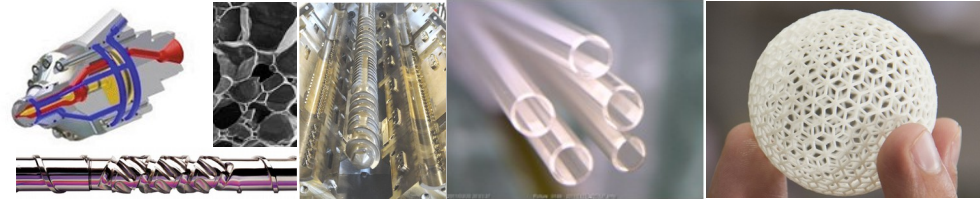


## Registration

**Registration Fees Cover lunches and dinner:**  
**120€**

**Registration dead-line:**  
**January 10, 2017**

**Website**  
<http://ezuslyon.wixsite.com/innovativeprocessing>



## Organizing Committee

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Supported by



## 1<sup>st</sup> workshop

# Innovative and Advanced Processing for Polymers

## Location

**University of LYON**  
**Amphithéâtre « Rotonde »**  
**Bâtiment des Humanités**

**26 (12 pm), 27 (2 pm) january, 2017**

## Framework and Objectives

This workshop aims to explore the recent innovations in polymer processing and advanced techniques to succeed in developing new materials, complex parts and controlled morphologies. The current tendency is to complexify the design and properties of new polymeric materials which cannot be obtained by simple formulation or using classical processes. Innovative processing is then a key step towards advanced materials.

This two-day workshop will particularly focus on additive manufacturing, micro-devices and nano-processing, high speed processing and advanced extrusion, which enable a better control of material structures.

The format of the workshop is designed to foster dialogue and exchanges between leading academic scientists and experts from industry, who will communicate their understanding/perspective in the field of polymer processing.

This workshop is open to engineers and researchers from academia and industry.

## Speakers

### **C. Barrès**

IMP  
INSA Lyon

### **T. Barrière**

Femto-ST  
Besançon

### **M. Bouquey**

ICS  
Univ Strasbourg

### **Y. Chalamet**

IMP  
Univ St-Etienne

### **J. Covas**

Univ Minho  
Portugal

### **R. Deterre**

GEPEA  
Nantes

### **P. Dubois**

LIST  
Luxembourg

### **M. Georgel**

Arkema  
Serquigny

### **O. Lame**

MATEIS  
Lyon

### **G. Martin**

Hutchinson  
Montargis

### **G. Régnier**

PIMM  
ENSAM

### **C. Sollogoub**

PIMM  
ENSAM

### **J. Soulestin**

Ecole des Mines  
Douai

### **G. Surdon**

Dassault-Aviation  
Paris

### **M. Vincent**

CEMEF  
Sofia Antipolis

## PROGRAM

Thursday, January 26 <sup>th</sup> , 2017	
12h00-13h30	<b>Welcome/Lunch</b>
13h30-14h00	<b>Introduction</b>
14h00-14h30	<b>Philippe DUBOIS (LIST)</b> : <i>Why not reactive extrusion for producing bio-based polymers and nanocomposites ?</i>
14h30-15h00	<b>Marie GEORGEL (Arkema)</b> : <i>Control of the film extrusion process to adjust PVDF film crystallinity.</i>
15h00-15h30	<b>Yvan CHALAMET (IMP, Saint Etienne)</b> : <i>Potentiality of the supercritical CO2 for the purification of polyolefins.</i>
15h30-16h00	<b>Coffee Break</b>
16h00-16h30	<b>Gilles REGNIER (PIMM, ENSAM Paris)</b> : <i>Influence of processing on electrical properties of polymers reinforced by carbon nanotubes.</i>
16H30-16H45	<b>Gilles SURDON (Dassault Aviation)</b> : <i>Additive Manufacturing process applied to thermoplastic material for aeronautical applications.</i>
17H00-17H30	<b>Claire BARRES (IMP, INSA Lyon)</b> : <i>Scientific issues in additive manufacturing of polymer parts.</i>
17H30-18H00	<b>José COVAS (University of Minho, Portugal)</b> : <i>In-process measurements during small-scale extrusion and compounding: results &amp; challenges.</i>
18H00-18H30	<b>Michel BOUQUEY (ICS, Strasbourg)</b> : <i>In situ polymerization of styrene into a PMMA matrix by using an extensional flow mixing device: a new approach to elaborate polymer blends.</i>
19H00-21H00	<b>Dîner</b>

Friday, January 27 <sup>th</sup> , 2017	
9h00-9h30	<b>Olivier LAME (MATEIS, INSA Lyon)</b> : <i>Understanding sintering to develop the cold-spray for polymers.</i>
9h30-10h00	<b>Thierry BARRIÈRE (Femto-ST, Besançon)</b> : <i>Applications for injection molding of metallic powders.</i>
10h00-10h15	<b>Coffee break</b>
10h15-11h45	<b>Michel VINCENT (CEMEF, Sophia Antipolis)</b> : <i>Morphological analysis and modeling of polypropylene foam injection with chemical agent.</i>
10h45-11h15	<b>Cyrille SOLLOGOUB (PIMM, ENSAM paris)</b> : <i>Multi-nanolayers coextrusion: a original tool for polymer nanostructuring.</i>
11h15-11h45	<b>Jérémie SOULESTIN (Ecole des mines de Douai)</b> : <i>Water assisted extrusion, a new way to optimize compounding of composites and thermally sensitive polymers.</i>
11h45-12h15	<b>Grégory MARTIN (Hutchinson)</b> : <i>Innovative mixing in reactive complex fluids.</i>
12h15-12h45	<b>Rémi DETERRE (GEPEA, Nantes)</b> : <i>Analysis of a thermomechanical devulcanization process.</i>
12h45-13h00	<b>Open discussion and Conclusion</b>
13h00-14h00	<b>Lunch</b>