscopic imaging of functional, responsive microgels

15.00 **Benyahia Lazhar**

Study of thermos-induced behavior and rheological properties of hydrogels based on mixing bis-hydrophilic block copolymers with metallic ions

## **Polymer and sustainable development - Session 1 –**

*Chair: Eric Pollet*

15.20 **Michael Meier**

Renewability is not enough: Sustainable approaches to monomers and polymers from renewable resources?

16.00 3 min Poster Pitches - Session 2 -

16.25 Sponsor Pitch: Xenocs

16.30 Pitch: Plastipolis

16.30 Coffee break

17.30 **Round Table - Plastics: Truths or untruths**

*Moderator: Dominique Siedlaczek*

Jacques Reis / Fabienne Lagarde / Thierry Yoh-Recham / Marie-France Vallat

19.30 End of the day

## Wednesday 27 November

### Polymer and sustainable development - Session 2 –

*Chairs: Cécile Nouvel & Jacques Lalevee*

- 8.30 **Stéphanie Baumberger**  
Combining chemical tools and biological transformation for a cascade valorization of lignin
- 9.10 **Frédéric Ruch**  
Upcycling for thermoplastic composites: How to recycle with added value with ThermoPRIME® & ThermoSaiC® technologies
- 9.30 **Rama Shakaroun**  
Organocatalyzed ring-opening polymerization (ROP) of functional  $\hat{\text{P}}^2$ -lactones: New insights into the ROP mechanism and poly(hydroxyalkanoate)s (PHAs) macromolecular structure
- 9.50 **Fanny Coumes**  
Design of biobased nanoparticles through polymerization induced self-assembly of biosourced monomers

10.10 Coffee break

10.30 General Assembly of GFP for adherents

10.30 Poster Session

12.30 Lunch – POSTER SESSION

### Polymers and Light - Session 1 –

*Chairs: Yohann Guillaneuf & Xavier Coqueret*

- 14.00 **Kurt Dietliker**  
Photobase technology: A versatile tool for the preparation of new materials
- 14.40 **Christine Joly-Duhamel**  
Maleimide monomers: an alternative to the UV formulation based on a radical photoinitiator
- 15.00 **Remi Canterel**  
Photopolymerization in dispersed media under visible light
- 15.20 **Frédéric Dumur**  
Mechanosynthesis: Green Chemistry applied to the design of copper-based photoinitiators
- 15.40 **Laurent Heux**  
Biomimetic photonic cellulose films

16.00 3 min Poster Pitches - Session 3 -

16.25 Sponsor Pitch: Phoseon

16.30 Coffee break offered by THERMOFISHER

## Polymers and Light - Session 2 –

*Chairs: Kurt Dietliker & Fabrice Morlet-Savary*

16.50 **Yohann Guillaneuf**

Preparation of micro-patterned surfaces by the use of light-sensitive alkoxyamines

17.30 **Eirini Skoufa**

Low Energy Miniemulsification Device

17.50 **Miriam Unger**

Latest Advances in Nanoscale IR Spectroscopy and Imaging

18.10 **Andreas Reisch**

Bright and Small Fluorescent Polymer Nanoparticles for Intracellular Imaging

18.30 End of the day / Free: Christmas market

## Thursday 28 November

### Polymer interfaces and (nano)composites - Session 1 –

*Chairs: Alexandre Beigbeder & Dimitri Ivanov*

- 8.30 **Wolfgang Meier**  
Functional Blockcopolymer Membranes
- 9.10 **Pascal Carrière**  
Graphene oxide as in-situ hydrolytic aging sensor using Raman spectroscopy for thermosets matrix
- 9.30 **Virginie Goetz**  
Reduction of the sensitivity of a metal-oxide energetic composition by adding a conducting polymer
- 9.50 **Benjamin Le Droumaguet**  
Hypercrosslinking approach toward high surface area functional polyHIPes: Towards efficient supports for heterogeneous supported catalysis

10.10 Coffee break

10.30 **Michel Fontanille**  
*Prix d'honneur* of the French Polymer Society

10.45 **Round Table: Open Access**  
*Moderator: Abraham Chemtob*  
Adeline Rege / Jehanne Ducros-Delaigue / Sylvain Ribault / Frédéric Hélein

12.30 Lunch – POSTER SESSION

### Polymer interfaces and (nano)composites - Session 2 –

*Chairs: Wolfgang Meier & Florence Bally- Le Gall*

- 14.00 **Alexandre Beigbeder**  
Adding value to composites through in situ functionalisation : use of printed electronic and nanofillers
- 14.40 **Olivier Felix**  
Engineering the properties of self-assembled bio-inspired nanocomposite materials
- 15.00 **Patrick Masson**  
PMMA Brushes: Routes toward Ti/PMMA/Ti Sandwich for Biomedical Implant
- 15.20 **Meike Koenig**  
Functional Poly-p-xylylene Coatings via Chemical Vapor Deposition Polymerization
- 15.40 **Fouzia Boulmedais**  
Electrotriggered self-construction of polymeric films: new concept and application



16.00 3 min Poster Pitches - Session 4 -

16.25 Sponsor Pitch: Malvern Palanytical

16.30 Coffee break

16.50 **Alexandre Legris / Yves Grohens / Jannick Rumeau**  
*Action Convergence* CNRS

17.10 **Jessica Delavoipiere**  
*Prix de thèse* of the French Polymer Society

17.20 **Marvin Langlais**  
*Prix de thèse* of the French Polymer Society

17.30 **Bernadette Charleux**  
*Grand Prix* of the French Polymer Society  
From years dedicated to controlled free-radical polymerization in water to sustainable construction products at Saint-Gobain.

18.00 Gala Diner

## Friday 29 November

### Polymer interfaces and (nano)composites - Session 3 –

*Chairs: Philippe Mésini & Lavinia Balan*

- 8.30 **Véronique Michaud**  
Capillary effects in composite materials processing by Liquid Composite Moulding
- 9.10 **Xiang Yan**  
Fabrication of PP microfiber fabrics with potential surface functionality from melt-spun PP-PVA fibers
- 9.30 **Jannick Duchet-Rumeau**  
Fibre/Matrix interface: a still key component in new SMC composites
- 9.50 **Madeline Vauthier**  
Nanoemulsions for Biomedical Applications: Comparison of Various Emulsification Devices
- 10.10 **Maurice Brogly**  
Looking for perfect adhesion: turning the holy grail into reality

10.30 Coffee break

### Polymer and sustainable development - Session 3 –

*Chairs: Véronique Michaud & Maurice Brogly*

- 10.50 **Fanny Bonnet**  
Recent advances in the synthesis of poly(lactic acid) by reactive extrusion process
- 11.10 **Sophie Wendels**  
Synthesis and properties of biodegradable and biobased macromolecular architectures from bacterial polyesters for biomedical applications.
- 11.30 **Hanene Salmi**  
An eco-friendly process to develop antibacterial poly(ethylene terephthalate) surfaces grafted with bio sourced polymer incorporating silver nanoparticles

11.50 Closing Ceremony

# Sponsors

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