

## Workshop :

# Microstructure of polymers: from synthesis to applications

Friday September 10<sup>th</sup> 2021

### The aim of this day:

To give an update on the studies and collaborations of the team 3 (Spectrometry of complex heterogeneous media) LMOPS laboratory on studies related to polymer microstructure in particular through months of guest professors from the IUT of Metz (thanks to the IUT for its confidence).

This day will be done under a hybrid format (Presential and Teams), the conferences will be recorded and accessible on the site of the laboratory.

The place of the conference will be the [CentraleSupélec](#) engineer school on the Metz technopole Campus. These conferences will be the subject of a special issue in a magazine such as Elsevier or Springer (Discussions in progress)

The conference website is: [microstructure-of-polymers.fr](http://microstructure-of-polymers.fr)

This conference is free, and you can register on this website to have access to the capture of these conference and receive the link for the conference

The program is as follows:

Time	Who ?	Lab ?	Title
9:00	<b>Carmen Moya</b>	LMOPS- University of Lorraine Metz (France)	Synthesis of PLLA nanostructured
9:30	<b>Carolina Hermida</b>	University de Vigo – (Spain)	Optimization and use of nanostructured composite PLA for medical applications
10:00	<b>Marc Ponçot</b>	IJL - University of Lorraine – Nancy (France)	Microstructure and mechanical behaviour

1030	<b>Café</b>		
11:00	<b>Isabelle Royaud</b>	IJL - University of Lorraine – Nancy (France)	Dielectric/Raman coupling
11:30	<b>David Chapron</b>	LMOPS- University of Lorraine - Metz (France)	In-situ Raman to characterized microstructure of polymers
12:00	<b>Thomas Kauffmann</b>	Plateform spectroscopy - LMOPS- University of Lorraine Metz (France)	Examples of Raman imaging of microstructure
12:30	<b>Lunch</b>		
14:00	<b>Daniel Hermida Merino</b>	ESRF Ligne Dubble – Grenoble (France)	Coupling WAXS, SAXS DSC and Raman for analyze microstructure of polymers
14:30	<b>Guiseppe Portale</b>	University of Groningen (Netherland)	Influence of shear in the crystallization of polymers
15:00	<b>Ivan Bravo Perez</b>	Université de Castilla La Mancha – Albacete (Spain)	Modelling and time-resolved spectroscopy
15:30	<b>Maël Kervran</b>	LMOPS- University of Lorraine - Metz (France)	Aging of flame retardant polymer blends
16:00	<b>Philippe Marchal</b>	LRGP (Université de Lorraine)	Contribution of rheology to the understanding of molecular mechanisms in viscoelastic medium
16:30	<b>Break</b>		
16:45	<b>Gijs W. de Kort</b>	University of Maastricht (Nederlands)	Thermotropic polyesters and polyactide : A route to sustainable and reprocessable reinforced

17:15	<b>Cécile Nouvel</b> <b>Sandrine Hoppe</b> <b>Jean Luc Six</b>	LRGP, LCPM (Université de Lorraine)	Optimization of the properties of PLA-based biomaterials by optimizing microstructure, formulation and/or processes
18:00	<b>Carlos Alonso</b>	Université de Castilla La Mancha – Albacete (Spain)	Medical applications of PLLA material
18:30	<b>Christian G'Sell</b> <b>Farouk Rezgui</b>	University of Bejaia (Algérie)	Controlling the drug release rate by adding PLLA to the pill

Chairman : **Patrice Bourson**

Ce workshop a le soutien scientifique de la Fédération des Polyméristes Lorrains SFPGE ainsi que du Groupe Français de Spectroscopie Vibrationnelle (GFSV)

This workshop has the scientific support of the Federation of Lorraine Polymerists SFPGE and the French Group of Vibrational Spectroscopy (GFSV)



Lien pour assister à la réunion (pensez à vous inscrire pour avoir les présentations et captations)

<https://webtv.centralesupelec.fr/lives/live-easycast-s75/>

Link to attend the meeting (remember to register for receive the presentations and recordings)

<https://webtv.centralesupelec.fr/lives/live-easycast-s75/>

Si vous préférez Teams - If you prefer Teams

Voici le lien pour ces journées :

Rejoindre la réunion sur votre ordinateur ou sur votre application mobile

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Join the meeting on your computer or on your mobile application

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