

# 16<sup>TH</sup> EPF EUROPEAN POLYMER CONGRESS



July 2-7, 2017 - Lyon (France)

 epf lyon 2017

PROGRAM

<http://epf-2017-lyon.sciencesconf.org/>

Preface .....	3
International Advisory Board / Organizing Committee .....	5
EPF 2017 Partners .....	6
Sponsors .....	7
Exhibitors .....	9
General informations .....	10-11
Congress Center Map / Session Rooms .....	12
Overview of the Scientific Topics and Other Hosted Events .....	13
Simplified General Programm .....	14-19
<u>Detailed Daily Scientific Program:</u>	
Sunday july 2 <sup>nd</sup> , 2017 .....	20
Monday july 3 <sup>rd</sup> , 2017 .....	20-25
Tuesday july 4 <sup>th</sup> , 2017 .....	26-31
Wednesday july 5 <sup>th</sup> , 2017 .....	32-36
Thursday july 6 <sup>th</sup> , 2017 .....	37-43
Friday july 7 <sup>th</sup> , 2017 .....	44-46
Listing posters .....	47-60
EPF 2017 Poster awards .....	61
Venue Maps (Congress Center & Gala Dinner La Sucrière) .....	62

## EPF 2017 Congress

### From last trends in polymer science to cutting-edge industrial innovations

On behalf of the European Polymer Federation (EPF), the French Polymer Society (GFP), and the Université de Lyon (UdL), it is my honor and pleasure to welcome you at the European Polymer Congress 2017. Our ambition was to organize a congress which covers all the different sides of the polymer science and technology. This EPF 2017 Congress is an exceptional rendez-vous for all polymer scientists and engineers belonging from universities, institutions, and companies from all around the World. We did our best to build from your contributions a unique program which fits the congress ambition: 'From last trends in polymer science to cutting-edge industrial innovations'.

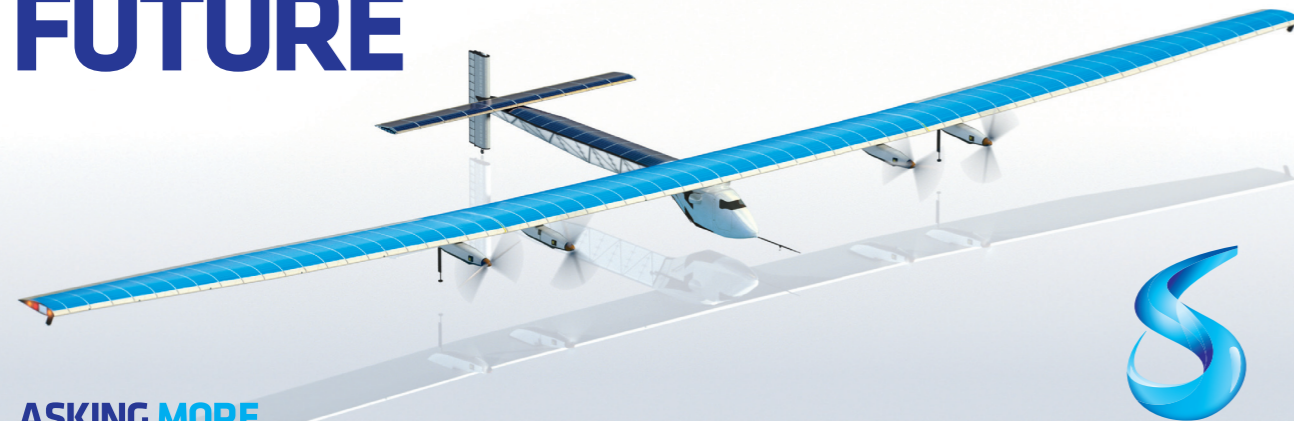
Polymers are everywhere and contribute significantly to a sustainable society thanks to their inputs to solve the main societal issues: energy, transport and mobilities, environment, global health, information and communication, including the industry of the future. Innovations in modern technologies by using polymers are based on significant advancements in all the domains of polymer science as well as at the interfaces with other sciences such as biology, computer science, physics, etc. All these topics related to fundamental sciences dedicated to polymers are in the focus of the congress as well as the last industrial innovations in order to merge as much as possible academic and industrial communities.

Invited plenary and keynote talks given by renowned speakers from leading international teams as well as numerous contributed papers and posters will present latest trends, results, and applications. According to the selected topics and the variety of participants from different areas of polymer science and neighboring fields, the EPF congress is an important place for inspiring international and interdisciplinary exchanges at the forefront of polymer science and technology!

Prof. Jean-François GERARD  
President European Polymer Federation  
EPF 2017 General Chairman

# MORE DARING CLEANER FUTURE

SOLAR IMPULSE: WHEN IMAGINATION AND INNOVATIVE CHEMISTRY MAKE THE IMPOSSIBLE POSSIBLE, TOMORROW'S HOPES ARE ACHIEVED TODAY.



ASKING MORE FROM CHEMISTRY

WWW.SOLVAY.COM



## International Advisory Board

Ann-Christine Albertsson, *Sweden*  
Spiros Anastasiadis, *Greece*  
Gordana Bogoeva-Gaceva, *FYR Macedonia*  
Antonio Correia-Diogo, *Portugal*  
Branko Dunjic, *Serbia*  
Andrzej Dworak, *Poland*  
Giancarlo Galli, *Italy*  
Jean-Francois Gerard, *France*  
Daniel Grande, *France*  
Bhuvanesh Gupta, *India*  
Nikos Hadjichristidis, *Saudi Arabia*  
Lian Hutchings, *UK*  
Soeren Hvilsted, *Denmark*  
Marica Ivankovic, *Croatia*  
Richard A.L. Jones, *UK*  
Ludo Kleintjens, *Netherlands*  
Alexei Khoklov, *Russia*  
Harm Anton Klok, *Switzerland*  
Andrej Krzan, *Slovenia*  
Michele Laus, *Italy*  
Prof. P. J. Lemstra, *Netherlands*

Nevena Manolova, *Bulgaria*  
Peter Müller-Buschbaum, *Germany*  
Erik Nies, *Belgium*  
Chris Ober, *USA, Ithaca*  
Maria Omastova, *Slovakia*  
Christian Paulik, *Austria*  
Stanislaw Penczek, *Poland*  
Sebastien Perrier, *Warwick, UK*  
Joseph Put, *The Netherlands*  
Julio San Roman, *Spain*  
Frantisek Rypacek, *Czech Republic*  
Yuri Savelyev, *Ukraine*  
Ester Segal, *Israel*  
Bogdan Simionescu, *Romania*  
Stanislaw Slomkowski, *Poland*  
Franz Stelzer, *Austria*  
Heikki Tenhu, *Finland*  
Gundars Teteris, *Latvia*  
Teoman Tincer, *Turkey*  
Brigitte Voit, *Germany*  
Andrew Whittaker, *Australia*



EN ROUTE VERS  
HEADING TOWARDS **2020**  
[www.plastipolis.fr](http://www.plastipolis.fr)



## PLASTIC SYNERGY

The Leading technology Cluster for polymer Industry in France

### Main missions :

- Support the emergence of innovative projects to enhance the growth and competitiveness of companies in the plastics and composites field
- Provide expertise and high added value services to the stakeholders of the sector

### Key figures :

- More than 400 members - including 250 companies
- More than 80 R&D centres and universities

### PLASTIPOLIS

A network for the competitiveness of the plastics and composites industry

Enhance your position and promote your know-how

Communication on print and web data of the cluster, cluster directory, events...

Find business opportunities

Market studies, international trade fairs, industrial working groups, B2B meetings...

Detect, evaluate, follow-up, finance and implement your innovation projects

Opportunity studies, assistance in your project structuring, search for partners and financing, linkages with potential investors...

Access key data to detect future opportunities

Newsletters on technology and market trends, thematic reports, opportunity studies



### Your objectives :

- Develop promising growth areas for your company
- Identify better technological directions for your future developments
- Find high level technical and industrial partners for your developments
- Access a network of partners for the financing of your projects

### PLASTIPOLIS

Maison des Entreprises  
BP 10 029 Bellignat - 01115 Oyonnax Cedex

04 74 12 19 23 - [contact@plastipolis.fr](mailto:contact@plastipolis.fr)

[www.plastipolis.fr](http://www.plastipolis.fr)



## Organizing Committee

### Jean-François Gérard (UdL/INSA/IMP) - General Chairman

Franck d'Agosto (UdL/CNRS/C2P2)  
Julien Bernard (UdL/INSA/IMP)  
Christophe Boisson (UdL/CNRS/C2P2)  
Redouane Borsali (UGA/CNRS/CERMAV)  
Marie-Thérèse Charreyre (UdL/CNRS/IMP)  
Laure Corrigan (INSAVALOR SA)  
Jannick Duchet (UdL/INSA/IMP)  
Arnaud Favier (UdL/CNRS/IMP)  
René Fulchiron (UdL/UCBL1/IMP)  
Philippe Le Thuaut (Axelera Industrial Cluster)  
Sébastien Livi (UdL/INSA/IMP)  
Frédéric Lortie (UdL/INSA/IMP)  
Jean-Charles Majesté (UdL/UJM/IMP)  
Vincent Monteil (UdL/CNRS/C2P2)  
Bruno Mouglin (Techtera Industrial Cluster)  
Isabelle Polo (UdL/INSA/IMP)  
Sébastien Pruvost (UdL/INSA/IMP)  
Jean-Marc Pujol (SOLVAY Co.)  
Roland Seguela (UdL/CNRS/MATEIS)  
Patrick Vuillermoz (Plastipolis Industrial Cluster)



#MakeThingsBetter  
total.com

# COMMITTED TO ENERGY EFFICIENCY

Total is investing \$6.7 billion over five years in Research and Development

 **TOTAL**  
Committed to Better Energy



In a world where permanent evolution is key to success,  
we enlighten and partner our clients in making their most critical business decisions



Tier one clients  
leaders in their industry



2,500 professionals  
across 4 continents



Among the leading independent  
consultancies in Europe,  
n°1 in France

Paris | London | New York | Hong Kong | Singapore | Dubai  
Brussels | Luxembourg | Geneva | Casablanca  
Lyon | Marseille | Nantes

**Jean Trimbour**  
Innovation Management and Funding

**Mobile** +352 26 37 74 25  
jean.trimbour@wavestone.com

wavestone.com  
@wavestone\_

## Exhibitors

AMETEK 

ASYLUM/OXFORD   
The Business of Science®

AXELERA   
catalyseur de croissance durable

CHEMSPEED TECHNOLOGIES AG 

ELASTOPOLE   
Pôle de compétitivité caoutchouc et polymères

ICE PUBLISHING   
division of calnex

KAISER   
An Endress+Hauser Company

MDPI 

PLASTIPOLIS   
PÔLE DE COMPÉTITIVITÉ PLASTURGIE

POSTNOVA ANALYTICS 

SETARAM INSTRUMENTATION   
K&P Technologies

SOLVAY   
solving more from chemistry™

SPRINGER NATURE 

SRA INSTRUMENTS   
CHROMATOGRAPHIC SOLUTIONS

TCI EUROPE N.V.   
DIVISION OF TOKYO CHEMICAL INDUSTRY

TECHTERA 

WAVESTONE 

WILEY 

XENOCOS   
Exploring the very small

**Gratte-Ciel 1 & 2**

**TUESDAY JULY 4<sup>TH</sup>, 2017 FROM 13:00 - XENOCOS LUNCH TIME SESSION**  
**NANOSCALE X-RAY CHARACTERIZATION OF POLYMERS IN THE LABORATORY**

**BADGES**

You will receive your personal badge when you register at the Congress Office. Please wear your name badge throughout the congress, in particular for the coffee and lunch breaks as well for the gala dinner (all of those are included in your registration). In case you have lost your badge, please report at the Congress Office.

**BOOK OF ABSTRACTS**

The book of abstracts including all the oral and poster contributions can be downloaded from:

[https://epf-2017-lyon.sciencesconf.org/data/pages/Book\\_of\\_abstracts\\_EPF2017.pdf](https://epf-2017-lyon.sciencesconf.org/data/pages/Book_of_abstracts_EPF2017.pdf)

**CASH**

Cash dispensers are available at all of the banks in downtown Lyon as well as in the Cité Internationale (International Congress Center), 24h/day.

**CELLULAR PHONES**

Participants are kindly requested to keep their cellular phone off in the session rooms.

**CERTIFICATE OF ATTENDANCE**

A certificate of attendance will be issued upon request at the Congress Office.

**CONGRESS GALA DINNER**

The Congress Gala Dinner is included in your registration. Thus, any attendee is invited to participate to the Gala Dinner which will be organized at La Sucrière, i.e. in an exceptional and newly designed Lyon quarter. Details to get the place (about 35-40 minutes far from the Congress Center and 10 minutes far from the T1 tram stop 'Hôtel de la Région – Montrochet') can be found on (see p63):

<http://www.lasucriere-lyon.com/useful-information> and on the backside of your badge

**CONGRESS OFFICE (REGISTRATION)**

Congress Office will be open at the times indicated below:

Sunday,	July 2 <sup>nd</sup> , 2107	from 17:00 to 19:30
Monday,	July 3 <sup>rd</sup> , 2017	from 8:00- to 17:30
Tuesday,	July 4 <sup>th</sup> , 2017	from 8:00- to 17:30
Thursday,	July 6 <sup>th</sup> , 2017	from 8:00- to 17:30
Friday,	July 7 <sup>th</sup> , 2017	from 8:00- to 11:00

**CURRENCY**

The official currency is the EURO (€). International credit cards are accepted in hotels, stores, and restaurants as well as for on site registration. All convertible foreign currencies are exchangeable at all major banks and in special change banks downtown.

**DOCTORATE HONORIS CAUSA CEREMONY**

INSA Lyon / University of Lyon confers on Prof. Emmanuel GIANNELIS the Honorary Degree of Doctor of Science honoris causa at a ceremony presided over by INSA Lyon President, Dr. Eric MAURINCOMME. All the participants of the EPF 2017 Congress are invited to join.

Date & place: July 4th, 2017 - 6:30 pm. Main room

**ELECTRICITY**

Electric current in France is without exception AC 230 V/50 Hz.

**EMERGENCY**

**15** SAMU - Urgent Medical Emergency

**17** POLICE SECOURS  
Required immediate police action

**18** SAPEURS POMPIERS  
Required immediate firemen action

**112** International Emergency Number

**EXHIBITION**

An exhibition of polymer industries, scientific equipment producers, and editors takes place at Bellecour Forums 4-5-6 (downstairs), i.e. at the same place as the coffee and lunch breaks as well as poster sessions.

**INSURANCE & LIABILITY**

The Congress Organization does not accept liability for personal injury or loss or damage of private property of participants and accompanying persons either during or while travelling to the congress. Participants are strongly recommended to seek insurance coverage for health and accident, lost luggage, and trip cancellation. A security control is installed at the entrance of the Congress according to the French Protocol 'Vigie Pirate'. Please open your bag and baggage when requested.

**LANGUAGE**

The official language of the Congress is English.

**LOST & FOUND**

Calls for lost or stolen credit card

American Express +49(0) 69 9797 2000

MasterCard 0800 819 1040

Visa 0800 811 8440

EuroCard 0049 116 116

**MESSAGES**

A message board will be located in the registration area. You can post your messages there.

**ORAL PRESENTATIONS**

Speakers are requested to upload their presentations at the 'Preview Room' located at Salon Tête d'or Room (see the Congress Center Map page 12). Please check the room of your presentation before uploading your file. Presentations need to be compatible with Microsoft Windows, i.e. PowerPoint or pdf format is required.

Use of speakers' own computers is not possible as no significant delay and out-phasing of parallel sessions are possible.

**POSTER PRESENTATIONS**

The poster area is in the Bellecour Forums 4-5-6 (downstairs), i.e. at the same place as the coffee and lunch breaks. Posters have to be fixed with double face adhesive tape or adhesive gum which is provided by the staff.

In addition to the poster session slot, the posters are distributed in daily poster sessions and could be seen during the morning and afternoon coffee breaks and lunch time. Please check the time for your poster boarding. You are invited to board your poster early in the morning and to remove it after the afternoon coffee break.

**POSTER AWARDS**

Poster Awards will be sponsored by the American Chemical Society Journals and the Royal Society of Chemistry. One award will be attributed for each ACS Journal, i.e. for Biomacromolecules, ACS Macro Letters, and Macromolecules. One award will be attributed for Polymer Chemistry and one for Soft Matter journals.

A special jury based on well-known scientists participating to the EPF 2017 Congress will vote on the posters.

**PHARMACIES**

Pharmacists can be found all over Lyon city. In case of urgent cases, please call the emergency services (see 'EMERGENCY')

**PROGRAM CHANGES**

The organizers are not liable for any changes made to the program. Updates may be found and will be announced to the participants.

**PUBLIC TRANSPORT**

Lyon has a very developed public transport system. Details on buses, trams, and subways lines can be found on : <http://www.tcl.fr/en>

Tickets for buses, trams, and subway are the same and valid for a one-hour trip. They could be bought using automatic machines at the platforms with cash and credit payments.

Details on shuttle tram to the Saint-Exupéry Airport which starts from La Part-Dieu Railway Station (Gare de la Part-Dieu) can be found on : <https://www.rhonexpress.fr/en>

A map of Lyon city including details on public transport is provided in your attendee's bag.

**SCIENTIFIC PROGRAM**

The scientific program, i.e. plenary lectures, keynote lectures, oral presentations, and poster sessions are detailed in this booklet giving titles and author details. The whole abstracts of each day presentations can be downloaded via QR Codes reported in this booklet.

**TAXIS**

There are many taxi stops in the city and also at the Congress Center. You can also order a taxi by phone. Prices are set according to a basic charge and a set price per kilometer.

Taxi Lyon +33(0)4 72 10 86 86

Taxis Lyonnais +33(0)4 78 26 81 81

Taxis Villeurbannais +33(0)4 78 24 44 44

**TIPPING**

Service charges and VAT are included in the boarded prices in shops and restaurants.

**TOURIST INFORMATION**

See: <http://www.en.lyon-france.com/> or simply walk downtown and enjoy !

**VENUE**

The EPF 2017 Congress takes place at the Cité Internationale de Lyon - Lyon Convention Centre close to Lyon downtown on the bank of the Rhône river.

Address:

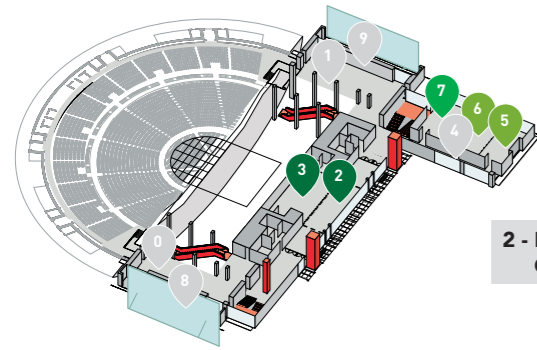
Centre des Congrès  
Cité Internationale de Lyon  
50 Quai Charles de Gaulle  
69463 Lyon

For more information:

<http://www.ccc-lyon.com/home>

**WIFI**

Wifi is available in the Congress Office area as well as at the Bellecour Forums 4-5-6, i.e. where the poster sessions, exhibition, coffee and lunch breaks take place.

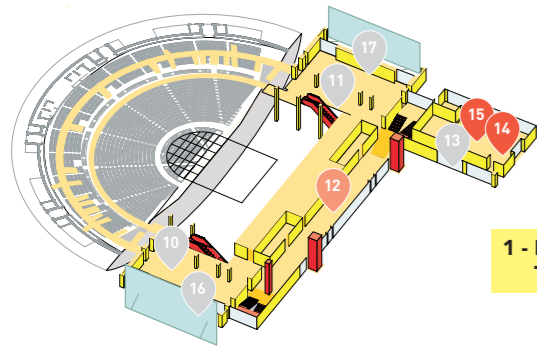


2 - LEVEL 2  
GRATTE-CIEL

2-3 GRAND P GRATTE CIEL

5-6 GRATTE CIEL 1 & 2

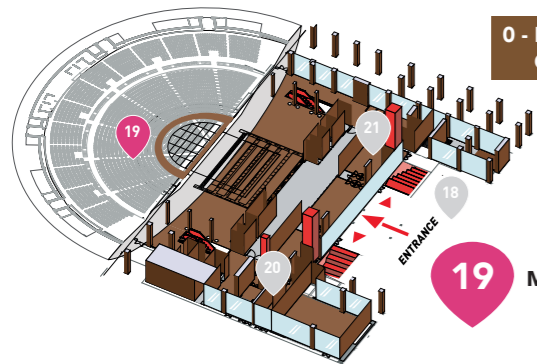
7 GRATTE CIEL 3



1 - LEVEL 1  
TÊTE D'OR

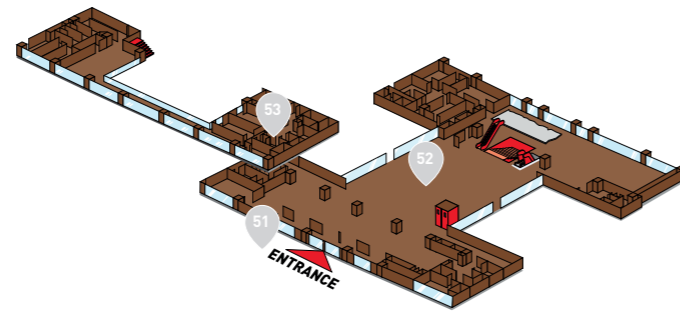
14-15 TÊTE D'OR 1 & 2

12 SALON TÊTE D'OR

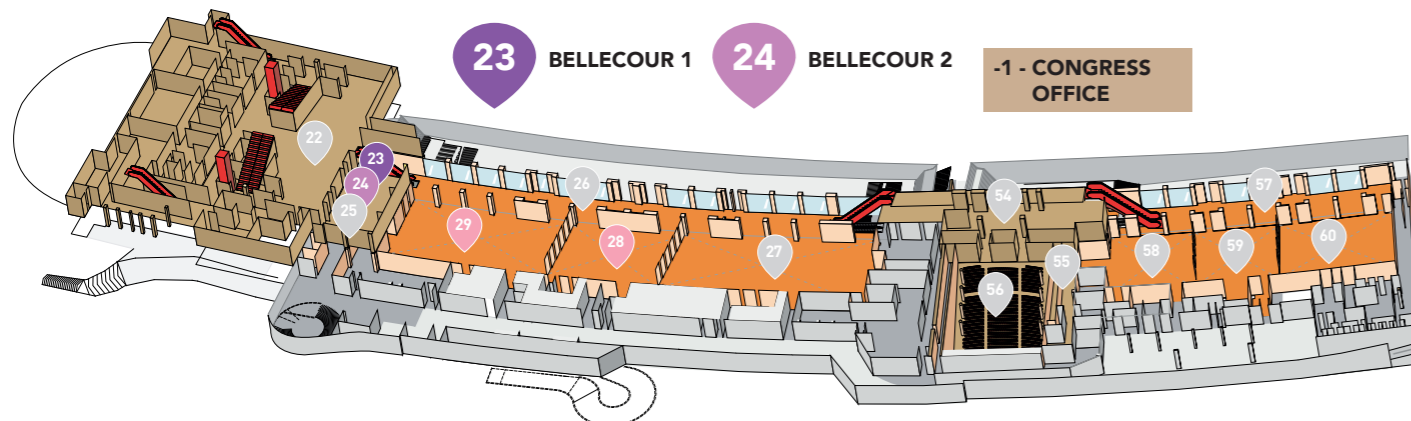


0 - LEVEL 0  
CORDELIERS

19 MAIN ROOM



-1 - CONGRESS  
OFFICE



28 29 FORUM 5 & 6

-2 - LEVEL FORUM

23 BELLECOUR 1

24 BELLECOUR 2

## PLENARY LECTURES

Plenary sessions consist with 10 plenary lectures (45 min) which will take place each day, i.e. from July 3<sup>rd</sup> to July 7<sup>th</sup>, 2017 in the auditorium room (Main Room).

- Prof. J.M. LEHN, Nobel Prize - *ISIS, Université Strasbourg (F) - Dynamers: Toward Adaptive Dynamic Polymers*
- Prof. MULHAUPT - *Freiburg University (D) - Multisite Polymerization Catalysis and Self-Reinforcing Polyolefins*
- Prof. E. GIANNELIS - *Cornell University (USA) - Ionic Nanocomposites : From Dynamic Bonding to Multi-Responsive Behavior*
- Prof. G. GUERRA - *Università degli Studi di Salerno (I) - Nanoporous-crystalline polymers and industrial innovations*
- Mr. S. KRISTIANSEN - *Sr. Director of Technology, Materials, Engineering & Quality - The LEGO Group (DN) The LEGO Group's Ambition and the Journey towards Sustainable Material*
- Dr. F. DE CAMPO - *Head of Technology Specialty Polymers SOLVAY (Italy) - New Horizons for Specialty Polymers*
- Prof. H. CHEN - *College of Chemistry, chemical Engineering and Materials Science, Soochow University, Suzhou, Jiangsu (China) Surface Modification: from solid surfaces to living cells*
- Prof. J.F. MANO - *Minho University (Portugal) - Polysaccharide-based soft microenvironments to control cell behavior*
- Dr. C. SANCHEZ - *Collège de France, Paris (France) - Integrative Chemistry of Hybrid Organic-Inorganic Materials*
- Prof. A. RYAN - *Sheffield University (UK) - What does "sustainable" mean in the context of polymers?*

## PARALLEL SESSIONS

Parallel sessions including keynote lectures (K 30 min) and lectures (L 15 min) are organized during all along the EPF Congress, i.e. from Monday July 3<sup>rd</sup> to mid-day Friday July 7<sup>th</sup>, 2017 on the following topics:

### • Macromolecular Chemistry :

From Precise Chemistry to industrial polymers  
New polymerization routes and controlled architectures  
Colloidal and interfacial polymer chemistries  
Greener and bio-based polymer chemistries: biosourced monomers and building blocks, greener catalysis, bioderived polymers

### • Processes & Polymers :

Polymerization Processes and Polymer Processing  
Chemical engineering for polymers, new reactors, energy-saving processes  
Rheology and formulations  
Processing polymers and additive polymer-based manufacturing

### • Physics of Polymers & Polymer Materials :

Soft Matter and Materials  
Adhesion, polymer colloids, gels, surfaces and interfaces  
New materials: nanostructured polymers and nanocomposites, porous polymers, polymer fibers, sustainable materials

### • Polymer Characterization Methods :

Advanced and Multiscale Characterization Techniques  
Macromolecular architecture and microstructure analyses  
On-line synthesis and processing methods  
High-throughput / combinatorial approaches

### • Modelling & Simulation :

Simulation of Polymer-Related Processes and Multiscale Modelling  
Theory, modelling, and simulations  
Computational methods (molecular, mesoscale, multiscale)  
Polymer simulations: From algorithms to applications

### • Australian-European Symposium :

*Chairs:* Prof. S. PERRIER – Warwick University (UK)  
Prof. F. D'AGOSTO (Université de Lyon/CNRS/C2P2)

## POSTER SESSIONS

There are 4 poster sessions, i.e. one each day from Monday July 3<sup>rd</sup> to Thursday July 6<sup>th</sup> after lunch break. Each poster session concerns all the topics (see the distribution within the 4 poster sessions in the following program). All of the poster sessions are in the Bellecour Forums 4-5-6 (downstairs), i.e. at the same place as the coffee and lunch breaks.

## INDUSTRIAL POLYMER FUTURE FORUM

An industrial forum involving polymer companies (producers, users) and polymer-dedicated industrial clusters from all around Europe is hosted on Wednesday July 5<sup>th</sup>, 2017 as a parallel session to the others. This forum is also combined with the two plenary lectures given by Dr. F. DE CAMPO and Mr. S. KRISTENSEN from SOLVAY and LEGO, respectively. This forum will be closed after a round-table with participation of many participants from polymer industry. All the presentations of this forum are open to any attendee.

## SMART POLYMER TEXTILES

A workshop involving participants from both Academy and Industry on smart polymer textiles is organized forum involving polymer companies (producers, users) and polymer-dedicated industrial clusters from all around Europe is hosted on Wednesday July 5<sup>th</sup>, 2017 as a parallel session to the others. This forum is also combined with the two plenary lectures given by Dr. F. DE CAMPO and Mr. S. KRISTENSEN from SOLVAY and LEGO, respectively. All the presentations of this workshop are open to any attendee.

## DOCTORATE HONORIS CAUSA CEREMONY

On July 4<sup>th</sup>, 2017 at 6:30 pm in the main amphitheater (Salle 3000), the INSA Lyon / University of Lyon confers on Prof. Emmanuel GIANNELIS the Honorary Degree of Doctor of Science honoris causa at a ceremony presided over by INSA Lyon President, Dr. Eric MAURINCOMME. All the participants of the EPF 2017 Congress are invited to join for attending the short closing speech from Prof. GIANNELIS.

## ➔ Sunday July 2

17:00 19:45	<b>Main Hall Bellecour</b>	<b>REGISTRATION</b>
18:30 20:00	<b>Forum 5 &amp; 6</b>	<b>WELCOME RECEPTION (included)</b>

## ➔ Monday July 3

9:00	<b>Main Room</b>	<b>OPENING CEREMONY</b>
9:30	<b>Main Room</b>	Plenary Lecture - Chair: B. VOIT Prof. Jean-Marie LEHN, Nobel Prize - ISIS, Université Strasbourg (F) - Dynamers: Toward Adaptive Dynamic Polymers
10:15	<b>Main Room</b>	Plenary Lecture - Chair: B. VOIT Prof. Rolf MULHAUPT - Freiburg University (D) - Multisite Polymerization Catalysis and Self-Reinforcing Polyolefins

Coffee break

11:00	<b>Gratte-Ciel 1 &amp; 2 - CHEM</b> Chairs: A. WALTHER / M.T. CHARREYRE	<b>Gratte-Ciel 3 - PHYS</b> Chairs: S. ANASTASIADIS / J. DUCHET	<b>Tête-d'Or 1 &amp; 2 - PHYS</b> Chairs: C. SINTUREL / S. LIVI	<b>Bellecour 1 - PROC</b> Chairs: M. DUSKOVA / E. BEYOU	<b>Bellecour 2 - CHAR</b> Chairs: P. TOPHAM / J. GALY
11:45	CHEM-K01 CERRUTI	CHEM-K02 VOIT	PHYS-K01 PUCCI	PROC-K01 ASUA	CHAR-K01 PARADOSSI
12:15	CHEM-L01 SAMER NAMEER	CHEM-L04 BANERJEE	PHYS-L01 BRULET	PHYS-L04 YE	CHAR-L01 BELLAYER
12:30	CHEM-L02 CAPELOT	CHEM-L05 LASCHEWSKY	PHYS-L02 OBRAZTSVA	PHYS-L05 MARIN	CHAR-L02 MILEVA
12:45	CHEM-L03 POLY	CHEM-L06 KULAI	PHYS-L03 YUAN	PHYS-L06 MONTES	CHAR-L03 AMARIE

On-site lunch break (included)

### POSTER SESSION - Chairs: R. FULCHIRON / J.C. MAJESTE

14:00	<b>Grand P Gratte-Ciel - CHEM</b> Chairs: D. GIGMES / J. BERNARD	<b>Gratte-Ciel 1 &amp; 2 - CHEM</b> Chairs: J. ASUA / C. BOISSON	<b>Gratte-Ciel 3 - PHYS</b> Chairs: J. PFELEGER / S. LIVI	<b>Tête-d'Or 1 &amp; 2 - PHYS</b> Chairs: P. MALFREY / A. FAVIER	<b>Bellecour 1 - PROC</b> Chairs: M. BOUQUEY / V. BOUNOR	<b>Bellecour 2 - CHAR</b> Chairs: A. ORTIN / J. GALY
14:45	CHEM-K03 HAKKARAINEN	CHEM-K04 LUTZ	PHYS-K03 ANASTASIADIS	PHYS-K04 SAN ROMAN	PROC-K02 WALTHER	CHAR-K02 TOPHAM
15:15	CHEM-L07 SCHAUNBERGER	CHEM-L11 ZINCK	PHYS-L07 LORTHIOIR	PHYS-L11 FERRARO	PROC-L04 PUCCI	CHAR-L04 COSTA-GOMEZ
15:30	CHEM-L08 TEULERE	CHEM-L12 MEZHOUD	PHYS-L08 FERNANDEZ-BLASQUEZ	PHYS-L12 MINGOTAUD	PROC-L05 DAI	CHAR-L05 SVANEBOG
15:45	CHEM-L09 STUMBE	CHEM-L13 LANSALOT	PHYS-L09 MARECHAL	PHYS-L13 HE	PROC-L06 ODENT	CHAR-L06 DALMAS
16:00	CHEM-L10 KEMPE	CHEM-L14 BUCHMEISER	PHYS-L10 POTEKIN	PHYS-L14 EISSA	PROC-L07 KLIMOV	CHAR-L07 KAJIWARA

Coffee break

16:15	<b>Grand P Gratte-Ciel - CHEM</b> Chairs: A. LASCHEWSKY / V. MONTEIL	<b>Gratte-Ciel 1 &amp; 2 - CHEM</b> Chairs: B. VOIT / M.T. CHARREYRE	<b>Gratte-Ciel 3 - PHYS</b> Chairs: P. UCCI / S. LIVI	<b>Tête-d'Or 1 &amp; 2 - PHYS</b> Chairs: J. SAN ROMAN / J. DUCHET	<b>Bellecour 1 - PROC</b> Chairs: J. LALEVEE / E. BEYOU	<b>Bellecour 2 - CHAR</b> Chairs: G. PARADOSSI / J. GALY
16:45	CHEM-K05 PEREGO	CHEM-K06 SAVE	PHYS-K05 PFELEGER	PHYS-K06 DORMIDONTOVA	PROC-K03 DUSKOVA	CHAR-K03 ORTIN
17:15	CHEM-L15 GIGMES	CHEM-L18 FAVIER	PHYS-L15 SERGHEI	PHYS-L18 CHARLOT	PROC-L08 AYCAN	CHAR-L08 ROLLET
17:30	CHEM-L16 BROCHON	CHEM-L19 BRUNS	PHYS-L16 CHEN	PHYS-L19 SINTUREL	PROC-L09 VILLAR/LOPEZ	CHAR-L09 HEIZMANN
17:45	CHEM-L17 CHARDIN	CHEM-L20 BELIBEL	PHYS-L17 SASAKI	PHYS-L20 RAMOS-CHAGAS	PROC-L10 KAR	CHAR-L10 SAXENA

## ➔ Tuesday July 4

8:30	<b>Main Room</b>	Plenary Lecture - Chair: S. ANASTASIADIS Prof. Emmanuel GIANNELIS - Cornell University (USA) - Ionic Nanocomposites : From Dynamic Bonding to Multi-Responsive Behavior
9:15	<b>Main Room</b>	Plenary Lecture - Chair: S. ANASTASIADIS Prof. Giuseppe GUERRA - Università degli Studi di Salerno (Italy) - Nanoporous-crystalline polymers and industrial innovations

Coffee break

10:45	<b>Grand P Gratte-Ciel - CHEM</b> Chair: E. FLEURY / V. MONTEIL	<b>Tête d'Or 1 &amp; 2 - PHYS</b> Chairs: L. GIORNO / S. PRUVOST	<b>Bellecour 1</b> Australian-European Symp. Chair: F. D'AGOSTO / S. PERRIER	<b>Gratte-Ciel 1 &amp; 2 - PHYS</b> Chairs: P. POTTSCHKE / J. DUCHET	<b>Bellecour 2 - PROC</b> Chairs: C. HOLLAND / E. BEYOU
10:45	CHEM-K07 DU PREZ	PHYS-K07 PEJS	AUS01 - HADDLETON	PHYS-K08 LONG	PROC-K04 PROC BERLUNG
11:15	CHEM-L21 BOHME	PHYS-L21 SELAMI	AUS02 - JUNKERS	PHYS-L27 MONTES	PROC-L11 DO
11:30	CHEM-L22 GARCIA-JUAN	PHYS-L22 MARTIN	AUS03 - HARRISSON	PHYS-L28 AGNIESKA	PROC-L12 RIGOTTI
11:45	CHEM-L24 SINGHA	PHYS-L23 HAYASHI	AUS04 - SCHACHER	PHYS-L28 CHENAL	PROC-L13 WANG (C)
12:00	CHEM-L24 BOERNER	PHYS-L24 DUNJIC		PHYS-L30 GOLD	PROC-L14 SOCCIO
12:15	CHEM-K08 WOISEL	PHYS-L25 LONJON		PHYS-L31 CHIBANI	PROC-L15 LE PLUART
12:30		PHYS-L26 ANUSIC			

On-site lunch break (included)

### POSTER SESSION - Chairs: R. FULCHIRON / J.C. MAJESTE - XENOCs Lunch Time Session "Nanoscale x-ray characterization of polymers in the laboratory"

14:15	<b>Grand P Gratte-Ciel - CHEM</b> Chairs: P. WOISEL / J. BERNARD	<b>Tête d'Or 1 &amp; 2 - PHYS</b> Chairs: CRETON / S. LIVI	<b>Bellecour 1</b> Australian-European Symp. Chair: C. BOISSON	<b>Gratte-Ciel 1 &amp; 2 - PHYS</b> Chairs: D. LONG / R. SEGUELA	<b>Bellecour 2 - PROC</b> Chairs: L. BERLUNG / V. BOUNOR	<b>Gratte-Ciel 3</b> Chair: J. KENNY
14:15	CHEM-K09 ODELIUS	PHYS-K09 GIORNO	AUS05 - HEUTS	PHYS-K10 POTTSCHKE	PROC-K06 HOLLAND	European Center for Nanostructured Polymers & Nanocomposites (ECNP) Industrial Advisory Board
14:45	CHEM-L25 FINNVEDEN	PHYS-L32 ESPUCHE	AUS06 - BARNER	PHYS-L37 SAINT MARTIN	PROC-L21 REYNAUD	
15:00	CHEM-L26 JEGAT	PHYS-L33 ESSAWY	AUS07 - SCHONHERR	PHYS-L38 SCHMOLKE	PROC-L22 BOSSION	
15:15	CHEM-L27 GAITZCH	PHYS-L34 SANGRONIZ		PHYS-L39 CARROT	PROC-L23 HWANG	
15:30	CHEM-L28 BAHETI	L PHYS-L35 FOLLAIN		PHYS-L40 DORENGE	PROC-L24 HE	
15:45	CHEM-L29 HEGE	PHYS-L36 WENZ		PHYS-L41 SOLLOGOUB	PROC-L25 REYES	

Coffee break

16:00	<b>Grand P Gratte-Ciel - CHEM</b> Chair: PDU PREZ / V. MONTEIL	<b>Tête d'Or 1 &amp; 2 - PHYS</b> Chairs: T. PEJUS / S. LIVI	<b>Bellecour 1</b> Australian-European Symp. Chair: H. SCHONHERR	<b>Gratte-Ciel 1 &amp; 2 - PHYS</b> Chairs: A. TERCJAKS / J. DUCHET	<b>Bellecour 2 - PROC</b> Chairs: L. LE PLUART / C. CARROT	<b>Gratte-Ciel 3</b> Chair: J. KENNY
16:30	CHEM-K10 IVAN	PHYS-K11 CRETON	AUS08 - CAMERON	PHYS-K12 BRUS	PROC-K07 CLAEYSSENS	European Center for Nanostructured Polymers & Nanocomposites (ECNP) Industrial Advisory Board
17:00	CHEM-L30 BOUSQUIE	PHYS-L42 MONDAL	AUS09 - MUELLNER	PHYS-L47 PINHERIO	PROC-L26 LALEVEE	
17:15	CHEM-L31 KUDRYAVSTEV	PHYS-L43 VAUTHIER		PHYS-L48 BRUN	PROC-L27 TANG	
17:30	CHEM-L32 CAIRNS	PHYS-L44 WU	AUS10 - QIAO	PHYS-L49 RAINNOU	PROC-L28 THIRE	
17:45	CHEM-L33 SIDDIQI	PHYS-L45 DOEHLER		PHYS-L50 SOULESTIN	PROC-L29 MARTELLA	
18:00	CHEM-L34 SZYMANSKI	PHYS-L46 BLIN		PHYS-L51 BESSAGUET	PROC-L30 SABATINI	

### Main Room

**Docteur Honoris Causa / Honorary Doctorate Ceremony for Prof. Emmanuel GIANNELIS**



# Simplified General Program

9:00	<p><b>Main Room</b></p> <p>Plenary Lecture - Chair: M. LAUS - S. KRISTIANSEN - Sr. Director of Technology, Materials, Engineering &amp; Quality The LEGO Group (Denmark) - The LEGO Group's Ambition and the Journey towards Sustainable Materials</p>			
9:45	Coffee break			
	<p><b>Bellecour 1 &amp; 2</b> Polymers Industrial Future Forum Chair: J.M. MAS AXELERA Industrial Cluster</p>	<p><b>Gratte-Ciel 3</b> Smart Polymer Textiles Chair: B. MOUGIN TECHTERA Industrial Cluster</p>	<p><b>Grand P. Gratte-Ciel - CHEM</b> Chairs: E. DROCKENMULLER / V. MONTEIL</p>	<p><b>Tête d'Or 1 &amp; 2 - MOD</b> Chairs: A. SOLDERA / C. CARROT</p>
10:15	<p>A Prospective Platform to Develop Innovation Together P. CASSAGNAU Lyon Polymer Science Engineering LPSE (F)</p>	<p>Electroactive Dielectric Soft Polymer Materials for Electro-Optical Actuators and Sensors T. HIRAI - Shinshu Univ. (J)</p>	<p>CHEM-K13 KHOKHLOV</p>	<p>MOD-K01 RAPHAEL</p>
10:30	<p>Polymer Competence Center Leoben: Bridging the Gap from Science to Industry M. PAYER PCCL (Austria)</p>	<p>Energy Harvesting Piezoelectric Melt Spun Mono and Tri-Component PVDF Fibers A. TALBOURDET - ENSAIT (F)</p>	<p>PHYS-K13 MULLER-BUSCHBAUM</p>	<p>MOD-L02 GOVORUN</p>
10:45	<p><b>POLYMAT:</b> Strengthening University-Industry Relationships J.M. ASUA - POLYMAT (Spain)</p>	<p>Innovative Medical Devices: Light-Emitting Textiles for Dermatologic Treatments N. BOUCARD - TEXINOV (F)</p>	<p>CHEM-L35 LEWIS</p>	<p>MOD-L03 TIMMERMANN</p>
11:00	<p>High Performance Materials and Composite Solutions J.J.FLAT - ARKEMA Co. (F)</p>	<p>Composite Polymer Nanocomposite Yarn for Textile Sensing Applications C. AUBRY - IFTH (F)</p>	<p>CHEM-L36 VITALE</p>	<p>MOD-L04 RISSANOU</p>
11:15	<p>Open Innovation at Bluestar Silicones S. SCHNEIDER Bluestar Silicones (F)</p>	<p>Functional Microgel-Based Fibers A. PICH - DWI Leibniz Institute for Interactive Materials (D)</p>	<p>CHEM-L37 HAAS</p>	<p>MOD-L05 SOLDERA</p>
11:30	<p>P. SONNTAG - HUTCHINSON (F)</p>	<p>E. ISMAILOVA - EMSE (F)</p>	<p>CHEM-L38 PLACET</p>	<p>MOD-L06 LOEHLE</p>
11:45	<p>Continuous Flow Technologies for New Functionalized Polyolefin Product Push Collaborative Innovation V.HENRYON - ACTIVATION (F)</p>	<p>Toward the 100% Polymer-Based Piezo-Electric Fiber S. JESTIN - CANOE (F)</p>	<p>CHEM-L39 SANGERMANO</p>	<p>MOD-L07 BILLON</p>

**POSTER SESSION - Chairs: R. FULCHIRON / J.C. MAJESTE**

On-site lunch break (included)

**Main Room**

Dr. F. DE CAMPO - Head of Technology Specialty Polymers SOLVAY (Italy) - New Horizons for Specialty Polymers

Plenary Lecture - Chair: R. MULHAUPT

	<p><b>Bellecour 1 &amp; 2</b> Polymers Industrial Future Forum Chair: P. VUILLERMOZ Plastipolis Industrial Cluster</p>	<p><b>Gratte-Ciel 3</b> Smart Polymer Textiles Chair: B. MOUGIN TECHTERA Industrial Cluster</p>	<p><b>Grand P. Gratte-Ciel - CHEM</b> Chairs: C. BROCHON / M.T. CHARREYRE</p>	<p><b>Tête d'Or 1 &amp; 2</b> MOD Chairs: A. ARBE / F. LORTIE</p>
14:30	<p>DPI: Concept, Approach and Success stories in Polyolefins, Performance Polymers and CoatingsDutch Polymer Institute J. STAMHUIS - DPI (NL)</p>	<p>Fabrication of Engineered Cross-Section Through Melt-Spinning Process T. KIKUTANI - Tokyo Inst. Technol (J)</p>	<p>CHEM-K12 MECERREYES</p>	<p>MOD-K03 PERRIN</p>
14:45	<p>Thermoplastic composite hybrid molding: Advances in processing, characterization, and FEM analysis M. MONTI - PROPLAST (Italy)</p>	<p>Smart Textiles: Permanent Function with Refillable Capsules Graft on Fibers Y. FRERE ICS - Strasbourg (F)</p>	<p>PHYS-K14 NANNI</p>	<p>MOD-K04 ARBE</p>
15:00	<p>Polymers in Cable Systems an answer to Megatrends from NEXANS - A.ALLAIS - NEXANS Co. (F)</p>	<p>Functionalization of flax fibres by radiation-grafting S. ROUIF - IONISOS Co. (F)</p>	<p>CHEM-L40 RAYNAUD</p>	<p>MOD-L05 SOLDERA</p>
15:15	<p>On the Use of Polymers in a Mineral World B. JAFFRENNOU - SAINT-GOBAIN Co.(F)</p>	<p>3D Printed Polymers and Nanocomposites on Textiles: Characterization and Adhesion Properties Razieh HASHEMI-SANA - ENSAIT (F)</p>	<p>CHEM-L41 DROCKENMULLER</p>	<p>MOD-L06 LOEHLE</p>
15:30	<p>Scientific and Technological Challenges developing Industrial Advances Carbon Nanotubes Polyolefin Compounds - O.LHOST - TOTAL (Belgium)</p>	<p>FIMATEST - An Automated Test System for Measuring the Fibre-Matrix Adhesion MORSCHHEL - TEXTECHNO (D)</p>	<p>CHEM-L42 MONNEREAU</p>	<p>MOD-L07 BILLON</p>

Coffee break

	<p><b>Bellecour 1 &amp; 2</b> Polymers Industrial Future Forum Chair: P. VUILLERMOZ PLASTIPOLIS Industrial Cluster</p>	<p><b>Gratte-Ciel 3</b> Smart Polymer Textiles Chair: B. MOUGIN TECHTERA Industrial Cluster</p>	<p><b>Grand P. Gratte-Ciel - CHEM</b> Chairs: J. RAYNAUD / V. MONTEIL</p>	<p><b>Tête d'Or 1&amp;2 - MOD</b> Chairs: L. PERRIN / F. LORTIE</p>
16:15	<p>Innovation in Polymer Films by Toray J.FALDYSTA - TORAY Co. (F)</p>	<p>Modification of Textiles Using Electron Beam Graft Polymerization T. HORI - Fukui Univ. (J)</p>	<p>CHEM-K16 COQUERET</p>	<p>MOD-K04 ARBE</p>
16:30	<p>KEM ONE, a major European Player in the PVC and CPVC Industry P. MOREL - KEM ONE (F)</p>	<p>Preparation and Characterization of Polyhydroxy-alkoalate Electrospun Fibers for Drug Release R. CHARIFOU Trinity College Dublin (Ireland)</p>	<p>CHAR-K04 WEIL</p>	<p>MOD-L08 CHEN</p>
16:45	<p>Polymers in Pharma and Medical technology G. OENBRINK - Corporate Innovation EVONIK (Germany)</p>	<p>Contribution of Electrospinning to Fabricate Functional Materials and Fibers V. SALLES - Univ. Lyon (F)</p>	<p>CHEM-L43 BARSÌ</p>	<p>MOD-L09 KUDRYAVTSEV</p>
17:00		<p>Shape Memory Fibers (SMF) Obtained from Simple Electro-Spinning of Cationically Polymerized Epoxy/ Polycaprolactone Blends A. IREGUI Euskal Herriko Unibertsitatea-Donostia (E)</p>	<p>CHEM-L44 DEZ</p>	

**PANEL Discussion - Future of Polymers and Collaborative Innovation - Chair: D. BLANC BSI**  
 N.CUDRE-MAUROUX - Group General Manager Research & Innovation SOLVAY  
 F.DELANGE - Advanced Materials and Processes Director SCHNEIDER ELECTRIC  
 G. OENBRINK - Prof. Dr. Corporate Innovation EVONIK  
 A.PONNOURADJOU - Senior Vice President Research and Innovation CTO HUTCHINSON  
 N.SCHERBAKOFF - Research and Innovation Auto Exterior-VP PLASTIC OMNIUM  
 N.SEEBOTH - Polymers and Chemical Additives Research Director MICHELIN

**Main Room**

## Thursday July 6

8:30	<b>Main Room</b>	Plenary Lecture - Chair: A.J. RYAN - Prof. Hong CHEN Surface Modification: from solid surfaces to living cells College of Chemistry, chemical Engineering and Materials Science, Soochow University, Suzhou, Jiangsu (China)
9:15	<b>Main Room</b>	Plenary Lecture - Chair: A.C. ALBERTSSON Prof. J.F. MANO - Polysaccharide-based soft microenvironments to control cell behavior Minho University (Portugal)
10:00	<b>Main Room</b>	Presentation EPF 2019
10:15	Coffee break	

10:45	Grand P Gratte-Ciel - CHEM Chairs: O. COLOMBANI / D. PORTINHA	Gratte-Ciel 1 & 2 - CHEM Chairs: P. ZINCK / M.T. CHARREYRE	Tête-d'Or 1 & 2 - PHYS Chairs: STEPANEK / J. GALY	Bellecour 1 - PROC Chairs: DUCHATEAU / CASSAGNAU	Bellecour 2 - CHAR Chairs: MICHAUD / DUCHET	Gratte-Ciel 3 - PHYS Chairs: J. ULANSKI / S. LVI
10:45	CHEM-K14 HUTCHINGS	CHEM-K15 SEVERN	PHYS-K15 ETRYCH	PHYS-K16 FINA	PROC-K08 McNALLY	PHYS-K17 LAUS
11:15	CHEM-L45 TENHU	CHEM-L50 VANTOMME	PHYS-L60 TRIMAILLE	PHYS-L65 TAGUET	PROC-L31 RUCH	PHYS-L70 MA
11:30	CHEM-L46 GUERRE	CHEM-L51 OTTOU	PHYS-L61 APPELLHANS	PHYS-L66 ALTOBELLI	PROC-L32 SPIEGEL	PHYS-L71 GRANDE
11:45	CHEM-L47 RANNARD	CHEM-L52 POMPOSO	PHYS-L62 ECKARDT	PHYS-L67 DERRADJI	PROC-L33 SRINIVAS	PHYS-L72 XU YITING
12:00	CHEM-L48 RIEGER	CHEM-L53 SINCLAIR	PHYS-L63 CAZARES-CORTES	PHYS-L68 JAILLET	PROC-L34 CARDOSO	PHYS-L73 ISRAEL
12:15	CHEM-L49 ZHAO (W.)	CHEM-L54 LEFAY	PHYS-L64 PONJAVIC	PHYS-L69 GALVAN-TORRES	PROC-L35 VILLOTTE	PHYS-L74 KOVALENKO

12:30 On-site lunch break (included)

13:30 **POSTER SESSION** - Chairs: R. FULCHIRON / J.C. MAJESTE

14:15	Grand P Gratte-Ciel - CHEM Chairs: J. RIEGER / J. BERNARD	Gratte-Ciel 1 & 2 - CHEM Chairs: T. TENHU / C. BOISSON	Tête-d'Or 1 & 2 - PHYS Chairs: H. FRIEDRICH / A. FAVIER	Bellecour 1 - PROC Chairs: F. PUGLIA / P. CASSAGNAU	Bellecour 2 - CHAR Chairs: McNALLY / R. SEGUELA	Gratte-Ciel 3 - PHYS Chairs: D. GRANDE / J. DUCHET
14:15	CHEM-K16 MIJANGOS	CHEM-K17 COLOMBANI	PHYS-K18 STEPANEK	PHYS-K19 DUCHATEAU	PROC-K09 MICHAUD	PHYS-K20 ULANSKI
14:45	CHEM-L55 NOORDZIJ	CHEM-L60 BERTIN	PHYS-L75 ZHUANG	PHYS-L80 CANDAU	PROC-L36 DEPLANCKE	PHYS-L85 PEARSON
15:00	CHEM-L56 GRACE	CHEM-L61 HIETALA	PHYS-L76 MINGOTAUD	PHYS-L81 KERSCHER	PROC-L37 FERNANDES-FRANCOS	PHYS-L86 BOUVET-MARCHAND
15:15	CHEM-L57 HRUBY	CHEM-L62 ABOUDZADEH	PHYS-L77 RIPPE	PHYS-L82 RADJABIAN	PROC-L38 GENTY	PHYS-L87 THERIAS
15:30	CHEM-L58 KALI	CHEM-L63 ULRICH	PHYS-L78 NOTTELET	PHYS-L83 LINDNER	PROC-L39 HORSCH	PHYS-L88 CARBONE
15:45	CHEM-L59 CHARREYRE	CHEM-L64 LEFAY	PHYS-L79 SILVA	PHYS-L84 ALRAHHAL	PROC-L40 BONNAUD	PHYS-L89 SAFIDINE

16:00 Coffee break

## Simplified General Program

## Friday July 7

8:30	<b>Main Room</b>	Plenary Lecture - Chair: H. CHEN Dr. Clément SANCHEZ - Collège de France, Paris (France) - Integrative Chemistry of Hybrid Organic-Inorganic Materials
9:15	<b>Main Room</b>	Plenary Lecture - Chair: E. GIANNELIS Prof. Anthony RYAN - Sheffield University (UK) - What does "sustainable" mean in the context of polymers?

10:00 Coffee break

10:45	Grand P Gratte-Ciel Chairs: A. DURAND / J. BERNARD	Gratte-Ciel 1 & 2 Chairs: R. SAINT LOUP / A. CHARLOT	Gratte-Ciel 3 Chairs: E. NICOL / S. LVI	Tête d'Or 1 & 2 - PHYS Chairs: A.F. MINGOTAUD / R. SEGUELA	Bellecour 1 & 2 - PROC Chairs: H. BENES / J.C. MAJESTE
10:45	CHEM-K23 GEORGIU	CHEM-K21 PAPPALARDO	PHYS-K25 DUCHET	PHYS-K26 PRUVOST (M.)	PROC-K10 BOUNOR-LEGARE
11:15	CHEM-L73 JENNINGS	CHEM-L78 JACQUEL	PHYS-L106 OPRIS	PHYS-L111 AUREMMA	PROC-L41 LO RE GIADA
11:30	CHEM-L74 MAKUSKA	CHEM-L79 DE BON	PHYS-L107 SALOMATINA	PHYS-L112 SOTTA	PROC-L42 BOUQUEY
11:45	CHEM-L75 WILLIAMS	CHEM-L80 KUCKLING	PHYS-L108 COMORETTO	PHYS-L113 MIQUELARD-GARNIER	PROC-L43 FREYMOND
12:00	CHEM-L76 ALMDAL	CHEM-L81 SLOMKOWSKI	PHYS-L109 LE MARTINEL	PHYS-L114 CARRIERE	PROC-L44 RIGOUSSEN
12:15	CHEM-L77 DENIAU	CHEM-L82 VENKATARAMAN	PHYS-L110 MUSSAULT	PHYS-L115 RAPP	PROC-L45 KUNZ

12:45 **Main Room**

**CLOSING CEREMONY**

13:00 On-site lunch break (included)

# Detailed Daily Scientific program

## ➔ Sunday July 2

### Main Hall Bellecour

17:00 / 19:45

REGISTRATION

### Forum 5 & 6

18:30 / 20:00

WELCOME RECEPTION (included)

## ➔ Monday July 3

### Main Room

## OPENING CEREMONY



09:00

09:30 PLENARY LECTURE - **Chair: B. Voit**

**DYNAMERS: TOWARD ADAPTATIVE DYNAMIC POLYMERS**

*Prof. Jean-Marie Lehn, Nobel Prize - ISIS, Université Strasbourg (F)*

10:15 **MULTISITE POLYMERIZATION CATALYSIS AND SELF-REINFORCING POLYOLEFINS**

*Prof. Rolf Mulhaupt - Freiburg University (D)*

11:00

COFFEE BREAK

### Grand P Gratte-Ciel

## MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS

**Chairs: J.F. Lutz / V. Monteil**

11:45 **CHEM-K01 CERRUTI**

LIGHT-RESPONSIVE POLYMER NANOCAPSULES

*Pierfrancesco Cerruti, CNR-Istituto di Chimica e Tecnologia dei Polimeri-Pozzuoli (I)*

12:15 **CHEM-L01 SAMER NAMEER**

ONE-COMPONENT THIOL-EPOXY FUNCTIONAL POLYESTER RESIN VIA ENZYME CATALYSIS FROM PARTLY BIO-BASED MONOMERS FOR THERMOSET APPLICATIONS

*Nameer Samer, Royal Institute of Technology (S)*

12:30 **CHEM-L02 CAPELOT**

RILSAN® HT, THE FIRST FLEXIBLE HIGH TEMPERATURE POLYAMIDE

*Mathieu Capelot, Arkema (F)*

12:45 **CHEM-L03 POLY**

RECENT DEVELOPMENTS IN THE FIELD OF PHOTO-MEDIATED REVERSIBLE DEACTIVATION RADICAL POLYMERIZATIONS

*Julien Poly, Institut de Science des Matériaux de Mulhouse (F)*

13:00

ON-SITE LUNCH BREAK (included)

**Chairs: D. Gigmes / J. Bernard**

14:45 **CHEM-K03 HAKKARAINEN**

BIOBASED CARBON DOTS AS PROPERTY ENHANCERS IN BIO-PACKAGING AND BIOMEDICAL MATERIALS

*Minna Hakkarainen, Department of Fibre and Polymer Technology, KTH Royal Institute of Technology, Stockholm (S)*

15:15 **CHEM-L07 SCHONBERGER**

TRANSPARENT AND TOUGHNESS-MODIFIED ACRYLATE BASED GRAFT COPOLYMERS BY FREE-RADICAL POLYMERIZATION

*Frank Schönberger, Fraunhofer Institute for Structural Durability and System Reliability (D)*

15:30 **CHEM-L08 TEULERE**

FUNCTIONAL BRANCHED POLYMERS BY RADICAL POLYMERIZATION AND THIOCHEMISTRY

*Coralie Teulere, Laboratoire Matière Molle et Chimie (F)*

15:45 **CHEM-L09 STUMBE**

SYNTHESIS OF HYPERBRANCHED POLYGLYCEROLS WITH SPECIFIC FUNCTIONAL CORES FOR THE DESIGN OF COMPLEX MACROMOLECULAR ARCHITECTURES

*Jean-François Stumbe, Laboratoire de Photochimie et d'Ingénierie Macromoléculaires (F)*

16:00 **CHEM-L10 KEMPE**

SPONTANEOUS ZWITTERIONIC COPOLYMERISATION OF CYCLIC IMINO ETHERS

*Kristian Kempe, Monash University (AUS)*

16:15

COFFEE BREAK

**Chairs: A Laschewsky / V. Monteil**

16:45 **CHEM-K05 PEREGO**

STEPWISE DOPING LEVEL IN SEMICONDUCTORS VIA SELFASSEMBLED MONOLAYERS OF P-TERMINATED HOMOPOLYMERS

*Michele Perego, CNR-IMM (I)*

17:15 **CHEM-L15 GIGMES**

SYNTHESIS OF SINGLE-ION BAB TRIBLOCK COPOLYMERS AS EFFICIENT ELECTROLYTES FOR LITHIUM METAL BATTERIES

*Didier Gigmes, Institut de Chimie Radicalaire, Université de Marseille (F)*

17:30 **CHEM-L16 BROCHON**

NOVEL PI-CONJUGATED POLYMERS SYNTHESIZED VIA METAL-FREE CONDENSATION FOR ORGANIC ELECTRONICS

*Cyril Brochon, LCPO - Université de Bordeaux (F)*

17:45 **CHEM-L17 CHARDIN**

PREPARATION OF NEW IONIC AND POLYFUNCTIONAL MONOMERS AS POLYELECTROLYTE PRECURSORS

*Charline Chardin, Laboratoire de Chimie Moléculaire et Thioorganique (F)*

### Gratte-Ciel 1 & 2

## MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS

**Chairs: A. Walther / M.T. Charreyre**

11:45 **CHEM-K02 VOIT**

MULTIFUNCTIONAL, RESPONSIVE HYDROGELS AND NANOREACTORS AS SELECTIVE COMPARTMENTS AND ACTUATORS IN MICROFLUIDICS

*Brigitte Voit, Leibniz-Institut für Polymerforschung Dresden e. V. (D)*

12:15 **CHEM-L04 BANERJEE**

SYNTHESIS OF CURCUMIN LOADED SELF-HEALABLE HYDROGEL USING CORE-CROSSLINKED CATIONIC AND ANIONIC BLOCK CO-POLYMER PREPARED VIA TAILOR MADE RAFT POLYMERIZATION AND DIELS-ALDER "CLICK" CHEMISTRY: ITS BIOMEDICAL APPLICATION

*Sovan Lal Banerjee, Indian Institute of Technology Kharagpur (India)*

12:30 **CHEM-L05 LASCHEWSKY**

ZWITTERIONIC POLYMERS AS VERSATILE BUILDING BLOCKS FOR MULTI-RESPONSIVE AND BIOCOMPATIBLE SYSTEMS

*Andre Laschewsky, Fraunhofer Institute of Applied Polymer Research (D)*

12:45 **CHEM-L06 KULAI**

ONE-POT SYNTHESIS OF THERMORESPONSIVE BLOCK-LIKE GRADIENT COPOLYMERS

*Ihor Kulai, Laboratoire des Interactions Moléculaires et de la Réactivité Chimique et Photochimique (F)*

13:00

ON-SITE LUNCH BREAK (included)

**Chairs: J. Asua / C. Boisson**

14:45 **CHEM-K04 LUTZ**

DIGITAL POLYMERS: A NEW CLASS OF MAN-MADE MACROMOLECULES

*Jean-François Lutz, Institut Charles Sadron (F)*

15:15 **CHEM-L11 ZINCK**

DESIGN OF MULTIBLOCK POLYMERS BY CHAIN SHUTTLE POLYMERIZATION

*Philippe Zinck, UCCS - Unité de Catalyse et Chimie du Solide, Université de Lille (F)*

15:30 **CHEM-L12 MEZHOUD**

NEW INSIGHTS INTO THE MORPHOLOGY OF BIPOROUS POLYMERIC MATERIALS OBTAINED BY THE DOUBLE POROGEN TEMPLATING APPROACH

*Sarra Mezhoud, Laboratoire Navier, Laboratoire MSME, Institut de Chimie et des Matériaux Paris-Est (F)*

15:45 **CHEM-L13 LANSALOT**

HYDROPHILIC MACRORAFT OR CLAY PLATELETS FOR THE SYNTHESIS OF SURFACTANT-FREE PVDC LATEXES

*Muriel Lansalot, C2P2 - Chemistry, Catalysis, Polymers, and Processes (F)*

16:00 **CHEM-L14 BUCHMEISER**

PRECISION POLYMERS VIA STEREO- AND REGIOREGULAR RING-OPENING METATHESIS (CO-) POLYMERIZATION

*Michael R. Buchmeiser, University of Stuttgart (F)*

16:15

COFFEE BREAK

14:00

POSTER SESSION - **Chairs: R. Fulchiron / J.C. Majeste**

Gratte-Ciel 1 & 2

**MACROMOLECULAR CHEMISTRY:  
FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS**

**Chairs: B. Voit / M.T. Charreyre**

- 16:45 **CHEM-K06 SAVE**  
THERMORESPONSIVE POLY(N-VINYL CAPROLACTAM) MICROGELS SYNTHESIZED BY EMULSION POLYMERIZATION FROM A REACTIVE CATIONIC MACROMOLECULAR CHAIN TRANSFER AGENT  
*Maud Save, IPREM - Equipe de Physique et Chimie des Polymères (F)*
- 17:15 **CHEM-L18 FAVIER**  
LABELING OF PROTEINS WITH FLUORESCENT RAFT POLYMERS  
*Arnaud Favier, Ingénierie des Matériaux Polymères (F)*
- 17:30 **CHEM-L19 BRUNS**  
BIOCATALYTIC ATRP AS DIAGNOSTIC TOOL FOR THE DETECTION OF BLOOD-RELATED DISEASES  
*Nico Bruns, Adolphe Merkle Institute (CH)*
- 17:45 **CHEM-L20 BELIBEL**  
SYNTHESIS AND CHARACTERIZATIONS OF NEW BIODEGRADABLE POLYESTERS DERIVED OF POLY([R,S]-3,3-DIMETHYLMALIC ACID) FOR CARDIOVASCULAR APPLICATION  
*Rima Belibel, Laboratory For Vascular Translational Science (Lvts), Institut Galilée (F)*

Gratte-Ciel 3

**PHYSICS OF POLYMERS AND POLYMER MATERIALS**

**Chairs: S. Anastasiadis / J. Duchet**

- 11:45 **PHYS-K01 PUCCI**  
FLUORESCENT MOLECULAR ROTORS IN MATERIALS SCIENCE  
*Andrea Pucci, Department of Chemistry and Industrial Chemistry (I)*
- 12:15 **PHYS-L01 BRULET**  
MIXING BLOCK COPOLYMERS WITH PHOSPHOLIPIDS AT THE NANOSCALE: FROM HYBRID POLYMER/LIPID WORM-LIKE MICELLES TO VESICLES PRESENTING LIPID NANO-DOMAINS  
*Annie Brûlet, Laboratoire Léon Brillouin (F)*
- 12:30 **PHYS-L02 OBRAZTSVA**  
NEW SUPRAMOLECULAR STRUCTURES OF FULLERENE BASED ON AMPHIPHILIC BRANCHED COPOLYMERS OF N-VINYLPYRROLIDONE  
*Nadezhda Obraztsova, Institute of Problems of Chemical Physics, Russian Academy of Sciences (RUS)*
- 12:45 **PHYS-L03 YUAN**  
SYNTHESIS OF B,N-DOPED POROUS CARBON MATERIALS ENCAPSULATED WITH PT NANOPARTICLES  
*Conghui Yuan, Xiamen University (China)*

13:00 ON-SITE LUNCH BREAK (included)

**Chairs : J. Pfleger / S. Livi**

- 14:45 **PHYS-K03 ANASTASIADIS**  
EFFECT OF SPATIAL CONFINEMENT ON POLYMER STRUCTURE AND DYNAMICS  
*Spiros Anastasiadis, Foundation for Research and Technology / Institute of Electronic Structure and Laser, University of Crete (G)*
- 15:15 **PHYS-L07 LORTHIOIR**  
BRIDGES AND LOOPS IN THE LAMELLAR STRUCTURE OF A SYMMETRIC TRIBLOCK: A SOLID-STATE NMR INVESTIGATION  
*Cédric Lorthioir, Institut de Chimie et des Matériaux Paris-Est (F)*
- 15:30 **PHYS-L08 FERNANDEZ-BLASQUEZ**  
PHASE BEHAVIOR OF ANNEALED CNT FIBERS/PVDF COMPOSITES STUDIED BY SYNCHROTRON X-RAY DIFFRACTION  
*Juan Pedro Fernandez-Blazquez, Institute IMDEA Materials (E)*
- 15:45 **PHYS-L09 MARECHAL**  
INSIDE THE STRUCTURATION OF POLYMER/IONIC-LIQUID MIXTURES  
*Manuel Maréchal, Systèmes Moléculaires et nanoMatériaux pour l'Energie et la Santé (F)*
- 16:00 **PHYS-L10 POTEKIN**  
POLYMER MICROGELS AT LIQUID INTERFACES  
*Igor Potemkin, Lomonosov Moscow State University - MSU (RUS)*

16:15 COFFEE BREAK

**Chairs: Pucci / S. Livi**

- 16:45 **PHYS-K05 PFLEGER**  
EXCITON DYNAMICS IN OLIGOTHIOPHENE-BASED METALLO-SUPRAMOLECULAR POLYMERS  
*Jiri Pfleger, Institute of Macromolecular Chemistry ASCR (CZ)*
- 17:15 **PHYS-L15 SERGHEI**  
COUPLED MECHANICAL-ELECTRICAL INVESTIGATION ON ELASTOMERIC COMPOSITE MATERIALS AND DYNAMICS OF POLYMERS AT SOFT INTERFACES  
*Anatoli Serghei, Ingénierie des Matériaux Polymères (F)*
- 17:30 **PHYS-L16 CHEN**  
DYNAMIC ORDERING AND PHASE SEGREGATION IN HYDROGEN-BONDED POLYMERS  
*Senbin Chen, Faculty of Natural Science II, Martin Luther University Halle-Wittenberg (D)*
- 17:45 **PHYS-L17 SASAKI**  
CRYSTALLIZATION BEHAVIOUR OF POLY(-CAPROLACTONE) IN SPIN-COATING FILM-FORMING PROCESSES  
*Sono Sasaki, Fac. Fiber Sci. Eng., Kyoto Inst. Tech. (J)*

Tête d'Or 1 & 2

**PHYSICS OF POLYMERS AND POLYMER MATERIALS**

**Chairs: C. Sinturel / S. Livi**

- 11:45 **PHYS-K02 MALFREY**  
MULTISCALE MODELING OF THE POLYMER MATERIALS - *Patrice Malfreyt, Institut de Chimie de Clermont-Ferrand (F)*
- 12:15 **PHYS-L04 YE**  
BIMORPH SILK MICRO-ORIGAMI WITH PROGRAMMABLE ACTUATING BEHAVIOR  
*Chunhong Ye, Leibniz Institute of Polymer Research, Dresden (D) / Georgia Institute of Technology (USA)*
- 12:30 **PHYS-L05 MARIN**  
DEVELOPMENT OF DYNAMERIC HYDROGELS BY DYNAMIC CONSTITUTIONAL CHEMISTRY  
*Luminita Marin, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, 700487 (RO)*
- 12:45 **PHYS-L06 MONTES**  
THE ROLE OF DYNAMICAL HETEROGENEITIES ON THE MECHANICS OF POLYMER GLASSES  
*Helene Montes, Laboratoire Sciences et Ingénierie de la Matière Molle (F)*

13:00 ON-SITE LUNCH BREAK (included)

**Chairs: P. Malfreyt / A. Favier**

- 14:45 **PHYS-K04 SAN ROMAN**  
AMPHIPHILIC SEQUENTIAL COPOLYMERS FOR SELF-ASSEMBLING AND ADVANCED APPLICATIONS IN DRUG TARGETING AND RELEASE  
*Julio San Roman, Instituto de Ciencia y Tecnología de Polímeros y CIBER-BBN*
- 15:15 **PHYS-L11 FERRARO**  
SECONDARY STRUCTURE OF NATURAL COLLAGEN FROM BOVINE BONES BY CIRCULAR DICHROISM SYNCHROTRON RADIATION  
*Vincenza Ferraro, Qualité des Produits Animaux, INRA (F)*
- 15:30 **PHYS-L12 MINGOTAUD**  
PHOTO-TUNABLE HYDROGEL WITH CONTROLLED STIFFNESS  
*Anne-Françoise Mingotaud, Interactions Moléculaires et Réactivité Chimique et Photochimique (F)*
- 15:45 **PHYS-L13 HE**  
INFLAMMATION-SENSITIVE SELF-REGULATED DRUG RELEASE FROM ULTRATHIN HEPARIN-MIMICKING HYDROGEL COATING  
*Min He, Sichuan University (China)*
- 16:00 **PHYS-L14 EISSA**  
EMULSION-TEMPLATED POROUS POLYMER SCAFFOLDS FOR 3D CELL CULTURE AND TISSUE ENGINEERING  
*Ahmed Eissa, University of Warwick (UK)*

16:15 COFFEE BREAK

**Chairs: J. San Roman / J. Duchet**

- 16:45 **PHYS-K06 DORMIDONTOVA**  
POLYETHYLENE OXIDE HELIX FORMATION INSIDE CARBON NANOTUBES  
*Elena Dormidontova, Institute of Materials Science and Physics Department, University of Connecticut (USA)*
- 17:15 **PHYS-L18 CHARLOT**  
STEREOCOMPLEX DRIVEN ASSEMBLY OF ENANTIOMERIC POLY(VINYL ALCOHOL)-G-OLIGO(LACTIDE) TO GENERATE DIP- AND SPIN-ASSISTED MULTILAYER FILMS  
*Aurélia Charlot, Ingénierie des Matériaux Polymères (F)*
- 17:30 **PHYS-L19 SINTUREL**  
SURFACE NANOPATTERNING USING POLYMER BLENDS THIN FILMS TEMPLATES PREPARED BY DIP COATING AT VARIOUS DEPOSITION RATES  
*Christophe Sinturel, Interfaces, Confinement, Matériaux et Nanostructures (F)*
- 17:45 **PHYS-L20 RAMOS-CHAGAS**  
ELECTRODEPOSITED POLYPYRENES FILMS: WETTABILITY, FLUORESCENCE, PH-RESPONSIVITY AND ANTI-BACTERIAL PROPERTIES  
*Gabriela Ramos Chagas, Université Côte d'Azur (F)*

14:00 POSTER SESSION - Chairs: R. Fulchiron / J.C. Majeste

Bellecour 1

**PROCESSES AND POLYMERS:  
POLYMERIZATION PROCESSES AND POLYMER PROCESSING**

**Chairs: M. Duskova / E. Beyou**

- 11:45 **PROC-K01 ASUA**  
EXPANDING THE LIMITS OF NITROXIDE MEDIATED POLYMERIZATION  
*José M. Asua Asua, POLYMAT, University of the Basque Country (UPV/EHU), (E)*
- 12:15 **PROC-L01 MIRANDA**  
MLLDPE MICROSTRUCTURE: INFLUENCE OF CATALYTIC PATHS AND PROCESS CONDITIONS  
*Marcia Miranda, Braskem SA, (Brazil)*
- 12:30 **PROC-L02 GECIM**  
ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE  
*Gozde Gecim, Bursa Technical University (Turkey)*
- 12:45 **PROC-L03 GUILMENT**  
ORTHOGONALISATION METHOD FOR ROBUSTNESS IMPROVEMENT OF ON-LINE MONITORING OF POLYAMIDE POLYMERIZATION BY NIR  
*Jean Guilment, Arkema (F)*

13:00 ON-SITE LUNCH BREAK (included)

**Chairs: M. Bouquey / V. Bounor**

- 14:45 **PROC-K02 WALTHER**  
MOLECULAR ENGINEERING AND LIGHT ADAPTIVENESS IN SELF-ASSEMBLED BIOINSPIRED NANOCOMPOSITES  
*Andreas Walther, Freiburg Materials Research Center (FMF) and Freiburg Institute for Interactive Materials and Bioinspired Technologies (FIT) (D)*
- 15:15 **PROC-L04 PUCCI**  
IMPACT OF THE FORMULATION PATHWAY ON POLYMER SELF-ASSEMBLY  
*Carlotta Pucci, Centre de Recherches Paul Pascal (F)*
- 15:30 **PROC-L05 DAI**  
FLAME RETARDANT MODIFICATION OF EPOXY USING PHOSPHORUS-CONTAINING POSS-BASED POLYMERS  
*Lizong Dai, Xiamen University (China)*
- 15:45 **PROC- L06 ODENT**  
IONIC STRENGTH REVISITED IN MULTI-RESPONSIVE NANOCOMPOSITES  
*Jeremy Odent, Laboratory of Polymeric and Composite Materials, University of Mons (B)*
- 16:00 **PROC- L07 KLIMOV**  
PREPARATION OF METALLIC AND BIMETALLIC NANOPARTICLES IN THE MATRICES OF IRRADIATED INTERPOLYELECTROLYTE COMPLEXES: CONTROL OF SIZE AND STRUCTURE  
*Dmitry Klimov, Enikolopov Institute of Synthetic Polymeric Materials, Russian Academy of Sciences (RUS)*

16:15 COFFEE BREAK

**Chairs: J. Lalevee / E. Beyou**

- 16:45 **PROC-K03 DUSKOVA**  
DESIGN OF MICROSTRUCTURED HYDROGELS  
*Miroslava Dušková-Smrčková, Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic (CZ)*
- 17:15 **PROC-L08 AYCAN**  
FABRICATION OF BONE ASH-REINFORCED SMART HYDROGEL WITH ENHANCED MECHANICAL AND THERMAL PERFORMANCE  
*Didem Aycan, Chemical Engineering Department, Marmara University, Istanbul (Turkey)*
- 17:30 **PROC-L09 VILLAR/LOPEZ**  
THERMAL PROCCESING OF NATIVE CORN STARCH  
*Marcelo Villar, Planta Piloto de Ingeniería Química (Argentina)*
- 17:45 **PROC-L10 KAR**  
EXCELLENT MICROWAVE ABSORPTION THROUGH HETEROGENEOUSLY DISTRIBUTED FUNCTIONALIZED MWNTS IN CO-CONTINUOUS POLYMER BLENDS  
*Goutam Prasanna Kar, Indian Institute of Science, Bangalore (India)*

Bellecour 2

**POLYMER CHARACTERIZATION METHODS**

**Chairs: P. Topham / J. Galy**

- 11:45 **CHAR-K01 PARADOSSI**  
HYDROGEL MICROPARTICLES CHARACTERIZATION TO ELUCIDATE THEIR BIOINTERFACE AND BIOACTIVITY  
*Gaio Paradossi, Dipartimento di Chimica, Università degli Studi di Roma Tor Vergata (I)*
- 12:15 **CHAR-L01 BELLAYER**  
THE MICROANALYSIS OF POLYMER BLENDS OR FILLED POLYMERS USING ELECTRON PROBE MICROANALYZER (EPMA)  
*Séverine Bellayer, UMET Unité Matériaux et Transformations, Université de Lille (F)*
- 12:30 **CHAR-L02 MILEVA**  
RAPID COOLING OF NUCLEATED POLYPROPYLENES  
*Daniela Mileva, Borealis GmbH (A)*
- 12:45 **CHAR-L03 AMARIE**  
NANO-FTIR – IMAGING AND SPECTROSCOPY AT 10NM SPATIAL RESOLUTION  
*Sergiu Amarie, Neaspec GmbH (D)*

13:00 ON-SITE LUNCH BREAK (included)

**Chairs: A. Ortin / J. Galy**

- 14:45 **CHAR-K02 TOPHAM**  
SELECTIVE MICROWAVE PROCESSING OF BLOCK COPOLYMERS: FURTHER INSIGHTS USING IN SITU X-RAY SCATTERING  
*Paul Topham, Aston University (UK)*
- 15:15 **CHAR-L04 COSTA-GOMEZ**  
WHY ARE IONIC LIQUID – PEO MIXTURES BETTER FOR CO2 ABSORPTION?  
*Margarida Costa Gomes, Institut de Chimie de Clermont-Ferrand (F)*
- 15:30 **CHAR-L05 SVANEBOG**  
COMPUTATIONALLY EFFECTIVE MODELS OF POLYMERS  
*Carsten Svaneborg, University of Southern Denmark (DK)*
- 15:45 **CHAR-L06 DALMAS**  
FAST HIGH RESOLUTION 3D MICROSTRUCTURAL CHARACTERIZATION OF NANOPATELET-FILLED POLYMER NANOCOMPOSITES  
*Florent Dalmas, MATEIS Matériaux, Matériaux Ingénierie et Science (F)*
- 16:00 **CHAR-L07 KAJIWARA**  
DIRECT OBSERVATION OF RADICALS DURING RADICAL POLYMERIZATIONS BY VARIOUS ESR/EPR TECHNIQUES  
*Atsushi Kajiwara, Nara University of Education (J)*

16:15 COFFEE BREAK

**Chairs: G. Paradossi / J. Galy**

- 16:45 **CHAR-K03 ORTIN**  
RECENT DEVELOPMENTS IN THE CHARACTERIZATION OF POLYOLEFINS. AN OVERVIEW OF MODERN SEPARATION TECHNIQUES  
*Alberto Ortin, Polymer Char (E)*
- 17:15 **CHAR-L08 ROLLET**  
SEPARATION OF PARENT HOMOPOLYMERS FROM POLYSTYRENE-BLOCK-POLY(ETHYLENE OXIDE)-BLOCK-POLYSTYRENE TRIBLOCK COPOLYMERS BY MEANS OF LIQUID CHROMATOGRAPHY – COMPARISON OF DIFFERENT METHODS  
*Marion Rollet, Institut de Chimie Radicalaire (F)*
- 17:30 **CHAR-L09 HEIZMANN**  
COMPREHENSIVE CHARACTERIZATION OF SYNTHETIC POLYMERS, BIOPOLYMERS AND POLYMER-COATED NANOPARTICLES USING ASYMMETRICAL FLOW- AND THERMAL FIELD-FLOW FRACTIONATION HYPHENATED WITH MULTI-ANGLE LIGHT SCATTERING AND ICP-MS  
*Gerhard Heinzmann, Postnova Analytics GmbH (D)*
- 17:45 **CHAR-L10 SAXENA**  
PEDOT:PSS/SI-NP THERMOELECTRIC NANOCOMPOSITES INVESTIGATED USING TENDER RESONANT X-RAY SCATTERING  
*Nitin Saxena, Chair for Functional Materials, Technical University Munich (D)*

14:00

POSTER SESSION - Chairs: R. Fulchiron / J.C. Majeste

## ➔ Tuesday July 4

### Main Room

- 08:30 PLENARY LECTURE - **Chair: S. Anastasiadis**  
**IONIC NANOCOMPOSITES : FROM DYNAMIC BONDING TO MULTI-RESPONSIVE BEHAVIOR**  
Prof. Emmanuel Giannelis - Cornell University (USA)
- 09:15 PLENARY LECTURE - **Chair: S. Anastasiadis**  
**NANOPOROUS-CRYSTALLINE POLYMERS AND INDUSTRIAL INNOVATIONS**  
Prof. Guiseppe Guerra - Università degli Studi di Salerno (Italy)
- 10:00 COFFEE BREAK
- 18:30 **DOCTEUR HONORIS CAUSA DHC CEREMONY FOR PROF. EMMANUEL GIANNELIS**  
Honorary Doctorate



### Grand P Gratte-Ciel

## MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS

**Chair: E. Fleury / V. Monteil**

- 10:45 **CHEM-K07 DU PREZ**  
SEQUENCE-DEFINED POLYMERS: THE NEED FOR MULTI-FUNCTIONALITY AND ABSOLUTE PRECISION  
Filip Du Prez, Department of Organic and Macromolecular Chemistry - Ghent University (B)
- 11:15 **CHEM-L21 BOHME**  
STRUCTURAL INFLUENCES ON THE SELF-HEALING BEHAVIOR OF IONICALLY MODIFIED BROMOBUTYL RUBBER  
Frank Böhme, Leibniz-Institut für Polymerforschung Dresden e. V. (D)
- 11:30 **CHEM-L22 GARCIA-JUAN**  
STIMULI RESPONSIVE POLYMERIC NANOCARRIERS FROM SUPRAMOLECULAR AMPHIPHILIC BLOCK POLYMERS  
Hugo Garcia-Juan, Universidad Zaragoza (E)
- 11:45 **CHEM-L23 SINGHA**  
SELF-HEALABLE THERMO-REVERSIBLE FUNCTIONAL POLYMER VIA RAFT POLYMERIZATION AND ULTRAFAST 'CLICK' CHEMISTRY  
Nikhil Singha, Indian Institute of Technology, Kharagpur (India)
- 12:00 **CHEM-L24 BOERNER**  
«TRANSLATING PEPTIDES TO PRECISION POLYMERS»  
Hans Boerner, Berlin University (D)
- 12:00 **CHEM-K08 WOISEL**  
« COLORED » MULTI-STIMULI RESPONSIVE HYDROGELS  
Patrice Woisel, UMET, UMR CNRS 8207 (F)

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: P. Woisel / J. Bernard**

- 14:15 **CHEM-K09 ODELIUS**  
DESIGNING SYNTHESIS FOR FUTURE GREEN PLASTICS  
Karin Odelius, KTH Royal Institute of Technology (S)
- 14:45 **CHEM-L25 FINNVEDEN**  
SYNTHESIS OF ITACONATE BASED POLYESTERS: A COMPARISON OF ENZYMATIC AND "CONVENTIONAL" CATALYSIS  
Maja Finnveden, KTH Royal Institute of Technology (S)
- 15:00 **CHEM-L26 JEGAT**  
QUATERNARY AMMONIUM-CONTAINING STAR SHAPED PLA WITH CONTACT KILLING OF BACTERIA IN PLA FILMS  
Corinne Jegat, Ingénierie des Matériaux Polymères (F)
- 15:15 **CHEM-L27 GAITZCH**  
RADICAL RING-OPENING POLYMERISATION: NEW AND IMPROVED MONOMER SYNTHESIS FOR BIODEGRADABLE POLYESTERS  
Jens Gaitzsch, University of Basel (CH)
- 15:30 **CHEM-L28 BAHETI**  
SYNTHESIS AND CHARACTERISATION OF STAR COPOLYMERS: TIN-OCTANOATE AND ENZYME CATALYZED RING-OPENING POLYMERIZATION OF LACTONES IN SOLUTION, BULK AND SUPERCRITICAL CO<sub>2</sub>  
Payal Baheti, École Nationale Supérieure de Chimie de Montpellier, University of Nottingham (UK)
- 15:45 **CHEM-L29 HEGE**  
COMBINATION OF DYES WITH POLYMERS FOR OPTICAL LIMITING  
Cordula Hege, Institut Franco-Allemand de Recherches de Saint-Louis (D)

16:00 COFFEE BREAK

**Chairs: P. du Prez / V. Monteil**

- 16:30 **CHEM-K10 IVAN**  
SYNTHESIS, CHARACTERIZATION AND PROPERTIES OF NANOSTRUCTURED AMPHIPHILIC POLYMER CONETWORKS AS NANOREACTORS AND THEIR NANOHYBRIDS  
Bela Ivan, Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences (HU)
- 17:00 **CHEM-L30 BOUSQUIE**  
HYDROSILYLATION CATALYSTS: A CONTINUING CHALLENGE  
Magali Bousquie, Bluestar Silicones (F)
- 17:15 **CHEM-L31 KUDRYAVSTEV**  
POLYMER CROSS-METATHESIS AS A NOVEL INTERCHANGE MACROMOLECULAR REACTION  
Yaroslav Kudryavtsev, Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences (RUS)
- 17:30 **CHEM-L32 CAIRNS**  
A NEW ROUTE TO ALIPHATIC POLYESTERS VIA SUSTAINABLE 1,3-DIOXOLAN-4-ONES  
Stefan Cairns, EasTCHEM School of Chemistry, University of Edinburgh (UK)
- 17:45 **CHEM-L33 SIDDIQI**  
SYNTHESIS AND CHARACTERIZATION OF NOVEL TRIPHENYLAMINE BASED POLYIMIDES AND THEIR NANOCOMPOSITES AS POTENTIAL ELECTROACTIVE MATERIALS  
Humaira Masood Siddiqi, Department of Chemistry Quaid-i-Azam University Islamabad (Pakistan)
- 18:00 **CHEM-L34 SZYMANSKI**  
EFFECT OF CONFIGURATION OF BULKY ALUMINIUM INITIATOR ON THE STRUCTURE OF COPOLYMERS OF L, L-LACTIDE WITH SYMMETRIC COMONOMER  
Ryszard Szymanski, Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences (PL)

### Tête d'or 1 & 2

## PHYSICS OF POLYMERS AND POLYMER MATERIALS

**Chairs: L. Giorno / S. Pruvost**

- 10:45 **PHYS-K07 PEIJS**  
BIOINSPIRED COMPOSITE MATERIALS BASED ON ORGANISED GRAPHENE NETWORKS  
Tom Peijs, Queen Mary, University of London (UK)
- 11:15 **PHYS-L21 SELLAMI**  
CR(VI) SEPARATION USING BLEND POLYMER INCLUSION MEMBRANES CONTAINING IONIC LIQUID  
Ferhat Sellami, PBS Polymères Biopolymères Surfaces (F)
- 11:30 **PHYS-L22 MARTIN**  
INHIBITING EFFECT, SENSITIZING INFLUENCE, SELF-ASSEMBLY: IS IT POSSIBLE TO CONTROL THE INTERFACIAL LAYER IN CFRP COMPOSITES?  
Arnaud Martin, Luxembourg Institute of Science and Technology (L)
- 11:45 **PHYS-L23 HAYASHI**  
EFFECT OF CARBON FIBER SURFACE MODIFICATION ON PP/PA POLYMER ALLOY IN EVALUATION OF INTERFACIAL SHEAR STRESS  
Riona Hayashi, Graduate School of Engineering, Tohoku University (J)
- 12:00 **PHYS-L24 DUNJIC**  
EPOXY/CLAY NANOCOMPOSITES WITH IMPROVED CORROSION STABILITY AND MECHANICAL PROPERTIES  
Branko Dunjic, Faculty of Technology and Metallurgy, University of Belgrade (RS)
- 12:15 **PHYS-L25 LONJON**  
CONDUCTIVE CARBON FIBER REINFORCED POLY(ETHER KETONE KETONE)/ SILVER NANOWIRES FOR AERONAUTICAL APPLICATIONS  
Antoine Lonjon, Laboratoire Physique des polymères CIRIMAT (F)
- 12:30 **PHYS-L26 ANUSIC**  
BIO-COMPOSITES BASED ON HEMP SEED OIL : EFFECT OF MATRIX FORMULATION, CURING PARAMETERS, AND FIBER MOISTURE ON PERFORMANCE CHARACTERISTICS  
Andrea Anusic, Univerität Loeben and W3C Wood Carinthian Competence Center (A)

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: C. Creton / S. Livi**

- 14:15 **PHYS-K09 GIORNO**  
POLYMER-BASED MEMBRANES TO IMPLEMENT SUSTAINABLE PRODUCTION SYSTEMS  
Lidietta Giorno, Institute on Membrane Technology, National Research Council (I)
- 14:45 **PHYS-L32 ESPUCHE**  
A NEW SOLVENT FREE ROUTE TO IN SITU GROW METAL NANOPARTICLES IN POLYMER MATRICES: APPLICATION TO NANOCOMPOSITES COMPOSED OF A COPOLYMER MATRIX AND PD NANOFILLERS  
Eliane Espuche, Ingénierie des Matériaux Polymères (F)

13:30 POSTER SESSION - **Chairs: R. Fulchiron / J.C. Majeste**

**Tête d'or 1 & 2**

**PHYSICS OF POLYMERS AND POLYMER MATERIALS**

- 15:00 **PHYS-L33 ESSAWY**  
NOVEL AMPHIPHILIC CONETWORKS BASED ON COMPATIBILIZED NBR/SBR-MONTMORILLONITE NANOVULCANIZATES AS MEMBRANES FOR DEHYDRATIVE PERVAPORATION OF WATER-BUTANOL MIXTURES  
*Hisham Essawy, National Research Centre, Cairo (Egypt)*
- 15:15 **PHYS-L34 SANGRONIZ**  
TAILORING THE BARRIER AND DEGRADATION PROPERTIES OF A BIODEGRADABLE POLYMER FOR PACKAGING APPLICATIONS  
*Ainara Sangroniz, POLYMAT, University of the Basque Country UPV/EHU (E)*
- 15:30 **PHYS-L35 FOLLAIN**  
SYNERGETIC EFFECT OF WATER-MEDIATED EXTRUSION PROCESS AND CLAY INCORPORATION ON BARRIER PROPERTIES OF BIODEGRADABLE MATRICES  
*Nadège Follain, PBS Polymères Biopolymères Surfaces, Université de Rouen (F)*
- 15:45 **PHYS-L36 WENZ**  
SELF-HEALING CAR PAINTS FROM CYCLODEXTRIN POLYROTAXANES  
*Gerhard Wenz, Universität des Saarlandes (D)*

16:00 COFFEE BREAK

**Chairs: T. Peijs / S. Livi**

- 16:30 **PHYS-K11 CRETON**  
FRACTURE OF ELASTOMERS WITH INTERPENETRATED NETWORKS  
*Costantino Creton, Laboratory of Soft Matter and Engineering Sciences, ESPCI-ParisTech (F)*
- 17:00 **PHYS-L42 MONDAL**  
A NEW GENERATION COST-EFFICIENT CARBON BASED ELECTROMAGNETIC INTERFERENCE SHIELD  
*Subhadip Mondal, Rubber Technology Centre, Indian Institute of Technology, Kharagpur (India)*
- 17:15 **PHYS-L43 VAUTHIER**  
SMART COATINGS WITH INTERFACIAL THERMOREVERSIBLE PROPERTIES  
*Madeline Vauthier, Institut de Science des Matériaux de Mulhouse (F)*
- 17:30 **PHYS-L44 WU**  
PHOTOSWITCHING OF GLASS TRANSITION TEMPERATURES OF AZOPOLYMERS INDUCES REVERSIBLE SOLID-TO-LIQUID TRANSITIONS  
*Si Wu, Max Planck Institute for Polymer Research (D)*
- 17:45 **PHYS-L45 DOEHLER**  
GRAPHENE-SUPPORTED SELF-HEALING POLYMER NANOCOMPOSITES  
*Diana Doehler, Martin Luther University Halle-Wittenberg (D)*
- 18:00 **PHYS-L46 BLIN**  
MAGNETORESPONSIVE THERMOREVERSIBLE HYDROGELS: SMART MATERIALS AS NEW TOOLS FOR CELL STIMULATION  
*Thomas Blin, Monash University (AUS)*

**Bellecour 1**

**AUSTRALIAN-EUROPEAN WORKSHOP**

**Chairs: F. d'Agosto / S. Perrier**

- 10:45 **AUS01**  
METHACRYLIC BLOCK COPOLYMERS BY SULFUR FREE RAFT (SF RAFT) FREE RADICAL EMULSION POLYMERISATION  
*David Haddleton, University of Warwick (UK)*
- 11:15 **AUS02**  
FROM MULTISTEP FLOW CHEMISTRY TO SEQUENCE-CONTROLLED MATERIALS  
*Tanja Junkers, IMEC associated lab, Institute for Materials Research (IMO), Universiteit Hasselt (B)*
- 11:45 **AUS03**  
LIMITS OF PRECISION MONOMER PLACEMENT IN REVERSIBLE DEACTIVATION RADICAL POLYMERIZATION  
*Simon Harisson, Laboratoire des Interactions Moléculaires et de la Réactivité Chimique et Photochimique (F)*
- 12:15 **AUS04**  
POLYAMPHOLYTES AND POLYMERIC PHOTOACIDS – SYNTHETIC ACCESS AND UTILIZATION AS RESPONSIVE BUILDING BLOCKS  
*Felix Schacher, Friedrich-Schiller-University Jena (D)*

12:30 ON-SITE LUNCH BREAK (included)

**Chair: C. Boisson**

- 14:15 **AUS05**  
SEMI-CRYSTALLINE VITRIMERS VIA SOLID-STATE POLYMERIZATION  
*Hans Heuts, Eindhoven University of Technology (TU/e) (NL)*

- 14:45 **AUS06**  
EXPANDING THE TOOLBOX FOR NETWORK SYNTHESIS: THIOL-PARA-FLUORO AND NITEC LIGATION AS EFFICIENT APPROACHES FOR HOMOGENOUS NETWORK FORMATION  
*Leonie Barner, Karlsruher Institute of Technology, Queensland University of Technology (AUS)*
- 15:15 **AUS07**  
NEW NANOPOROUS INORGANIC-POLYMER COMPOSITE MATERIALS FOR DIAGNOSTICS AND THERAPY IN FUTURE WOUND CARE APPLICATIONS  
*Holger Schönherr, University of Siegen (D)*

16:00 COFFEE BREAK

**Chair: H. Schonherr**

- 16:30 **AUS08 CAMERON**  
EMULSION TEMPLATED POROUS POLYMERS FOR SCAFFOLDS FOR 3D CELL CULTURE AND REGENERATIVE MEDICINE  
*Neil Cameron, Monash University, University of Warwick (AUS)*
- 17:00 **AUS09**  
ROD-LIKE NANOMEDICINES BASED ON CYLINDRICAL POLYMER BRUSHES  
*Markus Muellner, Australian Institute for Nanoscale Science and Technology, University of Sydney (AUS)*
- 17:30 **AUS10**  
KILLING GRAM-NEGATIVE SUPERBUGS WITH STAR-SHAPED PEPTIDE POLYMERS, NOT ANTIBIOTICS  
*Greg Qiao, University of Melbourne (AUS)*

**Gratte-Ciel 1 & 2**

**PHYSICS OF POLYMERS AND POLYMER MATERIALS**

**Chairs: P. Potschke / J. Duchet**

- 10:45 **PHYS-K08 LONG**  
HETEROGENEOUS DYNAMICS AND PLASTICITY OF A STRETCHED POLYMER GLASS STUDIED BY DIELECTRIC SPECTROSCOPY  
*Didier Long, LPMA Laboratoire Polymères & Matériaux Avancés (F)*
- 11:15 **PHYS-L27 MONTES**  
HOW THE MECHANICAL RESPONSE OF CONFINED POLYMER IS MODIFIED BY DYNAMICAL HETEROGENITIES  
*Helene Montes, Laboratoire Sciences et Ingénierie de la Matière Molle, ESPCI-ParisTech (F)*
- 11:30 **PHYS-L28 AGNIESKA**  
QUANTITATIVE NANOMECHANICAL PROPERTY MAPPING OF NANOSTRUCTURED MATERIALS  
*Terjak Agnieszka, University of the Basque Country (E)*
- 11:45 **PHYS-L29 CHENAL**  
IMPROVEMENT OF POLYHYDROXYBUTYRATE DUCTILITY: HOW DO PLASTICIZERS AFFECT PHYSICAL AGEING?  
*Jean-Marc Chenal, MATEIS Matériaux Ingénierie Science (F)*
- 12:00 **PHYS-L30 GOLD**  
THE PHYSICAL ORIGIN OF THE MECHANICAL RESPONSE IN SUPRAMOLECULAR TRANSIENT NETWORKS  
*Barbara J. Gold, Forschungszentrum Jülich GmbH (D)*
- 12:15 **PHYS-L31 CHIBANI**  
EFFECT OF FIBER SURFACE TREATMENTS ON MECHANICAL AND THERMAL PROPERTIES OF POLYLACTIDE/SAWDUST FIBER COMPOSITES  
*Nacera Chibani, Laboratoire des Matériaux Polymères Avancés, Bejaia (Algeria)*

12:30 ON-SITE LUNCH BREAK (included)  
XENOC'S LUNCH TIME SESSION 'NANOSCALE X-RAY CHARACTERIZATION OF POLYMERS IN THE LABORATORY'

**Chairs: D. Long / R. Seguela**

- 14:15 **PHYS-K10 POTSCHE**  
POLYPROPYLENE-BASED MELT MIXED COMPOSITES WITH SINGLEWALLED CARBON NANOTUBES FOR THERMOELECTRIC APPLICATIONS  
*Petra Pötschke, Leibniz-Institut für Polymerforschung Dresden e.V. (D)*
- 14:45 **PHYS-L37 SAINT MARTIN**  
LINEAR AND NON-LINEAR RHEOLOGY OF RIGID POLYMER NETWORKS OF A GIANT POLYSACCHARIDE CROSSLINKED BY DIVALENT IONS  
*Tom Saint-Martin, Laboratoire de Sciences et Ingénierie de la Matière Molle, ESPCI-ParisTech (F)*
- 15:00 **PHYS-L38 SCHMOLKE**  
INTERPLAY OF SUPRAMOLECULAR AND MACROMOLECULAR DYNAMICS IN METALLO-SUPRAMOLECULAR TELECHELIC POLYMERS  
*Willi Schmolke, Institute of Physical Chemistry, Johannes Gutenberg-Universität Mainz (D)*
- 15:15 **PHYS-L39 CARROT**  
SOL-GEL TRANSITION AND PHASE DIAGRAM OF IONIC-LIQUID POLYMER HYDROGELS (PILS) INVESTIGATED BY RHEOLOGICAL MEASUREMENTS  
*Christian Carrot, Ingénierie des Matériaux Polymères (F)*

13:30 POSTER SESSION - Chairs: R. Fulchiron / J.C. Majeste

Gratte-Ciel 1 & 2

PHYSICS OF POLYMERS AND POLYMER MATERIALS

- 15:30 **PHYS-L40 DORENGE**  
SWELLING EFFECT OF POLYMERS USED AS ADDITIVES IN LUBRICANTS  
*Justine Doreng, Université du Maine, Total Marketing & Services (B)*
- 15:45 **PHYS-L41 SOLLOGOUB**  
A POSSIBLE MECHANISM FOR LAYER BREAK-UP IN NANOLAYERED FILMS  
*Cyrille Sollogoub, Procédés et Ingénierie en Mécanique et Matériaux (F)*

16:00 COFFEE BREAK

**Chairs: A. Tercjaks / J. Duchet**

- 16:30 **PHYS-K12 BRUS**  
POWDER NMR CRYSTALLOGRAPHY OF MULTICOMPONENT POLYMERIC SYSTEMS  
*Jiri Brus, Institute of Macromolecular Chemistry, CAS (CZ)*
- 17:00 **PHYS-L47 PINHEIRO**  
SYNTHESIS AND CHARACTERIZATION OF FUNCTIONALIZED POLYAMINOBORANES  
*Carlos Pinheiro, Université de Rennes (F)*
- 17:15 **PHYS-L48 BRUN**  
CARBONACEOUS NANOPARTICLES/PANI COMPOSITES FOR THERMOELECTRIC APPLICATIONS  
*Nico Bruns, Adolphe Merkle Institute (D)*
- 17:30 **PHYS-L49 RANNOU**  
FROM MAUVEINE TO OLIGO/POLY(ANILINE)S: (SUPRA/MACRO)MOLECULAR ENGINEERING APPROACHES TOWARDS ANILINE-BASED ORGANIC (SEMI)CONDUCTORS 2.0  
*Patrice Rannou, SYstèmes Moléculaires et nanoMatériaux pour l'Energie et la Santé (F)*
- 17:45 **PHYS-L50 SOULESTIN**  
FLUORINATED ELECTROACTIVE POLYMERS FOR EMERGING PRINTED ELECTRONIC DEVICES  
*Thibaut Soulestin, Piezotech - Arkema (F)*
- 18:00 **PHYS-L51 BESSAGUET**  
PASSIVE VIBRATION DAMPING NANOCOMPOSITE FOR HIGH PERFORMANCE APPLICATIONS  
*Camille Bessaguet, Physique des polymères CIRIMAT (F)*

Bellecour 2

PROCESSES AND POLYMERS:  
POLYMERIZATION PROCESSES AND POLYMER PROCESSING

**Chairs: C. Holland / E. Beyou**

- 10:45 **PROC-K24 BERLUNG**  
CELLULOSIC NANOCOMPOSITES – COMBINING WATER-BASED PROCESSING WITH MOISTURE STABILITY  
*Lars Berglund, KTH Royal Inst of Technology, Dept of Fiber and Polymer Technology (S)*
- 11:15 **PROC-L11 DO**  
LIGNIN DEPOLYMERISATION VIA UV IRRADIATION AND TITANIUM DIOXIDE PHOTOCATALYSIS  
*Tung Do, Bonn-Rhein-Sieg University of Applied Sciences (D)*
- 11:30 **PROC-L12 RIGOTTI**  
POLYVINYL ALCOHOL REINFORCED CRYSTALLINE NANOCELLULOSE IN 3D PRINTING APPLICATION  
*Daniele Rigotti, University of Trento (I)*
- 11:45 **PROC-L13 WANG (C)**  
DETERMINATION OF EXTENSION RATE OF STRAIGHT ELECTROSPINNING JET BY LIGHT SCATTERING  
*Chi Wang, Department of Chemical Engineering, National Cheng Kung University (China)*
- 12:00 **PROC-L14 SOCCIO**  
ELECTROSPUN SCAFFOLDS OF PLLA-BASED TRIBLOCK COPOLYMER WITH ANNEALING-DEPENDENT SHAPE MEMORY BEHAVIOR IN THE PHYSIOLOGICAL TEMPERATURE RANGE  
*Michelina Soccio, Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna (I)*
- 12:15 **PROC-L15 LE PLUART**  
A COMBINED IR SPECTROSCOPY AND RHEOLOGY STUDY : NEW MECHANISM FOR POLYSULFIDE CROSS-LINKING REACTION  
*Loïc Le Pluart, Laboratoire de Chimie Moléculaire et Thioorganique (F)*

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: L. Berlung / V. Bounor**

- 14:15 **PROC-K06 HOLLAND**  
INSPIRED BY NATURE: WHAT SILK CAN TELL US ABOUT AQUEOUS POLYMER PROCESSING  
*Chris Holland, University of Sheffield (UK)*
- 14:45 **PROC-L21 REYNAUD**  
LIVING CATIONIC RING-OPENING POLYMERIZATION OF 2-ETHYL-2-OXAZOLINE FOLLOWING "GREEN" CONCEPTS: MICROWAVE-ASSISTED AND FLUIDIC PROCESSES IN IONIC LIQUID MEDIUM.  
*Stéphanie Reynaud, IPREM, Polymer Physic and Chemistry (F)*
- 15:00 **PROC-L22 BOSSION**  
NON-ISOCYANATE POLYURETHANE SOFT NANOPARTICLES OBTAINED BY SURFACTANT-ASSISTED INTERFACIAL POLYMERIZATION  
*Amaury Bossion, POLYMAT, University of the Basque Country, Laboratoire de Chimie des Polymères Organiques (E)*
- 15:15 **PROC-L23 HWANG**  
WATERBORNE POLYURETHANE MODIFIED WITH POLY(ETHYLENE GLYCOL) MACROMER FOR WATERPROOF BREATHABLE COATING  
*Jisung Hwang, University of Ulsan (KR)*
- 15:30 **PROC-L24 HE**  
BROADENING THE SCOPE OF BLOCK COPOLYMER MICROPARTICLE SYNTHESIS IN SCCO2  
*Guping He, School of Chemistry, University of Nottingham (UK)*
- 15:45 **PROC-L25 REYES**  
POLYMER-CLAY NANOCOMPOSITES BASED ON POLYCAPROLACTONE AND 12-AMINOLAURIC ACID INTERCALATED MONTMORILLONITE  
*Larry Reyes, University of the Philippines-Diliman, Polymer Materials Laboratory, Institute of Chemistry, College of Science, University of the Philippines-Diliman - Florentino Sumera (PH)*

16:00 COFFEE BREAK

**Chairs: L. Le Pluart / C. Carrot**

- 16:30 **PROC-K07 CLAEYSSENS**  
HIERARCHICALLY STRUCTURED BIOMATERIALS FOR BONE TISSUE ENGINEERING  
*Frederik Claeyssens, Department of Materials Science and Engineering (UK)*
- 17:00 **PROC-L26 LALEVEE**  
HYBRID PHOTO POLYMERIZATION UPON BLUE LIGHT: NEW PHOTSENSITIVE RESINS FOR DENTAL MATERIALS  
*Jacques Lalevee, Institut de Science des Matériaux de Mulhouse (F)*
- 17:15 **PROC-L27 TANG**  
DESIGN AND FABRICATION OF 3D PRINTED DRUG DELIVERY SYSTEMS  
*Tiffany Tang, International Institute for Nanocomposites Manufacturing - Warwick Manufacturing Group, Monash University (AUS)*
- 17:30 **PROC-L28 THIRE**  
STRATEGIES FOR DEVELOPMENT OF 3D PRINTED POLYMER-BASED SCAFFOLDS FOR BONE TISSUE ENGINEERING APPLICATIONS  
*Rossana Thiré, COPPE, Federal University of Rio de Janeiro - UFRJ (BR)*
- 17:45 **PROC-L29 MARTELLA**  
MICROBOTS FUELED BY LIGHT: WHEN LIQUID CRYSTALLINE ELASTOMERS MEET PHOTOLITHOGRAPHY  
*Daniele Martella, European Laboratory for Nonlinear Spectroscopy, University of Florence (I)*
- 18:00 **PROC-L30 SABATINI**  
CONDUCTIVE INKS BASED ON METHACRYLATE END-CAPPED POLY(3,4-ETHYLENEDIOXYTHIOPHENE) FOR PRINTED, FLEXIBLE AND WEARABLE ELECTRONICS  
*Valentina Sabatini, Università degli Studi di Milano (I)*

Gratte-Ciel 3

EUROPEAN CENTER FOR NANOSTRUCTURED  
POLYMERS (ECNP)

**Chair: J. Kenny**

14:15 - 16:00 EUROPEAN CENTER FOR NANOSTRUCTURED POLYMERS (ECNP) MEETING

16:00 COFFEE BREAK

**Chair: J. Kenny**

16:30-18:30 EUROPEAN CENTER FOR NANOSTRUCTURED POLYMERS (ECNP) INDUSTRIAL ADVISORY BOARD

13:30 POSTER SESSION - **Chairs: R. Fulchiron / J.C. Majeste**



# ➔ Wednesday July 5

## Main Room

08:30 PLENARY LECTURE - **Chair: M. Laus**  
**THE LEGO GROUP'S AMBITION AND THE JOURNEY TOWARDS SUSTAINABLE MATERIALS**  
*Sr. Søren Kristensen – Director of Technology, Materials, Engineering & Quality - The LEGO Group (DK)*



09:45 COFFEE BREAK

13:30 PLENARY LECTURE - **Chair: R. Mulhaupt**  
**NEW HORIZONS FOR SPECIALTY POLYMERS**  
*Dr. Florian de Campo - Head of Technology Specialty Polymers SOLVAY (I)*

17:30 PANEL DISCUSSION - **Chair: D. Blanc Bsi**  
18:30 **FUTURE OF POLYMERS AND COLLABORATIVE INNOVATION**  
*Nicolas Cudré-Mauroux - Group General Manager Research & Innovation Solvay*  
*Florence Delange - Advanced Materials And Processes Director Schneider Electric*  
*Georg Oenbrink - Prof. Dr. Corporate Innovation Evonik*  
*Alexis Ponnouradjou - Senior Vice President Research And Innovation Cto Hutchinson*  
*Natalia Scherbakoff - Research And Innovation Auto Exterior Vp Plastic Omnium*  
*Nicolas Seeboth - Polymers And Chemical Additives Research Director Michelin*

## Bellecour 1 & 2

### POLYMERS INDUSTRIAL FUTURE FORUM

**Chair: J.M. Mas Axelera - Industrial Cluster**

10:15 **IND01**  
A PROSPECTIVE PLATFORM TO DEVELOP INNOVATION TOGETHER  
*Philippe Cassagnau - Lyon Polymer Science Engineering LPSE (F)*

10:30 **IND02**  
POLYMER COMPETENCE CENTER LEOBEN: BRIDGING THE GAP FROM SCIENCE TO INDUSTRY  
*Martin Prayer - PCCL (A)*

10:45 **IND02**  
POLYMAT: STRENGTHENING UNIVERSITY-INDUSTRY RELATIONSHIPS  
*José Asu - POLYMAT (E)*

11:00 **IND04**  
HIGH PERFORMANCE MATERIALS AND COMPOSITE SOLUTIONS  
*Jean-Jacques Flat - Arkema Co. (F)*

11:15 **IND05**  
OPEN INNOVATION AT BLUESTAR SILICONES  
*Sophie Schneider - Bluestar Silicones (F)*

11:30 **IND06**  
HIGHLY FILLED POLYMERS  
*Philippe Sonntag, Hutchinson (F)*

11:45 **IND07**  
CONTINUOUS FLOW TECHNOLOGIES FOR NEW FUNCTIONALIZED POLYOLEFIN PRODUCT PUSH COLLABORATIVE INNOVATION  
*Vivien Henryon - Activation (F)*

12:00 ON-SITE LUNCH BREAK (included)

**Chair: P. Vuillermoz Plastipolis - Industrial Cluster**

14:30 **IND08**  
DPI: CONCEPT, APPROACH AND SUCCESS STORIES IN POLYOLEFINS, PERFORMANCE POLYMERS AND COATINGS  
*Dutch Polymer Institute*  
*Jan Stamhuis - DPI Dutch Polymer Institute (NL)*

14:45 **IND09**  
THERMOPLASTIC COMPOSITE HYBRID MOLDING: ADVANCES IN PROCESSING, CHARACTERIZATION, AND FEM ANALYSIS  
*Marco Monti - Proplast (I)*

15:00 **IND10**  
POLYMERS IN CABLE SYSTEMS AN ANSWER TO MEGATRENDS FROM NEXANS  
*Arnaud Allais - Nexans Co. (F)*

15:15 **IND11**  
ON THE USE OF POLYMERS IN A MINERAL WORLD  
*Boris Jaffrenou - Saint-Gobain Co.(F)*

15:30 **IND12**  
SCIENTIFIC AND TECHNOLOGICAL CHALLENGES DEVELOPING INDUSTRIAL ADVANCES CARBON NANOTUBES POLYOLEFIN COMPOUNDS  
*Olivier Lhost - Total (B)*

15:45 COFFEE BREAK

**Chair: P. Vuillermoz Plastipolis - Industrial Cluster**

16:15 **IND13**  
INNOVATION IN POLYMER FILMS BY TORAY  
*Julien Faldysta - Toray Co. (F)*

16:30 **IND14**  
KEM ONE, A MAJOR EUROPEAN PLAYER IN THE PVC AND CPVC INDUSTRY  
*Patrick Morel - Kem One (F)*

16:45 **IND15**  
POLYMERS IN PHARMA AND MEDICAL TECHNOLOGY  
*Georg Oenbrink - Corporate Innovation Evonik (D)*

## Gratte-Ciel 3

### SMART POLYMER TEXTILES

**Chair: B. Mougine Techtera - Industrial Cluster**

10:15 **TEX01 - HIRAI**  
ELECTROACTIVE DIELECTRIC SOFT POLYMER MATERIALS FOR ELECTRO-OPTICAL ACTUATORS AND SENSORS  
*Toshihiro Hirai - Shinshu Univ. (J)*

10:30 **TEX02**  
ENERGY HARVESTING PIEZOELECTRIC MELT SPUN MONO AND TRI-COMPONENT PVDF FIBERS  
*Anaëlle Talbourdet - ENSAIT (F)*

10:45 **TEX03**  
INNOVATIVE MEDICAL DEVICES: LIGHT-EMITTING TEXTILES FOR DERMATOLOGIC TREATMENTS  
*N. Boucard - Texinov (F)*

11:00 **TEX04**  
COMPOSITE POLYMER NANOCOMPOSITE YARN FPR TEXTILE SENSING APPLICATIONS  
*Carole Aubry - IFTH (F)*

11:15 **TEX05**  
FUNCTIONAL MICROGEL-BASED FIBERS  
*A. Pich - DWI Leibniz Institute For Interactive Materials (D)*

11:30 **TEX06**  
ENGINEERING ORGANIC BIOELECTRONIC MATERIALS FOR THE INTEGRATION IN WEARABLE TEXTILES-BASED HEALTH MONITORING DEVICES  
*Esma Ismailova, Dpt. Bioelectronics EMSE Saint-Etienne (F)*

11:45 **TEX07**  
TOWARD THE 100% POLYMER-BASED PIEZO-ELECTRIC FIBER  
*Simon Jestin - CANOE Platform (F)*

12:00 ON-SITE LUNCH BREAK (included)

**Chair: B. Mougine Techtera - Industrial Cluster**

14:30 **TEX08**  
FABRICATION OF ENGINEERED CROSS-SECTION THROUGH MELT-SPINNING PROCESS  
*Takeshi Kikutani - Tokyo Inst. Technol (J)*

14:45 **TEX09**  
SMART TEXTILES: PERMANENT FUNCTION WITH REFILABLE CAPSULES GRAFT ON FIBERS  
*Yves Frere, ICS Institut Charles Sadron, Université de Strasbourg (F)*

15:00 **TEX10**  
FUNCTIONALIZATION OF FLAX FIBRES BY RADIATION-GRAFTING  
*Sophie Rouif, Ionisos Co. (F)*

15:15 **TEX11**  
3D PRINTED POLYMERS AND NANOCOMPOSITES ON TEXTILES: CHARACTERIZATION AND ADHESION PROPERTIES  
*Razieh Hashemi-Sana - ENSAIT (F)*

15:30 **TEX12**  
FIMATEST – AN AUTOMATED TEST SYSTEM FOR MEASURING THE FIBRE-MATRIX ADHESION  
*Ulrich Moerschel, TexTechno GmbH (D)*

15:45 COFFEE BREAK

12:00 POSTER SESSION - **Chairs: R. Fulchiron / J.C. Majeste**

### Gratte-Ciel 3

## SMART POLYMER TEXTILES

**Chair: B. Mougín Techtera - Industrial Cluster**

- 16:15 **TEX13**  
MODIFICATION OF TEXTILES USING ELECTRON BEAM GRAFT POLYMERIZATION  
*T. Hori - Fukui Univ. (J)*
- 16:30 **TEX14**  
PREPARATION AND CHARACTERIZATION OF POLYHYDROXYALUMINATE ELECTROSPUN FIBERS FOR DRUG RELEASE  
*R. Charifou - Trinity College Dublin (I)*
- 16:45 **TEX15**  
CONTRIBUTION OF ELECTROSPINNING TO FABRICATE FUNCTIONAL MATERIALS AND FIBERS  
*V. Salles - Univ. Lyon (F)*
- 17:00 **TEX16**  
SHAPE MEMORY FIBERS (SMF) OBTAINED FROM SIMPLE ELECTRO-SPINNING OF CATIONICALLY POLYMERIZED EPOXY/POLYCAPROLACTONE BLENDS  
*A. IREGUI - Euskal Herriko Unibertsitatea-Donostia (E)*

### Grand P Gratte-Ciel

## MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS

**Chairs: E. Drockenmüller / V. Monteil**

- 10:15 **CHEM-K11 KHOKHLOV**  
BIOMIMETIC ORGANO-CATALYSIS BY NANOSTRUCTURED MACROMOLECULES  
*Alexei Khokhlov, Physics Department, Moscow State University, Institute of Organoelement Compounds, Russian Academy of Sciences, Department of Advanced Energy Related Nanomaterials, Ulm University (RUS)*
- 10:45 **CHEM-L35 LEWIS**  
RAFT POLYMERISATION OF ACRYLAMIDE BY DIRECT PHOTOLYSIS OF CHAIN TRANSFER AGENTS  
*Reece Lewis, Monash University (AUS)*
- 11:00 **CHEM-L36 VITALE**  
NOVEL PERFLUOROPOLYETHERS FOR PHOTOPOLYMERISATION PROCESSES  
*Alessandra Vitale, Politecnico di Torino (I)*
- 11:15 **CHEM-L37 HAAS**  
TETRAACYLGERMANES: HIGHLY EFFICIENT GERMANIUM-BASED PHOTOINITIATORS FOR VISIBLE-LIGHT INDUCED FREE-RADICAL POLYMERIZATION  
*Michael Haas, Graz University of Technology (A)*
- 11:30 **CHEM-L38 PLACET**  
PHOTOLATENT ORGANIC CATALYSTS FOR DELAYED RING OPENING POLYMERIZATION  
*Emeline Placet, Institut Charles Gerhardt - Ingénierie et Architectures Macromoléculaires (F)*
- 11:45 **CHEM-L39 SANGERMANO**  
SYNTHESIS OF POLYMERIC MICROCAPSULES BY INTERFACIAL-SUSPENSION CATIONIC PHOTOPOLYMERIZATION  
*Marco Sangermano (I)*

12:00 ON-SITE LUNCH BREAK (included)

**Chairs: C. Brochon / M.T. Charreyre**

- 14:30 **CHEM-K12 MECERREYES**  
INNOVATIVE POLYMERS FOR ENERGY STORAGE  
*David Mecerreyes, POLYMAT, University of the Basque Country (UPV/EHU) (E)*
- 15:00 **CHEM-L40 RAYNAUD**  
FROM POLYBORAMINES TO POLY(STYRENE-CO-STYRENEBORAMINE)S: HARNESSING LEWIS PAIRS IN A POLYMER SCAFFOLD FOR HYDROGEN STORAGE  
*Jean Raynaud, CNRS - Université Lyon - CPE Lyon - C2P2 Université de Lyon (F)*
- 15:15 **CHEM-L41 DROCKENMULLER**  
POLY(1,2,3-TRIAZOLIUM)S: A NEW CLASS OF FUNCTIONAL ION CONDUCTING MATERIALS  
*Eric Drockenmüller, Ingénierie des Matériaux Polymères (F)*
- 15:30 **CHEM-L42 MONNEREAU**  
POLY(IONIC LIQUIDS) WITH CONTROLLED ARCHITECTURES, THEIR FORMULATION INTO GELS, AND THEIR USE AS ELECTROACTIVE MATERIALS  
*Cyrille Monnereau, Ecole Normale Supérieure de Lyon, Université Lyon 1 (F)*

15:45 COFFEE BREAK

**Chairs: J. Raynaud / V. Monteil**

- 16:15 **CHEM-K16 COQUERET**  
STIMULI-RESPONSIVE CELLULOSE NANO CRYSTALS BY RADIATION-INDUCED GRAFT POLYMERIZATION OF N-ISOPROPYL ACRYLAMIDE  
*Xavier Coqueret, Institut de Chimie Moléculaire de Reims (F)*
- 16:45 **CHEM-L55 BARSÌ**  
REDUCTIVE AMINATION VS «CLICK» REACTION ON THE GRAFTING OF POLYSACCHARIDES ONTO JANUS SILICA  
*David Barsi, Dipartimento di Chimica e Chimica Industriale - Università di Pisa (I)*
- 17:00 **CHEM-L56 DEZ**  
FUNCTIONALISATION OF CHITOSAN AEROGELS FOR CATALYSIS  
*Isabelle Dez, Laboratoire de Chimie Moléculaire et Thioorganique (F)*

### Gratte-Ciel 1 & 2

## PHYSICS OF POLYMERS AND POLYMER MATERIALS

**Chairs: F. Nanni / J. Galy**

- 10:15 **PHYS-K13 MULLER-BUSCHBAUM**  
WATCHING AGING IN ORGANIC SOLAR CELLS - AN IN-OPERANDO STUDY  
*Peter Müller-Buschbaum, TU München (D)*
- 10:45 **PHYS-L52 BARRAU**  
MODULATION OF PIEZOELECTRIC PROPERTIES OF PVDF COMPOSITES BY CONTROLLING FUNCTIONALIZED BT CONTENT  
*Sophie Barrau - UMET Unité Matériaux et Transformations, Université de Lille (F)*
- 11:00 **PHYS-L53 BEUERMANN**  
INDUCING BETA PHASE CRYSTALLINITY IN POLY(VINYLIDENE FLUORIDE) VIA SYNTHETIC STRATEGIES OR NANOPARTICLE FORMATION  
*Sabine Beuermann, Clausthal University of Technology (D)*
- 11:15 **PHYS-L54 CHOI**  
UNDERSTANDING ION TRANSPORT IN LITHIUM SINGLE-ION CONDUCTING POLYMER ELECTROLYTES  
*U Hyeok Choi, Pukyong National University (KR)*
- 11:30 **PHYS-L55 OVERTON**  
END-CAPPED SOLID POLYMER ELECTROLYTES SPECIFICALLY DESIGNED FOR LITHIUM ION TRANSPORT: STRUCTURE/CONDUCTIVITY CORRELATIONS  
*Philip Overton, Laboratoire d'Innovation pour les Technologies des Energies Nouvelles et les Nanomatériaux (F)*
- 11:45 **PHYS-L56 PICH**  
FUNCTIONAL CRYCLO-MATRIX PHOSPHAZENE-BASED COLLOIDS  
*Andrij Pich, Leibnitz-Institut für Interaktive Materialien (D)*

12:00 ON-SITE LUNCH BREAK (included)

**Chairs: T. Weil / J. Duchet**

- 14:30 **PHYS-K14 NANNI**  
ALM OF POLYMERS AND NANOCOMPOSITES  
*Francesca Nanni, University Roma (I)*
- 15:00 **PHYS-L57 ALVAREZ-LAINE**  
ORGANIC/INORGANIC NANOFIBERS FOR PHOTOCATALYTIC DEGRADATION  
*Mónica Alvarez-Lainez, Eafit University (Colombia)*
- 15:15 **PHYS-L58 BELMONTE**  
THERMALLY-TRIGGERED AUTONOMOUS SHAPE-MEMORY ACTUATORS  
*Alberto Belmonte, Department of Mechanical Engineering, Università Rovira i Virgili (I)*
- 15:30 **PHYS-L59 SALZANO**  
SMART POLYMERIC COATINGS FOR THE PROTECTION OF BRONZE ARTEFACTS FROM CORROSION  
*Martina Salzano de Luna, Institute for Polymers, Composites and Biomaterials, National Research Council (I)*

15:45 COFFEE BREAK

**Chairs: J. Raynaud / V. Monteil**

- 16:15 **CHAR-K04 WEIL**  
HYBRID POLYMERIC MATERIALS INSPIRED BY NATURE  
*Tanja Weil, Max Planck Institute for Polymer Research (D)*
- 16:45 **CHAR-L11 UNGER**  
NANOSCALE INFRARED SPECTROSCOPY AND IMAGING OF POLYMERIC SYSTEMS  
*Miriam Unger, Anasys Instruments (USA)*
- 17:00 **CHAR-L12 ENRIQUE-JIMENEZ**  
NANOMECHANICAL AND AFM CHARACTERIZATION OF P3HB-CO-3HV SPHERULITES  
*Patricia Enrique-Jimenez, Instituto de Estructura de la Materia (E)*

12:00 POSTER SESSION - Chairs: R. Fulchiron / J.C. Majeste

**Tête d'or 1 & 2**

**MODELLING AND SIMULATION**

**Chairs: A. Soldera / C. Carrot**

- 10:15 **MOD-K01 RAPHAEL**  
SURFACE MOBILITY IN A GLASSY POLYMER  
*Elie Raphaël, UMR CNRS Gulliver 7083, ESPCI-Paris (F)*
- 10:45 **MOD-L02 GOVORUN**  
MICROPHASE SEPARATION IN RANDOM MULTIBLOCK COPOLYMERS  
*Elena Govorun, Faculty of Physics, Lomonosov Moscow State University (RUS)*
- 11:00 **MOD-L03 TIMMERMANN**  
A REVERSIBLY STRAIN STIFFENING MATERIAL – THE BIOMIMETIC APPROACH  
*Timmermann, Kiel University (D)*
- 11:15 **MOD-L04 RISSANOU**  
POLYMER GRAPHENE NANOSTRUCTURED MATERIALS: AN ATOMISTIC SIMULATION STUDY  
*Anastassia Rissanou, University of Crete, Heraklion (G)*
- 11:30 **MOD-K02 MILANO**  
EXPLORING POLYMER BASED NANOMATERIALS WITH MULTISCALE SIMULATIONS FOR INTERFACE AND INTERPHASE ENGINEERING  
*Giuseppe Milano, University of Salerno (I)*

12:00 ON-SITE LUNCH BREAK (included)

**Chairs: A. Arbe / F. Lortie**

- 14:30 **MOD-K03 PERRIN**  
RELATING THE MICROSTRUCTURE OF ETHYLENE-BUTADIENE RUBBERS TO THE LIGAND STRUCTURE OF CATALYSTS BY MEANS OF MECHANISM EXPLORATION  
*Lionel Perrin, Institut de Chimie et Biochimie Moléculaires et Supramoléculaires (F)*
- 15:00 **MOD-L05 SOLDERA**  
IMPACT OF REGIOSPECIFIC DEFECTS ON THE GLASS TRANSITION TEMPERATURE OF PVDF  
*Armand Soldera, Université de Sherbrooke (Canada)*
- 15:15 **MOD-L06 LOEHLE**  
MODEL SHORT-CHAIN SILICA-BASED RUBBERS BY MOLECULAR DYNAMICS SIMULATION  
*Sophie Loehle, Total M&S (F)*
- 15:30 **MOD-L07 BILLON**  
TIME DEPENDENT MECHANICAL MODELING FOR POLYMERS FROM GLASSY TO FLUID STATES BASED ON NETWORK THEORY  
*Noëlle Billon, CEMEF Centre de Mise en Forme des Matériaux (F)*

15:45 COFFEE BREAK

**Chairs: L. Perrin / F. Lortie**

- 16:15 **MOD-K04 ARBE**  
FROM SINGLE-CHAIN NANO-PARTICLES TO ALL-POLYMER NANOCOMPOSITES: A COMBINED EFFORT BY NEUTRON SCATTERING AND MDSIMULATIONS  
*Arantxa Arbe, Materials Physics Center (CSIC-UPV/EHU) (E)*
- 16:45 **MOD-L08 CHEN**  
MOLECULAR DYNAMICS SIMULATION ON THE DISSOLUTION MECHANISM OF CELLULOSE IN ALKALI/UREA AQUEOUS SOLUTION  
*Pan Chen, Wallenberg Wood Science Center and the Department of Fibre and Polymer Technology, KTH Royal Institute of Technology (S)*
- 17:00 **MOD-L09 KUDRYAVTSEV**  
ORDERING OF NANORODS IN BLOCK COPOLYMER DOMAINS  
*Yaroslav Kudryavtsev, Frumkin Institute of Physical Chemistry and Electrochemistry, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences (RUS)*

**Main Room**

- 08:30 PLENARY LECTURE - **Chair: A. J. Ryan**  
**SURFACE MODIFICATION: FROM SOLID SURFACES TO LIVING CELLS**  
*Prof. Hong Che, College of Chemistry, chemical Engineering and Materials Science, Soochow University, Suzhou, Jiangsu (China)*
- 09:15 PLENARY LECTURE - **Chair: A.C. Albertsson**  
**POLYSACCHARIDE-BASED SOFT MICROENVIRONMENTS TO CONTROL CELL BEHAVIOR**  
*Prof. J.F. MANO- Minho University (PT)*

10:00 **PRESENTATION EPF 2019**

10:15 COFFEE BREAK

**Grand P Gratte-Ciel**

**MACROMOLECULAR CHEMISTRY:  
FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS**

**Chairs: O. Colombani / D. Portinha**

- 10:45 **CHEM-K14 HUTCHINGS**  
MONOMER SEQUENCE DISTRIBUTION IN STATISTICAL ANIONIC COPOLYMERISATION  
*Lian Hutchings, Durham Centre for Soft Matter (UK)*
- 11:15 **CHEM-L45 TENHU**  
RESPONSIVE POLYMER PARTICLES THROUGH EMULSION POLYMERIZATION OR POLYMERIZATION INDUCED SELF-ASSEMBLY  
*Heikki Tenhu, Department of Chemistry, University of Helsinki (FI)*
- 11:30 **CHEM-L46 GUERRE**  
DESIGNING PVDF-BASED ARCHITECTURES BY REVERSIBLE ADDITION-FRAGMENTATION TRANSFER (RAFT) PROCESS  
*Marc Guerre, Institut Charles GERHARDT (F)*
- 11:45 **CHEM-L47 RANNARD**  
AMPHIPHILIC BRANCHED POLYMER STABILISED NANOEMULSIONS: NEW POLYMER ARCHITECTURES FOR DRUG DELIVERY  
*Steve Rannard, University of Liverpool (UK)*
- 12:00 **CHEM-L48 RIEGER**  
NANOFIBERS PREPARED BY PISA FOR REINFORCED ACRYLIC COATINGS  
*Jutta Rieger, Institut Parisien de Chimie Moléculaire (F)*
- 12:15 **CHEM-L49 ZHAO (W.)**  
HEPARIN-LIKE HYDROGELS: FROM POLYSACCHARIDE HYDROGELS TO SYNTHETIC HYDROGELS  
*Weifeng Zhao, Sichuan University (China)*

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: J. Rieger / J. Bernard**

- 14:15 **CHEM-K16 MIJANGOS**  
COMBINED PATTERNING STRATEGIES FOR PREPARATION OF NANOSTRUCTURED FUNCTIONAL POLYMERS  
*Carmen Mijangos, Institute of Polymer Science and Technology CSIC (E)*
- 14:45 **CHEM-L55 NOORDZIJ**  
SMALL SCALE SCREENING OF NOVEL BIO-BASED POLYESTERS  
*Geert Noordzij, Chemelot InSciTe, Department of BioBased Materials, Maastricht University (NL)*
- 15:00 **CHEM-L56 GRACE**  
STRUCTURALLY CONTROLLED POLYACRYLATE OLIGOMERS: A NEW CLASS OF ANTIBACTERIAL PEPTIDE ANALOGUES  
*James Grace, Drug Delivery Disposition and Dynamics, Monash Institute of Pharmaceutical Sciences (AUS)*
- 15:15 **CHEM-L57 HRUBY**  
NEW POLYMER THERAPEUTICS FOR THE TREATMENT OF WILSON'S DISEASE  
*Martin Hruby, Institute of Macromolecular Chemistry AS CR (CZ)*
- 15:30 **CHEM-L58 KALI**  
CONTROLLED RADICAL POLYMERIZATION OF MYRCENE, A NATURALLY OCCURRING TERPENE  
*Gergely Kali, Universität des Saarlandes (D)*
- 15:45 **CHEM-L59 CHARREYRE**  
FLUORESCENT LIPID-POLYMER PROBES FOR AN EFFICIENT LABELING OF ENVELOPED VIRUSES  
*Marie-Thérèse Charreyre, Ingénierie des Matériaux Polymères (F)*

16:00 COFFEE BREAK

13:30 **POSTER SESSION**



Grand P Gratte-Ciel

**MACROMOLECULAR CHEMISTRY:  
FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS**

**Chairs: C. Mirangos / J. Bernard**

- 16:30 **CHEM-K18 DURAND**  
USING AMPHIPHILIC POLYSACCHARIDES FOR THE PREPARATION OF BIODEGRADABLE POLYMERIC PARTICLES VIA VARIOUS PROCESSES  
*Alain Durand, LCPM-Université de Lorraine (F)*
- 17:00 **CHEM-L65 VENKIDASUBRAMONIAM**  
SURFACE-INITIATED CONTROLLED RADICAL POLYMERIZATION OF MEDSAH: A ZWITTERIONIC MONOMER FOR BIOMEDICAL APPLICATIONS  
*Gowthamy Venkidasubramonian, Karlsruhe Institute of Technology [Eggenstein-Leopoldshafen] (D)*
- 17:15 **CHEM-L66 PORTINHA**  
POLY(2,3,4,5,6-PENTAFLUOROSTYRENE) AS VERSATILE HYDROPHOBIC CHEMICALLY MODIFIABLE PLATFORM TO EASILY GENERATE WATER REPELLENT SILICA-CONTAINING NANOCOMPOSITE FILM  
*Daniel Portinha, Ingénierie des Matériaux Polymères (F)*
- 17:30 **CHEM-L67 BRISSET**  
ELECTROACTIVE POLYACRYLATE FOR ANTIFOULING APPLICATIONS  
*Hugues Brisset, Matériaux Polymères Interfaces Environnement Marin (F)*
- 17:45 **CHEM-L68 ROTH**  
POSTPOLYMERIZATION MODIFICATION OF REACTIVE POLY(VINYL AZLACTONE) SCAFFOLDS: TUNEABLE SMART MATERIALS AND ANTIFOULING COATING  
*Peter Roth, University of Surrey (UK)*

Gratte-Ciel 1 & 2

**MACROMOLECULAR CHEMISTRY:  
FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS**

**Chairs: P. Zinck / M.T. Charreyre**

- 10:45 **CHEM-K15 SEVERN**  
ACTIVELY SUPPORTING DYNEEMA® THE WORLDS STRONGEST FIBER  
*John Severn, DSM Materials Science Center (NL)*
- 11:15 **CHEM-L50 VANTOMME**  
CATALYST AND PROCESS DESIGN FOR THE DEVELOPMENT OF DIFFERENTIATED POLYOLEFINS  
*Aurélien Vantomme, Total Research and Technology Feluy (B)*
- 11:30 **CHEM-L51 OTTOU**  
AMINO END-FUNCTIONALIZED POLYETHYLENES USING COORDINATIVE CHAIN TRANSFER POLYMERIZATION  
*Winnie Nzahou Ottou, C2P2 Chimie, Catalyse, Polymères et Procédés (F)*
- 11:45 **CHEM-L52 POMPOSO**  
RECENT ADVANCES AND OPPORTUNITIES IN SINGLE-CHAIN POLYMER NANOPARTICLES  
*José A. Pomposo, University of the Basque Country (E)*
- 12:00 **CHEM-L53 SINCLAIR**  
OLEFIN CROSS METATHESIS FOR THE PRE- AND POST- POLYMERISATION MODIFICATION OF BIODEGRADABLE POLYESTERS  
*Fern Sinclair, University of Edinburgh- School of Chemistry (UK)*
- 12:15 **CHEM-L54 LEFAY**  
RADICAL (CO)POLYMERIZATION OF CYCLIC KETENE ACETALS  
*Catherine Lefay, Aix-Marseille Université (F)*

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: T. Tenhu / C. Boisson**

- 14:15 **CHEM-K17 COLOMBANI**  
PH-SENSITIVE HYDROGELS FORMED BY AMPHIPHILIC TRIBLOCK COPOLYMERS WITH CONTROLLED EXCHANGE DYNAMICS  
*Olivier Colombani, Institut des molécules et des matériaux du Mans (F)*
- 14:45 **CHEM-L60 BERTIN**  
FUNCTIONAL THERMORESPONSIVE POLYMERS BASED ON 2,6-DIAMINOPYRIDINE WITH TUNABLE UCST BEHAVIOUR IN ALCOHOL AND WATER/ALCOHOL MIXTURES  
*Annabelle Bertin, German Federal Institute for Materials Research and Testing, Free University of Berlin - Institute of Chemistry and Biochemistry (D)*

- 15:00 **CHEM-L61 HIETALA**  
THERMOSENSITIVE (UCST-LCST) TRIBLOCK COPOLYMERS  
*Sami Hietala, Department of Chemistry, University of Helsinki (FI)*
- 15:15 **CHEM-L62 ABOUDZADEH**  
STIMULI-RESPONSIVE DNA-POLY(ETHYLENE GLYCOL) NETWORKS PREPARED BY COPPER-FREE CLICK CHEMISTRY  
*M. Ali Aboudzadeh, University of the Basque Country, POLYMAT Institute - Thomas Schäfer, University of the Basque Country, POLYMAT Institute (E)*
- 15:30 **CHEM-L63 ULRICH**  
VISIBLE LIGHT-RESPONSIVE POLYMERS BASED ON DASA PHOTOCROMS  
*Sebastian Ulrich, Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Protection and Physiology, Adolphe Merkle Institute (CH)*
- 15:45 **CHEM-L64 LEFAY**  
ANTIMICROBIAL AMPHIPHILIC METHACRYLICS COPOLYMERS SYNTHESIZED BY NITROXIDE-MEDIATED POLYMERIZATION  
*Catherine Lefay, Aix-Marseille Université (F)*

16:00 COFFEE BREAK

**Chairs: L. Hutchings / V. Monteil**

- 16:30 **CHEM-K19 SAINT-LOUP**  
ISOSORBIDE AS A BUILDING BLOCK FOR POLYESTERS AND POLYCARBONATE, CHALLENGES AND APPLICATIONS  
*René Saint-Loup, Roquette Co. (F)*
- 17:00 **CHEM-L69 COMERFORD**  
NOVEL MONOMERS AND POLYMERS FROM BIO-DERIVED PLATFORM MOLECULES  
*James Comerford, University of York (UK)*
- 17:15 **CHEM-L70 BADIA**  
DEVELOPMENT OF WATER-BASED PRESSURE SENSITIVE ADHESIVES FROM BIOMASS DERIVED MONOMERS  
*Adrián Badía, POLYMAT and Departamento de Química Aplicada, University of the Basque Country UPV/EHU (E)*
- 17:30 **CHEM-L71 JASIUNAS**  
RENEWABLE BIOPOLYOLS PRODUCED VIA TWO-STAGE CRUDE GLYCEROL MEDIATED LIQUEFACTION OF INDUSTRIAL BIOMASS BY-PRODUCTS - Lukas Jasiūnas, Kaunas University of Technology (LT)
- 17:45 **CHEM-L72 WILSENS**  
LIQUID CRYSTALLINE POLYMERS FROM VANILLIC ACID: SYNTHESIS, PROPERTIES, AND APPLICATIONS  
*Carolus Wilsens, Aachen Maastricht Institute of Biobased Materials (NL)*

Tête d'or 1 & 2

**PHYSICS OF POLYMERS AND POLYMER MATERIALS**

**Chairs: P. Stepanek / J. Galy**

- 10:45 **PHYS-K15 ETRYCH**  
POLYMER-BASED NANOMEDICINES: POLYMER STRUCTURE AS A KEY PARAMETR FOR THEIR EFFECTIVNESS  
*Tomáš Etrych, Institute of Macromolecular Chemistry CAS (CZ)*
- 11:15 **PHYS-L60 TRIMAILLE**  
LACTIDE/N-VINYLPYRROLIDONE BASED REACTIVE COPOLYMER MICELLES: A VERSATILE PLATFORM FOR BIO-RELATED APPLICATIONS - Thomas Trimaille, Institut de Chimie Radicalaire (F)
- 11:30 **PHYS-L61 APPELHANS**  
TRIGGERING MULTIENZYMATIC REACTIONS USING POLYMERSOMES AND POLYMERSOMES-BASED MULTICOMPARTMENTS  
*Dietmar Appelhans, Leibniz-Institut für Polymerforschung Dresden e. V. (D)*
- 11:45 **PHYS-L62 ECKARDT**  
WELL-DEFINED, POSITIVELY CHARGED HYBRID NANOPARTICLES FOR NON-VIRAL GENE DELIVERY  
*Oliver Eckardt, Friedrich Schiller Universität Jena, Jena Center for Soft Matter (D)*
- 12:00 **PHYS-L63 CAZARES-CORTES**  
HYBRID POLYMERIC NANOCARRIERS FOR REMOTELY TRIGGERED DRUG DELIVERY UPON EXPOSURE TO AMF  
*Esther Cazares Cortes, Laboratoire Physicochimie Electrolytes et Nanosystèmes Interfaciaux - Phenix (F)*
- 12:15 **PHYS-L64 PONJAVIC**  
CONTROLLED DRUG RELEASE SYSTEMS BASED ON PCL/PEO/PCL BLOCK COPOLYMERS WITH A LOW PEO CONTENT  
*Marijana Ponjavic, Faculty of Technology and Metallurgy, University of Belgrade (RS)*

12:30 ON-SITE LUNCH BREAK (included)

13:30

POSTER SESSION

## PHYSICS OF POLYMERS AND POLYMER MATERIALS

**Chairs: H. Friedrich / A. Favier**

- 14:15 **PHYS-K18 STEPANEK**  
PHYSICO-CHEMICAL APPROACH TO PREPARATION AND OPTIMIZATION OF NANOPARTICLES FOR BIOMEDICAL APPLICATIONS  
*Petr Stepanek, Institute of Macromolecular Chemistry (CZ)*
- 14:45 **PHYS-L75 ZHUANG**  
TRÖGER'S BASE (TB)-BASED POLYIMIDE/COPOLYIMIDE MEMBRANES: FREE VOLUME AND CHAIN ORIENTATION  
*Zhuang Yongbing, Tokyo Institute of Technology (J)*
- 15:00 **PHYS-L76 MINGOTAUD**  
ASSEMBLY OF DOUBLE-HYDROPHILIC BLOCK COPOLYMERS TRIGGERED BY GADOLINIUM IONS: NEW COLLOIDAL MRI CONTRAST AGENTS  
*Christophe Mingotaud, Laboratoire des Interactions moléculaires et réactivité chimique et photochimique (F)*
- 15:15 **PHYS-L77 RIPPE**  
STIMULI-RESPONSIVE POLYSACCHARIDE-BASED BIOMATERIALS FOR CONTROLLED DRUG RELEASE  
*Marlène Rippe, Centre de Recherches sur les Macromolécules Végétales (F)*
- 15:30 **PHYS-L78 NOTTELET**  
DIRECT PHOTOCHEMICAL MODIFICATION OF POLYMER SURFACES FOR ANTIBIOFILM MEDICAL DEVICE  
*Benjamin Nottelet, Institut des Biomolécules Max Mousseron (F)*
- 15:45 **PHYS-L79 SILVA**  
SILOXANE-POLY(OXYPROPYLENE) HYBRIDS FOR LONG-TERM DRUG DELIVERY: CORRELATION BETWEEN RELEASE MECHANISMS AND STRUCTURAL EVOLUTION DURING THE PROCESS  
*Ranielle SILVA Universidade Estadual Paulista-Instituto de Química (UNESP-IQ) (Brazil)*

16:00 COFFEE BREAK

**Chairs: T. Etrych / J. Duchet**

- 16:30 **PHYS-K21 FRIEDRICH**  
ZOOMING IN ON MULTISCALE POLYMER COMPOSITES  
*Heiner Friedrich, Eindhoven University of Technology (NL)*
- 17:00 **PHYS-L90 NICOL**  
INTERPENETRATED POLYMER SELF-ASSEMBLED NETWORK HYDROGELS  
*Erwan Nicol, Institut des molécules et des matériaux du Mans (F)*
- 17:15 **PHYS-L91 THOMAS**  
ENGINEERING AT THE NANOSCALE: A STRATEGY FOR DEVELOPING HIGH PERFORMANCE FUNCTIONAL MATERIALS  
*Sabu Thomas, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University (India)*
- 17:30 **PHYS-L92 TU**  
INTERIOR ANALYSES ON LAMELLAR ASSEMBLY IN DUAL TYPES OF RING-BANDED SPHERULITES OF POLY(NONAMETHYLENE TEREPHTHALATE) *Chien-Hua Tu, National Cheng Kung University (China)*
- 17:45 **PHYS-L93 MARAND**  
EFFECT OF CHAIN LENGTH ON THE CRYSTAL GROWTH RATE OF LINEAR POLYETHYLENE  
*Herve Marand, Virginia Polytechnic Institute And State University [Blacksburg] (USA)*

## PHYSICS OF POLYMERS AND POLYMER MATERIALS

**Chairs: R. Duchateau / P. Cassagnau**

- 10:45 **PHYS-K16 FINA**  
RING-OPENING POLYMERIZATION DURING MELT-MIXING IN THE PRESENCE OF GRAPHENE-RELATED MATERIALS TO PREPARE THERMALLY CONDUCTIVE NANOCOMPOSITES  
*Alberto Fina, Politecnico di Torino (I)*
- 11:15 **PHYS-L65 TAGUET**  
HALLOYSITE, A VERSATILE NANOPARTICLE USED IN POLYAMIDE  
*Aurélien Taguet, Centre des Matériaux des Mines d'Alès (F)*
- 11:30 **PHYS-L66 ALTABELLI**  
REFINEMENT AND STABILIZATION OF CO-CONTINUOUS MORPHOLOGIES BY INTERFACIAL NANOCCLAY  
*Rosaria Altobelli, Department of Chemical, Materials and Production Engineering (IISTM Consortium – UdR Naples), University of Naples Federico II (I)*
- 11:45 **PHYS-L67 DERRADJI**  
HIGHLY FILLED BORON NITRIDE-PHTHALONITRILE NANOCOMPOSITES FOR EXIGENT THERMALLY CONDUCTIVE APPLICATIONS  
*Mehdi Derradji, Institute of Composite Materials, Key Laboratory of Superlight Material and Surface Technology of Ministry of Education, College of Materials Science and Chemical Engineering, Harbin Engineering University, Harbin (China)*

- 12:00 **PHYS-L68 JAILLET**  
SUSTAINABLE, CONDUCTING, STRAIN RESPONSIVE, MULTIFUNCTIONAL NANOCARBON/NATURAL RUBBER COMPOSITE  
*Christèle Jaillet, Centre de Recherche Paul Pascal - CNRS, Centre de Recherche Paul Pascal (CRPP) (F)*
- 12:15 **PHYS-L69 GALVAN-TORRES**  
MECHANICAL PROPERTIES AND FIRE PERFORMANCE OF HDPE/COC/CLAY/MAGNESIUM HYDROXIDE NANOCOMPOSITES  
*Joel Bersayn Galván-Torres, Centro de Investigación en Química Aplicada (Mexico)*

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: F. Puglia / P. Cassagnau**

- 14:15 **PHYS-K19 DUCHATEAU**  
MICROSCOPIC CHARACTERIZATION OF IPP/PC BLENDS COMPATIBILIZED BY INTERFACIALLY LOCALIZED IPP-BLOCK/ GRAFT-POLYESTERS COPOLYMERS  
*Rob Duchateau, SABIC Europe (NL)*
- 14:45 **PHYS-L80 CANDAU**  
PHASES AND INTERPHASES IN SEMICRYSTALLINE POLYAMIDE BLENDS AND COMPOSITES: IMPACT ON THERMOMECHANICAL PROPERTIES  
*Nicolas Candau, EPFL, Laboratory of Macromolecular and Organic Materials (CH)*
- 15:00 **PHYS-L81 KERSCHER**  
THE ECO PROFILE OF ACRYLIC GLASS  
*Volker Kerscher, Evonik Performance Materials GmbH, Evonik Performance Materials GmbH (D)*
- 15:15 **PHYS-L82 RADJABIAN**  
STRUCTURE FORMATION OF PURE AND BINARY BLENDS OF AMPHIPHILIC BLOCK COPOLYMERS IN SOLUTION, IN MEMBRANE AND IN BUL  
*Maryam Radjabian, Helmholtz-Zentrum Geesthacht, Institute of Polymer Research (D)*
- 15:30 **PHYS-L83 LINDNER**  
B-STAGE EPOXY MATERIALS  
*Jean-Pierre Lindner, Advanced Materials Research, BASF SE (D)*
- 15:45 **PHYS-L84 ALRAHHAL**  
INFLUENCE OF CONTINUOUS ELECTRON INDUCED REACTIVE PROCESSING ON MELT SPINNABILITY OF POLYPROPYLENE/RUBBER BLENDS  
*Samer Alrahhah, Leibniz Institute for Polymer Research Dresden (D)*

16:00 COFFEE BREAK

**Chairs: A. Fina / P. Cassagnau**

- 16:30 **PHYS-K22 KENNY**  
FUNDAMENTALS OF NANOCELLULOSE BASED POLYMER NANOCOMPOSITES  
*José Kenny, University of Perugia (I)*
- 17:00 **PHYS-L94 JESTIN**  
INTERFACIAL POLYMER CONTRIBUTION TO MECHANICAL REINFORCEMENT IN NANOCOMPOSITES  
*Jacques Jestin, Laboratoire Léon Brillouin (F) and Columbia University (USA)*
- 17:15 **PHYS-L95 FLORES**  
STRUCTURE AND PROPERTIES OF NEW CONDUCTIVE ELASTOMERS BASED ON SEBS AND GRAPHENE  
*Araceli Flores, Instituto de Estructura de la Materia*
- 17:30 **PHYS-L96 DORIGATO**  
LOW TEMPERATURE THERMAL ACTIVATION OF PHASE CHANGE NANOCOMPOSITE MATERIALS  
*Andrea Dorigato, University of Trento (I)*
- 17:45 **PHYS-L97 BENES**  
INFLUENCE OF IONIC LIQUIDS ON IN-SITU PREPARATION OF POLYMER MATERIALS  
*Hynek Beneš, Institute of Macromolecular Chemistry AS CR (CZ)*

## PROCESSES AND POLYMERS: POLYMERIZATION PROCESSES AND POLYMER PROCESSING

**Chairs: V. Michaud / J. Duchet**

- 10:45 **PROC-K08 MCNALLY**  
DESIGN OF MULTI-FUNCTIONAL POLYACRYLATES AND THEIR ROLE IN NON-COVALENT COMPATIBILISATION OF COMPOSITES OF MWCNTS AND GRAPHENE WITH PP  
*Tom Mc Nally, International Institute for Nanocomposites Manufacturing (IINM), WMG, University of Warwick (UK)*
- 11:15 **PROC-L31 RUCH**  
HYBRID MULTIFUNCTIONAL NANOCOMPOSITE COATINGS BY AEROSOL-ASSISTED ATMOSPHERIC COLD PLASMA DEPOSITION : PREPARATION, CHARACTERIZATION AND APPLICATIONS  
*David Ruch, Luxembourg Institute of Science and Technology (L)*

13:30

POSTER SESSION

Bellecour 2

PROCESSES AND POLYMERS:  
POLYMERIZATION PROCESSES AND POLYMER PROCESSING

- 11:30 **PROC-L32 SPIEGEL**  
POLYOLEFIN MATERIAL PROPERTIES, DESIGNED FOR 3D PRINTING APPLICATIONS  
*Gunnar Spiegel, Johannes Kepler University Linz (A)*
- 11:45 **PROC-L33 SRINIVAS**  
MOLECULAR DESIGN OF HIGH PERFORMING POLYMERS FOR 3D FDM PRINTING  
*Varun Srinivas, Department of Biobased Materials, Maastricht University (NL)*
- 12:00 **PROC-L34 CARDOSO**  
EVALUATION OF PROCESS PARAMETERS ON MANUFACTURING OF 3D PRINTED PLA/PBAT BLEND PARTS  
*Paulo Henrique Machado Cardoso, Coppe - Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa de Engenharia (Brazil)*
- 12:15 **PROC-L35 VILLOTTE**  
SYNTHESIS AND STUDY OF IODONIUM BASED PHOTOINITIATORS: APPLICATION TO 3D PRINTING  
*Ségolène Villotte, Aix-Marseille Université, CNRS (F)*

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: Mc Nally / R. Seguela**

- 14:15 **PROC-K09 MICHAUD**  
DAMAGE TOLERANCE AND THERMAL MENDING IN FIBER REINFORCED COMPOSITES WITH THERMOPLASTIC/THERMOSET BLENDS  
*Véronique Michaud, Laboratory For Processing of Advanced Composites (LPAC), Ecole Polytechnique Fédérale De Lausanne (EPFL) (CH)*
- 14:45 **PROC-L36 DEPLANCKE**  
TOWARDS EQUILIBRIUM: RE-ENTANGLEMENT KINETICS OF VERY LONG MACROMOLECULAR CHAINS OF UHMWPE  
*Tiana Deplanche, MATEIS Matériaux Ingénierie et Science (F)*
- 15:00 **PROC-L37 FERNANDES-FRANCOS**  
CONTROL OF CURING PROFILES IN THE PROCESSING OF DUAL-CURABLE OFF-STOICHIOMETRIC THIOL-EPOXY SYSTEMS  
*Xavier Fernández-Francos, Thermodynamics Laboratory ETSEIB, Universitat Politècnica de Catalunya (E)*
- 15:15 **PROC-L38 GENTY**  
'CURE-ON-DEMAND' EPOXY-AMINE LIQUID SHIM USING AN INFRARED EMITTER: A KINETIC STUDY  
*Sébastien Genty, Socomore, Centre Inter-universitaire de Recherche et d'Ingénierie des Matériaux (F)*
- 15:30 **PROC-L39 HORSCH**  
SEGMENTED SEQUENCE-DEFINED POLYMERS INSPIRED BY MUSSEL BYSSUS FORMATION  
*Justus Horsch, Humboldt-Universität zu Berlin (D)*
- 15:45 **PROC-L40 BONNAUD**  
KEY POINTS FOR THE DEVELOPMENT OF HIGH PERFORMANCE AND BIO-BASED BENZOXAZINE THERMOSETS  
*Leila Bonnaud, Materia Nova Research Center & University of Mons (B)*

16:00 COFFEE BREAK

**Chairs: L. Bonnaud / R. Seguela**

- 16:30 **PHYS-K23 WISTRAND**  
FUNCTIONAL HOOKS AND MECHANICAL STIMULATION OF DEGRADABLE POLYMER SCAFFOLDS – AN APPROACH TO UNDERSTAND INTERACTIONS BETWEEN MATERIAL, PROTEINS AND CELLS  
*Anna Wistrand, KTH Royal Institute of Technology (S)*
- 17:00 **PHYS-L98 KHADIRVEL**  
MOLECULARLY IMPRINTED SMART POLYMERS: EFFICIENT TOOL FOR SELECTIVE DETECTION OF TRACE ELEMENTS IN AQUATIC ENVIRONMENT  
*Porkodi Kadirvel, Department of Analytical, Bioanalytical Sciences and Miniaturization (F)*
- 17:15 **PHYS-L99 JOHNSTON**  
SURFACE SWITCHING PROPERTIES OF POLY(URETHANE)S FOR APPLICATION AS WATER-BORNE BARRIERS TO MINIMISE SOIL-WATER EVAPORATION AND PERMIT WATER INFILTRATION  
*Priscilla Johnston, Commonwealth Scientific and Industrial Research Organisation (AUS)*
- 17:30 **PHYS-L100 KIRIAKI CHRISOPOULOU**  
EFFECT OF ARCHITECTURE ON POLYESTER DYNAMICS IN THE BULK AND UNDER CONFINEMENT  
*Kiriaki Chrissopoulou, Foundation for Research and Technology-Hellas / Institute of Electronic Structure and Laser (G)*
- 17:45 **PHYS-L101 BARGAIN**  
STRUCTURAL AND THERMAL STUDY OF THE RELAXOR FERROELECTRIC PHASE IN VDF-BASED ELECTROACTIVE POLYMERS  
*François Bargain, Laboratoire Matière Molle et Chimie (F)*

Gratte-Ciel 3

PHYSICS OF POLYMERS AND POLYMER MATERIALS

**Chairs: J. Ulanski / S. Livi**

- 10:45 **PHYS-K17 LAUS**  
HIDDEN ROLE OF SOLVENT IN SOLVENT-FREE PROCESSING OF BLOCK COPOLYMER THIN FILMS FOR NANOTECH APPLICATIONS  
*Michele Laus, Dipartimento di Scienze e Innovazione Tecnologica, Università del Piemonte Orientale (I)*
- 11:15 **PHYS-L70 MA**  
STRUCTURES AND PROPERTIES OF LIGHTWEIGHT FLEXIBLE POLYIMIDE FOAM BASED ON POWDERED PRECURSOR PROCESS  
*Jingjing Ma, Aerospace Research Institute of Material and Processing Technology (China)*
- 11:30 **PHYS-L71 GRANDE**  
SYNTHESIS, MORPHOLOGY, AND THERMAL STABILITY OF NANOPOROUS CYANATE ESTER RESINS DESIGNED BY USING IONIC LIQUIDS AS POROGENS  
*Daniel Grande, Université Paris-Est ICMPE (F)*
- 11:45 **PHYS-L72 XU YITING**  
MESOPOROUS SILICA SPHERES PREPARED BY POSS-BASED BLOCK COPOLYMER AND ANION ANIONIC SURFACTANT AS DUAL-TEMPLATES  
*Yiting Xu, Xiamen University (China)*
- 12:00 **PHYS-L73 ISRAEL**  
HIERARCHICAL POROSITY IN HYPERCROSSLINKED EMULSION-TEMPLATED POLYMERS AND CARBONS DERIVED THEREFROM  
*Sima Israel, Department of Materials Science and Engineering, Technion - Israel Institute of Technology (Israël)*
- 12:15 **PHYS-L74 KOVALENKO**  
TUNING THE SOUND SPEED IN MACROPOROUS POLYMERS  
*Artem Kovalenko, Centre de Recherches Paul Pascal (F)*

12:30 ON-SITE LUNCH BREAK (included)

**Chairs: D. Grande / J. Duchet**

- 14:15 **PHYS-K20 ULANSKI**  
CONTROLLED MORPHOLOGY AND CHARGE CARRIER TRANSPORT IN SOLUTION PROCESSED SEMICONDUCTING POLYMER FILMS  
*Jacek Ulanski, Lodz University of Technology (PL)*
- 14:45 **PHYS-L85 PEARSON**  
LIGHT-MODULATED WETTABILITY AND DROPLET ADHESION ON PHOTORESPONSIVE HONEYCOMB-STRUCTURED POROUS FILMS  
*Samuel Pearson, Équipe de Physique et Chimie des Polymères (EPCP), IPREM (F)*
- 15:00 **PHYS-L86 BOUVET-MARCHAND**  
MULTI-FUNCTIONAL UV-CROSSLINKED POLYMERIC MATERIALS FOR ENCAPSULATION OF ZnO NANOWIRES IN PIEZOELECTRIC FINGERPRINT SENSORS  
*Agathe Bouvet-Marchand, Specific Polymers Co. (F)*
- 15:15 **PHYS-L87 THERIAS**  
PHOTOSTABILITY AND OPTICAL PERFORMANCES OF POLYMER/PHOSPHORE COMPOSITES FOR ECO-ENERGETICS LIGHTINGS  
*Sandrine Thérias, Institut de Chimie de Clermont-Ferrand (F)*
- 15:30 **PHYS-L88 CARBONE**  
THERMODYNAMICS AND DYNAMICS OF POLYMERS AT SOFT INTERFACES  
*Paola Carbone, University of Manchester (UK)*
- 15:45 **PHYS-L89 SAFIDINE**  
FIRE & IMPACT PROOF OF RIGID POLYURETHANE FOAMS, USING MODIFIED MMT NANOCCLAY  
*Zitouni Safidine, Laboratoire de Chimie Macromoléculaire (CIRMAP), Materia Nova Research Center & University of Mons (B)*

16:00 COFFEE BREAK

**Chairs: S. Therias / A. Favier**

- 16:30 **PHYS-K24 SIONKOWSKA**  
NEW MATERIALS BASED ON BIOPOLYMER BLENDS FOR MEDICAL AND COSMETIC APPLICATIONS  
*Alina Sionkowska, Nicolaus Copernicus University Torun (PL)*
- 17:00 **PHYS-L102 LANGHALS**  
CHARACTERISATION OF POLYMERS BY MEANS OF FLUORESCENCE DECAY AND OTHER OPTICAL METHODS  
*Heinz Langhals, Department of Chemistry, Lmu University of Munich (D)*
- 17:15 **PHYS-L103 NUNES OLIVEIRA SILVA**  
SELF-CROSSLINKED COLLAGEN/CHITOSAN BLENDS FOR TISSUE ENGINEERING  
*Paula Nunes De Oliveira, Ingénierie des Matériaux Polymères (F)*
- 17:30 **PHYS-104 LOTTI**  
NOVEL BIOBASED AROMATIC-ALIPHATIC FURAN-LIKE COPOLYESTERS CONTAINING SULPHUR ATOMS  
*Nadia Lotti, DICAM, University of Bologna (I)*
- 17:45 **PHYS-L105 DE KEER**  
NEW PERSPECTIVES FOR STEP-GROWTH POLYMERIZATION: LIGHT DRIVEN STEP-GROWTH FUSED WITH CHAIN EXTENSION VIA RAFT POLYMERIZATION  
*Lies De Keer, Laboratory for Chemical Technology, Ghent University (B)*

13:30 POSTER SESSION

## ➔ Friday July 7

### Main Room

08:30 PLENARY LECTURE - **Chair: H. Chen**  
**INTEGRATIVE CHEMISTRY OF HYBRID ORGANIC-INORGANIC MATERIALS**  
*Dr. Clément Sanchez - Collège De France, Paris (France)*

9:15 PLENARY LECTURE - **Chair: E. Giannelis**  
**WHAT DOES "SUSTAINABLE" MEAN IN THE CONTEXT OF POLYMERS?**  
*Prof. Anthony Ryan - Sheffield University (UK)*

10:00 COFFEE BREAK



### Grand P Gratte-Ciel

## MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS

**Chairs: A. Durand / J. Bernard**

- 10:45 **CHEM-K20 GEORGIU**  
COMPLEX AND MULTI-BLOCK COPOLYMERS VIA GROUP TRANSFER POLYMERISATION  
*Theoni K. Georgiou, Department of Materials, Imperial College London (UK)*
- 11:15 **CHEM-L73 JENNINGS**  
SEMI-CRYSTALLINE BLOCK COPOLYMERS AS STABILISERS FOR SOLID LIPID NANOPATELETS  
*James Jennings, The University of Sheffield (UK)*
- 11:30 **CHEM-L74 MAKUSKA**  
SYNTHESIS AND STUDY OF PENTABLOCK COPOLYMERS WITH REPEATING BRUSH BLOCKS MIMICKING BIOLUBRICANTS  
*Ricardas Makuska, Vilnius University (LT)*
- 11:45 **CHEM-L75 WILLIAMS**  
EXPLOITING POLYMER TOPOLOGY TO CONTROL NANOPARTICLE DISASSEMBLY  
*Rebecca Williams, University of Warwick (UK)*
- 12:00 **CHEM-L76 ALMDAL**  
FUNCTIONAL DIBLOCK COPOLYMERS AND ABC STARS: SYNTHESIS, PROPERTIES AND POTENTIAL APPLICABILIT  
*Kristoffer Almdal, Technical University of Denmark, DTU Nanotech - Department of Micro- and Nanotechnology, Produktionstorvet, 2800 Kgs. Lyngby, (DK)*
- 12:15 **CHEM-L77 DENIAU**  
SYNTHESIS OF AMPHIPHILIC DIBLOCK COPOLYMERS BY NITROXYDE-MEDIATED POLYMERIZATION:  
TOWARDS THERMO- AND CO<sub>2</sub>-RESPONSIVE SELF-ASSEMBLY IN AQUEOUS MEDIA  
*Elise Deniau Lejeune, Institut Pluridisciplinaire de Recherche sur l'Environnement et les Matériaux (F)*

13:00 ON-SITE LUNCH BREAK (included)

### Gratte-Ciel 1 & 2

## MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS

**Chairs: R. Saint Loup / A. Charlot**

- 10:45 **CHEM-K21 PAPPALARDO**  
CONTROLLED AND MULTIPURPOSE RING-OPENING POLYMERIZATION OF VARIOUS CYCLIC ESTERS  
BY SALICYLALDIMINATO ALUMINUM ALKYL COMPLEXES  
*Daniela Pappalardo, Dipartimento di Scienze e Tecnologie, Università del Sannio (I)*
- 11:15 **CHEM-L78 JACQUEL**  
THE USE OF FURANIC BIOBASED MONOMERS IN POLYESTER SYNTHESIS  
*Nicolas Jacquel, Roquette Frères (F)*
- 11:30 **CHEM-L79 DE BON**  
ELECTROCHEMICALLY MEDIATED ATOM TRANSFER RADICAL POLYMERIZATION IN IONIC LIQUID/WATER MIXTURES  
*Francesco De Bon, Dipartimento Di Scienze Chimiche, University Padova (I)*
- 11:45 **CHEM-L80 KUCKLING**  
GREEN SYNTHESIS OF ALIPHATIC POLYCARBONATES  
*Dirk Kuckling, University of Paderborn (D)*
- 12:00 **CHEM-L81 SLOMKOWSKI**  
SWELLABLE POLYSILOXANE PARTICLES AS PRECERAMIC MATERIAL FOR SILICON OXYCARBIDE MICROSPHERES -  
SYNTHESIS AND PROPERTIES  
*Stanislaw Slomkowski, Center of Molecular and Macromolecular Studies, Polish Academy of Sciences (PL)*

12:15 **CHEM-L82 VENKATARAMAN**  
FACILE APPROACH TO ACCESS FUNCTIONAL SIX- AND EIGHT-MEMBERED CYCLIC CARBONATES AND  
THEIR ORGANO-CATALYTIC RING-OPENING POLYMERIZATION  
*Shrinivas Venkataraman, Institute of Bioengineering and Nanotechnology (SG)*

13:00 ON-SITE LUNCH BREAK (included)

### Gratte-Ciel 3

## PHYSICS OF POLYMERS AND POLYMER MATERIALS

**Chairs: E. Nicol / S. Livi**

- 10:45 **PHYS-K25 DUCHET**  
IONIC LIQUIDS : NEW ADDITIVES WITHIN POLYMER MATERIALS  
*Jannick Duchet, Ingénierie des Matériaux Polymères (F)*
- 11:15 **PHYS-L106 OPRIS**  
HIGH DIELECTRIC PERMITTIVITY ELASTOMERS FOR ARTIFICIAL MUSCLES  
*Dorina Opris, Swiss Federal Laboratories for Materials Science and Technology (CH)*
- 11:30 **PHYS-L107 SALOMATINA**  
NANOSTRUCTURED POLY(TITANIUM OXIDE) DOPED BY AU (AG) NANOPARTICLES IN ORGANIC POLYMER MATRIX  
AS EFFECTIVE PHOTOCATALISTS  
*Evgeniia Salomatina, N.I. Lobachevsky State University of Nizhny Novgorod (RUS)*
- 11:45 **PHYS-L108 COMORETTO**  
POLYMERS FOR PHOTONIC DEVICES  
*Davide Comoretto, Dipartimento di Chimica e Chimica Industriale, Università degli Studi di Genova, Genova (I)*
- 12:00 **PHYS-L109 LE MARTINEL**  
NANOCOMPOSITES SPRAY QUANTUM RESISTIVE SENSORS (SQRS) FOR THE STRUCTURAL HEALTH MONITORING  
OF COMPOSITE WIND BLADES  
*Antoine Lemartinel, Laboratoire d'Ingénierie des Matériaux de Bretagne (F)*
- 12:15 **PHYS-L110 MUSSAULT**  
HYDROGELS WITH THERMORESPONSIVE TOUGHNESS  
*Cécile Mussault, Sciences et Ingénierie de la Matière Molle (F)*

13:00 ON-SITE LUNCH BREAK (included)

### Tête d'or 1 & 2

## PHYSICS OF POLYMERS AND POLYMER MATERIALS

**Chairs: A.F. Mingotaud / R. Seguela**

- 10:45 **PHYS-K26 PRUVOST (M.)**  
MATERIALS WITH VARIABLE PERMITTIVITY FOR VIBRATIONAL ENERGY HARVESTING  
*Mickael Pruvost, ESPCI (F)*
- 11:15 **PHYS-L111 AURIEMMA**  
HIERARCHICAL TRANSFORMATIONS AT UNIT CELL AND LAMELLAR LENGTH SCALES BY EFFECT OF TENSILE DEFORMATION  
IN ISOTACTIC POLYPROPYLENE SAMPLES  
*Finizia Auriemma, Dipartimento di Scienze Chimiche (I)*
- 11:30 **PHYS-L112 SOTTA**  
NON-ENTROPIC CONTRIBUTION TO REINFORCEMENT IN FILLED ELASTOMERS  
*Paul Sotta, Laboratoire Polymères et Matériaux Avancés (F)*
- 11:45 **PHYS-L113 MIQUELARD-GARNIER**  
KINETICS OF THIN POLYMER FILMS RUPTURE: MODEL EXPERIMENTS FOR UNDERSTANDING LAYER BREAKUPS  
IN NANOLAYER COEXTRUSION  
*Guillaume Miquelard-Garnier, Procédés et Ingénierie en Mécanique et Matériaux (F)*
- 12:00 **PHYS-L114 CARRIERE**  
THE OFF-STOICHIOMETRIC EFFECT OF EPOXY-AMINE THERMOSETS AT SILICON INTERFACE ON THE WATER ABSORPTION  
IN THIN FILMS DURING HYGROTHERMAL AGING : PEAKFORCE AFM AND NANOTHERMAL ANALYSIS STUDY  
*Pascal Carrière, Université de Toulon (F)*
- 12:15 **PHYS-L115 RAPP**  
IMPACT OF THERMOOXIDATIVE AGEING ON MICROSTRUCTURE, THERMAL AND MECHANICAL PROPERTIES  
OF CROSSLINKED LINEAR POLYETHYLENE/Branched POLYETHYLENE BLENDS  
*Géraldine Rapp, Institut de Chimie de Clermont-Ferrand, MATEIS – INSA Lyon UMR 5510 (F)*

13:00 ON-SITE LUNCH BREAK (included)

Bellecour 1 & 2

PROCESSES AND POLYMERS:  
POLYMERIZATION PROCESSES AND POLYMER PROCESSING

Chairs: H. Benes / J.C. Majeste

- 10:45 **PROC-K10 BOUNOR-LEGARE**  
EFFICIENT CARBONYL HYDROSILYLATION REACTION IN POLYMER PROCESSING CONDITIONS: A ORIGINAL APPROACH TO STRUCTURIZE PA12/PDMS BLENDS  
Véronique BOUNOR-LEGARE, Ingénierie des Matériaux Polymères (F)
- 11:15 **PROC-L41 LO RE**  
BIOCOMPOSITES BASED ON PCL AND CELLULOSIC WOOD PULP FIBERS  
Giada Lo Re, Royal Institute of Technology KTH (S)
- 11:30 **PROC-L42 BOUQUEY**  
IN SITU POLYMERIZATION OF STYRENE INTO A PMMA MATRIX BY USING AN EXTENSIONAL FLOW MIXING DEVICE: A NEW APPROACH TO ELABORATE POLYMER BLENDS  
Michel Bouquey, Institut Charles Sadron (F)
- 11:45 **PROC-L43 FREYMOND**  
STUDY OF ETHYLENE-VINYL ALCOHOL CRYSTALLIZATION UNDER CONFINEMENT  
Clément Freymond, Procédés et Ingénierie en Mécanique et Matériaux (F)
- 12:00 **PROC-L44 RIGOUSSEN**  
SUSTAINABLE COMPATIBILIZATION OF PLA/ABS IMMISCIBLE BLENDS  
Alan Rigoussen, Luxembourg Institute of Science and Technology, Centre d'Innovation et de Recherche en Matériaux Polymères (L)
- 12:15 **PROC-L45 KUNZ**  
FROM MICROCOMPOUNDER TO FILM EXTRUSION: PVDF/MWCNT COMPOSITES WITH HIGH ELECTRICAL CONDUCTIVITY  
Karina Kunz, Leibniz-Institut für Polymerforschung Dresden e.V. (D)
- 13:00 ON-SITE LUNCH BREAK (included)

# LISTING POSTERS

N° POSTER - DOCID - TITLE - Speakers

## Monday July 3 / 14:00

### ➤ MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS

- MO 001 - 154846**  
AZLACTONE-BASED COPOLYMERS FOR MULTI-RESPONSIVE MAGNETIC NANOPARTICLES  
Montembault Véronique <veronique.montembault@univ-lemans.fr>
- MO 002 - 154143**  
ATMOSPHERIC-PRESSURE PLASMA DEPOSITION AND BIOFUNCTIONALIZATION OF METHACRYLIC-BASED LAYERS CONTAINING QUINONE UNITS  
Quintana Robert <roberto.quintana@list.lu>
- MO 003 - 153534**  
RAFT-MEDIATED SYNTHESIS OF POLYMER/LAPONITE COMPOSITE LATEXES  
De Camargo Chaparro Thaïssa <thaïssa.chaparro@lcpp.cpe.fr>
- MO 004 - 153278**  
A SMART POLYMERIC SENSOR FOR TRICHLOROMETHYL-CONTAINING CHLOROALKANES: PHOTODEGRADABLE 1,4-BIS(PIPERIDYL)NAPHTHALENE CROSS-LINKER  
Oizumi Tomohisa <oizumi.t.aa@m.titech.ac.jp>
- MO 005 - 152856**  
IMPROVED LIQUID PHASE SYNTHESIS OF PEPTIDE NUCLEIC ACIDS USING HYDROPHOBIC ANCHORING GROUPS  
Brueggemann Oliver <oliver.brueggemann@jku.at>
- MO 006 - 152413**  
RAFT CO-POLYMERIZATION OF METHYL METHACRYLATE AND BUTYL ACRYLATE MEDIATED BY THIOCARBONATE AND CARBODITHIOATE  
Gunbas Dogan <ismaildogan.gunbas@betek.com.tr>
- MO 007 - 151964**  
PREPARATION OF SMART MAGNETIC CARRIERS VIA RAFT-MEDIATED EMULSION POLYMERIZATION  
Guimaraes Thiago <thiago.guimarois@gmail.com>
- MO 008 - 151740**  
SYNTHESIS OF ELECTROPHORETIC INKS FOR E-PAPER APPLICATION  
Noel Amelie <amelie.noel87@gmail.com>
- MO 009 - 150921**  
ISOSORBIDE AS A CHAIN EXTENDER FOR THERMOPLASTIC POLYURETHANES  
Blache Héloïse <heloise.blache@insa-lyon.fr>
- MO 010 - 150163**  
MICHAEL ADDITION REACTION BASED BIOPOLYMERIC SCAFFOLDS FOR TISSUE REGENERATION APPLICATIONS  
Banerjee Samhita <samhita.banerjee@oci.uni-hannover.de>
- MO 011 - 149637**  
SYNTHETIC NUCLEOBASE MATERIALS IN AQUEOUS SOLUTION  
Hua Zan <Z.Hua@warwick.ac.uk>

- MO 012 - 149357**  
POLYMERIC NANO-/MICRO-STRUCTURED BIOCATALYSTS  
Wu Changzhu <changzhu.wu@tu-dresden.de>
- MO 013 - 148506**  
CHARACTERIZATION AND PRODUCTION OPTIMIZATION OF [PCL-PEG-PCL]-b-PLA MULTIBLOCK COPOLYMERS USED FOR PROTEIN DELIVERY  
Nakajima Hajime <h.nakajima@innocorepharma.com>
- MO 014 - 147820**  
DESIGN OF NEW HYPERBRANCHED COPOLYMERS VIA THE COMBINATION OF CONTROLLED RADICAL POLYMERISATION AND ANIONIC/RING-OPENING MULTIBRANCHING POLYMERISATION  
Stumbe Jean-François <jean-francois.stumbe@uha.fr>
- MO 015 - 147817**  
NEW HYPERBRANCHED POLYGLYCEROLS BASED-"DENDRIGRAFTS" VIA AZA-MICHAEL ADDITIONS  
Abdallah-Boina Dhahabia <dahabia.abdallah-boina@uha.fr>
- MO 016 - 147805**  
KINETIC INVESTIGATION OF THE FUNCTIONALIZATION OF INTERMEDIATE POLYOLS FOR CROSSLINKED MATERIALS  
Jagu Romain <romain.jagu@uha.fr>
- MO 017 - 147049**  
SYNTHESIS OF POLY(TERT-BUTYL ACRYLATE)-XANTHATE MACROINITIATOR AS A PRECURSOR FOR RAFT POLYMERIZATION WITH N-VINYLPYRROLIDONE  
Pavlovic Drazen <drazenpavlovic@rcsi.ie>
- MO 018 - 146554**  
ENHANCED IONIC CONDUCTIVITY OF A 1,2,3-TRIAZOLIUM-BASED POLY(SILOXANE IONIC LIQUID) HOMOPOLYMER  
Jourdain Antoine <antoine.jourdain@univ-lyon1.fr>
- MO 019 - 146505**  
GRAFTING OF POLY (METHYLMETHACRYLATE) FROM MAGNETIC NANOPARTICLES USING INITIATOR COUPLING AGENT FOR CONTROLLED RADICAL POLYMERIZATION  
Tichane Teddy <teddy.tichane@univ-st-etienne.fr>
- MO 020 - 145157**  
SYNTHESIS OF THE FIRST TETRASUBSTITUTED ACYLGERMANES AND THEIR USE AS PHOTOINITIATORS  
Maier Janine <jmaier@student.tugraz.at>
- MO 021 - 144135**  
SYNTHESIS OF SEQUENCE DEFINED LINEAR MACROMOLECULES VIA PRECISION PHOTOCHEMISTRY  
Konrad Waldemar <waldemar.konrad@kit.edu>
- MO 022 - 141816**  
PEPTICAPS: DESIGN OF EMULSIFIERS TO PRODUCE SAFE, CONTROLLED AND RELIABLE NOVEL STIMULI-RESPONSIVE NANOPARTICLES FOR SKIN CARE APPLICATIONS  
Le Fer Gaëlle <Gaëlle.Lefer@enscbp.fr>
- MO 023 - 141740**  
HEMICELLULOSE EXTRACTION PROCESS AND ITS POTENTIAL USE AS A DRUG DELIVERY SYSTEM  
Wissam Farhat <wissam.farhat@univ-st-etienne.fr>
- MO 024 - 141643**  
NOVEL SURFACTANT-FREE NANOLATEXES BASED ON MICROMETRIC PICKERING EMULSION POLYMERIZATION STABILIZED BY ACETYLATED CELLULOSE NANOCRYSTALS  
Werner Arthur <arthur.werner@hotmail.fr>
- MO 025 - 141616**  
POLYLACTIDE/CELLULOSE NANOCRYSTALS: THE IN SITU POLYMERIZATION APPROACH TO IMPROVED NANOCOMPOSITES  
Gazzotti Stefano <stefano.gazzotti@unimi.it>
- MO 026 - 141542**  
SYNTHESIS OF FUNCTIONAL POLYMERS BY AGET ATRP WITH COPPER AND RUTHENIUM CATALYSTS  
Grishin Ivan <grishin\_i@ichem.unn.ru>
- MO 027 - 141478**  
EFFECTIVE SYNTHESIS OF HOMOPOLYMERS AND BLOCK COPOLYMERS WITH THE USE OF SWITCHABLE RAFT-AGENTS  
Polozov Yegor <yegor.polozov@mail.ru>

# PULSALYS

SATT LYON ST ETIENNE

TECHNOLOGY TRANSFER

STARTUP BUILDING

INVESTMENT

INNOVATION

PULSALYS is the Technology Transfer Office of the Universities of Lyon and Saint-Etienne.

**> Our missions :**  
technology transfer & startup building

**> Our means :**  
10 years funding of €57 million

**> Our shareholders :**

**KEY FIGURES 2014-2016**

80  
funded projects

42  
startup created

23  
operating contracts

100  
patent applications filed

9  
M€ invested

**CONTACT US :**  
contact@pulsalys.fr



**MO 028 - 141377**  
CONTROLLED SYNTHESIS OF ANIONIC AMPHIPHILIC GLYCOPOLYMER BOTTLE-BRUSHES  
*Krivorotova Tatjana <tania.krivorot81@gmail.com>*

**MO 029 - 141350**  
TERPYRIDINE DERIVATIVES BASED ON BOROXINE FOR LUMINESCENT PROBE  
*Dai Lizong <lzdai@xmu.edu.cn>*

**MO 030 - 141127**  
SYNTHESIS OF TELECHELIC POLYISOPRENES BY CONTROLLED DEGRADATION OF NATURAL RUBBER (NR)  
*Grange Jeremie <jgrange@enscbp.fr>*

**MO 031 - 141078**  
SYNTHESIS, CHARACTERIZATION AND APPLICATION OF [3]-RADIALENE-BASED DOPANTS  
*Kiriy Nataliya <kiriy-nataliya@ipfdd.de>*

**MO 032 - 141067**  
SOFTER SEGMENTED CHAINS FORM STRONGER THERMOPLASTIC ELASTOMERS  
*De Almeida Andre <andre.de-almeida@insa-lyon.fr>*

**MO 033 - 140664**  
CYCLIC ENDS IN ETHYLENE COORDINATIVE CHAIN TRANSFER POLYMERIZATION  
*Belaid Islem <islem.belaid@lcpp.cpe.fr>*

**MO 034 - 156202**  
NON-METAL AS METAL: SILICON-NITROGEN BOND WORKS BY COORDINATION-INSERTION MECHANISM IN RING-OPENING POLYMERIZATION  
*Wang Xin <zhenshi1990@njtech.edu.cn>*

**MO 035 - 157611**  
SYNTHESIS OF VITRIMER LATEXES BY WATER-BORNE MINIEMULSION POLYMERIZATION MONTARNAL  
*Damien <damien.montarnal@univ-lyon1.fr>*

**MO 036 - 157812**  
PHOSPHOROUS CONTAINING FLAME RETARDANT POLYMERS  
*Yerlesti Deniz <denizyerlesti@gmail.com>*

## ► POLYMER CHARACTERIZATION METHODS

**MO 037 - 153469**  
STRUCTURAL AND THERMAL STUDY OF SILOXANE-POLYOXYPROPYLENE MATRIXES FOR LONG-TERM DELIVERY OF PENICILLIN  
*Silva Ranielle <raniellesborges@yahoo.com.br>*

**MO 038 - 153380**  
PROTON CONDUCTIVE MEMBRANES BASED ON SULFONATED SYNDIOTACTIC POLYSTYRENE: MORPHOLOGICAL ANALYSIS THROUGH SMALL ANGLE NEUTRON SCATTERING  
*Schiavone Maria <m.schiavone@fz-juelich.de>*

**MO 039 - 152750**  
ACID-CATALYSED RING OPENING POLYMERISATION OF CYCLIC ESTERS TO YIELD LINEAR AND BRANCHED BIODEGRADABLE POLYMERS  
*Blackmore Sarah <sgsblack@liverpool.ac.uk>*

**MO 040 - 151919**  
POLYAZOMETHINES BASED ON PHENOTHIAZINE DYE WITH EFFICIENT GREEN LIGHT EMISSION IN SOLID STATE  
*Bejan Andrei <bejan.andrei@icmpp.ro>*

**MO 041 - 151595**  
STABILITY OF A YELLOW-TO-TRANSMISSIVE POLY(PRODOT-CARBAZOLE) CONJUGATED POLYMER: AN ELECTROCHROMIC AND COLORIMETRIC STUDY  
*Ernest Clément <clement.ernest@u-cergy.fr>*

**MO 042 - 151571**  
THERMAL DECOMPOSITION OF BIO-NANOCOMPOSITE FILMS CONTAINING CNC  
*Marin Luminita <Imarin@icmpp.ro>*

**MO 043 - 150838**  
THE STUDY ON DYNAMICAL AND THERMAL REACTION MECHANISM BETWEEN HNIW(CL-20) AND POLYMER COVERED NANO-ALUMINIUM  
*Rong Yang <18681600530@163.com>*

**MO 044 - 150715**  
POLYETHYLENEIMINE-FUNCTIONALIZED GRAPHENE OXIDE, A NOVEL PLATFORM FOR EFFICIENT SIRNA COMPLEXATION  
*Chau Ngoc Do Quyen <ndq.chau@ibmc-cnrs.unistra.fr>*

**MO 045 - 150540**  
REDOX-RESPONSIVE POLY(ETHYLENE GLYCOL) HYDROGELS UTILIZING EPOXY GROUP  
*Cengiz Nergiz <ncengiz@nku.edu.tr>*

**MO 046 - 150032**  
STRUCTURE-PROPERTY RELATIONSHIPS IN HDPE FOR PRESSURE PIPES  
*Alhomoud Riyadh <humoud@sabic.com>*

**MO 047 - 150016**  
SUSTAINABLE NEW RUBBERS FROM TERPENE  
*Bhowmick Anil <anilkb@rtc.iitkgp.ernet.in>*

**MO 048 - 149380**  
PhD  
*Wu Changzhu <changzhu.wu@tu-dresden.de>*

**MO 049 - 148314**  
SOLUBLE LACTOSE-MODIFIED CHITOSAN (CHITLAC) ADDUCTS. TRANSIENT CROSS-LINKS INDUCED BY BORATE IONS  
*Donati Ivan <idonati@units.it>*

**MO 050 - 136310**  
STUDY OF SHAPE MEMORY STARCH/CLAY NANOCOMPOSITES  
*Coativy Gildas <gildas.coativy@insa-lyon.fr>*

**MO 051 - 147430**  
NEXT GENERATION ULTRASOUND PLATFORMS FOR THERANOSTICS BASED ON POLYMER NETWORKS  
*Paradossi Gaio <paradossi@stc.uniroma2.it>*

**MO 052 - 147407**  
DEVELOPMENT OF DYNAMERIC HYDROGELS BY DYNAMIC CONSTITUTIONAL CHEMISTRY  
*Marin Luminita <Imarin@icmpp.ro>*

**MO 053 - 144798**  
SYNTHESIS OF PHOSPHORUS-BASED FLAME RETARDANT UNSATURATED POLYESTER FOR FRP COMPOSITES  
*Liu Yi-Yu <yyliu@qualipoly.com.tw>*

**MO 054 - 142746**  
BEHAVIOR OF SYNTACTIC FOAMS UNDER PRESSURE: COMPARISON BETWEEN SIMULATION AND EXPERIMENTS  
*Paget Baptiste <baptiste.paget@etu.univ-lyon1.fr>*

**MO 055 - 142150**  
STUDY OF PERMEABILITY TO DIFFERENT GASES FOR ALIGNED SBS MEMBRANES CONTAINING INORGANIC PARTICLES  
*Villar Marcelo <mvillar@plapiqui.edu.ar>*

**MO 056 - 142058**  
FORMULATION OF PVC PLASTISOLS FOR THE MANUFACTURING OF A SOLAR RADIATION PROTECTIVE SPREAD COATING  
*Jaoua Hend <hendjaoua@gmail.com>*

**MO 057 - 141804**  
RAPID, FACILE MICROWAVE-ASSISTED SYNTHESIS OF XANTHAN GUM GRAFTED POLYANILINE FOR CHEMICAL SENSOR  
*Ramontja James <jamesr@uj.ac.za>*

**MO 058 - 141779**  
SYNTHESIS AND PROPERTIES OF BLOCK COPOLYMERS OF CHITOSAN AND POLY-D,L-LACTIDE  
*Apriyatina Kristina <apriyatina\_kv@mail.ru>*

**MO 059 - 141757**  
ROLE OF STRAIN-INDUCED CRYSTALLIZATION ON RUPTURE PROPERTIES OF NATURAL RUBBER AFTER THERMO-OXIDATIVE AGING  
*Grasland François <francois.grasland@insa-lyon.fr>*

**MO 060 - 141721**  
MUTUAL INFLUENCE ON PROPERTIES OF THE CHITOSAN-STABILIZER AND NANOPARTICLES OF SILVER IN THEIR DISPERSIONS AND COMPOSITES  
*Apriyatina Kristina <apriyatina\_kv@mail.ru>*

**MO 061 - 141710**  
OVERCOMING DRAWBACKS OF CALCIUM PHOSPHATE CEMENT AS DRUG DELIVERY SYTEM FOR THE CONTROLLED RELEASE OF PROTEASOME INHIBITOR BORTEZOMIB  
*Appelhans Dietmar <applhans@ipfdd.de>*

**MO 062 - 141672**  
SPHERULITIC MORPHOLOGY OF POLY(3-HYDROXYBUTYRIC ACID-CO-3-HYDROXYVALERIC ACID) CRYSTALLIZED WITH POLY(VINYL METHYL ETHER)  
*Chen Chung-Hao <jknight1734@hotmail.com>*

**MO 063 - 141595**  
STUDY OF PHOTOACTIVABLE THIN FILMS BASED ON THE SUPRAMOLECULAR ASSEMBLY OF PHOTOCROMIC MOLECULAR SWITCHES AND ELASTOMER  
*Barrau Sophie <sophie.barrau@univ-lille1.fr>*

**MO 064 - 141574**  
BARRIER PROPERTIES HIGHLY IMPROVED BY MICROLAYERING POLYESTER FILMS  
*Follain Nadège <nadege.follain@univ-rouen.fr>*

**MO 065 - 141564**  
ELECTROCHEMISTRY ON STRETCHABLE ELECTRODES  
*Lopez Lionel <lionel.lopez1@gmail.com>*

**MO 066 - 141554**  
EFFECT OF CITRATES AND NITRILE BUTADIENE RUBBER ON THE PROPERTIES OF POLY (LACTIC ACID)  
*Abir Ishak <ishak.abir@insa-lyon.fr>*

**MO 067 - 141497**  
SUPRAMOLECULAR LUMINESCENT CHITOSAN GELS  
*Andrei Bejan <bejan.andrei@icmpp.ro>*

**MO 068 - 141440**  
DESIGN OF NANOSTRUCTURED POLYMERS BASED ON EPOXY NETWORKS USING IONIC LIQUIDS  
*Nguyen Thi Khanh Ly <Khanhlynguyen151@gmail.com>*

**MO 069 - 141375**  
NITROGEN-ENRICHED CARBON MATERIALS SYNTHESIZED BY PYROLYSIS OF CROSSLINKED POLYMER NETWORKS AS EFFICIENT METAL-FREE ELECTROCATALYSTS FOR OXYGEN REDUCTION  
*Wei-Ang Luo <luoweiang@xmu.edu.cn>*

**MO 070 - 141356**  
BORONATE POLYMERS COATED MSNs FOR DUAL-RESPONSIVE DRUG DELIVERY  
*Mao Jie <maojie@stu.xmu.edu.cn>*

**MO 071 - 141354**  
FUNCTIONALIZATION OF GRAPHENE OXIDE WITH PHOSPHAPHENANTHRENE AND ISOCYANURATE  
*Xu Yiting <xyting@xmu.edu.cn>*

**MO 072 - 141293**  
SYNTHESIS OF COPOLYMERS BASED ON VINYL MONOMER DERIVATES AND MALEOYL-Î'-ALANINE OBTAINED BY MICROWAVE IRRADIATION  
*Marambio Oscar G. <omarambio@gmail.com>*

**MO 073 - 141269**  
TOWARDS MULTIPLEXED BACTERIA DETECTION BY AUTONOMOUSLY REPORTING ENZYME-RESPONSIVE HYDROGELS  
*Jia Zhiyuan <jia\_zhiyuan@live.cn>*

**MO 074 - 156380**  
SYNTHESIS OF NEW MATERIALS OF TIN(IV) COMPOUNDS and THEIR CATALYTIC ACTIVITY OVER POLYMERIZATION OF É)-CAPROLACTONE  
*Yildiz Begum Canan <begum.canan.yildiz@hotmail.com>*

**MO 075 - 157285**  
INFLUENCE OF SIZE DISTRIBUTION AND SHAPE OF MICRO ALUMINA FILLERS USED IN HIGH VOLTAGE EPOXY INSULATORS  
*Desmars Loriane <loriane.desmars@insa-lyon.fr>*

**MO 076 - 158020**  
EASILY DISPERSABLE CORE-SHELL PARTICULES AS TOUGHENERS OF EPOXY MATRICES  
*André Vivien <vivien.andre@insa-lyon.fr>*

## ► POLYMER CHARACTERIZATION METHODS

**MO 077 - 152957**  
COATING TECHNOLOGY: MORPHOLOGY, MACROSCOPIC BEHAVIOR AND CHARATERIZATION OF HYBRID POLYMERIC NANOPARTICLES  
*Rezende Lara Barbara <barbaralara5@gmail.com>*

**MO 078 - 151693**  
STRUCTURE AND DYNAMICS OF ALGINATE GELS CROSSLINKED BY POLYVALENT IONS (Ca<sup>2+</sup>, Zn<sup>2+</sup>, Ba<sup>2+</sup>, Sr<sup>2+</sup>, Mn<sup>2+</sup>, Al<sup>3+</sup>) AS INVESTIGATED AT ATOMIC-RESOLUTION LEVEL BY SOLID-STATE NMR SPECTROSCOPY  
*Urbanova Martina <urbanova@imc.cas.cz>*

**MO 079 - 150291**  
SYNTHESIS AND CHARACTERIZATION OF SOME STEROIDAL POLYMERS CONTAINING COUMARIN DERIVATIVE  
*Isik Sema <semaisik@outlook.com>, Ilkar Erdagi Sevinc <sevinc.ilkar@kocaeli.edu.tr>*

**MO 080 - 149444**  
NEW PYROLYSIS-GC/MS SYSTEM INCORPORATED WITH ON-LINE MICRO-UV IRRADIATION FOR RAPID EVALUATION OF PHOTO, THERMAL, AND OXIDATIVE DEGRADATION OF POLYMERS: STUDIES ON EPDM AND HIPS  
*Soll Michael <michael.soll@emsca.de>*

**MO 081 - 145499**  
SYNTHESIS, CHARACTERIZATION AND FLOURESCENCE STUDIES OF POLY(ETHYLENE GLYCOL)-DIOSGENIN-CURCUMIN CONJUGATES  
*Ilkar Erdagi Sevinc <sevincilkar@yahoo.com>*

**MO 082 - 141668**  
EPOXY NETWORKS FROM RENEWABLE RESSOURCES FOR CIVIL INFRASTRUCTURE APPLICATIONS  
*Galy Jocelyne <jocelyne.galy@insa-lyon.fr>, Viretto Amandine <amandine.viretto@gmail.com>*

**MO 083 - 140949**  
ANTIMICROBIAL ACTIVITY OF COPPER (II) OXIDE NANOPARTICLES IMMOBILIZED IN CELLULOSE ACETATE NANOSTRUCTURED MEMBRANE  
*Reyes Larry <lqreyes03@gmail.com>, Oren Megan*

**MO 084 - 138937**  
MORPHOLOGY VERSUS THERMAL AND MECHANICAL PROPERTIES OF POLYOLEFIN-BASED BLENDS  
*Duchateau Rob <Rob.Duchateau@SABIC.com>*

**MO 085 - 138062**  
DEVELOPMENT OF AUTOMOBILE BRAKE PAD USING LOCALLY SOURCED MATERIALS  
*Chukwuneke Jeremiah <jl.chukwuneke@unizik.edu.ng>*

**MO 086 - 137235**  
PASSIVE SAMPLER BASED OF HYDROGEL NANOCOMPOSITE: BIAVAILABILITY OF METALS IN NATURAL WATERS  
*Bruno Grassl <bruno.grassl@univ-pau.fr>*

**MO 087 - 136423**  
EXTRUDED BICOMPOSITES BASED ON STARCH AND GRAPHENE OXIDE  
*Dahmouche Karim <kdahm.ufrij@gmail.com>*

**MO 088 - 157626**  
RHEOLOGICAL AND THERMAL CHARACTERISATION OF SHORT CHAIN BRANCHING INFLUENCE OVER MECHANICAL PROPERTY IN LLDPE  
*Boyron Olivier <olivier.boyron@univ-lyon1.fr>*

**MO 089 - 157634**  
TGA/IST/GC/MS AND PYR/GC/MS COUPLING: ADVANCED TECHNIQUE FOR STRUCTURE INTERPRETATION OF ETHYLENE BASED COPOLYMERS  
*Boyron Olivier <olivier.boyron@univ-lyon1.fr>*





**TU 106 - 135989**

INFLUENCE OF ELECTROLYTE IN EPOXY BASED HYBRID ELECTROLYTE FOR STRUCTURAL ENERGY DEVICE  
*Jung Byung Mun <bmjung@kims.re.kr>*

**TU 107 - 135985**

EMULSION POLYMERIZATION IN WATER IN THE PRESENCE OF REACTIVE PEG-BASED HYDROPHILIC CHAINS  
*Griveau Lucie <lucie.griveau@lcpp.cpe.fr>*

**TU 108 - 135965**

POLYPROPYLENE WITH LIMITED FLAMMABILITY CONTAINING HALOGEN-FREE ADDITIVES  
*Jankowski Piotr <piotr.jankowski@ichp.pl>*

**TU 109 - 156345**

INTERNAL LEWIS PAIR ENHANCED H-BOND DONOR: BORONATE-UREA BINDING WITH CARBOXYLIC ACID PROMOTED RING-OPENING POLYMERIZATION  
*Xu Songquan <xusongquan@njtech.edu.cn>*

**TU 110 - 156375**

OPPOSITE-CHARGE REPULSIVE FRUSTRATED CATION AND ANION PAIR BIFUNCTIONAL ORGANOCATALYSIS IN RING-OPENING POLYMERIZATION  
*Xu Jiayi <xujiayi@njtech.edu.cn>*

**Wednesday July 5 / 12:00****► MACROMOLECULAR CHEMISTRY: FROM PRECISE CHEMISTRY TO INDUSTRIAL POLYMERS****WE 001 - 135384**

MULTICOMPONENT REACTIONS FOR THE SYNTHESIS OF NEW AROMATIC AND HETEROCYCLIC MACROMOLECULAR SCAFFOLDS  
*Saxer Samantha <samantha.saxer@hotmail.fr>*

**WE 002 - 135367**

EPOXY-RESINS FROM LIGNIN FRACTIONS: STRUCTURE/ PROPERTIES RELATIONSHIP  
*Gioia Claudio <cgioia@kth.se>*

**WE 003 - 135331**

THERMALLY CURABLE 2-OXAZOLINE BASED COATINGS FROM BIO-BASED BUILDING BLOCKS  
*Roy Manta <manta.roy@maastrichtuniversity.nl>*

**WE 004 - 135328**

DYNAMIC COVALENT POLYMERS AS VISCOSITY MODIFIERS  
*Derouineau Thibault <thibault.derouineau@espci.fr>*

**WE 005 - 135305**

ROOM TEMPERATURE SYNTHESIS OF NON-ISOCYANATE POLYURETHANES (NIPUS) USING HIGHLY REACTIVE N-SUBSTITUTED 8-MEMBERED CYCLIC CARBONATES  
*Yuen Alexander <ayuen08@gmail.com>*

**WE 006 - 135278**

GRAFTING OF BIOACTIVE POLYMERS WITH A WELL-DEFINED ARCHITECTURE ONTO TITANIUM SURFACES USING DOPAMINE AS ANCHOR MOLECULE  
*Chouirfa Hamza <hamza.chouirfa@gmail.com>*

**WE 007 - 135275**

INLINE MONITORING OF THE NHC CATALYZED BULK POLYMERIZATION OF PROPYLENE OXIDE  
*Meisel Nathalie <nathalie.meisel@chemie.uni-hamburg.de>*

**WE 008 - 135257**

A NOVEL ROUTE TO HIGHLY VERSATILE 3-MIKTOARM STAR COPOLYMERS BASED ON A TOOLBOX OF SINGLE BLOCKS  
*Lauterbach Felix <felix.lauterbach@chemie.uni-hamburg.de>*

**WE 009 - 135252**

SYNTHESIS OF HYPERBRANCHED GLYCO-POLYDENDRONS VIA METHANOLIC ATRP OF N-BUTYL METHACRYLATE  
*Dwyer Andrew <a.b.dwyer@liverpool.ac.uk>*

**WE 010 - 135251**

THIOL FUNCTIONALIZED ALIPHATIC POLY(ESTERS): FROM MONOMER DESIGN TO BIOMEDICAL APPLICATIONS  
*Fuocco Tiziana <tiziana@kth.se>*

**WE 011 - 135214**

SYNTHESIS, SELF-ASSEMBLY AND STIMULI-RESPONSIVENESS: AMPHIPHILIC HIGH MOLECULAR WEIGHT BLOCK COPOLYMERS IN AQUEOUS SOLUTION  
*Eggers Steffen <steffen.eggers@chemie.uni-hamburg.de>*

**WE 012 - 135128**

TO MODIFY A POLYMER'S SURFACE, OR TO MODIFY A SURFACE WITH POLYMERS: TAD'S THE WAY  
*De Bruycker Kevin <Kevin.DeBruycker@ugent.be>*

**WE 013 - 135103**

OPTIMIZATION OF POLYMER FUNCTIONALIZATION BY FACTORIAL FRACTIONAL DESIGN “EXAMPLE OF POLYETHYLENE GLYCOL HYDROSILYLATION  
*Bouvet-Marchand Agathe <agathe.bouvet-marchand@specificpolymers.fr>*

**WE 014 - 135092**

REINFORCEMENT OF IONIC MODIFIED SELF-HEALABLE ELASTOMERS  
*Sallat Aladdin <sallat@ipfdd.de>*

**WE 015 - 135081**

RING-OPENING POLYMERIZATION OF LACTIDE USING CARBOXYLIC ACID SALT AS A CATALYST  
*Saito Tatsuya <tsaitoh@poly-bm.eng.hokudai.ac.jp>*

**WE 016 - 134897**

CROSSLINKED NETWORK OF TAILOR-MADE POLY (FURFURYL METHACRYLATE) VIA ULTRAFAST “CLICK” REACTION  
*Mondal Prantik <mprantik3@gmail.com>*

**WE 017 - 134882**

ENCAPSULATION AND LIGHT-TRIGGERED RELEASE OF ESSENTIAL OILS FROM POLYMER NANOCAPSULES  
*Marturano Valentina <valentina.marturano@unina.it>*

**WE 018 - 134879**

LIGNOCELLULOSE-RICH BIOMASS: RENEWABLE SOURCE FOR SUSTAINABLE LIGNIN-BASED ANTIOXIDANTS TO BE USED IN PACKAGING AND BIOMEDICINE  
*Alzagameem Abla <abla.alzagameem@h-brs.de>*

**WE 019 - 134791**

NEW BIO-BASED MATERIALS OBTAINED BY THIOL-ENE/ THIOL-EPOXY DUAL CURING CLICK PROCEDURES FROM EUGENOL DERIVATES  
*Serra Angels <angels.serra@urv.cat>*

**WE 020 - 134750**

SINGLE-CHAIN FOLDING AND SELF-ASSEMBLY OF AMPHIPHILIC RANDOM COPOLYMERS IN WATER  
*Guazzelli Elisa <elisa.guazzelli@for.unipi.it>*

**WE 021 - 134698**

IONIC LIQUID CROSSLINKED POLYURETHANE ELASTOMER WITH SUPER SHAPE-MEMORABLE PROPERTIES  
*Behera Prasanta Kumar <beheraprasanta68@gmail.com>*

**WE 022 - 134570**

MUCOSAL TRIGGERED EMULSIONS FOR DRUG DELIVERY TO THE CORNEA  
*Edwards Stephanie <S.E.Edwards@liverpool.ac.uk>*

**WE 023 - 134514**

PATCHY VS. STATISTICALLY MULTI-FUNCTIONALISED COMPLEX POLYMER ARCHITECTURES  
*Hern Faye <f.hern@liv.ac.uk>*

**WE 024 - 134502**

RENEWABLE POLYAMIDES CONTAINING RIGID SPIROACETAL MOIETIES  
*Lingier Sophie <sophie.lingier@ugent.be>*

**WE 025 - 134480**

LIGNIN INSPIRED PHENOLIC POLYETHERS SYNTHESIZED VIA ADMET  
*Lingier Sophie <sophie.lingier@ugent.be>*

**WE 026 - 134479**

RIGID POLYESTERS, POLYCARBONATES AND POLYURETHANES FROM RENEWABLE KETAL MONOMERS  
*Lingier Sophie <sophie.lingier@ugent.be>*

**WE 027 - 134474**

AUTOMATED SYNTHESIS OF SEQUENCE-DEFINED, MULTIFUNCTIONAL PRECISION POLYMERS  
*Martens Steven <stevenp.martens@ugent.be>*

**WE 028 - 134467**

EFFICIENT MACROMOLECULAR COUPLING USING TRIAZOLINEDIONES : PERMANENT OR DYNAMIC LINKING  
*Vandewalle Stef <Stef.Vandewalle@UGent.be>*

**WE 029 - 134414**

SILYL GLYOXYLATES AS A NEW CLASS OF BLUE LIGHT PHOTOINITIATORS  
*Bouzzrati-Zerelli Mariem <mariem.bouzzrati-zerelli@uha.fr>*

**WE 030 - 134411**

BAABE (N,N'-BISACRYLOYL-N,N'-BISALLYL-1,4-BUT-2-ENDIAMIN) AS A DUAL CO-INITIATOR/MONOMER: TOWARDS AMINE-FREE PHOTOINITIATING SYSTEMS IN DENTAL MATERIALS  
*Lalevee Jacques <jacques.lalevee@uha.fr>*

**WE 031 - 134324**

SUSPENSION POLYMERIZATION OF THERMALLY EXPANDABLE MICROSPHERES  
*Kreuzer Andreas Michael <Andreas.Kreuzer@jku.at>*

**WE 032 - 134320**

STEPWISE UNFOLDING OF SINGLE-CHAIN NANOPARTICLES BY CHEMICALLY TRIGGERED GATES  
*Fischer Tobias <tobias.fischer@kit.edu>*

**WE 033 - 134241**

SYNTHESIS AND CHARACTERIZATION OF HYBRID TRIBLOCK COPOLYMERS FROM HYDROPHILIC-THERMORESPONSIVE-HYDROPHOBIC BLOCK COPOLYMERS FORMING MICELLES AS DRUG DELIVERY SYSTEM  
*Bobbi Elena <elenabobbi@rcsi.ie>*

**WE 034 - 134005**

POLY(ETHYLENE-2,5-FURANOATE) (PEF) A PROMISING POLYESTER FOR FOOD PACKAGING APPLICATIONS: FROM RESEARCH SYNTHESIS TO REALITY  
*Bikiaris Dimitrios <dbic@chem.auth.gr>*

**WE 035 - 133994**

PHOSPHINATED BASED POLYAMIDE MEMBRANES FOR GAS SEPARATION AND MOLECULAR DYNAMICS SIMULATIONS  
*Bisoi Soumendu <soumendubisoi@gmail.com>*

**WE 036 - 157863**

SYNTHESIS OF POLYVINYL BUTYRAL (PVB) FILMS AND THEIR APPLICATIONS IN LAMINATED SAFETY GLASS AT KURARAY  
*Ebeling Bastian <bastian.ebeling@kuraray.com>*

**► MODELLING AND SIMULATION****WE 037 - 135771**

KINETICS OF RING OPENING LIVING COPOLYMERIZATION WITH RESHUFFLING OF COPOLYMER UNITS. MONTE CARLO SIMULATIONS, A NEW, EFFECTIVE ALGORITHM  
*Sosnowski Stanislaw <stasosno@cbmm.lodz.pl>*

**WE 038 - 134431**

INVESTIGATING THE EFFECT OF MOLECULAR DYNAMICS SIMULATION SETTINGS ON THE PREDICTION OF THE GLASS TRANSITION  
*Godey François <francois.godey@usherbrooke.ca>*

**WE 039 - 134430**

AN ATOMISTIC POINT OF VIEW OF GLASS TRANSITION  
*Godey François <francois.godey@usherbrooke.ca>*

**WE 040 - 134219**

MOLECULAR TOPOLOGY OF SEMICRYSTALLINE POLYMERS: SIMULATION OF MONO AND POLYDISPERSE SYSTEMS  
*Zhai Zengqiang <zengqiang.zhai@insa-lyon.fr>*

**WE 041 - 134101**

MODELING OF GAS DIFFUSION IN NANOCOMPOSITES FOR BARRIER APPLICATIONS  
*Zid Sarra <sarra.zid@univ-lyon1.fr>*

**WE 042 - 132439**

MOLECULAR DYNAMICS SIMULATION OF INTERFACIAL INTERACTIONS OF PENTAERYTHRITOL ACROLEIN RESIN ON SiO<sub>2</sub> CRYSTAL SURFACES  
*Liu Huihui <huihui9088@139.com>*

**WE 043 - 130532**

EFFECT OF SLIP CONDITIONS ON THE PULSATING FLOW OF A STRUCTURED FLUID: HUMAN BLOOD WITH DIFFERENT LEVELS OF CHOLESTEROL  
*Herrera Valencia Edtson Emilio <edtson\_ed@hotmail.com>*

**WE 044 - 129995**

ENHANCED THERMAL CONDUCTIVITY OF ORIENTATIONALLY ORDERED POLYMERS AND NANOCOMPOSITES STUDIED BY MOLECULAR DYNAMICS SIMULATION  
*Huang Tien Jung <tjhuang@itri.org.tw>*

**WE 045 - 129993**

ENHANCED MECHANICAL PROPERTIES OF LCP/NYLON6 BLEND STUDIED BY MULTISCALE SIMULATION  
*Huang Tien Jung <tjhuang@itri.org.tw>*

**WE 046 - 157821**

UNRAVELLING CRITICAL THERMODYNAMIC POLYMER PROPERTIES WITH FAST MOLECULAR DYNAMICS SIMULATIONS  
*Krauter Caroline <caroline.krauter@schrodinger.com>*

**► PHYSICS OF POLYMERS AND POLYMER MATERIALS****WE 047 - 136308**

HYDROGEN BONDED SILICONE RUBBER: CORRELATION BETWEEN CHEMICAL STRUCTURE AND MECHANICAL PROPERTIES  
*Simonin Léo <leo.simonin@etu.upmc.fr>*

**WE 048 - 136277**

ELECTROACTIVE POLYMER NANOCOMPOSITES BASED ON THERMOSET AND THERMOPLASTIC OLIGOMERS AND LITHIUM PERCHLORATE SALT  
*Matkovska Liubov <lovenk@ukr.net>*

**WE 049 - 136260**

INFLUENCE OF COMPOSITION ON THE PHYSICAL PROPERTIES OF PNIPAM-LAPONITE® BASED HYDROGELS  
*Essa Abdulalam <Abdulalam.S.Essa@student.shu.ac.uk>*

**WE 050 - 136251**

UNEXPECTED LIKE-CHARGE SELF-ASSEMBLY OF A BIGUANIDE-BASED ANTIMICROBIAL POLYELECTROLYTE  
*Carbone Paola <paola.carbone@manchester.ac.uk>*

**WE 051 - 136244**

UNDERWATER ADHESION BETWEEN MODEL GELS AND FUNCTIONALIZED SURFACES  
*Cedano Serrano Francisco J. <francisco.cedano@espci.fr>*

**WE 052 - 136240**

THERMAL BEHAVIOR OF FUNCTIONAL RANDOM COPOLYMER FROM BULK TO ULTRA-THIN BRUSHES: EFFECTS OF THE COMPOSITION AND OF THE MOLECULAR WEIGHT.  
*Antonioli Diego <diego.antonioli@uniupo.it>*

**WE 053 - 136238**

EFFECT OF THE PREPARATION PROCEDURE ON GELATION KINETICS, MECHANICAL PROPERTIES AND DYE ADSORPTION BEHAVIOR OF CHITOSAN HYDROGELS  
*Salzano De Luna Martina <martina.salzanodeluna@unina.it>*

**WE 054 - 136216**

DIELECTRIC PROPERTIES OF PANI/RGO NANOCOMPOSITES  
*Brun Jean-François <jean-francois.brun@univ-lille1.fr>*

**WE 055 - 136185**

HYDRODYNAMIC CHARACTERISTICS OF HYPERBRANCHED PYRIDYLPHENYLENE POLYMERS AND IRONE OXIDE NANOCOMPOSITES ON THEIR BASIS  
*Gubarev Alexander <as\_gubarev@mail.ru>*

**WE 056 - 136089**

EFFECT OF SOLVENT CASTING ON SELF-ASSEMBLY KINETIC OF POLYDIMETHYLSILOXANE-CONTAINING BLOCK COPOLYMER  
*Giammaria Tommaso Jacopo <tommaso.giammaria@mdm.imm.cnr.it>*

**WE 057 - 136073**

EXTRACTION AND IDENTIFICATION OF NON-HYDROSOLUBLE VEGETAL POLYSACCHARIDES  
*Kouadri Imane <kouadri-2013@hotmail.fr>, Trompotto Stéphane, Satha Hamid, David Laurent*

**WE 058 - 136064**

ELECTROSTATIC MICELLIZATION OF DOUBLE HYDROPHILIC BLOCK COPOLYMERS  
*Phimphachanh Anthony <anthony.phimphachanh@umontpellier.fr>*



**TH 014 - 125695**

NEW BIOSOURCED NON ISOCYANATE POLYURETHANES (NIPUS) THROUGH A TRANSURETHANIZATION APPROACH  
*Kebir Nasreddine <nasreddine.kebir@insa-rouen.fr>*

**TH 015 - 123660**

FLUOROPHORES IN AN EGG SHELL: WATER-SOLUBLE POLYMERS FOR INTRAVITAL TWO-PHOTON MICROSCOPY  
*Monnereau Cyrille <cyrille.monnerneau@ens-lyon.fr>*

**TH 016 - 153406**

DESIGNING CELL-MATERIAL INTERACTIONS BY CONTROLLING THE CHEMISTRY OF THE SURFACE OF POROUS DEGRADABLE SCAFFOLDS  
*Kivijarvi Tove <toveki@kth.se>*

**TH 017 - 135806**

STUDY OF DELAYED-RELEASE OF CARBOXYFLUORESCIN FROM LIPOSOME-LOADED CHITOSAN PHYSICAL HYDROGELS  
*Peers Soline <soline.peers@gmail.com>*

**TH 018 - 135741**

SYNTHESIS OF SULFONATED CO-POLYIMIDES BEARING BULKY GROUPS FOR ENHANCING THE PROTON EXCHANGE MEMBRANE PERFORMANCE  
*Ganesh Kumar Anaparthi <anaparthi@matsc.iitkgp.ernet.in>*

**TH 019 - 135382**

DESIGN OF POLYSACCHARIDE-BASED NANOGELS FOR THE CONTROLLED RELEASE OF INSULIN  
*Poirot Robin <robin.poirot@cermav.cnrs.fr>*

**TH 020 - 135276**

CONONSOLVENCY IN THE 'DRUNKEN' STATE: THE THERMORESPONSIVENESS OF A NEW ACRYLAMIDE COPOLYMER IN WATER-ALCOHOL MIXTURES  
*Lucht Niklas <niklas.lucht@chemie.uni-hamburg.de>*

**TH 021 - 135213**

DYNAMIC HYALURONIC ACID HYDROGELS INCLUDING BORONATE ESTER BONDS  
*Figueiredo Tamiris <tamiris.figueiredo@cermav.cnrs.fr>*

**TH 022 - 134315**

SYNTHESIS OF FLUORESCENT MONOMERS AND THEIR APPLICATIONS ON HYDROGEL MATERIAL.  
*Lee Wen-Fu <wflee@ttu.edu.tw>*

**TH 023 - 134206**

SYNTHESIS, STRUCTURE AND PROPERTIES OF INJECTABLE HYDROGELS  
*Vahdati Mehdi <mehdi.vahdati@espci.fr>*

**TH 024 - 152689**

THERMAL ANALYSIS OF BRAZIL NUTSHELLS: IN NATURA AND BLEACHED  
*Turim Koschevic Marivane <marivane.koschevic@gmail.com>*

**TH 025 - 141878**

REVERSIBLE ADDITION-FRAGMENTATION CHAIN-TRANSFER (RAFT) POLYMERIZATION OF ETHYLENE  
*Wolpers Arne <arne.wolpers@univ-lyon1.fr>*

**TH 026 - 135607**

SYNTHESIS AND CHARACTERIZATION OF BIOSOURCED POLYMER FROM VEGETABLE OILS BY CHAIN GROWTH POLYMERIZATION  
*Lomege Juliette <juliette.lomege@enscm.fr>*

**TH 027 - 135268**

SELENOLACTONE AS A SIMPLE VERSATILE BUILDING BLOCK FOR DYNAMIC DISELENIDE-BASED POLYMERS  
*Imbernon Lucie <lucie.imbernon@ugent.be>*

**TH 028 - 153465**

GREENER, BETTER, FASTER: ACETALISED GALACTARATE POLYESTERS. COMPARATIVE STUDY ON THE KINETICS, THERMO-MECHANICAL AND DIELECTRIC PROPERTIES  
*Gavrila Ionela <i.gavrila@rug.nl>*

**TH 029 - 151637**

THE EFFECT OF INTERFACIAL CHEMISTRY ON MECHANICAL PROPERTIES OF EPOXY COMPOSITES CONTAINING POLY (ETHER ETHER KETONE) GRAFTED MULTIWALL CARBON NANOTUBES  
*Katti Prajakta <prajaktakatti@gmail.com>*

**TH 030 - 136245**

Cr(VI) SEPARATION USING BLEND POLYMER INCLUSION MEMBRANES CONTAINING IONIC LIQUID  
*Sellami Ferhat <ferhat-06@live.fr>*

**TH 031 - 157740**

MICROSTRUCTURED POLYMER SURFACES WITH SIMULTANEOUS ANTIMICROBIAL AND PROTEIN-REPELLENT ACTIVITY  
*Widyaya Vania Tanda <vania.widyaya@imtek.uni-freiburg.de>*

**► PHYSICS OF POLYMERS AND POLYMER MATERIALS****TH 032 - 134906**

MORPHOLOGY, DYNAMIC MECHANICAL AND THERMAL STUDIES ON EPOXY/GLASS COMPOSITES WITH GRAPHENE INTERPHASE  
*Mahmood Haroon <haroon.mahmood@unitn.it>, Pegoretti Alessandro <alessandro.pegoretti@unitn.it>*

**TH 033 - 134895**

AMPHIPHILIC COPOLYMER ARCHITECTURES AS SILICONE OIL ADDITIVES FOR CONTROLLED OPHTHALMIC DRUG DELIVERY  
*Caulbeck Helen <helen.caulbeck@liverpool.ac.uk>*

**TH 034 - 134886**

STRUCTURE AND PROPERTIES OF HYDROGELS HAVING PERMANENT AND TRANSIENT CROSSLINKS  
*Zhao Jingwen <jingwen.zhao@espci.fr>*

**TH 035 - 134756**

FORMATION OF NANOCOMPOSITES WITHOUT HANDLING OF NANOPARTICLES  
*Mingotaud Anne-Françoise <afmingo@chimie.ups-tlse.fr>*

**TH 036 - 134636**

POLY(1,2,3-TRIAZOLIUM) BASED ANION EXCHANGE MEMBRANES  
*Flachard Dimitri <dimflachard@hotmail.fr>*

**TH 037 - 134571**

VISCOELASTIC PROPERTIES OF THERMOSTABLE CYANATE ESTER RESINS FILLED WITH PYRIDINIUM IONIC LIQUID AND NANOPOROUS FILMS DERIVED THEREFROM  
*Grande Daniel <grande@icmpe.cnrs.fr>*

**TH 038 - 134539**

HIGH TEMPERATURE COPOLYAMIDES BY EFFICIENT TRANSAMIDATION OF CRYSTALLINE-CRYSTALLINE POLYAMIDE BLENDS  
*Cretenoud Julien <julien.cretenoud@epfl.ch>*

**TH 039 - 134337**

INFLUENCE OF THERMAL AND DEFORMATION HISTORY ON THE VISCOELASTIC PROPERTIES OF WELL-DEFINED ENTANGLED SEGMENTED COPOLYMERS  
*Baeza Guilhem <guilhem.baeza@insa-lyon.fr>*

**TH 040 - 134217**

TOWARDS THE DECIPHERING OF THE PARAMETERS INFLUENCING THE RELEASE OF PHEOPHORBIDE A FROM COPOLYMER NANOCARRIERS. THE USE OF SIMPLE MEMBRANE MODELS.  
*Demazeau Maxime <demazeaumaxime@gmail.com>*

**TH 041 - 134083**

ZIEGLER/NATTA AND SELF-SUPPORTED SINGLE-SITE BASED ETHYLENE-PROPYLENE RANDOM COPOLYMERS: A STRUCTURE-PROPERTY RELATION STUDY.  
*Boragno Luca <luca.boragno@borealisgroup.com>*

**TH 042 - 134012**

SUPRAMOLECULAR POLYETHYLENES: SYNTHESIS, CHARACTERIZATION AND PROPERTIES  
*Lacombe Jérémie <jeremie.lacombe@espci.fr>*

**TH 043 - 133901**

INFLUENCE OF ACCELERATED AGEING ON THE PROPERTIES OF TREATED OLIVE HUSK FLOUR REINFORCED POLYLACTIC ACID BIOCOMPOSITES  
*Boukerrou Amar <aboukerrou@yahoo.fr>*

**TH 044 - 133224**

MATERIALS FOR WAVE ENERGY HARVESTING  
*Iglesias Sophie <sophie.iglesias@insa-lyon.fr>*

**TH 045 - 133149**

EFFECT OF SIDE CHAIN LENGTH ON STRUCTURE AND MECHANICAL PROPERTIES OF STARCH TRIESTERS  
*David Adelina <adelina.david@ifmas.eu>*

**TH 046 - 133148**

DEVELOPMENT OF CAPACITIVE BIOSENSOR BASED ON AMINOPHENYLBORONIC ACID AND ITS DIOL SPECIFICITY FOR HIGHLY SENSITIVE SACCHARIDE DETECTION  
*Ertrk Gizem <gizemertrk@yahoo.com>*

**TH 047 - 133099**

SURFACE MODIFICATION OF ZNO-LOADED PLURONIC NANO-MICELLES BY BIOFUNCTIONAL CHITOSAN FOR TUMOR-TARGETING DRUG DELIVERY SYSTEM  
*Lin Hong-Ru <hrlin@stust.edu.tw>*

**TH 048 - 133025**

GRAPHENE-DERIVATIVE CONTAINING RESPONSIVE HYDROGELS: EFFECT OF CONCENTRATION AND SURFACE CHEMISTRY  
*Berke Barbara <berke@iill.fr>*

**TH 049 - 132986**

MANIPULATING MORPHOLOGIES AND THE SURFACE CHEMISTRY OF POLYMERIC NANOSTRUCTURES WITH NUCLEOBASE-CONTAINING SYNTHETIC POLYMERS AS CORES IN AQUEOUS SOLUTION  
*Hua Zan <Z.Hua@warwick.ac.uk>*

**TH 050 - 132567**

INFLUENCE OF THE MOLECULAR WEIGHT AND CURING COEFFICIENT ON THE PROPERTIES OF HTPB  
*Tang Ying <tangying620@163.com>*

**TH 052 - 132460**

ROOM TEMPERATURE TUNABLE ORIENTATION OF MAGNETIC NANORODS BY THE USE OF A TRIDIMENSIONAL LIQUID CRYSTALLINE MATRIX  
*Mingotaud Anne-Françoise <afmingo@chimie.ups-tlse.fr>*

**TH 053 - 131903**

MONITORING THE NETWORK TOPOLOGY OF AN ELASTOMER-BASED MICROCOMPOSITE DURING AGEING: AN INSIGHT FROM SOLID-STATE NMR  
*Pubellier Pierre <pubellier@icmpe.cnrs.fr>*

**TH 054 - 131853**

ASSESSMENT OF SPACE AND TIME PROCESSES IN NANOVECTORIZED DRUGS  
*Mingotaud Anne-Françoise <afmingo@chimie.ups-tlse.fr>*

**TH 055 - 128138**

THE CHARACTERISTICS OF POLY PROPYLENE OXIDE/ MONTMORILLONITE NANOCOMPOSITES  
*Mrah Lahouari <lmrah@yahoo.fr>*

**TH 056 - 128082**

POLY a-METHYLSTYRENE NANOCOMPOSITES: PREPARATION, CHARACTERIZATION AND INVESTIGATION OF MECHANICAL PROPERTIES  
*Mrah Lahouari <lmrah@yahoo.fr>*

**TH 057 - 127456**

MIST ON HYDROGEL THIN FILMS : HOW SWELLING KINETICS AND SURFACE INSTABILITIES AFFECT MIST PATTERN  
*Delavoipiere Jessica <jessica.delavoipiere@espci.fr>*

**TH 058 - 136439**

WHEN BLOCK COPOLYMER SELF-ASSEMBLY IN HIERARCHICALLY ORDERED HONEYCOMB FILMS DEPICTS THE BREATH FIGURE PROCESS  
*Rubatat Laurent <laurent.rubatat@univ-pau.fr>*

**TH 059 - 123716**

BIOENGINEERING OF GELS FOR HUMAN HEALTHCARE  
*Gupta Bhuvanesht <bgupta@textile.iitd.ernet.in>*

**TH 060 - 121510**

THE EFFECT OF SURFACE MODIFICATION HALLOYSITE NANOTUBE ON MECHANICAL, THERMAL AND ON VITRO DEGRADATION OF POLYLACTIC ACID  
*Chen Yuanyuan <yuchen@research.ait.ie>*

**TH 061 - 119856**

SELF-ASSEMBLED AND SHEAR THINNING HYDROGELS UTILIZING POLYMER-NANOGELS INTERACTIONS  
*Shitrit Yulia <yuliap@campus.technion.ac.il>*

**TH 062 - 153121**

DYNAMIC MECHANICAL ANALYSIS OF POLY(VINYL-ALCOHOL)/CHITOSAN BLENDS WITH ZNO NANOPARTICLES  
*Pugar Daniel <daniel.pugar@fsb.hr>*

**TH 063 - 135470**

TAILOR-MADE FUNCTIONALIZED POLYMERS AS A BASIS FOR THE FORMATION OF SUPRAMOLECULAR STRUCTURES  
*Wittenberg Elisabeth <wittenberg@chemie.uni-hamburg.de>*

**TH 064 - 135442**

POLYETHYLENE TEREPHTHALATE DEGRADATION UNDER REACTOR NEUTRON IRRADIATION  
*Chikaoui Khadidja <chikaoui.khadidja@gmail.com>, Izerrouken Mahmoud*

**TH 065 - 135309**

BIOCOMPATIBLE POLY(E-CAPROLACTONE)/HALLOYSITE NANOTUBE NANOCOMPOSITES: EFFECT OF NANOFILLER FUNCTIONALIZATION ON THERMAL, MECHANICAL AND BIOLOGICAL PROPERTIES  
*Terzopoulou Zoi <terzoe@gmail.com>*

**TH 066 - 133003**

NANOMECHANICAL CHARACTERIZATIONS BY AFM TO STUDY POLYMER BLENDS COMPATIBILIZED WITH IONIC LIQUIDS  
*Megevand Benjamin <benjamin.megevand@insa-lyon.fr>*

**TH 067 - 134104**

MODELLING NON-LINEAR STRESS RELAXATION OF POLY(ETHYLENE TEREPHTHALATE)  
*Andre Jose <jandre@ipg.pt>*

**TH 068 - 157833**

PERIODATE OXIDATION AND CHEMICAL MODIFICATIONS OF CELLULOSIC BACKBONE  
*Leguy Julien <julien.leguy@cermav.cnrs.fr>*

**TH 069 - 157841**

INFLUENCE OF ALKALI TREATED COIR FIBER ON MECHANICAL AND THERMAL PROPERTIES OF WPC  
*Galvao Luciana <lugalvao@ipt.br>*

**TH 070 - 158808**

IONIC LIQUIDS: A NEW ROUTE TO DEVELOP POLYMER BLENDS WITH EXCELLENT MECHANICAL PERFORMANCES  
*Livi Sébastien <sebastien.livi@insa-lyon.fr>*

**TH 071 - 158807**

DEVELOPMENT OF ELECTROSPUN FIBERS FOR BIOTECHNOLOGY APPLICATIONS  
*Livi Sébastien <sebastien.livi@insa-lyon.fr>, Chaves Viera Lins Luanda <luandaqmc@gmail.com>*

**► PROCESSES AND POLYMERS: POLYMERIZATION PROCESSES AND POLYMER PROCESSING****TH 072 - 134878**

INFLUENCE OF BIOMASS SOURCE ON LIGNIN STRUCTURE STUDIED ON MISCANTHUS AND BEECH WOOD BASED ORGANOSOLV LIGNINS  
*Bergs Michel <michel.bergs@h-brs.de>*

**TH 073 - 134771**

NEW WAYS FOR THE REMOVAL OF NANO-AND MIRCROPLASTICS FROM THE ECOSYSTEM  
*Schuhen Katrin <schuhen@uni-landau.de>, Herbort Adrian <herbort@uni-landau.de>*

**TH 074 134662**

SELF-ASSEMBLY OF TRIBLOCK COPOLYMERS CONFINED VIA MULTILAYER COEXTRUSION  
*Montana Juan <juan-sebastian.montana@ensam.eu>*

**TH 075 - 134634**

REMOVAL OF HEAVY METAL IONS FROM POLLUTED WATER USING POLYMER-MODIFIED MEMBRANES  
*Mokhter Akmal <akmali90@gmail.com>*

**TH 076 - 134510**

CARBOXYMETHYL CELLULOSE / POTASSIUM NITRATE COATED NONWOVEN STRUCTURES WITH CONTROLLED WATER AND FERTILIZER RELEASE PROPERTIES  
*Ozen Ilhan <iozen@erciyes.edu.tr>*

**TH 077 - 134482**

PREPARATION OF NOVEL NON-ISOCYANATE POLYURETHANE NANOPARTICLES BY NANOPRECIPITATION METHOD  
*Querette Thomas <thomas.querette@insa-lyon.fr>*

**TH 078 - 134416**

DESIGN OF NOVEL PHOTOBASE GENERATORS UPON VIOLET LEDS AND USE IN PHOTOPOLYMERIZATION REACTIONS

Bouzrati-Zerelli Mariem <mariem.bouzrati-zerelli@uha.fr>

**TH 079 - 134361**

DEVELOPMENT OF STRUCTURAL COMPOSITES WITH THERMAL ENERGY STORAGE CAPABILITY

Fredi Giulia <giulia.fredi@unitn.it>

**TH 080 - 134192**

INFLUENCE OF CONSTITUENT POLYMERS AND THEIR INTERACTIONS ON PROPERTIES OF BICOMPONENT FIBERS CONTAINING POLY (LACTIC ACID)

Prahsarn Chureerat <chureerp@mtec.or.th>

**TH 081 - 134165**

RAFT POLYMERIZATION OF STYRENE MEDIATED BY NAPHTHYL ESTER FUNCTIONALIZED TRITHIOCARBONATE RAFT AGENTS

Mdletshe Thembinkosi <mdletts@unisa.ac.za>

**TH 082 - 133592**

ENABLING BIO-BASED POLYMERS: INDUSTRIALLY FEASIBLE STRUCTURE VARIATIONS OF POLYLACTIDE

Laschewsky Andre <andre.laschewsky@iap.fraunhofer.de>

**TH 083 - 133440**

NOVEL POLY(EPSILON-CAPROLACTONE)-BASED SUPRAMOLECULAR NANOCOMPOSITES WITH MULTISTIMULI-RESPONSIVE PROPERTIES

Pilate Florence

**TH 084 - 133247**

RAFT POLYMERIZATION OF STYRENE MEDIATED BY BENZHYDRYL ESTER FUNCTIONALIZED RAFT AGENTS

Motsoeneng Teboho <motsoenengts@gmail.com>

**TH 085 - 131982**

MODIFICATION OF AN EPOXY RESIN FOR GREATER FLEXIBILITY AT HIGH TEMPERATURE

Merian Tiphaine <tiphaine.merian@enit.fr>

**TH 086 - 128285**

EFFECT OF NANOFIL15 ON MORPHOLOGY, BIODEGRADABILITY AND THERMO-PROPERTIES OF LINEAR LOW DENSITY POLYETHYLENE AND STARCH BLEND

Nguyen Dang Mao <ndmao@hcmus.edu.vn>

**TH 087 - 127004**

CHITOSAN HYDROGEL BASED NANO-COMPOSITE SYSTEM WITH SELF-HEALING ABILITY: FILMS AND PATCHES

Konwar Achyut <achyutkonwar88@gmail.com>

**TH 088 - 122701**

NEW CATALYST FOR SET-LRP REACTION AND BLOCK COPOLYMERS SYNTHESIS

Rusen Edina <edina\_rusen@yahoo.com>, Alexandra Mocanu <mocanu\_alexandra85@yahoo.com>

**TH 089 - 153415**

PROCESSING OF DEGRADABLE POLYMERS WITH 3D PRINTING TECHNIQUES FOR TISSUE ENGINEERING

Ahlinder Astrid <astridah@kth.se>

**TH 090 - 146200**

A FACILE SYNTHETIC METHOD FOR THE PREPARATION OF COLLAGEN-COATED OXIDIZED REGENERATE CELLULOSE COMPOSITES

Wei Xinjing <weiwei\_star@163.com>, He Jinmei <hejinmei@hit.edu.cn>

**TH 091 - 144723**

COMPOSITE GAUZE OF N, O-CARBOXYMETHYL CHITOSAN/OXIDIZED REGENERATED CELLULOSE FOR POSTOPERATIVE ADHESION PREVENTION

Cheng Feng <chengfeng9004@126.com>, He Jinmei

**TH 092 - 140941**

POLY(L-LACTIC ACID-CO-RICINOLEIC ACID) URETHANE: SYNTHESIS, CHARACTERIZATION AND BIOCOMPATIBILIT

Reyes Larry <lqreyes03@gmail.com>, Sumaray Catherine, Casalme Loida, Sumera Florentino

**TH 093 - 143441**

SELF-ASSEMBLY OF DNA-BASED MICROCAPSULES USED FOR CARRYING VARIOUS MOLECULES

Wu Guangyu <gywuchem@163.com>

**TH 094 - 141370**

PROGRAMMABLE MODULATION OF MEMBRANE PERMEABILITY OF PROTEINOSOME UPON MULTIPLE STIMULI RESPONSES

Zhou Pei <zsp0608@126.com>

**TH 095 - 156425**

IMPROVEMENT OF FUNCTIONAL PROPERTIES OF EXTRUDED MILK PROTEINS FILMS

Fouilloux Alessandro <alessandro.fouilloux@univ-st-etienne.fr>

**TH 096 - 156454**

SUSTAINABLE POLYAMIDES VIA ANIONIC POLYMERIZATION OF A CAMPHOR-DERIVED LACTAM

Wang Haixin <wanghaixin1991@njtech.edu.cn>

**TH 097 - 157846**

EFFECT OF SACCHARIN ON THE THERMAL AND MECHANICAL PROPERTIES OF PHB/GLYCEROL

Galvao Luciana <lugalvao@ipt.br>

**TH 098 - 158299**

PROGRAMMABLE MODULATION OF PROTEINOSOME MEMBRANE PERMEABILITY

Zhou Pei <zsp0608@126.com>

Poster awards will be attributed during the four poster sessions of the European Polymer Congress EPF 2017. These awards are sponsored by the following scientific journals according to the scientific contents, i.e. originality and quality, as well as the way the results and conclusions are presented.

ACS **Macro Letters**

**Bio** MACROMOLECULES

Macromolecules 

Soft Matter 

Polymer Chemistry 

[https://epf-2017-lyon.sciencesconf.org/data/pages/Book\\_of\\_abstracts\\_EPF2017.pdf](https://epf-2017-lyon.sciencesconf.org/data/pages/Book_of_abstracts_EPF2017.pdf)



## • CITÉ INTERNATIONALE (CONGRESS CENTER)

**C1 (Gare Part-Dieu- Cuire):**  
Trolley bus connects quickly the Congress Center (Cité Internationale) to La PartDieu Railway station each 12 minutes and could be combined to the RhoneExpress shuttle to reach the Lyon Saint-Exupery Airport (+ 25 minutes)

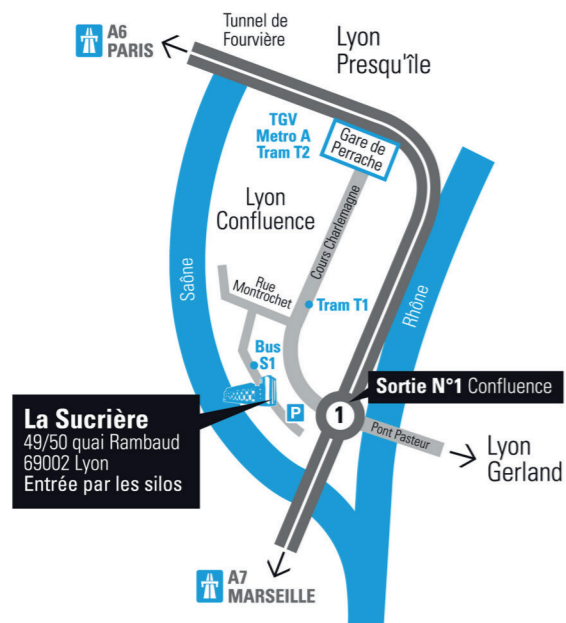
**C2 (Gare Part Dieu – Rillieux):**  
Bus : stop 'Cité Internationale – Transbordeur'

**C4 (Jean Macé – Cité Internationale)**  
Bus is connected to the A and D subway (métro) lines. Stops Foch and Saxe Gambetta for lines A and D, respectively

**C5 (Bellecour Antonin Poncet) (Rillieux semailles/ Vancia Château Bérard):**  
bus connects to the Rhône-Saône rivers peninsula (Presqu'île, i.e. Lyon downtown)

**C1-C4-C5:**  
Stop 'Cité Internationale – Centre des Congrès'

## • LA SUCRIÈRE (GALA DINNER ON THURSDAY JULY 6<sup>TH</sup>, 2017 – 19 :30)



**ACCÈS > Autoroute A7.**  
Sortie N°1 Confluence.  
Prendre le cours Charlemagne, (à droite en venant de Lyon, à gauche de Marseille) puis la 1<sup>ère</sup> à gauche rue Montrouhet, et la 1<sup>ère</sup> à gauche quai Rambaud. Parking au bout du quai à gauche.

**ACCÈS en T.C. > Tram T1, Arrêt Hôtel de la Région - Montrouhet. Bus S1, Arrêt Sucrière.**

## The energy company that's also a technology company.

To develop breakthrough technologies that help the world meet its growing energy needs takes leadership and investment. ExxonMobil is an industry leader in the advancement and application of energy technology, investing around \$1 billion annually in R&D. That's why we're able to take on the toughest energy challenges around the world.

**ExxonMobil**  
Energy lives here™





*Activation*  
Chemical Process Research & Catalysis



**ExxonMobil**



**PULSALYS**  
SATT LYON ST ETIENNE



**TOTAL**



**SOLVAY**  
asking more from chemistry®



**WAVESTONE**

