



32nd,

International Conference of the  
**POLYMER PROCESSING SOCIETY**

**PPS**  **32**

July 25-29, 2016 **LYON FRANCE**



Technical Program



<http://pps-32.sciencesconf.org/>

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## Welcoming Words by the PPS-32 Chairman

Dear ladies and gentlemen,

It is a great pleasure for us to welcome you from all over the world at the international conference of the Polymer Processing Society (PPS) in Lyon. As one of the most highly acclaimed meetings in the field of polymer processing, the PPS conference takes place annually in different countries all over the world, with the most recent ones being held in Marrakech, Morocco (2011), Pattaya, Thailand (2012), Nuremberg, Germany (2013), Cleveland, USA (2014), Jeju Island, Korea (2015). It is an honor for France to host the PPS 32 in Lyon on July 25-29, 2016 (<http://pps-32.sciencesconf.org>).



The PPS-32 will be held in the Lyon Conference Center (Centre de Congrès), which is a superb world-class place for such a world conference. PPS-32 promises to maintain a good balance of programs to serve the attendees from academia and industry. It provides cutting-edge research results and the latest developments in the field of polymer science and engineering. The PPS-32 international conference will gather scientists and engineers who are working in the field of polymer processing, biopolymers and characterization, polymer-based products, polymer physics, composites, modelling and simulations, rheology...

The PPS-32 international conference has received more than 850 abstracts from more than 58 countries. The program includes 10 Parallel Sessions per day with 8 Plenary Lectures, 67 Keynote Lectures, 457 Oral Presentations and 252 Poster Presentations. We take this opportunity to thank all the international reviewers (around 80) for their support and help.

Additionally to the classical general symposia of the PPS meetings, the PPS-32 program also includes 5 special symposia dedicated to some new niches as well as recycling, plastic solutions for eco-conception, high performance composites for lightweight structures, additive manufacturing, microtechnology and smart materials, biobased polymers and materials for renewable energy. Meanwhile, a technical exhibition and a splendid social program will accompany the conference.

We hope that you will enjoy the scientific program and the charms of Lyon "Ville des lumières". Lyon is the second largest city in France (after Paris). It is a city in France's Auvergne-RhôneAlpes region and is the culinary capital of France and the world. Lyon is famous all over the world for the art of fine living. It sits at the confluence of the Rhône and Saône rivers. Its city center reflects 2,000 years of history, with a Roman amphitheater in Fourvière, medieval and Renaissance architecture in Vieux Lyon, and the modern, redeveloped Confluence district on the Presqu'île peninsula between the rivers. It has a lot to offer to all the people interested in the history and cultural activities for which France is so well renowned. Spreading eastward over the centuries, without building over existing sites, the city has 500 hectares in the heart of town listed as a UNESCO World Heritage Site since 1998. With many Michelin-star restaurants, famous chefs, typical "bouchon" restaurants, café bistros and avant-gardist dining experiences: **whatever your taste, there is something for you**. Such flavors and colors can also be found throughout the open-air markets or in the Halles de Lyon Paul Bocuse, a covered market with permanent stalls where famous chefs stock up.

On behalf of the Organizing committee, we would like to thank the PPS- 32 attendees, presenters and accompanying persons, symposia organizers, involved institutions and the sponsors.

We wish you a memorable stay in Lyon and in France.

Sincerely,  
Prof. Abderrahim Maazouz, General Chair

# Local Organizing Committee



**Conference Chair:** Abderrahim Maazouz

**Co-chairman:** Philippe Cassagnau

**Scientific and Technical Program Coordinator, Secretary and Webmaster:** Khalid Lamnawar

**Accounting:** Laure Corrigan (INSAVALOR)

**Committee Members:**

Claire Barrès, Véronique Bounor-Legare, Laure Corrigan, Melinda Desse, Jannick Duchet, Françoise Fennouillot, Philippe Cassagnau, René Fulchiron, Jean-Yves Charmeau, Khalid Lamnawar, Abderrahim Maazouz, Jean-Charles Majesté.



**The Polymer Processing Society** (PPS) ([www.poly-eng.uakron.edu/pps/](http://www.poly-eng.uakron.edu/pps/)) was founded in March 1985 at the University of Akron, Ohio, USA. The intent was to provide a mechanism and format for interaction and presentation of research results in the international polymer processing community. The goals are to foster scientific understanding and technical innovation in polymer processing by providing a discussion forum for the worldwide community of Engineers and Scientists in the field.

The thematic range encompasses all formulations, conversion and shaping operations applied to polymeric systems in the transformation from their monomeric forms to commercial products. Membership for the PPS is open to all researchers in the field and to all persons who feel the activities of the society advance their professional development. Membership forms are available on the PPS website.



Centre de congrès, "Cité internationale"- Lyon Conference center.

## PPS Executive Committee

President	Sati Bhattacharya (Australia)	IPP-Chief Editor	Andrew Hrymak (Canada)
President-Elect	M. Cengiz Altan (USA)	PPP-Chief Editor	Musa Kamal (Canada)
Past President	Giuseppe Titomanlio (Italy)	Member-at Large	Mosto Bousmina (Morocco)
Treasurer	Tim Osswald (USA)	Member-at Large	Ica Manas-Zloczower (USA)
Secretary	Evan Mitsoulis (Greece)	Member-at Large	Takeshi Kikutani (Japan)

## Membership Chair, Webmaster and PPS Awards Chair

Membership Chair	J. Vlachopoulos (Canada)
Webmaster	M. Cakmak (USA)
Chair of the Morand Lambla and James L. White Awards	Ica Manas-Zloczower (USA)

## International Representatives (listed alphabetically)

Volker Altstaedt (Germany)	Shih-Jung Liu (Taiwan)
Sebastiao Canevarolo (Brasil)	Y. Menciloglu (Turkey)
Phil Coates (UK)	P. Moldanears (Belgium)
Jose Covas (Portugal)	Hossein Nazockdast (Iran)
Anup K. Ghosh (India)	Masahiro Ohshima (Japan)
Laszlo Halasz (Hungary)	Luiz Antonio Pessan (Brazil)
Jean-Marc Haudin (France)	Gerrit W.M. Peters (The Netherlands)
C. Holzer (Austria)	Hans-Joachim Radusch (Germany)
I. A. Hussein (S. Arabia)	Petr Saha (Czech Republic)
Hiroshi Ito (Japan)	Krisda Suchiva (Thailand)
Sadhan Jana (USA)	Uttandaraman Sundararaj (anada)
Toshitaka Kanai (Japan)	Q. Wang (China)
S. Kenig (Israel)	
Jin Kon Kim (Korea)	
Kiyohito Koyama (Japan)	

# Sponsors



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## Exhibitors



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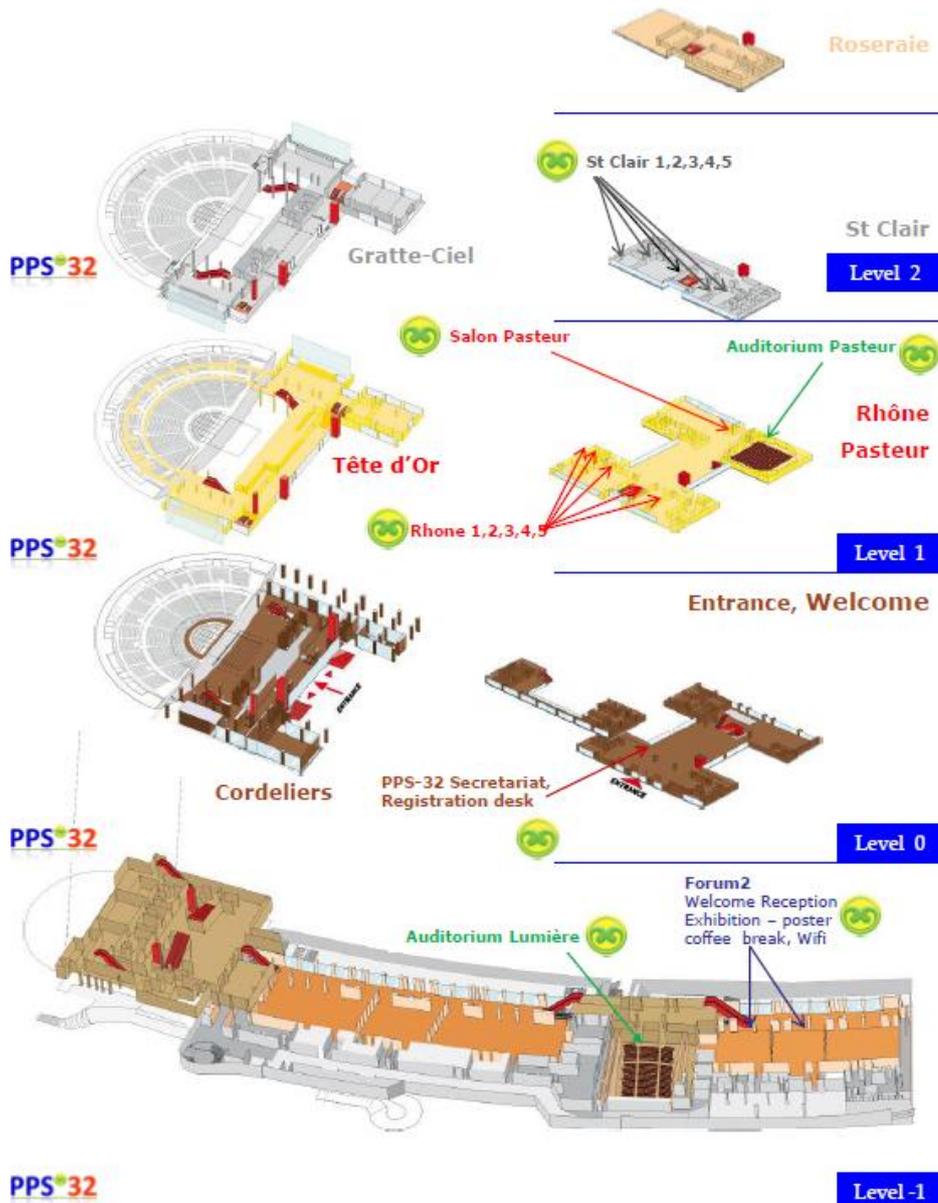
**Sponsor of the special symposium:  
Biobased Plastics for Materials and energy**



# Floor Plan



## CITÉ | CENTRE DE CONGRÈS | LYON



# General Information

## Late Registration

The registration desk will be located in the main hall of the Lyon Conference center. It will be in service:

Monday, July 25	From 05:00 to 07:00 pm
Tuesday, July 26	From 07:45 am to 06:00 pm
Wednesday, July 27	From 07:45 am to 06:00 pm
Thursday, July 28	From 07:45 am to 06:00 pm

## Instructions for Speakers/ Presentation Guideline

### Presentation Time

1. Oral Presentation Time: 20 min (Including 5 min Q&A, discussion and changeover of the session).
2. Keynote Presentation Time: 30 min (Including 5 min Q&A, discussion and changeover of the session).
3. Plenary Presentation Time: 45 min (Including 5 min Q&A).

The time allocated for your presentation is including the time for discussion. Therefore we strongly recommend that you do not exceed the time limit in order to give the other speakers enough time for their talk, and give the audience the opportunity to ask questions and/or make their own statements. Speakers are requested to respect the schedule and present themselves to their session chair 15 minutes before the beginning of the session. The uploaded CV on the PPS-32 database will be printed and given before to the session chair.

### Submitting the Presentation File

There will be ten parallel sessions. The lecture rooms will be equipped with projectors, computers and laser pointers. **Speakers are invited to upload their presentations at the Secretary desk the day before their presentation. Otherwise,** please bring your presentation on a memory stick and hand it in good time before your session starts, **4 hours prior at least**. The secretary desk will be open from 07:30 am to 05:00 pm, Monday to Friday.

### Presentation Equipment

1. Presentation files can be only accepted as \*.PDF, \*.PPT, or \*.PPTX (Powerpoint)
2. Each presentation room will be connected to the "Media Centre" with a laptop which is linked to LCD projector, laser pointer and microphone. If you require other audio-visual equipment, please contact conference secretariat (E-mail: [pps-32@sciencesconf.org](mailto:pps-32@sciencesconf.org)).
3. The modern and efficient computers for your presentation are provided with Microsoft® Windows® 7 or 8, OFFICE 2010, Adobe Acrobat 11. Please make sure to enclose all used fonts and media data to your Microsoft® PowerPoint® presentations
4. The standard set up does not allow for audio in your presentation.

If you use clips or attachments, make sure to create a presentation folder where these are included with your presentation. It is very important that you do not include uncompressed video files in your presentation.

**We kindly ask all speakers to follow the mentioned information in order to guarantee a fluent proceeding during the whole conference.**

If you have any questions please do not hesitate to contact the program coordinator at the secretary desk on-site or one of our hostesses at the registration desk.

For any specific questions regarding your presentation please contact us at [pps-32@sciencesconf.org](mailto:pps-32@sciencesconf.org) with your reference of PPS-32 presentation.

## Abstracts and Conference Proceedings

All accepted abstracts are included in the digital Book of Abstracts. Conference Papers are given at the conference in USB flash drive.

**Archives of conference proceedings** are available online. Full text archives are available to **current members upon login** in PPS website. After log-in, follow the link "**Access our papers here**" on the "**Conferences**" page (click here to log-in).

The peer-reviewed conference proceedings will be published in PPS Proceedings and indexed by Chemical Abstracts. The reviewed paper volume to be published by AIP will be called "Proceedings of the 32nd International Conference of the Polymer Processing Society" after the signature of the Copyright Transfer. It will be prepared by the cooperation of several international reviewers. The redirected abstracts should be analyzed by each reviewer according to the same criteria they have adopted in the previous reviewing session. This step will start in September 2016.

## Exhibition

Exhibition of industrial equipments will be held in the forum 2 of the Lyon Conference center. Poster sessions will be held close to the exhibitors.

## Coffee Breaks

The coffee breaks will be held in the Exhibit and poster hall, forum 2 of the Lyon Conference center as indicated in the technical program.

## Facilities (More details are given in PPS-32 website)

- The Conference Centre Lyon is connected to the main rail station and airport by underground railway. Please visit [www.lyon-france.com](http://www.lyon-france.com) for more details.
- How to get to Lyon conference center: [http://pps-32.sciencesconf.org/conference/pps-32/pages/Access\\_Congress\\_Center.pdf](http://pps-32.sciencesconf.org/conference/pps-32/pages/Access_Congress_Center.pdf).
- **The Lyon visit and social program:** An attractive social program is also given in the website <http://pps-32.sciencesconf.org/resource/page/id/14>.

## Banquet

The banquet will be organized at the Brasserie Georges (an authentic and historical place in Lyon's gastronomy) <http://www.brasseriegeorges.com/home.aspx>. You can still book your ticket at the registration desk.

# Poster Guideline

The poster title, author(s)'s name(s) and affiliation(s) should be placed at the top of the poster. The organization committee will send to you the logo of PPS-32 to be printed with. You can download it here [Logo PPS-32](#). The recommended printed size for title is 2.5 cm (1 IN) in height. All illustrations, charts and pictures should be visible from a distance of 1.5 m.

## Poster Size

The poster size should be in DIN A 0 format, 85 cm (~ 34 IN) in width and 120 cm (~ 48 IN) in height.

## Poster Area

There is a designated location for poster presentations close to the Conference Exhibition of Lyon Conference Center. Each display board will be identified by a poster number assigned to each poster according to the conference program. Poster presenters are responsible for mounting and removing their posters themselves. Equipment to fix the posters on the boards will be provided at the poster area.

## Presentation Time

Posters will be available for viewing throughout the conference and must be taken down Tuesday July, 26 and Thursday, July 28 from 6 :00 to 08 :00 pm. Poster presenters are asked to mount their poster after registration and be available for discussion at their posters during the formal poster sessions. All delegates are encouraged to attend. There will be no audio-visual equipment for Poster sessions. The posters should be installed on the poster boards according to the assigned poster number (see Poster program). The posters should be installed from Tuesday morning to Friday 29 morning till 12:30 pm. Push pins for fixing the posters will be available at PPS-32 secretariat.

## Language

Please be advised that both oral & poster presentations must be conducted in English only.

## Internet facility

Wireless internet will also be available for the delegates at the exhibition and posters hall. The wifi zone will be available from 07:00 am to 06:30 pm.

## Instructions to the session chairs

The chairs of each session are assigned in the timetable program. If you are not available, please contact the PPS-32 Secretariat one day before (Hall of the conference center).

### Plenary Lectures

- 1- The Chair of the Session will obtain a short RESUME OF THE SPEAKER before the conference at the Conference desk from the secretariat (Hall of the conference center).
- 2- Introduce yourself (name and affiliation) and then introduce shortly the speaker.
- 3- Time of presentation for the PLENARY LECTURES is 45 minutes. This corresponds approximately to 40 minutes for the presentation and 5 minutes for discussion.
- 4- Members of the support team will be in the room to help the Chair with all the tasks. Each room is provided with a computer, a laser pointer, and microphones for the speaker, the chair and for discussion.
- 5- All presentations will be uploaded by the supporting team before the session. Personal computers are not allowed.

### Keynotes Lectures

- 1- The Chair of the Session will obtain a short RESUME OF THE SPEAKER before the conference from the Program coordinator/Secretary desk (Hall of the conference center).
- 2- Introduce yourself (name and affiliation) and then introduce shortly the speaker.
- 3- Time of presentation for the KEYNOTE LECTURES is 30 minutes. This corresponds approximately to 25 minutes for the presentation and 5 minutes for discussion.
- 4- Members of the support team will be in the room to help the Chair with all the tasks. Each room is provided with a computer, a laser pointer, and microphones for the speaker.
- 5- All presentations will be uploaded by the supporting team before the session. Personal computers are not allowed.

### Oral Lectures

- 1- The Chair of the Session should identify as soon as possible all the speakers and get only some short information about them **[Author(s)/Lecturer/Affiliation/Paper Title]**. **The CV(s) of all speakers are given in the PPS-32 USA Key flash drive.**
- 2- The Chair of the Session should make sure that proper arrangements have been made for the visual support of each presentation. Each room is provided with a computer and the speaker should upload his (her) files on it. Personal computers are not allowed.
- 3- Introduce yourself at the beginning of the session (name and affiliation) and then introduce the first speaker.
- 4- Members of the support team will be in the room to help the Chair with all the tasks. Each room is provided with a computer, a laser pointer, and microphones for the speaker, the chair and for discussion.
- 5- All presentations will be uploaded by the supporting team before the session. Personal computers are not allowed.

### Important:

- a) *Please respect strictly the timing as indicated on the program.*
- b) *If a speaker is not present to give his/her lecture, please do not change the time order of the next presentation. Do strictly keep the schedule as printed on the program.*

# Symposia Organizers

## General Symposia

- S01. **Blow Molding, Thermoforming and Rotomoulding** John Vlachopoulos (Canada), Kwang J. Kim (USA), Nguyen Dang Luong (Finland), Charkhtchi Abbas (France), Schmidt Fabrice ( France).
- S02. **Nanocomposites and filled Polymers:** Suprakas Sinha Ray (South Africa), Sati Bhattacharya (Australia), Sadhan Jana (USA), Tony McNelly (UK), J-F Gérard (France), Mustapha Bousmina ( Morocco), Yves Grohens (France).
- S03. **Extrusion and Extrusion Processes:** Sadhan C. Jana (USA), Maazouz A. (France), José Covas (Portugal), Hossein NAzokdast (Iran), Agassant J-F (France), Jose Maria Kenny (Italy), Philippe Coates (UK).
- S04. **Polymer Blend and Alloys:** Kiyohito Koyama (Japan), Paula Moldeneers (Belgium), Christian Carrot (France), Volker Altstädt (Germany), Françoise Fennouillot (France).
- S05. **Polymer Foams and Lightweight structures:** Chul Park (Canada), Masahiro Ohshima (Japan), Roberto Pantani (Italy), Jannick Duchet (France).
- S06. **Biopolymers and Polymer from Renewable Ressources:** Michel Huneault (Canada), Etienne Fleury (France), Christian Bonten (Germany), Luc Avérous (France), Patrick Navard (France).
- S07. **Process Modeling and Simulation:** Igor Emri (Slovenia), Rahul Gupta (Australia), Patrick Anderson (Netherlands), Andrew Hrymak (Canada), Toshihisa Kajiwara (Japan), Rudy Valette (France), Amine Ammar (France).
- S08. **Process Monitoring, Control and Sensors:** Georg Steinbichler (Germany), Jose Maria Kenny (Italy), Hossein Nazockdast (Iran), Keiji Tanaka (Japan), Didier Delaunay (France), Mhamed Boutaous (France), Clemens Holzer (Austria)
- S09. **Reactive Processing:** Costas Tzoganakis (Canada), Jin Kon Kim (South Korea), Mohamed Taha (France), Véronique Bounor-Legaré (France), HU Guo-Hua (France).
- S10. **Rheology and Rheometry:** Joao Maia (USA), Masayuki Yamaguchi (Japan), Jan Vermant (Switzerland), Khalid Lamnawar (France), Nadia El-Kissi (France), René Muller (France).
- S11. **Elastomers and thermoplastic Elastomers :** Kinsuk Naskar (India), Tony McNelly (UK), Krisda Suchiva (Thailand), Liqun Zhang (China), Charoen Nakason (Thailand), Philippe Cassagnau (France).
- S12. **Fiber, Films, and membranes:** Narongrit Sombatsompop (Thailand), Musa Kamal (Canada), Hamid Kaddami (Morocco), Alain Dufresne (France).
- S13. **Injection Molding and Mold:** Andrew Hrymak (Canada), Shih-Jung Liu (Taiwan), Yves Beraard ( France). Michel Vincent (France).

S14. **Mixing and Compounding:** Tim Osswald (USA), Ica Manas-Zloczower (USA), Jozsef Karger-Kocsis (Hungary), M. Sugimoto (Japan), J-Charles Majesté (France), Bruno Vergnes (France), Gerrit Peters (Netherlands), Pierre Elemans (Netherlands)

S15. **Morphology and Structure Development (with special honoring session of J-M. Haudin):** Patrick C. LEE (USA), Uttandaraman Sundaraj (Canada) , Fulchiron R ( France), Boyer Severine ( France), Billon N (France), Abdellah Aji (Canada), Peter Van Puyvelde (Belgium), Giuseppe Titomanlio (Italy).

## Special Symposia

S16. **Recycling and Plastic Solutions for Eco-conception:** Jae Wook LEE (Korea), Hani Naguib (Canada), Valerie Massardier ( France), Kim Ragaert (Belgium) .

S17. **High performance composite processing:** Jingshen Wu (Hong-Kong), Paolo Ermanni (Switzerland), Ashok Misra (India), Zoubeida Ounaies (USA), James C. Seferis (USA), B. Defoort (France), Ph. Boisse (France), F. Chinesta ( France).

S18. **Additive Manufacturing for Plastic Components:** Manfred Schmid (Switzerland), G. Régner G (France), JY Charmeau, C. Barrès (France), D. Drummer (Germany).

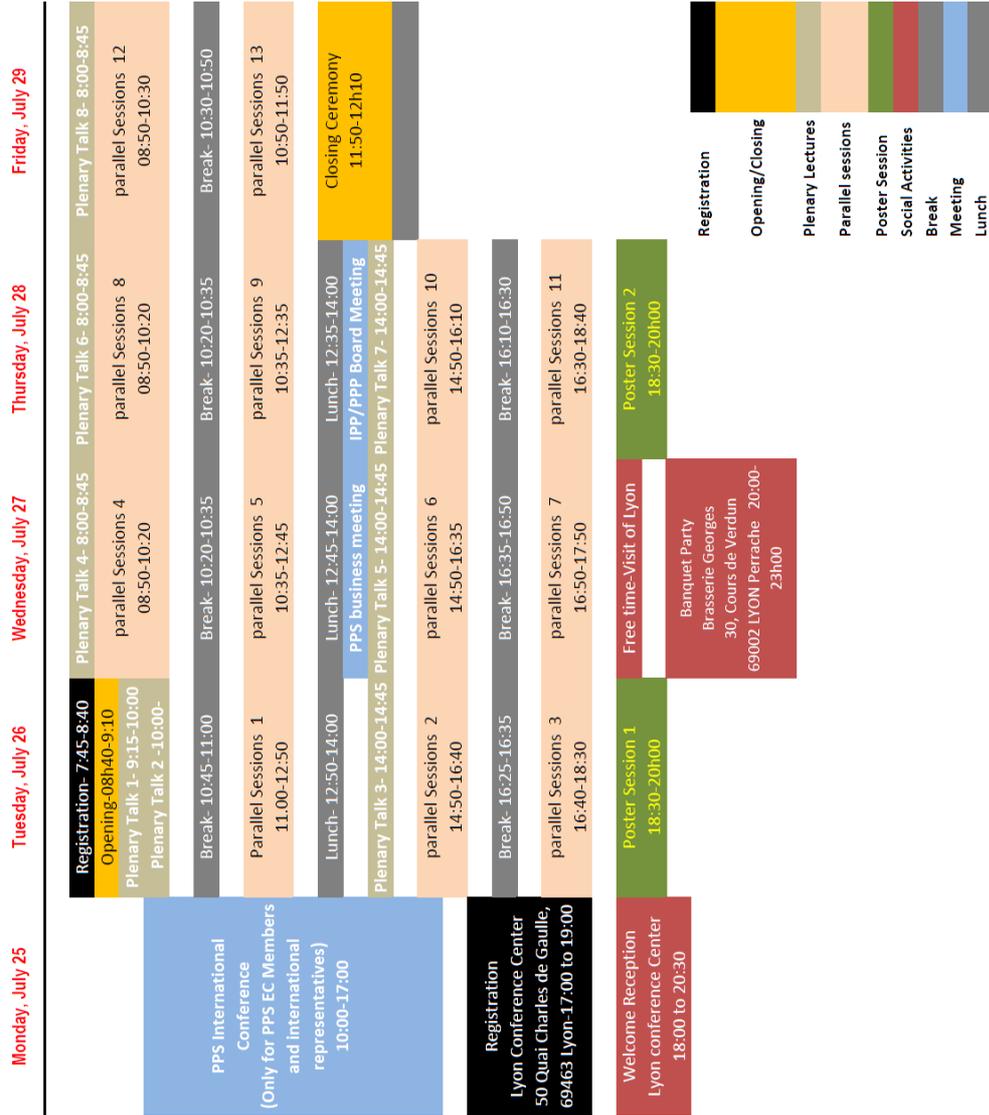
S19. **Microtechnology and smart materials:** Patrick C. Lee (USA), Han Meijer (Netherland), Michel Vincent (France).

S20. **Biobased Plastics and Materials for Renewable Energy:** Ica Manas-Zloczower (USA).



# Conference Program at a glance

## PPS-32 Conference Program at a glance



# Program Schedule

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Plenary lecture (PL):  
45min including 5min Q/AKeynote presentation (KN):  
30 min including 5min Q/AOral presentaion (OP):  
20min including 5min Q/A**Monday, July 25, 2016****Committee Executive Meeting - (Only for PPS EC Members and international representatives, Room: Rhone 3, Lyon Conference Center- 50 Quai Charles de Gaulle, 69463 Lyon)**

10:00am-05:00 pm

05:00pm-07:00 pm

**Registration- Lyon Conference Center- 50 Quai Charles de Gaulle, 69463 Lyon**

06:00pm-08:30pm

**Welcoming reception : Hall of Lyon conference Center****Tuesday, July 26, 2016**

07:45am-08:40 am

Registration

08:40-9:10 am

**Opening Ceremony - Auditorium Lumière**

Chair : Sati Bhattacharya

09:15-10:00 am

Plenary Lecture 1: Structure development in Polymer Nanocomposites: From basic understanding to additive manufacturing, Mosto Bousmina (Euro-Mediterranean University of Fes, Morocco)- Room: Auditorium Lumière

10:00-10:45 am

Plenary Lecture 2: Industrial Applications and Needs for Aeronautic and Space Applications, Brigitte Defoort (Airbus Defence and Space, France)- Room: Auditorium Lumière

10:45-11:00 am

Coffee Break. Room: Exhibit and poster Hall-Forum 2

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8	Session 9	Session 10
Room	Rhone 1	Rhone 2	Rhone 4	Rhone 3a	Rhone 3b	Auditorium Pasteur	St Clair 1	St Clair 2	St Clair 3a	St Clair 4
11:00am: 12:50 pm	Fibers, Films, and Membranes	Polymer Blends and Alloys	Extrusion and Extrusion Processes	Nanocomposites and filled Polymers (1)	Nanocomposites and filled Polymers (2)	Biopolymers and polymers for renewable ressources	Rheology and Rheometry	Process Modelling and simulation	Reactive Processing	Special S: Biobased Plastics for materials and renewable Energy Sponsored by NSF-PIRE
Chair	Musa Kamal	Paula Moldenaers	Jose Covas	Jana Sadhan	M. Cengiz Altan	Michel Huneault	Dimitris Vlassopoulos	Suresh Advani	Guo-Hua Hu	Ica Manas-Zloczower
11:00-11:30 am	KN-S12-751 Surface Modified Filter Media from Melt Blown Nanofibers Macosko Chris- USA	KN-S04-307 Transformation of Homocrystallite/Stereocomplex Crystallite of PLLA/PDLA Blended Filament during the Heating Process Ko Huan-Chieh, Shyr Tien-Wei - Taiwan	KN-S03-98 40 Years Of Vibration Assisted Polymer Processing: Understanding Polymer Physics as a Source of Innovations IBAR Jean Pierre- Spain	KN-S02-34 Polymer carbon nanotube composites for thermoelectric applications Pötschke Petra, Luo Jinji, Krause Beate - Germany	KN-S02-172 Optimization and Modelling of Delignification Process for Nanocrystalline Cellulose Production from Rice Husk Biomass Islam Sakinul, Kao Nhol, Bhattacharya Sati N, Gupta Rahul K - Australia	KN-S06-50 Kenaf Fiber Reinforced Biocomposites with Control Release Properties for Mulch Film Application Ching Yern Chee - Malaysia	KN-S10-21 Low-Field RheoNMR: Newly Developed Combination of Rheology and Time Domain (TD)-NMR to Correlate Mechanical Properties with Molecular Dynamics in Polymer Melts Räntzsch Volker, Özen Mürütvvet Begüm, Rätzsch Karl-Friedrich, Guthausen Gisela, Wilhelm Manfred - Germany	KN-S07-18 Extrudate Swell Of A High-Density Polyethylene Melt: Modeling Using Integral And Differential Constitutive Equations Mitsoulis Evan, Konaganti Vinod Kumar, Hatzikiriakos Savvas G.- Greece-Canada	KN-S09-6 InnoREX – European project reveals impact of microwave and ultrasound energy on polymerisation of PLA via reactive extrusion Bergmann Bjoern, Diemert Jan - Germany	KN-S20-124 Unusual crystal phase in linear aliphatic polyesters Tadjiev T, Ungar Goran- UK

11:30-11:50 am	<b>OP-S12-7</b> Co-axial electrospinning of sheath-core structured chitosan/poly(lactide) nanofibers for the filtration of metal ions. Lee Demei, Huang Tzu-Wei, Liu Shih-Jung - Taiwan	<b>OP-S04-5</b> Blends Based on Ethylene Vinyl Acetate (EVA) and Thermoplastic Polyurethane (TPU): Exploring the Influence of Electron Beam Irradiation on Performance Properties. Dutta Joyeeta, Chatterjee Tuhin, Naskar Kinsuk - India	<b>OP-S03-55</b> Development of a method for a realistically and reproducibly contamination of polymer melt filters. Meiwes Peter, Schöppner Volker - Germany	<b>OP-S02-58</b> Carbon Nanotube- and Graphene Nanoplatelet-added PVDF/PMMA Blend-based Nanocomposites. Chiu Fang-Chyou, Chen Ying-Jing, Yeh Shih-Chang - Taiwan	<b>OP-S02-62</b> The Effect of 3-aminopropyltriethoxysilane on rheological and mechanical properties of polyamide 11/clay nanocomposites. El Mabrouk Khalil, Risite Heriarivelo, Bousmina Mostapha, Fassi-Fehri Omar - Morocco	<b>OP-S06-54</b> An Investigation between High and Low Pressure Processes for Nanocrystalline Cellulose Production from Agro-waste Biomass. Kao Nhol, Islam Sakimul Md., Bhattacharya Sati N., Gupta Rahul K - Australia	<b>OP-S10-29</b> Measuring the Effects of Filler Variations on Compound Viscoelastic Properties as Measured by the Capillary Rheometer and the RPA. Dick John S. USA	<b>OP-S07-59</b> Analysis of pellet diameter and inorganic filler influences on the polymer melting behavior in planetary roller extruders. Rudloff Johannes, Lang Marieluise, Kretschmer Karsten, Heidemeyer Peter, Bastian Martin, Koch Michael - Germany	<b>OP-S09-117</b> In-situ polymerization of epoxy based thermotropic liquid crystalline polymers by reactive extrusion and its liquid crystalline behaviors. Seo Yongsok - Korea	<b>OP-S20-756</b> Cell Viability Of Cnc And Pbat/Cnc Bionanocomposite. Bellani C. F., Morelli C. L., Ferrand A., Benkirane-Jessel N., Bretas R. E. S., Branciforti Marcia-Cristina - Brazil
11:50-12:10 pm	<b>OP-S12-14</b> Development of Improved Ultra Violet Light Resistance Multilayer Films. Silverwood Richard James, Tabatabaei Seyed Hesamoddin, Ajjji Abdallah - Canada	<b>OP-S04-13</b> Enhancement of Impact Strength at Ambient and Low Temperature for Polycarbonate-based Polymer Alloy without Reduction of Flexural Modulus. Saito Tomotaka, Hao Yan, Sumiya Nobuhiro, Moriyama Tomokazu - Japan	<b>OP-S03-162</b> Influence of Temperature on the Contact Angle of Polymer Melts on Tool Surfaces. Zitzenbacher Gernot, Längauer Mannel, Huang Zefeng - Austria	<b>OP-S02-377</b> Influence of Filler Dispersion and Interfacial Resistance on Thermal Conductivity of Polypropylene/Carbon Nanotubes Systems. Patti Antonella, Acierno Domenico, Russo Pietro - Italy	<b>OP-S02-71</b> Fiber Length Reduction during Shearing in Polymer Processing. Moritzer Elmar, Heiderich Gilmar - Germany	<b>OP-S06-90</b> Pilot scale production of thermoplastic starch/bentonite nanocomposites and their blends with polystyrene. Guarás Maria P., Torres Nicolini Andrés, Alvarez Vera A., Ludueña Leandro N. - Argentina	<b>OP-S10-77</b> Dynamic Heterogeneity of PMMA/PVDF Blends: Composition Dependence and Role of Interphase. Lu Bo, Lamnawar Khalid*, Maazouz Abderrahim - France	<b>OP-S07-67</b> Investigation of the influence of material and pellet shape on the dissipation in the solids conveying zone of single-screw extruders based on the Discrete Element Method (DEM). Trippe Jan, Franke Reinders, Schöppner Volker - Germany	<b>OP-S09-601</b> Reactive Compounding of Polydimethylsiloxane-Polyurea Copolymer based Masterbatch Colorants. Radusch Hans-Joachim, Hübner Matthias, Röber Friedhelm, Wutzler Andre - Germany	<b>KN-S20-525</b> Reinforcing poly(lactide) with lactic acid modified Cellulose Nanocrystals via melt blending. Raquez Jean-Marie, Spinella Stephen, Gross Richard, Habibi Youssef, Dubois Philippe - Belgium (30min)
12:10-12:30 pm	<b>OP-S12-22</b> Multi-layer polyelectrolyte on polymer surface for direct methanol fuel cell. Huang Sz-Chieh, Melody, Lue Shingjiang, Jessie Jessie - Taiwan	<b>OP-S04-93</b> Development of high-performance thermoplastic PPS/PESU blends as matrices in fiber reinforced composites. Krooß Tim, Gurka Martin, Breuer Ulf - Germany	<b>OP-S03-284</b> How to postpone the Gross Melt Fracture in linear Polymer melt extrusion. Ndao Makha, Domejean Hugo, Valtier Michel, Allal Ahmed - France	<b>OP-S02-30</b> Use of Polymer Blends to Reduce Carbon Nanotube Breakage during Melt Processing. Grady Brian, Guo Jiayi - USA	<b>OP-S02-133</b> Investigation of Fiber Orientation and Displacement in High-Pressure Foam Injection Molding of Polystyrene/Carbon-Fiber Composites. Shaayegan Yahid, Cuif Lorraine, Ameli Aboutaleb, Wang Sai, Park Chul B. - Canada	<b>OP-S06-106</b> Influence of the chemical structure of ferulic acid derivatives on the aspect ratio of hemp fibres and on the mechanical properties of biocomposites materials by Confocal Raman Imaging. Gallos Antoine, Beaugrand Johnny, Paës Gabriel, Allais Florent - France	<b>OP-S10-138</b> Novel Thermo-thickening Polymers for potential application in enhanced oil recovery. Kamal Muhammad Shahzad, Sultan Abdullah Saad - Saudi Arabia	<b>OP-S07-789</b> Simulation of the Micropelletization Process using the Corotational Maxwell Model. Schäfer Christian, Osswald Tim A. - USA	<b>OP-S09-164</b> One-step Reactive Twin Screw Extrusion Process for Compatibilizing Polymer Blends. Sobkowicz Margaret, Farahanchi Azadeh, Gug Jeonglin - USA	
12:30-12:50 pm	<b>OP-S12-26</b> Synthetic fibers tailored for medical textiles. Hufemus Rudolf, Quandt Brit, Maiké, Leal A. Andrés, Hegemann Dirk - Switzerland	<b>OP-S04-232</b> Evaluation of influence of nano particles on morphology of PP/PS blends by FT-rheology on LAOS test. Salehiyan Reza, Lee Sumkun, Kim Minguen, Hyun Kyu - Korea	<b>OP-S03-96</b> First insight into the High Speed Extrusion of Polycarbonate. Pohl Max, Peter Meiwes, Schöppner Volker - Germany	<b>OP-S02-11</b> Multifunctional Nanopapers for Fiber Reinforced Polymeric Composites. Castro Jose M., Cabrera Eusebio, Zhao Yanan, Zhang Dan, Lee James - USA	<b>OP-S02-214</b> Influence of Graphite and SEBS Addition to Polypropylene Composites on Thermal and Electrical Conductivity and Mechanical Properties. Krause Beate, Colmen Andreas, Pötschke Petra, Hickmann Thorsten, Koppler Dagmar, Proksch Bettina, Kersting T., Hopmann CH. - Germany		<b>OP-S07-103</b> Alternative Energy Source Impact on Synthesis of Poly Lactic Acid through Continuous Reactive Extruder: Reaction kinetics modeling. Dubey Satya Prakash, Abhyankara Hrushikesh A, Merchante Veronica, Brighton James L., Bergmann Bjorn, Trinh Giang, David Chantal - UK	<b>OP-S09-774</b> Reactive extrusion of PLA/PC blends and composites. Gigante Vito G, Coltellia Maria-Beatrice, Coltellia, Phuong Vu than, Cinelli Patrizia, Lazzeri Andrea - Italy		
12:50-02:00 pm	Lunch Break									

Tuesday, July 26, 2016

Chair : Andrew Hrymak										
02:00-02:45 pm	Plenary Lecture 3: Polymers under topological constraints: a rheological journey from entanglements to nanocomposites, Vlassopoulos Dimitris (University of Crete – Greece). Room: Auditorium Lumière									
02:45-02:50 pm	Room Change									
Room	Session 1 Rhône 1	Session 2 Rhône 2	Session 3 Rhône 4	Session 4 Rhône 3a	Session 5 Rhône 3b	Session 6 Auditorium Pasteur	Session 7 St Clair 1a	Session 8 St Clair 2	Session 9 St Clair 3a	Session 10 St Clair 4
02:50-06:30 pm	Fibers, Films, and Membranes	Polymer Blends and Alloys	Extrusion and Extrusion Processes	Nanocomposites and filled Polymers (1)	Nanocomposites and filled Polymers (2)	Biopolymers and polymers for renewable resources	Rheology and Rheometry	Process Modelling and simulation	Reactive Processing	Special S: Biobased Plastics for materials and renewable Energy. Sponsored by NSF-PIRE
Chair	Peters Gerrit W.M	Volker Altstaedt	Hossein Nazockdast	Mosto Bousmina	Luiz Antonio Pessan	Y. Menciloglu	Wang Shi-Qing	Toshihisa Kajiwara	Udo Wagenknecht	Ica Manas-Zloczower
02:50-03:20 pm	<b>KN-S12-148</b> A Novel Fiber Processing Technology Based on Fused Deposition 3D Printing Combined with Melt Electrospinning Ko Junghyuk Ashani Vahid, Yao Selina X., Jun Martin B.G., Lee Patrick C. Canada/USA		<b>OP-S03-431</b> Current Achievements in Experimental and Computational Modeling of Screw Extrusion Miethlinger Jürgen, Pachner Sophie, Marschik Christian, Luger Hans-Jürgen, Löw-Baselli Bernhard - Austria (20min)	<b>KN-S02-290</b> Effect of MWCNT and block copolymers in the structure of polypropylene/polystyrene blends Sundararaj Uttandaraman, Otero Navas Iyonne - Canada		<b>KN-S06-130</b> Potential of protein based-biocomposites prepared with lignin-free cellulose Garrido Tania, Leceta Itaso, Guerrero Pedro, de la Caba Koro - Spain	<b>KN-S10-169</b> Anomalous Effect of Temperature on Rheology of Poly Lactide /Graphene Nanoplatelet Nanocomposites Kashi Sima, Gupta Rahul K, Bhattacharya Sati N - Australia	<b>KN-S07-89</b> Investigation of the knife-over-roll coating process for Plastisols coating applications Agassant Jean-François, Demay Yves, Castellani Romain, Abdesselam Yamina, Peres Richard, Gourdin Diego - France	<b>OP-S09-735</b> Electron induced reactive processing of polypropylene/ethylene octene copolymer blends – a new method to produce toughened polypropylene Zschech Carsten, Gols Uwe, Heinrich Gert-Germany (20min)	<b>KN-S20-564</b> Tuning the hydrolytic degradation rate of Poly-Lactic Acid (PLA) to more durable applications Iozzino Valentina, Askanian Haroutioun, Leroux Fabrice, Verney Vincent, Pantani Roberto Italy
03:20-03:40 pm	<b>OP-S12-25</b> Polyelectrolyte Complex Containing Graphene Oxide Nanofillers as Desalination Membranes Wang Yi-Chun, Shih Chao-Ming , Lue Shingjiang, Jessie - Taiwan	<b>OP-S04-519</b> Inducing conductivity in immiscible PP/PS blends by a percolated polyaniline/PA filler selectively localised by interactions with the SEBS-g-MA compatibilizer Bharati Avani, Hejmady Prakhay, Cardinaels Ruth, Won Seo Jin, Moldenaers Paula- Belgium	<b>OP-S03-131</b> Experimental and Theoretical Study on Starve Fed Single Screw Extrusion of Polymer Blends Wilczyński Krzysztof J., Nastaj Andrzej, Lewandowski Adrian, Wilczyński Krzysztof - Poland	<b>OP-S02-110</b> Polymer Composites with Zeolites Szostak Marek, Walczak Rozalia - Poland	<b>OP-S02-167</b> Development of piezoelectric properties in PVDF: Effect of particle concentration and stretching variable Jahan Nusrat, Aji Abdullah, Mighri Frej, Rodrigue Denis - Canada	<b>OP-S06-144</b> Modeling approach for the degradation mechanisms of PLA resulting from processing Dtingen Matthias, Keller Stefan, Koch Michael - Germany	<b>OP-S10-474</b> Slip and Roughness at the Interface between Polymeric Liquids during Capillary Flow Sukumaran Sathish K., Komuro Ryohei, Takuya Ito, Sugimoto Masataka, Koyama Kiyohito - Japan	<b>OP-S07-128</b> Cavity Dependence of Core Penetration in Co-Injection Multi-Cavity Molding Huang Chao-Tsai, Hsu Chih-Chung, Chang Rong-Yeu, Tseng Shi-Chang - Taiwan	<b>OP-S09-279</b> The interplay between molecular dynamics and reaction kinetics during curing reactions Schawe Jürgen E.K. - Switzerland	<b>KN-S20-752</b> Recent advances in nanocellulose-based materials Habibi Youssef-Luxembourg (30min)
03:40-04:00 pm	<b>OP-S12-69</b> Structural Characterization By X-ray Scattering Of PET Film By Near Melting Point Stretching Tanimura Aya, Horinouchi Kazuhito, Inagaki Jun, Funaki Kenichi, Shimizu Toshiyuki, Numata Yukihiro, Ito Katsuya Japan	<b>OP-S04-181</b> Influence of the selective functionalization of halloysite on the morphology and the rheology of co-continuous polystyrene/polyamide 11 blends Sahnoune Mohamed, Taguet Aurélie, Otazaghine Belkacem, Kaci Mustapha, Lopez-Cuesta José Marie-France	<b>OP-S03-81</b> Opportunities and challenges of profile extrusion dies produced by additive manufacturing processes Hopmann Christian, Yesildag Nafi, Windeck Christian, Bremen Sebastian, Wissenbach Konrad, Merkt Simon - Germany	<b>OP-S02-113</b> Effect of unfunctionalized and HNO3-functionalized multiwall carbon nanotubes on the mechanical and electrical properties of co-continuous polymeric systems Mighri Frej, Nafaa Athmoui, Elkoun Said- Canada	<b>OP-S02-140</b> Effect of OMMT on fire resistance of EVA-based ceramifying composites Gong Xinhao, Shen Yucai, Wang Tingwei - China	<b>OP-S06-136</b> Compatibilizing Effects of Itaconic Anhydride on Blends between Poly(lactic acid) and Novatein Thermoplastic Protein Walallavita Amuradha Sammanie, Verbeek Casparus Johannes Reinhard, Lay Mark Christopher-NewZealand	<b>OP-S10-171</b> Effect of the wave length and the intensity of UV LED on UV-curable LSR Tae Joon-sung, Yim Kyung-gyu, Kwak Jae B., Gim Jin-su, Rhee Byung-ohk - Korea	<b>OP-S07-265</b> Multiphase and Multiscale Approaches for Modeling the injection of textured molds Laure Patrice, Nakhoul Rebecca, Silva Luisa, Vincent Michel - France	<b>OP-S09-522</b> Preparation of Long Chain Branched Polypropylene by the Silane-grafting Reactive Extrusion and its Foaming Behavior Yao Zhen, Xu Lin-jie, Qiu Shaolong, Li Yan, CAO Kun- China	

04:00-04:20 pm	<b>OP-S12-76</b> Polymer Structure Effects on Crystallization and Properties in Polypropylene Film Casting <u>Gahleitner Markus</u> , Milvea Daniela, Gloger Dietrich, Tranchida Davide, Androsch René - Austria/Germany	<b>OP-S04-197</b> Effects of Reactive Polymer as Modifier on Impact Strength and Hydrolytic Stability of PC/ABS Blend <u>Nishino Kohhei</u> , Shindo Yuichi, Takayama Tetsuo, Ito Hiroshi- Japan	<b>OP-S03-422</b> Experimental Investigation of the Mixing Quality of High-Performance Screws <u>Luger Hans-Jürgen</u> , Marschik Christian, Gillhofer René, Grubauer Markus, Miethlinger Jürgen- Austria	<b>OP-S02-122</b> Projecting very long-term non-Fickian moisture absorption behavior based on short-term data <u>Grace Landon</u> - USA	<b>OP-S02-142</b> The Processing of Functional Polymer Nanocomposites <u>Deng Hua</u> , Du Rongni, Fan Mingfeng, Fu Qiang - China	<b>OP-S06-123</b> Development of bio-based polyamides: films extrusion and composites preparation with natural fillers <u>Frache Alberto</u> , Battezzore Daniele, Peduto Nicolangelo, De Sio Anna- Italy	<b>OP-S10-639</b> Structural and multi-scale magnetorheological investigation of simple magnetic fluids and nanocomposites biopolymer based networks <u>Ponton Alain</u> - France	<b>OP-S07-145</b> Multi-scale simulations of polymer melt flow in a contraction and expansion channel <u>Taniguchi Takashi</u> , Harada Kohei - Japan	<b>OP-S09-441</b> An engineering approach to improve the prediction of melt flow behaviour for injection moulded rubber parts <u>Amine El Saved Achraf</u> - Netherlands	<b>OP-S20-44</b> Processability and Mechanical Properties of Biobased Epoxy Resin Systems for Wind Turbine Blades Yue Liang, Maiorana Anthony , Patel Ammar, Gross Richard A., Manas-Zloczower Ica - USA
04:20-04:40 pm	<b>OP-S12-115</b> The Development of the Polyamide Filament Knitted Fabrics with Antimicrobial, Anti UV, and Cooling Functions Using Chemical Synthesis Method <u>Chin Chih-Ping</u> , <u>Liu Jen-Yung</u> , Cheng Kou-Bin, Chang Jing-Tang, Huang FU-Liang- Taiwan	<b>OP-S04-779</b> Novel Strategy for Compatibilization of Immiscible Ternary Polymer Blends and Its Morphology Development <u>Wang Dong</u> - China	<b>OP-S03-83</b> Groove Geometry and Bulk Material Properties Impacting on Pressure Build-up in Single Screw Extruders <u>Düngen Matthias</u> , Müller Michael, Koch Michael - Germany	<b>OP-S02-127</b> Can Inorganic Nanotubes Replace Carbon Nanotubes in Polymer Nanocomposites? <u>Kenig Samuel</u> , Dodiuk Hanna, Tenne Reshef - Israel	<b>OP-S02-146</b> Effects of Graphene/sulfur particles on thermal and crystallization of High density polyethylene (HDPE) Jena Kishore Kumar, <u>Alhassan Saeed M</u> - UAE	<b>OP-S06-151</b> Relationship between Crystallization and Thermal Property of Injection-molded Poly(L-lactic acid) under the Coexistence of Carbon Nanotubes and Shear Flow Xie Xu-Long, Zhong Gan-Ji, <u>Li Zhong-Ming</u> - China	<b>OP-S10-268</b> Pressure-Drop And Kinematics Of Flow Through An Axisymmetric Contraction-Expansion Geometry <u>Manero Octavio</u> - Mexico	<b>OP-S07-160</b> A semi-mechanistic model for polyurethane cure thermokinetics : Application to a natural rubber based thermoset Tran Thi Kieu Nhung, Colomines Gaël, Noury Arnaud, Pilard Jean François, Deterre Rémi, <u>Leroy Eric</u> - France	<b>OP-S09-277</b> Properties of gamma-Irradiated PP/PE blends obtained by reactive processing. <u>Massardier Valerie</u> , Fel Elie, Khrouz Lhoussain, Bonneviot Laurent, Cassagnau Philippe- France	
04:40-04:50 pm										
Coffee Break. Room: Exhibit and poster Hall- Forum 2										
04:50-05:10 pm	<b>OP-S12-147</b> The effect of additives on high temperature water retention, mechanical and thermal stability of polymer composites. <u>Agrawal Bhawana</u> , Porada Monika Willert - Germany	<b>OP-S04-580</b> Production of PBT/PC particle systems by wet grinding <u>Schmidt Jochen</u> , Romeis Stefan, Wirth Karl-Ernst, Peukert Wolfgang - Germany	<b>OP-S03-527</b> A novel extrusion process using a special static mixer die and on-line ultrasound simultaneously <u>Sanchez-Olivares Guadalupe</u> , Sanchez-Solis Antonio, Calderas Fausto, Medina-Torres Luis, Manero Octavio-Mexico	<b>OP-S02-152</b> Influence of artificial aging on the thermal conductivity of graphite and ceramic filled compounds <u>Mieth Florian</u> , Heim Hans-Peter, Sauer Viola - Germany	<b>OP-S02-233</b> Impact of Synthesis Temperature on Structure of Carbon Nanotubes and Morphological and Electrical Characterization of Their Polymeric Nanocomposites <u>Arjmand Mohammad</u> , Mirkhani Seyyed Alireza, Krause Beate, Pötschke Petra, Sundararaj Uttandaraman- Canada	<b>KN-S06-646</b> The impact of the development of mesomorph phase on physical performance of PLA nanocomposites <u>Lafleur Pierre G</u> , Karami Shervin - Canada (30min)	<b>OP-S10-350</b> Quantification Of Volume Defects Encountered During The Extrusion Of Rubber Compounds Jugo Vitoria Miren, Domejean Hugo, Valtier Michel, <u>Vergnes Bruno</u> - France	<b>OP-S07-223</b> Evaluation of Fiber Orientation Prediction for automotive applications <u>Kech Armin</u> - Germany	<b>KN-S09-739</b> The use of a reactive compatibilizer-tracer to probe reactive polymer blending processes JI Wei-Yun, ZHANG Cai-Liang, HU Guo-Hua, Feng Lian-Fang, Hoppe Sandrine- France (30min)	<b>KN-S20-619</b> Biobased materials for optoelectronics Singer Kenneth, Gross Richard, Dawson Nathan, Maiorana Anthony, Liu Fei, Spinella Stephen, McMaster Michael, Peters Kyle, Ibrahim Mohammad, Mekala Shekar- USA (30min)
05:10-05:30pm	<b>OP-S12-281</b> Electrospinning of Poly(N-vinylcaprolactam)/polycaprolactone blend for Drug Delivery Applications <u>Sta Marwa</u> , aguiar Grazielle De Jesus, Medeiros Simone de Fátima, dos Santos Amilton, Demarquette Nicole - Canada/Brazil	<b>OP-S04-621</b> Mixing of Polar and Non-Polar Molten Olefinic Co-polymer with Polar Liquids in Conditions of Very Low Viscosity Ratio: Shear Dominated Flows <u>Kevin Verilhac</u> , Desse Melinda, Fenouillot Françoise, Carrot Christian - France	<b>OP-S03-512</b> Study of the Rheological Behavior of Polypropylene/Polyethylene Extruded Mixture Using an Instrumented Die <u>El Haji Sleiman Ghinwa</u> , Belhabib Sofiane, Petit Isabelle, Allanic Nadine, Deterre Rémi - France	<b>OP-S02-166</b> Determination of the optimum coupling agent content for composites based on hemp and high density polyethylene Kavianiboroujeni Azam, Cloutier Alain, <u>Rodrigue Denis</u> - Canada	<b>OP-S02-228</b> Influence of Nano clay on Mechanical Properties of Glass Fiber Reinforced Polypropylene Composites <u>Sousa Jose Alexandrino</u> - Brazil		<b>OP-S10-426</b> Elongational rheology of glass-fiber and natural-fiber reinforced polypropylenes with a novel online rheometer <u>Luger Hans-Jürgen</u> , Köpplmayr Thomas, Sobczak Lukas, Haider Andreas, Miethlinger Jürgen- Austria	<b>OP-S07-230</b> Erosion In Extruder Flow: A Numerical And Analytical Study <u>Kaufman Miron</u> , Fodor Petru S. - USA		

05:30-05:50 pm	<p><b>OP-S12-200</b> Visualization of pillar-shaped fiber bundle in model needle-punched nonwoven fabric by X-ray micro computed tomography Ishikawa Tatsuya, Kim KyoungHou, Ohkoshi Yutaka - Japan</p>	<p><b>OP-S04-334</b> <b>Synthesis of Poly(ethylene terephthalate-co-naphthalene) to Achievement of the Hot Fill Properties</b> Abbasi Atiyeh, Sheikh Nejad Moghadam Abdollah, Amir Aslani Saba Reza, <b>Keshavarzian Ali - Iran (cancelled)</b></p>	<p><b>OP-S03-452</b> Solids Conveying in Lab Scale Smooth Barrel Single Screw Extruders Regarding the Material Parameters' Dependence on Pressure, Temperature and Velocity Kneidinger Christian, Schuschnigg Stefan, Längauer Manuel, Zitzenbacher Gernot, Miethlinger Jürgen- Austria</p>	<p><b>OP-S02-184</b> The role of process induced platelet orientation in layered flame retardants Knorr Roland, Leuteritz Andreas, Boldt Regine, Köhnert Ines, Wang DeYi, Wagenknecht Udo - Germany</p>	<p><b>OP-S02-227</b> Crystalline Nanocellulose in Biodegradable Polyester nanocomposites prepared by in situ polymerization Clarke Ashley, Vasileiou Alexandros A, Kontopoulou Mariama - Canada</p>	<p><b>OP-S06-156</b> Effects of POSS nanoparticles on the properties of PLA/TPU Blends Tucacur Kilic Nilay, Can Buse Nur, Kodal Mehmet, Ozkoc Guralp - Turkey</p>	<p><b>OP-S10-153</b> Rheological analysis of 3D printability of alginate hydrogel Li Huijun, Li Lin - Singapore</p>	<p><b>OP-S07-241</b> Enhanced Shrinkage Prediction Considering Cooling Rate Effects on PVT Costa Franco S, Cook Peter S, Zuo Zhihao- Australia</p>	<p><b>OP-S09-548</b> Using a concept of reactive compatibilizer-tracer to probe mixing performances of a twin screw extruder for reactive compatibilizing blending processes Ji Weiyun, Feng Lianfang, Gu Xueping, Zhang Cailiang, Hu Guohua-China/France</p>	<p><b>OP-S20-173</b> Chemically modified natural fiber reinforced corn starch matrix based green composites – Evaluation of thermal, morphological and mechanical properties Singha Amar Singh - India</p>
05:50-06:10 pm	<p><b>OP-S12-273</b> Preparation of PBI/Reduced-Graphene Oxide Composite Membranes by blending Method for Alkaline Direct Alcohol Fuel Cells Chang Hong-Ming, Lue Shing-jiang - Taiwan</p>	<p><b>OP-S04-636</b> A rheological and morphological study on flame retarded PP/EVA blends and its nanocomposites Razavi Aghjeh Masoud, Jafari Seyed Hassan, Khonakdar Hossein Ali- Iran/Germany</p>	<p><b>OP-S03-488</b> Flow balancing in profile extrusion dies: a novel simplified methodology Cameiro O. S., Rajkumar A., Ferrás L. L., Fernandes C., Becker M., Nóbrega J. M. - Germany</p>	<p><b>OP-S02-211</b> How can the localization of nanoparticles (silica nanospheres or kaolin nanoplatelets) into PS/PA6 blends influence the final properties? Taguet Aurélie, Otazaghine Belkacem - France</p>	<p><b>OP-S02-261</b> Chemical Modification of Graphite Oxide Sheets and Their Uses in Polyisoprene-based Nanocomposites Pazat Alice, Beyou Emmanuel, Barrès Claire, Bruno Florence, Janin Claude - France</p>	<p><b>OP-S06-775</b> Opportunities and issues in extruding biodegradable polyester blends for packaging Coltellia Maria-Beatrice, Mallegni Norma Mallegni, Cinelli Patrizia, Kazem Fehria Seyed Mohammad, Gigante Vito Gigante, Alliotta Laura, Lazzeri Andrea- Italy</p>		<p><b>OP-S07-141</b> Application of the Least Square Finite Element Method in the Interface Tracking of a Two-Phase Flow Mostafaayan Mehdi, Wiessner Sven, Heinrich Gert - Germany</p>	<p><b>OP-S09-109</b> Reactive Extrusion of Sol-Gel Silica as Fire Retardant Additive in Ethylene-Vinyl Acetate Copolymer (EVA) Composites Battezzore Daniele, Lavaselli Matteo, Frache Alberto, Li D, He J, Yang R - Italy/China</p>	
06:10-06:30 pm	<p><b>OP-S12-243</b> Analysis on crystallization behavior of oriented poly(ethylene terephthalate) fibers and films Shibata Seiji, Takarada Wataru, Kikutani Takeshi - Japan</p>	<p><b>OP-S04-470</b> Morphology-rheology relationship in thermoplastic starch/ polylactic acid blends Esmaili Mohsen, Pircheraghi Gholamreza *, Bagheri Reza- Iran</p>	<p><b>OP-S03-226</b> Existence of a critical thickness in coextruded multilayer films Bironeau Adrien, Guinault Alain, Regnier Gilles, Miquelard-Garnier Guillaume, Sollogoub Cyrille - France</p>		<p><b>OP-S02-12</b> Elaboration and characterization of nanostructured polyurethane rigid foams within the inclusion of oMMT: impact and fire proof behavior Safidine Zitouni, Mahmoud Yasmine- Algeria</p>			<p><b>OP-S07-256</b> Two phases model for highly suspended viscous flow and 3D simulation Francois Guillaume, Ville Laurence, Gallier Stany - France</p>	<p><b>OP-S09-542</b> Surface modification of bakelite particles: enhancement of their performance as a filler Bernardeau Fabien, Perrin Didier, Caro Anne-Sophie, Benezet Jean-Charles, Iemy Patrick- France</p>	
6:30-8:00 pm										

Poster Session-Part 1 (Symposia 1-10):Exhibit and poster Hall-Forum 2

## Wednesday, July 27, 2016

Chair : Phil Coates

Plenary Lecture 4: Access to new properties compromise : polyolefins-based solutions are still in the race, Olivier Lhost- Total group. Room: Auditorium Lumière

Room Change										
Room	St Clair 5	Rhone 2	Rhone 4	Rhone 3a	Rhone 3b	Auditorium Pasteur	St Clair 1a	St Clair 2	St Clair 3a	St Clair 4
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8	Session 9	Session 10
08:50 am - 12:35 pm	Blow Molding, Thermoforming and Rotomolding	Mixing and compounding	Extrusion and Extrusion Processes	Nanocomposites and filled Polymers (1)	Nanocomposites and filled Polymers (2)	Biopolymers and polymers for renewable ressources	Rheology and Rheometry	Process Modelling and simulation	Reactive Processing & High Performance Composite Processing	Special S: Microtechnology and smart materials
Chair	Marianna Kontopoulou	Sugimoto Masataka	Cakmak Mukerrem	Abdellah Ajji	Bruno Vergnes	Giuseppe Titomanlio	Joao Maia	Evan Mitsouls	Ito Hiroshi	Patrick C. Lee
08:50-09:20 am	<b>KN-S01-394</b> Particle Sintering from Rotational Molding To Additive Manufacturing <u>John Vlachopoulos</u> - Canada	<b>KN-S14-66</b> The Zsk At 60: A Retrospective Of Technology Development With A View To The Future And Growth Of Non-Traditional Applications <u>Andersen Paul</u> - USA	<b>KN-S03-39</b> Experimental measurements of pressure, temperature and residence time in a co-kneader: effect of melt viscosity. <u>Carrot Christian, Raveyre Claude, Monchatre Benjamin</u> - France	<b>KN-S02-43</b> Modeling the Percolation Behavior in Bulk and Foam Polymers with Carbon Nanofillers <u>Maxian Ondrej, Pedrazzoli Diego, Manas-Zloczower Ica</u> - USA	<b>KN-S02-312</b> Microinjection molding of polystyrene/multi-walled carbon nanotubes nanocomposites <u>Zhou Shengtai, Hrymak Andrew, Kamal Musa</u> - Canada	<b>KN-S06-331</b> Innovative renewable systems based on aliphatic-aromatic polyurethanes from different biomass. <u>Averous Luc</u> - France	<b>KN-S10-229</b> Modification of rheological responses under elongational flow <u>Yamaguchi Masayuki</u> - Japan	<b>KN-S07-532</b> Simulation of thermoplastic prepreg thermoforming based on a visco-hyperelastic model <u>Guzman-Maldonado Eduardo, Hamila Nahiene, Boisse Philippe</u> - France	<b>KN-S09-772</b> New Understanding on the formation of phase structure of Thermoplastic Vulcanizate (TPV) During Dynamic Vulcanization <u>Tian Ming, Wu Hanguang, Ning Nanyang, Tian Hongchi, Wu Youping, Zhang Liqun</u> - China	<b>KN-S19-587</b> Characterization of Origami Shape Memory Metamaterials (SMMM) Made of Bio Compatible Polymers <u>Kshad Mohamed Ali, Naguib Hani</u> - Canada
09:20-09:40 am	<b>OP-S01-9</b> Optimization Of The IR-Heating Phase In Thermoforming Of Thermoplastic Sheets: Characterization And Modelling <u>Buffel Bart, Van Mieghem Bart, Van Bael Albert, Desplentere Frederik</u> - Belgium	<b>OP-S14-38</b> Scale up of Polypropylene/Carbon Nanotubes Nanocomposites: Dispersion Improvement by Means of Simulation Software <u>Roca-Blay Luis, Galindo-Galiana Begoña</u> - Spain	<b>OP-S03-549</b> Synthesis and Tribological Investigation of PVD Hard Coatings deposited via Hybrid dcMS/HPPMS for Application in Plastics Processing <u>Bobzin Kirsten, Brögelmann Tobias, Kruppe Nathan C., Naderi Mona</u> - Germany	<b>OP-S02-249</b> Viscosity amplification in dilute suspensions of non-spherical particles in a non-Newtonian matrix fluid <u>Domurath Jan, Saphiannikova Marina, Ausias Gilles, Férec Julien, Heinrich Gert</u> - Germany	<b>OP-S02-311</b> Low Viscosity Processing To Form Electrically Conductive Epoxy Resin Composites Using Novel Hybrid Cnt-Coated Silica Particles <u>Wilkinson Arthur</u> - UK	<b>OP-S06-161</b> Innovative Phosphate-Free Alternatives for Silicate Resins Applied in Sewer Rehabilitation <u>Kopietz Mark, Grishchuk Sergiy, Wetzel Bernd</u> - Germany	<b>OP-S10-637</b> Effect of the addition of organoclay on the morphology and rheological behavior of PMMA/PS blends <u>Genoyer Julie, Yee Marcio, Soulestin Jérémie, Demarquette Nicole</u> - France	<b>OP-S07-291</b> Numerical Simulation And Validation Of The Shrink Process Of Plastic Films In Packaging Applications <u>Klein Daniel, Zimmer Johannes, Stommel Markus</u> - Germany	<b>OP-S09-763</b> Micro compounding for reliable screening of reactive extrusion (REX) processes <u>Scholten Boudewijn J.R., Looijens Ton, Ozkoc Guralp</u> - Netherlands/Turkey	<b>OP-S19-61</b> Crystalline Supramolecular Interaction of crystalline side chain and its application <u>Nakano Ryoko, Maeda Ai, Obuchi Hideaki, Tateishi Yukiko, Kanazawa Yuri, Sekiguchi Hiroshi, Yao Shigeru</u> - Japan

09:40-10:00 am	<b>OP-S01-736</b> Investigation of Halloysite as Reinforcement for Polyethylenes in Rotational Moulding <u>Höfler Günther</u> , Lin Richard J.T., Jayaraman Krishnan - NewZealand	<b>OP-S14-191</b> Investigating the Impact of Operating Conditions on the Extent of Additive Mixing in Thermoplastic Polymer System <u>Stratiychuk-Dear Dmytro</u> , Looney Kieran, Oliver Paul, Blackburn Stuart, Simmons Mark- UK	<b>OP-S03-543</b> A Novel Grooved Single Screw Extruder Design <u>Miethlinger Jürgen, Marschik Christian</u> - Austria	<b>OP-S02-276</b> The Properties of Polyethylene Nanocomposites Incorporating Cellulose Nano Crystals (CNC) <u>Kamal Musa R., Abdallah Wissam</u> , Tan Victor - Canada	<b>OP-S02-364</b> Localization of MWCNTs in EOC/COC blends <u>Hosseinpour Ali, Katbab Aliasghar, Mehranpour Milad, Nazockdast Hossein, Ghiassinejad Sina</u> - Iran	<b>OP-S06-165</b> Aqueous Latexes of Biobased Copolyesters for Paper Coating <u>Sobkowicz Margaret, Emery Kyla, Tan Bin</u> - USA	<b>OP-S10-496</b> A New Device for Measuring Shear Viscosity of Rubbers on a Rubber Injection Molding Machine <u>Fasching Michael, Friesenbichler Walter, Leitner Eduard, Berger Gerald</u> - Austria	<b>OP-S07-305</b> A macroscopic model for predicting flow induced orientation of fibers in viscoelastic fluids <u>Borzacchiello Domenico, Abisset-Chavanne Emmanuelle, Chinesta Francisco, Keunings Roland</u> - France	<b>OP-S09-272</b> Carbonyl hydrosilylation reaction in polymer processing conditions: Toward PBT/PMHS crosslinking and compatibilization <u>LL Jingping, CASSAGNAU Philippe, BOUNOR-LEGARE VERONIQUE</u> - France	<b>OP-S19-63</b> Silver Miniwires Grids Made by co-Electrospinning for Transparent Conductive Applications <u>Claracq Jerome, Bashir Mubasher, de Graaf Michael, Joo Jake</u> - USA
10:00-10:20 am	<b>OP-S01-94</b> Infrared Radiation applied to Blow Molding and thermoforming <u>Schmidt Fabrice Marie</u> , Le Maoult Yannick - France	<b>OP-S14-245</b> Effect of Compounding Method on Rheological, Thermal and Mechanical Behavior of Blast Furnace Slag Filled Polystyrene Compounds <u>Mostafa Abdelhamid, Pacher Gernot, Lucyshyn Thomas, Holzer Clemens, Flachberger Helmut, Krischey Elke, Fritz Bertram, Laske Stephan</u> - Austria	<b>OP-S03-668</b> Facile route to fabricate polymeric materials with alternating multilayer structure: toward high performances <u>Guo Shaoyun, Shen Jiabin</u> China	<b>OP-S02-346</b> Rheological and electrical properties of SEBS/MWCNT nanocomposites <u>Silva de Lima Carlos Alberto, Amurin Leice G, David Eric, Demarquette Nicole R</u> - Canada	<b>OP-S02-296</b> Polystyrene functionalized multi-walled carbon nanotubes for SEBS nanocomposites with improved conductivity <u>Santos João Paulo, Ferreira, Terzic Ivan, Loos Katja, Bretas Rosario Elida Suman</u> - Brazil	<b>OP-S06-231</b> Functionalisation of wood particles, cellulose and hemicellulose using reactive extrusion <u>Gaugler Marc, Vaidya Alankar A, Smith Dawn A</u> - NewZealand	<b>OP-S10-732</b> Rheological characterization of macromolecular colloidal gels as simulant of bronchial mucus <u>Lafforgue Olivier, Poncet Sébastien, Seyssiecq Isabelle, Favier Julien</u> - France	<b>OP-S07-308</b> Phase-field models for partially miscible systems <u>Park Jang Min</u> - SouthKorea	<b>OP-S09-728</b> Elucidation of complex structures created by reactive extrusion through coupling rheology, DOSY NMR and SEC analysis <u>Lucas Antoine, Bounor-Legaré Véronique, Cassagnau Philippe, Boisson Fernande, Crépet Agnès, Martin Gregory, Vanhille Aurélie</u> - France	<b>OP-S19-325</b> Curing and demolding behavior in R2R UV nanoimprint process <u>Taki Kentaro, Kondo Shunsuke, Ito Hiroshi</u> - Japan
10:20-10:35 am Coffee Break. Room: Exhibit and poster Hall-Forum 2										
10:35-10:55 am		<b>OP-S14-500</b> Processing and properties of PLA-HA nanocomposites: the effect of particle morphology and dispersants <u>Tomczynska Magdalena M., Choong Gabriel Y. H., Ward Michael, Canciani Alessia, Walton Kirsty, De Focatis Davide S. A., Grant David M., Irvine Derek J., Parsons Andrew J.</u> - UK	<b>OP-S03-685</b> Turnkey Extrusion Lines for Highly-Filled Compounds: Compounding of CaCo3 Formulations <u>Kretz Richard, Thummert Michael</u> Germany	<b>OP-S02-347</b> Simultaneous toughening and reinforcement in melt-processed polycarbonate-graphene composites with extremely low graphene loading <u>Wang Jianfeng, Wu Hong, Guo Shaoyun</u> - China		<b>OP-S06-179</b> Influence of Process Route on the Property Profile of Polymer Based Intravaginal Drug Delivery Systems <u>Eggenreich Karin, Schrank Simone, Koscher Gerold, Roblegg Eva, Laske Stephan, Khinast Johannes</u> - Austria	<b>OP-S10-294</b> Low Frequency Region as a Finger print to Trace Droplet Deformation <u>Hajiraissi Roozbeh, Jahani Yousef-Germany</u>	<b>OP-S07-356</b> Modelling of solid phase deformation <u>Spencer Paul, Caton-Rose Fin, Sweeney John, Coates Phil</u> - UK	<b>OP-S17-755</b> In-situ monitoring of T-RTM process: Rheokinetic investigation of polyamide 6 matrix using Rheology, Dielectric analysis and FTIR Spectroscopy <u>Dkier Mohamed, Lammawar Khalid, Maazouz Abderrahim</u> - France	<b>OP-S19-107</b> Micro-FDM Process Capability And Comparison With Micro-Injection Molding <u>Basile Vito, Pagano Claudia, Fassi Irene</u> - Italy
10:55-11:15 am	<b>OP-S01-553</b> Understanding the role of a flow modifier additive in polyethylene/carbon nanotubes-based formulations for the manufacturing by rotational molding of electrically dissipative parts at reduced CNT content <u>Lison Valérie, Rul Alicia, Hurlten Marie, De Villepin Cédric, Claes Michael</u> - Belgium	<b>OP-S14-367</b> Thermal Diffusivity Behaviour Of The High Density Polyethylene With The Addition Of Pigmentation Masterbatches <u>Castro Landinez Juan Felipe, Medina Jorge Alberto</u> - Colombia	<b>OP-S03-702</b> Numerical Investigation of Geometrical Changes in the Cooling Configuration for Improving the Output of High Capacity Blown Film Extrusion Lines <u>Neubert Benedikt Paul August, Wortberg Johannes Karl</u> - Germany	<b>OP-S02-359</b> Surfactant Mediated Synthesis of Polyaniline/Montmorillonite Clay Nanocomposites and Their Characterization <u>Upadhyaya Madhab, Kakati Dilip Kumar</u> - India	<b>OP-S02-407</b> Mechanical and Thermal Properties of Poly(Lactic Acid) with Cellulose Nanofiber Modified by Bisphenol fluorene diglycidyl ether (BPFGE) <u>Tokumitsu Katsuhisa, Terakura Kosuke, Yamada Masahiro, Sugimoto Masayuki</u> - Japan	<b>OP-S06-186</b> Effects of Particle Characteristics on Mechanical Properties of Wood Plastic Composites <u>Sälzer Philipp, Feldmann Maik, Heim Hans-Peter</u> - Germany	<b>OP-S10-503</b> Rheological modification of Novatein Thermoplastic Protein <u>Uitto Jussi, Verbeek Johan, Lay Mark</u> - NewZealand	<b>OP-S07-416</b> Modeling and Optimization of Melt Filtration Systems in Polymer Recycling <u>Pachner Sophie, Aigner Michael, Miethlinger Jürgen</u> - Austria	<b>OP-S17-402</b> Engineering Properties and Structure of Reactive Molded Polymers and Its Fiber Reinforced Composites <u>Suenaga Hiroto, Ishigami Akira, Taki Kentaro, Inoue Takashi, Ito Hiroshi</u> - Japan	<b>OP-S19-340</b> One-pot Route for Patterned Growth of Graphene from Selectively Crosslinked Polystyrene <u>Park Beomjin, Kim Jin Kon</u> - Korea

11:15-11:35 am	<b>OP-S01-19</b> Numerical Simulation of the Shaping of a Flask through the Injection Blow Moulding Single Stage Process <u>Biglione Jordan</u> , <u>Bereaux Yves</u> , <u>Charmeau Jean-Yves</u> - France	<b>OP-S14-387</b> Compression properties of the inorganic filler-thermoplastic composites <u>SANO Yukinori</u> , <u>TANAKA Tatsuya</u> , <u>BETSUDAN Midori</u> - Japan	<b>OP-S03-707</b> Melt-Mixing by Pitched-Tip Kneading Disks in a Twin-Screw Extruder- Experimental Verification - <u>Kajiwara Toshihisa</u> , <u>Nakayama Yasuya</u> , <u>Takemitsu Hiroki</u> , <u>Esaki Satoshi</u> , <u>Takeuchi Takahide</u> , <u>Kimura Koichi</u> , <u>Tomiyama Hideki</u> - Japan	<b>OP-S02-361</b> Effect of shear flow induced Nano orientation on the crystallization kinetics of polypropylene/MWCNT Nano composites <u>Alimoradi Younes</u> , <u>Nazockdast Hossein</u> , <u>Javadi Azizeh</u> - Iran	<b>OP-S02-414</b> Effect of modified graphene oxide on the thermal conductivity of epoxy composites <u>Shen Yucai</u> , <u>Zhang Yuwei</u> , <u>Shi Kunxiang</u> , <u>Wang Tingwei</u> - China	<b>OP-S06-209</b> Crystallization of PLA: overall kinetics and morphology development <u>REFAA Zakariaa</u> , <u>Boutaous Mhamed</u> , <u>XIN Shihe</u> - France	<b>OP-S10-451</b> Rheological Properties Of Highly Filled Ferrite/Polypropylene In The Molten State <u>Rueda Martha Margarita</u> , <u>Fulchiron René</u> , <u>Prebe Arnaud</u> , <u>Martin Grégory</u> , <u>Cassagnau Ph</u> - France	<b>OP-S07-440</b> Crystallization Study Under Processing Conditions: High Cooling Rate And High Pressure <u>Pignon Baptiste</u> , <u>Boyard Nicolas</u> , <u>Sobotka Vincent</u> , <u>Delannay Didier</u> - France	<b>OP-S09-771</b> Improving the actuated performance of graphene/dielectric elastomers composites by using some new methods <u>Ning Nanying</u> , <u>Ma Qin</u> , <u>Liu Suting</u> , <u>Zan Xiaoping</u> , <u>Tian Ming</u> , <u>Zhang Liqun</u> - China
11:35-11:55 am	<b>OP-S01-628</b> Effect of Molecular Weight Distribution on the Thermal and Physical-Mechanical Properties of High Density Polyethylene Blow Molding Grade <u>Afzali Kamal</u> , <u>Keshavarzian Ali</u> - Iran	<b>OP-S14-415</b> Modelling Mechanical Properties of Glass and Basalt Fiber Filled Thermoplastics <u>Bruchmüller Matthias</u> , <u>Koch Michael</u> , <u>Geis Julius</u> , <u>Schneidmadel Stefan</u> - Germany	<b>OP-S03-730</b> Die build-up issues in extrusion - Tailor made fluoropolymers as useful and efficient processing aids <u>Angrall Florent</u> , <u>Devisme Samuel</u> , <u>BEAUME François</u> - France	<b>OP-S02-339</b> AC Electrical Conductivity, Shielding Effectiveness and viscoelastic characteristics of Nanocomposites based on RTV Silicon Rubber and Nano Graphite Sheets/Carbon Black hybrid system <u>Jeddi Javad</u> , <u>Katbab Ali Asghar</u> - Iran	<b>OP-S02-434</b> Nitrogen Doped Carbon Nanotube/Polyvinylidene Fluoride Nanocomposites: Synthesis, Morphology, Rheology, and Electrical Properties <u>Sundararaj Uttandaraman</u> , <u>Arjmand Mohammad</u> , <u>Sadeghi Soheil</u> - Canada	<b>OP-S06-258</b> Cellulose-xyloglucan composite film processing using ionic liquids as co-solvents <u>Bendaoud Amine</u> , <u>Maigret Jean-Eudes</u> , <u>Leroy Eric</u> , <u>Cathala Bernard</u> , <u>Lourdin Denis</u> - France	<b>OP-S10-471</b> Determination of the rheological behavior from highly filled phenolic injection molding compounds <u>Scheffler Thomas</u> - Germany	<b>OP-S07-466</b> Effect of crystallization on PEEK bearing components <u>Schaake Richard Pieter</u> , <u>Fan Jiyang</u> , <u>Weigand Jeremy Joseph</u> , <u>Williams Jason Louis</u> , <u>Rhoades Alicyn Marie</u> - Netherlands	<b>OP-S09-676</b> Adhesion development and water ageing resistance in multilayer pipes for sanitary and hot water transport <u>Rondin Jerome</u> - France
11:55am-12:15 pm		<b>OP-S14-423</b> Influence of metal composition in Zn/Mg LDH flame retardant polypropylene nanocomposites <u>Leuteritz Andreas</u> , <u>Spörer Yvonne</u> , <u>Wang De-Yi</u> , <u>Kuelhert Ines</u> - Germany		<b>OP-S02-428</b> Effect of Stearic Acid on the yield stress and relative viscosity – from low filler content to highly filled zirconia suspensions. <u>Auscher Marie-Camille</u> , <u>Cassagnau Philippe</u> , <u>Fulchiron René</u> , <u>Pétrié Thomas</u> - France	<b>OP-S06-262</b> Chemo-enzymatic synthesis and polymerizations of bio-based bisphenols derived from lignin: an access to novel 100% renewable antioxidants and alternating aromatic/aliphatic polymers <u>Allais Florent</u> - France		<b>OP-S07-493</b> Characterization of the constitutive behaviour of aPET in the stretch blow moulding process <u>Yan Shiyong</u> , <u>Menary Gary</u> , <u>Nixon James</u> - UK	<b>OP-S09-768</b> Insitu Polymerization of Lauro lactam towards Polyamide 12: Investigating the Effect of Catalyst And Activator <u>faridi rad Farzaneh</u> , <u>Ahmadi Shervin</u> , <u>Barmar Mohammad</u> - Iran	
12:15-12:35 pm							<b>OP-S07-499</b> Experimental Study of Polymer Degassing in an Agitator Vessel <u>Hirschfeld Stefan</u> , <u>Wünsch Olaf</u> - Germany		

12:35 -02:00 pm

Lunch Break. PPS business meeting in Room 3- (Only PPS members/delegate Room: Salon Pasteur)

Wednesday, July 27, 2016

Chair : Chris Macosko

02:00-02:45 pm Plenary Lecture 5: From wall slip, extrusion instabilities to melt fracture: can nonlinear rheology of entangled polymers be useful to polymer processing? Wang Shi-Qing (U. of Akron- USA).

Room: Auditorium Lumière

02:45-03:00 pm Presentation of the coming international and regional PPS conferences. Room: Auditorium Lumière

03:00-03:05 pm

Room Change

Room	St Clair 5	Rhone 2	Rhone 1	Rhone 3a	Rhone 3b	Auditorium Pasteur	Rhone 4	St Clair 2	St Clair 1a	St Clair 3a
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8	Session 9	Session 10
03:05-05:50 pm	Blow Molding, Thermoforming and Rotomolding	Mixing and compounding	Injection Molding and Molds	Nanocomposites and filled Polymers	Polymer Foams and Lightweight structures	Biopolymers and polymers for renewable ressources	Morphology and Structure Development	Process Modelling and simulation	Rheology and Rheometry	Special S: High Performance Composite Processing
Chair	John Vlachopoulos	Manfred Wilhelm	Shih-Jung Liu	Holzer Clemens H.	Chul Park	Ica Manas-Zloczower	Kinsuk Naskar	Tim Osswald	Yamaguchi Masayuki	Brigitte Defoort

03:05-03:35 pm	<p><b>KN-S01-764</b> Towards Cellular Plastic Composites Blown With Physical Blowing Agents In Rotational Molding <u>Pop-Iliev Remon</u> Canada</p>	<p><b>KN-S14-611</b> Extensional Mixing Elements for Twin-Screw Extrusion: Computational and Experimental Validation For Liquid-Liquid and Liquid-Solid Systems <u>Maia Joao</u>, Carson Sidney, Covas Jose - USA/Portugal</p>	<p><b>KN-S13-250</b> Design And Simulation Of Conformal Cooling Channels In SLM Produced Injection Molds: Effects On Process And Product Quality <u>Six Wim</u>, Appermont Raf, Desplentere Frederik, De Keyzer Jozefien, Van Bael Albert - Belgium</p>	<p><b>KN-S02-373</b> Modification of filler as an effective way to enhance properties of epoxy composites used in electrical devices <u>Rybak Andrzej</u> - Poland</p>	<p><b>KN-S05-528</b> Open Cell Aerogel Foams <u>Gu Senlong</u>, <u>Jana Sadhan C.</u> USA</p>	<p><b>KN-S06-716</b> Design, preparation and properties of bio-based elastomer composites <u>Zhang Liqun</u> - China</p>	<p><b>KN-S15-482</b> Enhancing the conductivity of carbon nanotube filled blends by tuning their phase separated morphology with a random or block copolymer <u>Cardinaels Ruth</u>, Bharati Avani, Seo Jin Won, Wübhenhorst Michael, Moldenaers Paula - Netherlands</p>	<p><b>KN-S07-649</b> Simulation of Long Fiber Orientation during Injection Molding in the Presence of Fiber Breakage <u>Baird Donald</u>, Chen Hongyu, Lambert Greg - USA</p>	<p><b>KN-S10-540</b> In-process rheo-optical characterization of polymer systems at constant extrusion conditions <u>Teixeira Paulo F</u>, Hilliou Loic, <u>Covas Jose A</u> - Portugal</p>	<p><b>KN-S17-770</b> Manufacturing of CFRP with Epoxy and Polyurethane Systems in HP- RTM Process and Investigation of the Matrix Influence on the Laminate Properties <u>Felix Behnisch</u>, Timo Huber, Rosenberg Philipp, Weidenmann Kay André, Henning Frank - Germany</p>
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03:35-03:55 pm	<p><b>OP-S01-246</b> Modelling and Prototyping of the Centrifugal Casting Process of Paraffin-Based Thermoplastic Polymers <u>Masato Davide</u>, <u>Lucchetta Giovanni</u> Italy</p>	<p><b>OP-S14-506</b> Modelling and Optimization of the Cavity Transfer Mixer <u>Grosso Giovanna</u>, Hulsen Martien A., Fard Arash Sarhangi, Overend Andrew, Anderson Patrick D. Netherlands</p>	<p><b>OP-S13-52</b> Study on the Fiber Breakage History through a Barrier Structure Screw in Injection Molding <u>Huang Chao-Tsai</u>, Tseng Huan-Chang, Chang Rong-Yeu, Hwang Sheng-Jye - Taiwan</p>	<p><b>OP-S02-478</b> Microcapsules of Poly(methyl methacrylate) Containing Epoxy Resin and Multi-Walled Carbon Nanotubes <u>Icdygu Mehmet Galip</u>, Asilturk Meltem, <u>M. Cengiz Altan</u> - USA</p>	<p><b>OP-S05-514</b> Artificial Aging and Failure Modes of TPU-Metal Hybrid Composites <u>Puentes Parodi Jaime Alejandro</u>, <u>Kuehnert Ines</u>, Leuteritz Andreas - Germany</p>	<p><b>OP-S06-267</b> Molecular insight on the interaction between PLLA and a self-assemble nucleating agent: the mechanism of the crystallization enhancement and the control of the crystalline morphology <u>Li Chunhai</u> - China</p>	<p><b>OP-S15-591</b> Use of Antimicrobial Miscanthus x giganteus stem fragment-reinforced polypropylene composites. Influence of a compatibilizer on the isothermal crystallization kinetics <u>parallel Patrick Navard</u>, Girones Jordi, Freire Lionel, Haudin Jean-Marc - France</p>	<p><b>OP-S07-530</b> Modeling Devolatilization in Single-Screw and Multi-Screw Extruders <u>Marschik Christian</u>, Löw-Baselli Bernhard, Miethlinger Jürgen - Austria</p>	<p><b>OP-S10-217</b> Processability and rheological properties of extensively recycled high density polyethylene (HDPE) <u>Oblak Pavel</u>, Gutierrez Joamin Gonzalez, Zupancic Barbara, Aulova Alexandra, Emri Igor - Slovenia</p>	<p><b>OP-S17-84</b> Compression moulding of LFT components with increased quality by variothermal mould technology <u>Hopmann Christian</u>, Beste Christian, <u>Boettcher Arne</u>, Fischer Kai - Germany</p>
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03:55-04:15 pm	<p><b>OP-S01-541</b> Identification of the temperature-dependent relation between thermo-optical properties and morphology of semi-crystalline thermoplastics for thermoforming process <u>Boztepe Sinan</u>, De Almeida Olivier, Le Maout Yannick, Schmidt Fabrice France</p>	<p><b>OP-S14-517</b> An Investigation on Dispersion State of Graphene in Polypropylene/Graphite Nanocomposite with Extensional Flow Mixing <u>Matsumoto Koki</u>, Nakade Yoji, Sugimoto Keita, Tanaka Tatsuya - Japan</p>	<p><b>OP-S13-119</b> Modular Technological Inserts for Injection Molding Machines <u>Schneider Dorothea</u>, Schtipbach Kurt, <u>Reichert Volker</u> - Germany</p>	<p><b>OP-S02-481</b> Improvement of the Mechanical and Electrical Properties of Technical Thermoplastics by Utilizing 2nd Generation Layered Silicates <u>Altstädt Volker</u>, Breu Josef - Germany</p>	<p><b>OP-S05-552</b> A new understand on the formation mechanism of bimodal polymer foams by a two-step depressurization process <u>Li Cong</u>, Feng Lianfang, Gu Xueping, <u>Zhang Cailiang</u>, Hu Guohua - China/France</p>	<p><b>OP-S06-292</b> Properties And Processing Of Pla/Ether-Amide Copolymer Blends <u>Heuzey Marie-Claude</u>, Huneault Michel, <u>Jauzein Thibault Henri</u> - Canada</p>	<p><b>OP-S15-212</b> Study of poly (lactic) acid casting film process: structure-process relationship <u>Houichi Hikmet</u>-France/Tunisia</p>	<p><b>OP-S07-602</b> Numerical simulation of the filling phase in the micro injection molding process for a three dimensional micro gear. <u>Karim Saidi</u>, Elotmani Rabie, Monkade Mohamed, Kandoussi Khalid, Chhiti Younes, Amrani Hicham - Morocco</p>	<p><b>OP-S10-788</b> Humidity Controlled Rheology for the Study of Polymers <u>Führer Roman</u>, Läger Jörg, Arnold Gunther - Germany</p>	<p><b>OP-S17-777</b> Mechanical, electrical, dielectric and thermal property of Polyvinylidene fluoride (PVDF)/Conducting Carbon Black (CCB) and Poly(vinylidene fluoride-cohexafluoropropylene) (PVDF-HFP)/(CCB) composites <u>Ram Ranvijai</u>, Khashtgir Dipak - India</p>
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04:15-04:35 pm	<b>OP-S01-218</b> Effect of PET moisture content during ISBM bottle formation <u>Nixon James</u> UK	<b>OP-S14-563</b> A New Sample Preparation Method to Investigate Melting Phenomena within a Partly Filled Melting Zone Of Co-Rotating Twin Screw Extruders <u>Scharr Kim Jacqueline, Westhues Tobias, Frauke Reinders, Schöppler Volker</u> - Germany	<b>OP-S13-125</b> Simulation of the Influence of Thermal Properties of the Mould Steel on the Injection Moulding Process <u>Holzer Clemens H., Lucyshyn Thomas, Des Enffians d'Avernas Lara-Vanessa</u> - Austria	<b>OP-S02-529</b> Functionally gradient polyvinyl alcohol based nano-hydroxyapatite loaded material for osteochondral defect treatment <u>Ryabenkova Yulia, Pattinson Andrew, Coates Phil, Twigg Peter</u> - UK	<b>OP-S05-665</b> Icrocellular Foaming of Silicone with CO2 <u>Métivier Thibaud, Cassagnau Philippe, Vanhille Aurélie, Forest Charlène, Martin Gregory</u> - France	<b>OP-S06-293</b> A New Biobased Polyol That Can Be An Alternative To Castor Oil In Polymer Formulations <u>Omonov Tolibjon S., Kharraz Ereddad, Grushcow Jack, Curtis Jonathan</u> - Canada	<b>OP-S15-357</b> Numerical And Morphological Studies Of Polymer Micro Gear In Micro Injection Molding Process <u>Rabie El Otmani, Kamal Musa, Derdouri Salim, Boutaous Mhamed</u> - Morocco	<b>OP-S07-571</b> Assessing A Completely Digital Component Design Of Short Glass Fibre Reinforced Composite Injection Mouldings <u>Caton-Rose Fin, Hine Peter</u> - UK	<b>OP-S10-438</b> In Situ Conductivity Measurement During Extensional Deformation Of HIPS Filled With Carbon Nanotubes <u>Marcourt Marjorie, Fulchiron René, Cassagnau Philippe, Rousseau Dimitri, Lhost Olivier</u> - France	<b>OP-S17-551</b> Analysis of the State of Tension at the Bonding Area Between Components of a Full Thermoplastic Hybrid Composite <u>Giusti Ruggero, Lucchetta Giovanni</u> - Italy	
<b>Coffee Break. Room: Exhibit and poster Hall-Forum 2</b>											
04:35-04:50 pm											
04:50-05:10pm			<b>OP-S13-100</b> Melt Processed and Self-reinforced Ultrahigh Molecular Weight Polyethylene Used for Total Joint Replacement <u>Huang Yan-Fei, Xu Jia-Zhuang, Li Zhong-Ming</u> - China	<b>OP-S02-681</b> Effect of Carbon Nano Tube (CNT) on PA/PE base Shape memory alloy <u>Mehranpour Milad, Mohammadi Seyed Ali, Ghasemi Ismail</u> - Iran	<b>OP-S05-761</b> Effects of saturation temperature/pressure on melting behavior and cell structure of expanded polyethylene bead <u>Guo Peng, Xu Yaohui, Lu Mingfu, Zhang Shijun</u> - China	<b>OP-S06-368</b> Blends Based on Branched Biodegradable Functional Polymers with Controlled Macromolecular Design and Functionality <u>Belkhir Kedaï, Jegat Corinne, Taha Mohamed</u> - France	<b>OP-S15-630</b> Confined Crystallization of PLLA in Nanolayered Films <u>Nassar Samira Fernandes, Stoclet Gregory, Guinault Alain, Sollogouk Cyrille, Delpouve Nicolas, Domenek Sandra</u> - France			<b>OP-S17-332</b> Some New Results in Optimal Fluid Infiltration in a Flexible Permeable Substrate Moving Past a Rigid Cylinder <u>Polychronopoulos Nickolas D., Papathanasiou T. D.</u> - Greece	
05:10-05:30 pm			<b>OP-S13-518</b> Assembly injection molding of hard-soft material composites: Processing and adhesive strength test <u>Kuehnert Ines, Zimmermann Martin</u> - Germany			<b>OP-S05-427</b> Preparation and Properties of Low Density Polyethylene-Activated Carbon Composite foams <u>Jariyakun Kotchaporn, Pomrawan Thongchai, Aussawasathien Darnee, Hrimchum Kittipong, Yeetsorn Rungsima, Prissanaroon-Ouajai Walaiporn</u> - Thailand	<b>OP-S06-351</b> Modelling Of The Fiber Morphology Changes During The Preparation Of Polypropylene-Lignocellulosic Fiber Composites By Twin Screw Extrusion <u>Berzin Françoise, Beaugrand Johnny, Dobosz Simon, di Giuseppe Erika, Vergnes Bruno</u> - France	<b>OP-S15-335</b> Structural recovery mechanism of multi-walled carbon nanotube in a simple shear flow <u>Ghiassinejad Sina, Ranjbar Behnaz, Katbab Ali Asghar, Hosseinpour Ali, Nazockdast Hossein</u> - Iran	<b>OP-S17-188</b> Preparation and Selective Laser Sintering of PA11/ TiBaO3 Piezoelectric Composite Powders <u>Chen Ning, Qi Fangwei, Wang Qi</u> - China		
05:30-05:50 pm			<b>OP-S13-765</b> Design and Fabrication of Injection Mold Using Gypsum <u>Lin Chung-Chih, Lee Bean-Yin, Chen Jem-Yih, Lee Guo-How</u> - Taiwan			<b>OP-S05-557</b> Effect of processing conditions on the cell morphology distribution in foamed injection molded PLA samples <u>Volpe Valentina, De Filitto Martina, Kiofacova Vera, De Santis Felice, Pantani Roberto</u> - Italy/ Czech	<b>OP-S06-384</b> Shape memory performances of thermoplastic polyurethane/polycaprolactone multilayer materials <u>Zheng Yu, Shen Jiabin, Guo Shaoyun</u> - China				
05:50-08:00 pm	<b>Free time for visit of Lyon - Cf. Social Program</b>										
<b>Banquet Party , Brasserie George , 30, Cours de Verdun, 69002 LYON Perrache. 08:00pm-11:00pm</b>											

Thursday, July 28, 2016

Chair : Ica Manas-Zloczower

Plenary Lecture 6 : (Morand Lambla Award Plenary Lecture): Dynamically Cross-linked Thermoplastic Elastomers: Pros and Cons of Various Cross-linking Routes-(Kinsuk Naskar-India Room: Auditorium Lumière

08:00-08:45 am	Room Change								
Room	Rhone 1 Session 1	Rhone 2 Session 2	St Clair 1a Session 3	Rhone 3a Session 4	Rhone 3b Session 5	Auditorium Pasteur Session 6	St Clair 2 Session 7	Rhone 4 Session 8	St Clair 3a Session 9
08:50-12:35 pm	Injection Molding and Molds	Elastomers and Thermoplastic elastomers	Fibers, Films, and Membranes	Nanocomposites and filled Polymers	Process Modelling and simulation	Biopolymers and polymers for renewable resources	Special S: Recycling, Plastic Solutions for Eco-Conception	Morphology and Structure Development	Special S: Additive Manufacturing for Plastic components
Chair	Avraam I. Isayev	Liqun Zhang	Takeshi Kikutani	Samuel Kenig	Jean-François Agassant	Luc Avérous	Kim Ragaert	Eric Baer	Manfred Schmidt
08:50-09:20 am	<b>KN-S13-448</b> PEEK crystallisation phases analysis in microinjection moulding <u>Tuinea-Bobe Cristina Luminita, Xia Hesheng, Liu Yan, Whiteside Ben R, Coates Phil D, Fei Guoxia - UK</u>	<b>KN-S11-520</b> Improved dispersion of carbon black in rubber compounds for manufacturing low rolling resistance tires <u>Jana Sadhan C., Raut Prasad, Swanson Nicole, Pugh Coleen - USA</u>	<b>KN-S12-15</b> PVOH Based Barrier Coatings: A Matter of Interface Silverwood <u>Richard James, Ballen Claudia Yaneth, Tabatabaei Seyed Hesamoddin, Ajji Abdellah - Canada</u>	<b>KN-S02-750</b> Toughening Polymers with Functionalize Graphene Oxide <u>Macosko Chris - USA</u>	<b>KN-S07-669</b> Process Modeling of Flow and Heat Transfer in Thermoset Pultrusion <u>Simacek Pavel, Sas Hatice, Advani Suresh - USA</u>		<b>KN-S16-196</b> Decrosslinking Of Peroxide Crosslinked Hdpe Using Ultrasonic Twin Screw Extrusion: Simulation And Experiment <u>Isayev Avraam I. -USA</u>	<b>KN-S15-97</b> Measuring and Modelling Multiple Phases & Multiple Morphologies in Isotactic Polypropylene <u>Peters Gerrit W.M., Roozemoond Peter-Netherlands,</u>	<b>KN-S18-269</b> Crosslinking of Laser Sintered Polyamide 12 and Polyethylene Parts <u>Wegner Andreas - Germany</u>
09:20-09:40 am	<b>OP-S13-158</b> Characterization of the Welding of Thermoplastic Sheathing of Offshore Pipelines <u>Aris-Brosou Margaux, Agassant Jean-François, Billon Noëlle, Vincent Michel, Hoffmann Philippe, Popineau Sylvain - France</u>	<b>OP-S11-31</b> Secondary Crystallization and Aging in Ethylene-Based Carboxylic Acid Ionomers <u>Grady Brian- USA</u>	<b>OP-S12-282</b> Hydrophilization of electrospun mats by blending with amphiphilic PEO-PPO-PEO copolymers <u>Kurusu Rafael, Demarquette Nicole - Canada</u>	<b>OP-S02-629</b> Properties of polymer /CNC nanocomposites <u>Carreau Pierre J - Canada</u>	<b>OP-S07-633</b> 3D Viscoelastic Flow with Free and Moving Boundaries Using a Stabilized Finite Element Method <u>Rao Rekha R, Hariprasad Daniel, Ortiz Weston, Secor Robert, Schunk P. Randall- USA</u>	<b>OP-S06-459</b> Reinforcement of Thermoplastic Protein Using Polymorphs of Titanium dioxide <u>Verbeek Johan, Khanna Jai, Bier Jim - NewZealand</u>	<b>OP-S16-134</b> Green composite materials with enhanced stiffness and impact resistance <u>Oguz Oguzhan, Menciloglu Yusuf Ziya- Turkey</u>	<b>OP-S15-60</b> Structure construction of amorphous polymer at long time region and their mechanical properties. Oda Naoto, Nakano Ryoko, Sekiguchi Hiroshi, Yao Shigeru- Japan	<b>OP-S18-20</b> Nanomanufacturing Processes for Printed Polymer Structures <u>Mead Joey, Barry Carol - USA</u>

09:40-10:00 am	<b>OP-S13-178</b> Molecular Orientation and Residual Stresses Impact on Optical Properties of Plastic Lenses Koch Michael, <u>Schneidmadel Stefan</u> , Qin Xiang - Germany	<b>OP-S11-104</b> Structure- Property Relationship in Ethylene Octene Copolymer (EOC) - Polydimethyl Siloxane (PDMS) based TPEs for cable insulation applications <u>R Padmanabhan</u> , Naskar Kinsuk, Nando Golok- India	<b>OP-S12-297</b> Multi-scale simulation for melt spinning process - Analysis of entanglement and orientation <u>Sato Takeshi</u> , Taniguchi Takashi - Japan	<b>OP-S02-592</b> Electrical Conductivity and Crystallization Behavior of Polypropylene in the Presence of Supercritical Carbon Dioxide and Multiwalled Carbon Nanotubes Yasamin, Kakroodi Adel Ramezani, Wang Sai, Ameli Aboutaleb, Filleter Tobin, <u>Park Chul B</u> - Canada	<b>OP-S07-696</b> Experimental characterisation and identification of elastic-viscoplastic polymer properties used in hot embossing process CHENG Gang, <u>Barrière Thierry</u> , Gelin Jean-Claude, Sahli Mohamed- France	<b>OP-S06-120</b> The effects of morphological manipulations on the characteristics of polylactic acid (PLA)/nanofibrillar nylon-6 blends Ramezani <u>Kakroodi Adel</u> , Kazemi Yasamin, Ding Weidan, Ameli Aboutaleb, Park Chul - Canada/USA	<b>OP-S16-202</b> Graphene nanosheets: a promising multifunctional antioxidant to improve the thermo-oxidative stability of isotactic polypropylene <u>Li Guangxian</u> , Huang Yajiang, Yang Junlong, Liu Shixiang, Zhao Jincan - China	<b>OP-S15-408</b> Linear and Branched Polybutylene Succinate Blends for Packaging Applications: From Rheological Behavior to Functional Properties of Films <u>Bourg Violette</u> , Lemly Patrick, Le Moigne Nicolas , Guillard Valérie, Bergeret Anne - France	<b>OP-S18-23</b> Quality Improvement of FDM Parts by Parameter Optimization <u>Knoop Frederick</u> , Kloke Agnes, Schoepner Volker - Germany
10:00-10:20 am	<b>OP-S13-195</b> Unusual Tiger-striped Flow Mark Patterns Appeared in Injection Moldings of Polypropylene/Talc Compounds <u>Maeda Shuichi</u> - Japan	<b>OP-S11-740</b> A comparison of melt and solution mixing on the dispersion of carbon nanotubes in a styrene-isoprene-styrene block copolymer <u>Santos João Paulo Ferreira</u> , Melo Guilherme Henrique França, Nascimento Cassia, Bretas Rosario Elida Suman - Brazil	<b>OP-S12-306</b> Structure and properties of melt-spun fibers of polyethylene blended with cellulose fibers Sekiguchi Yuta, Takarada Wataru, <u>Kikutani Takeshi</u> - Japan	<b>OP-S02-594</b> Dielectric Properties of PC/PVDF/MWCNT nanocomposites: Effect of Nanoparticle Localization Ahmadi Hamid, Hosseini Seyed mohammad, <u>Javadi Azizeh</u> , Nazokdast Hossein - Iran	<b>OP-S07-704</b> Prediction of Cross-Sectional Shape at Die Exit on Film Casting Process by Viscoelastic Flow Simulation <u>Tanoue Shuichi</u> , Uematsu Hideyuki, Iemoto Yoshiyuki- Japan	<b>OP-S06-566</b> Synthesis of thermoreversible and biodegradable polyglycolic-acid-based networks <u>Mhiri Sirine</u> , Mignard Nathalie, Abid Majdi, Abid Souhir, Taha Mohamed - France/Tunisia	<b>OP-S16-257</b> Manufacturing and characterization of thermoplastic composite of hemp shives and recycled expanded polystyrene <u>Almusawi Aqil Mousa</u> , Lachat Remy, Atcholi Kokou Esso, Tie Bi Salima - France	<b>OP-S15-278</b> SECA: A novel method to use the crystallization behavior for investigation of the thermal short time stability of semicrystalline polymers <u>Schawe Jürgen E.K.</u> - Switzerland	<b>OP-S18-91</b> FDM Bond Strength: Experiments and Simulations Based on Healing Models <u>Coogan Timothy J.</u> , Kazmer David - USA
10:20-10:35 am <b>Coffee Break. Room: Exhibit and poster Hall-Forum 2</b>									
10:35-10:55 am	<b>OP-S13-240</b> Taking into account normal stresses during simulation of thermoplastic injection molding <u>Bakharev Alexander</u> , Ray Shishir, Costa Franco, Asbury David, Speight Russell- Australia	<b>OP-S11-420</b> The Adhesion of LSR Polycarbonate Composites after Various Secondary Treatment Processes <u>Rüppel Amette</u> , Hartung Michael, Giesen Ralf-Urs, Heim Hans-Peter- Germany	<b>OP-S12-502</b> Melt spinning of modified PP and PP/EOC blends prepared by continuous electron induced reactive processing Al Rahhal Samer, <u>Brünic Harald</u> , Gohs Uwe, Heinrich Gert - Germany	<b>OP-S02-603</b> Melt mixing functionalized graphite nanoplates into PC/SAN blends <u>Paiva Maria C.</u> , Cunha Eunice P, Voigt Oliver, Liebscher Marco, Simon Frank, Pionteck Jurgen, Pötschke Petra- Germany	<b>OP-S07-718</b> Modeling and characterization of Bush aircraft tire <u>ELIAS-BIREMBAUX L. Hélène</u> , Arif Nadia, ROSU Iulian, LEBON Frédéric-France	<b>OP-S06-644</b> Cellulose aerogels and cryogels: structure-properties correlations Buchtová Nela, Bouvard Jean-Luc, Pradille Christophe, <u>Buchtová Tatiana</u> - France	<b>OP-S16-388</b> Adsorption Mechanisms of Emulsified Crude Oil Droplets onto Hydrophilic Open-Cell Polymer Foams <u>Cherukupally Pavan</u> , Hinesroza Juan P, Farnood Ramin, Bilton Amy M, Park Chul B - Canada	<b>KN-S15-608</b> Orientation of nanolayers and crystalline lamellae in blown films of PP-clay nanocomposites <u>Ren Wejije</u> , <u>Jayaraman Krishnamurthy</u> - USA (30min)	<b>OP-S18-176</b> Insights into the development of a short fiber reinforced polypropylene for laser sintering <u>Kleijnen Rob</u> , Sesseg Jens, Schmid Manfred, Wegener Konrad- Switzerland
10:55-11:15 am	<b>OP-S13-248</b> Effects of different mould coatings on polymer filling flow in thin-wall injection moulding <u>Sorgato Marco</u> , Masato Davide, Lucchetta Giovanni - Italy	<b>OP-S11-193</b> Characterization of the Temperature Profile during Dosing of Different Rubber Compounds under Steady State Conditions by Means of a Specially Designed Screw Test Stand <u>Kerschbaumer Roman Christopher</u> , Lechner Bernhard, Friesenbichler Walter- Austria	<b>OP-S12-559</b> A new process to convert proton exchange membranes into high performances and reliable hybrid membranes for fuel cell Cosas Fernandes Joao Paulo, <u>Gonon Laurent</u> , Mareau Vincent, Mendil-Jakani Hakima - France	<b>OP-S02-609</b> Multiwalled Carbon Nanotubes Based Polypropylene Composites: Role of Interfacial Interaction <u>Bhattacharyya Arup R.</u> , Parija Suchitra - Australia	<b>OP-S07-616</b> A Computational Study of the Rheology and Structure of Surfactant or Co-Polymer Covered Droplets <u>Maia Joao</u> , Boromand Arman- USA	<b>OP-S06-627</b> Modification of Isolated Microcrystalline Cellulose from Sugarcane Bagasse to Water-Soluble Sulfonated Cellulose <u>Manuspiva Hathairam</u> , Thiangtham Satita- Thailand	<b>OP-S16-742</b> Recycled plastic boxes of automotive batteries: effect of the reprocessing number on the mechanical properties Tavares Beatriz, FRESSATO DAYANNY C. F., Leão Alcides L, <u>Chaves Marcia R. M.</u> - Brazil		<b>OP-S18-254</b> Viscoelastic modelling of gas pore collapse during polymer sintering <u>Alig Ingo</u> , Wohlgenuth Florian - Germany

11:15-11:35 am	<p><b>OP-S13-417</b> The Influence of Polymer Viscoelasticity on the Optical Features during an Optical Lens Development <u>Lin Gwo-Geng - Chao-Tsai Huang</u> Taiwan</p>	<p><b>OP-S11-310</b> The Effect of Lipid Absorption on the Mechanical Properties of Poly(Styrene-Block-Isobutylene-Block-Styrene) For Use In Biomedical Applications <u>Damley-Strnad Alexandra</u>, Fittipaldi Mauro, Morales Brigitte, Grace Landon - USA</p>	<p><b>OP-S12-510</b> Design of nanoscale polymeric building blocks for high efficiency separation processes <u>Jana Sadhan C.</u>, Kim Sung Jun C., Gu Senlong C., Rajgarhia Stuti C. USA</p>	<p><b>OP-S02-622</b> Effect of different mineral fillers on rheological and mechanical properties of Poly(lactide/Poly(methyl methacrylate) blends Gonzalez Mauricio, Shabbikian Shant, <u>Huneault Michel A</u> - Canada</p>	<p><b>OP-S07-614</b> Evaluation of Melt Cooling Prediction and Determination of HTC Values for Microinjection Moulding <u>Babenko Maksims</u>- UK</p>	<p><b>OP-S06-640</b> Synthesis of new drug-phosphorus dendrimer conjugates and their evaluation as anticancer agents <u>El Kazzouli Saïd</u>, El Brahmî Nabil, Mignani Serge, Cresteil Thierry, Bousmina Mosto, Majoral Jean-Pierre- Morocco</p>	<p><b>OP-S15-304</b> Enhanced thermal conductivity of oriented boron nitride/polymer composites prepared through multistage stretching extrusion <u>Zhang Xiaomeng</u>, Zhang Jiajia, Wu Hong, Guo Shaoyun- China</p>	<p><b>OP-S18-338</b> Screening methodology for the identification of new polymers for Laser Sintering <u>Verbelen Leander</u>, Van Puyvelde Peter- Belgium</p>
11:35am-11:55 am	<p><b>OP-S13-421</b> The Influence of the Process Parameters in Multi-Component Injection Molding on the Composite Adhesion of the Material Combination PA6 with Self-Adhesive Liquid Silicone Rubber (LSR) <u>Hartung Michael</u>, Heim Hans-Peter, Giesen Ralf-Urs - Germany</p>	<p><b>OP-S11-437</b> Impact Of Fillers/Matrix Coupling On Rheological Behavior Of Silica/Rubber Nanocomposites <u>Yrieix Marie</u>, Majesté Jean-Charles, Doméjean Hugo, Valtier Michel - France</p>		<p><b>OP-S02-612</b> Reinforcing a Poly(ethylene oxide) using Nanocrystalline Cellulose : dispersion of the filler in a melt process <u>Gassiot-Talabot Alix</u>, Desse Melinda, Sanchez Jean-Yves, Carrot Christian - France</p>	<p><b>OP-S07-252</b> On The Numerical Thermo-rheological-kinetical modeling Of Fibre-reinforced Composites <u>Salazar Betancourt Luis Fernando</u>, Laure Patrice, Silva Luisa, Sager Mustafa - France</p>	<p><b>OP-S06-365</b> Preparation and Characterization of PLA-grafted-TiO<sub>2</sub>/PLA Nanocomposite Films with Enhanced Microstructure, Photodegradability and Antibacterial Properties, for Food Packaging Applications <u>Rabiei Tabriz Kamand</u>, Katbab Ali Asghar- Iran</p>	<p><b>OP-S15-92</b> The Effect of Injection Moulding Temperature on PET Particles/Fibrils in PP/PET Blends and MFCs <u>Kuzmanovic Maja</u>, Delva Laurens, Ragaert Kim, Cardon Ludwig- Belgium</p>	<p><b>OP-S18-631</b> Highly filled self-assembled nanocomposites containing Layered Double Hydroxides (LDH) nanoparticles Larocca Nelson Marcos, <u>Pessan Luiz Antonio</u> - Brazil</p>
11:55-12:15 pm	<p><b>OP-S13-259</b> Morphology and electrical properties of injection-molded PP carbon-based nanocomposites <u>Zaccone Marta</u>, Armentano Ilaria, Cesano Federico, Scarano Domenica, Cravanzola Sara, Frache Alberto, Monti Marco- Italy</p>			<p><b>OP-S02-577</b> Twin-screw extrusion of Cellulose NanoCrystals (CNC) and poly(ethylene) after dispersion of CNC in poly(ethylene glycol) : Effects of PEO/CNC content on rheological, mechanical and thermal properties of these ternary blends. <u>Sliwa Fabien</u>, <u>Leonardi Frédéric</u>, Mercader Célia, Andre Sandrine, Charman Maxime- France</p>	<p><b>OP-S07-85</b> Novel Approach for Modeling the Dynamics of Fiber Breakage in Polymer Matrix Composites during Capillary Extrusion <u>Sporleder Federico</u>, Carella José M., Dorao Carlos A., <u>Luduenia Leandro N.</u> - Argentina</p>	<p><b>OP-S06-546</b> Enhanced gas barrier properties due to confinement of PLLA obtained by the nanolayer coextrusion process <u>Fernandes Nassar Samira</u>, Delpouve Nicolas, Guinault Alain, Sollogoub Cyrille, Domenek Sandra France</p>	<p><b>OP-S15-618</b> Fatigue crack propagation behavior of simultaneously toughened and electrically conductive epoxy composites <u>Bakis Gökhan</u>, Brückner Alexander, Zeiler Rico, Deutges Holger, Altstädt Volker- Germany</p>	
12:15-12:35 pm	<p><b>OP-S13-424</b> Investigation of the two-dimensional shape of caverns viewed in the context of electroplating quality demands using image analysis <u>Siepmann Jens Peter</u>, Wortberg Johannes, Heinzler Felix Alexander- Germany</p>							

12:35 -02:00 pm

Lunch Break- Joint IPP &amp; PPP Board meeting ( Only for IPP and PPP Board members, Room: St Clair 3b)

Thursday, July 28, 2016

Chair: Pierre Carreau

Plenary Lecture 7: Miniaturization is a trend but how does it affect the morphology development in immiscible polymer blends during shear flow? Paula Moldenaers (KU Leuven, Belgium) Room: Auditorium Lumière

02:00-02:45 pm

02:45-02:50 pm

Room Change

Room	Rhone 1	Rhone 2	St Clair 1a	Rhone 3a	Rhone 3b	Auditorium Pasteur	St Clair 2	Rhone 4	St Clair 3a
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8	Session 9
02:50-06:40 pm	Injection Molding and Molds	Elastomers and Thermoplastic elastomers	Fibers, Films, and Membranes	Nanocomposites and filled Polymers	Polymer Foams and Lightweight structures	Biopolymers and polymers for renewable resources	Special S: Recycling, Plastic Solutions for Eco-Conception	Morphology and Structure Development (Special honoring session of J-M Haudin)	Special S: Additive Manufacturing for Plastic components
Chair	Andrew Hrymak	Uttandaraman Sundararaj	Olivier Lhost	Rahul Gupta	Chris Macosko	Etienne Fleury	Hani Naguib	Roberto Pantani	Qi Wang
02:50-03:10 pm	<p><b>OP-S13-483</b> Induction Heating Simulation And Validation For The Plastic Injection Molding Process <u>Kietzmann</u>, Clinton, Rigoni Guillaume, Chen Lu, Quillet Stéphane - Australia</p>	<p><b>KN-S11-4</b> Novel Super TPV Based on XNBR Rubber and Polyamide 12 Chatterjee Tuhin, Wiessner Sven, Heinrich Gert, <u>Naskar Kinsuk</u>- India (30min)</p>	<p><b>KN-S02-289</b> Polypropylene/Organoclay Based Nanocomposites: Determination of optimal conditions for dispersion Normand Guillaume, <u>Peuvrel-Disdier Edith</u>, <u>Vergnes Bruno</u> - France (30min)</p>	<p><b>KN-S05-48</b> The Effect of Melt/Gas Mixture Compressibility on the Cell-Nucleation Behaviors in High-Pressure Foam Injection Molding Shaayegan Vahid, Wang Guilong, <u>Park Chul B.</u> - Canada (30min)</p>	<p><b>KN-S06-288</b> Reactive extrusion of poly (lactic acid): Effect of coagent type on the rheological and thermal properties Tiwary Praphulla, Dawidziuk Karolina, Najafi Naqi, <u>Kontopoulou Marianna</u> - Canada (30min)</p>	<p><b>KN-S16-222</b> Design from Recycling: Identifying applications for recycled polymers <u>Ragaert Kim</u>, Hubo Sara, Van Damme Nicolas, Veelaert Lore, De Meester Steven, Du Bois Els- Belgium (30min)</p>	<p><i>Chairman introduction of the honoring session</i> KN-S15-454 Morphology and Structure Development during Injection molding with fast mold temperature evolution Speranza Vito, Liparoti Sara, Pantani Roberto, <u>Titomanlio Giuseppe</u> - Italy (30 min)</p>	<p><b>KN-S18-484</b> SLS 3D printing of Thermoplastic Polyurethane Carbon Nanotubes Nanocomposites <u>Xia Hesheng</u> - China ((30 min)</p>	
03:10-03:30 pm	<p><b>OP-S13-468</b> Investigation of Nanoparticles Emitted When Injection Molding Neat and Additive-filled Polypropylene and Polycarbonate Theriault Matthew, Yoenth Suzanne, Matar Jessica, Martin John , Bello Dhimiter, <u>Barry Carol</u>- USA</p>								

03:30-03:50 pm	<p><b>OP-S13-485</b> Complex Injection Moulded Components - Bridging the Knowledge Gap <u>Meyer Tino</u>, Sherratt Paul, Haworth Barry, Harland Andy, Holmes Chris, Lucas Tim - UK</p>	<p><b>OP-S11-447</b> Comparison of filler network related reinforcement contributions in different rubber composites for tire treads <u>Mujtaba Anas</u>, Nagaraja Sriharish Malebenmur, Beiner Mario - Germany</p>	<p><b>OP-S12-507</b> Effect of Blending High and Low Stereo-regularity Components on Crystallization and Melting Behaviors in the Polypropylene Fibers Kawai Kouya, Takarada Wataru, <u>Kikutani Takeshi</u> - Japan</p>	<p><b>OP-S02-651</b> Bio-Based Epoxy Clay Nanocomposites Rigail-Cedeño Andres F, <u>Schmidt Daniel F</u> - USA</p>	<p><b>OP-S05-28</b> Reducing Thermal Radiative Conductivity of Polymeric Foams using Expanded Graphite <u>Tran Minh-Phuong</u>, Park Chul, Detrembleur Christophe, Thomassin Jean-Michel, Gong Pengjian, Buahom Piyapong, Saniei Mehdi, Kenig Samuel, Lee Seung-Eon Canada/Belgium/Israel/Korea</p>	<p><b>OP-S06-656</b> Use of Antimicrobial Methylcellulose Films During Storage of Salami <u>Turhan Kamile Nazan</u>, Erol Ece - Turkey</p>	<p><b>OP-S16-270</b> Efficiency of recycling post-consumer plastic packages and their recycle properties <u>Thoden van Velzen Ulphard</u>, Jansen Michael, Brouwer Marieke, Feil Alexander, Molenveld Karin, Pretz Thomas - Germany</p>	<p><b>OP-S15-690</b> Increase of UHMW-PE crystallinity with the addition of naphthenic oil and silica in PE-membranes for battery separator application <u>Toquet Fabien</u>, Cassagnau Philippe, Schlegel Brice, Guy Laurent, Fulchiron René - France</p>	<p><b>OP-S18-449</b> Relationships between ABS Copolymer Composition, Filament Quality and 3D Printing Performance in FDM Process <u>Baumann Stéphanie</u>, Eisenträger Frank, Niessner Norbert, Meiners Josef, Schmidt Hans-Werner, Bastian Martin - Germany</p>
03:50-04:10 pm	<p><b>OP-S13-457</b> Effects of Fast Mold Temperature Evolution on Micro Features Replication Quality during Injection Molding Liparoti Sara, Calaoon Matteo, Speranza Vito, Tosello Guido, Pantani Roberto, Hansen N. H., <u>Titomanlio Giuseppe</u> - Italy</p>	<p><b>OP-S11-469</b> Novel Silicone Thermoplastic Elastomers With Tailored Permeation Properties <u>Riess Gisbert</u>, Berger Katrin, Kern Wolfgang - Austria</p>	<p><b>OP-S12-722</b> Fibrillation mechanism of PLA/PVA blend along the spinline <u>Tran Nguyen Hoai An</u>, Brünig Harald, Auf der Landwehr Maria, Heinrich Gert Germany</p>	<p><b>OP-S02-557</b> New insights to produce by tubing extrusion electrically conductive multi-layer fuel lines based on polyamide 612/carbon nanotubes formulations <u>Lison Valérie</u>, Hurtgen Marie, Rul Alicia, De Villepin Cédric, Claes Michaël - Belgium</p>	<p><b>OP-S05-187</b> Hysteresis Measurements as a tool to monitor the non-linear mechanical deformation behavior of bead foams during fatigue loading <u>Keller Jan-Hendrik</u>, Altstaedt Volker Germany</p>	<p><b>OP-S06-723</b> Biodegradable polyesters reinforced with eucalyptus fiber: effect of reactive agents- Nanthanon Phornwanan, <u>Suttirueangwong Supakij</u>, Seadan Manus, Pivsa-Art Sommai, Hiroyuki Hamada - Thailand/Japan</p>	<p><b>OP-S16-327</b> The effect of the compatibilizer SEBS-g-GMA on the blend PP-PET: virgin and recycled materials, Van Kets Karen, <u>Van Damme Nicolas</u>, Delva Laurens, Ragaert Kim - Belgium</p>	<p><b>OP-S15-754</b> DMBS-Induced Nucleation Of Isotactic Polypropylene Under High Pressure In Isothermal And Non-Isothermal Conditions Sovinskia Przemyslaw, Piorowska Ewa, <u>Boyer Severine</u>, Haudin Jean-Marc - France</p>	<p><b>OP-S18-464</b> Influence of Temperature on the Flowability of Polymer Powders in Laser Sintering <u>Van den Eynde Michael</u>, Verbelen Leander, Van Puyvelde Peter- Belgium</p>
04:10-04:30 pm <b>Coffee Break. Room: Exhibit and poster Hall</b>									
04:30-04:50pm	<p><b>OP-S13-473</b> Injection Molding of Micro and Nanostructured Surfaces From Liquid Silicone Rubber De Jesus Vega Marisely, Mead Joey, <u>Barry Carol</u> - USA</p>	<p><b>OP-S11-498</b> Influence of Environmental Conditions on Adhesion of Thermoplastic - Liquid Silicone Rubber - Combinations Baumgart Christin, Marl Svenja, <u>Altstädt Volker</u> - Germany</p>	<p><b>OP-S12-632</b> Foaming of PC/PMMA membranes with CO2 and ethanol as co-solvent Almeida Ronaldo José, Sene Tarcisio Sanson, <u>Pessan Luiz Antonio</u> - Brazil</p>	<p><b>OP-S02-701</b> Melt-mixing preparation and characterization of polycarbonate / boron nitride nanotube nanocomposites <u>Derdouri Abdessalem</u>, Martinez-Rubi Yadienka, Simard Benoit - Canada</p>	<p><b>OP-S05-242</b> Physical foam extrusion of polyolefin/cycloolefin copolymer blends <u>Walluch Matthias</u>, Uray Anna, Holzer Clemens, Langecker Günter Rüdiger- Austria</p>	<p><b>OP-S06-711</b> The Chitosan Degradation by Ozonation Process to Produce Oligomer Chitosan <u>Savitri Emma</u>, Purwanto Edy - Indonesia</p>		<p><b>OP-S15-606</b> Influence of a dispersed elastomeric phase on the orientation of hot-drawn Poly(ethylene Terephthalate) <u>Bourg Violette</u>, Saïfar Amir, Ajji Abdellah- Canada</p>	<p><b>OP-S18-465</b> SLS surfaces: new insights <u>Vetterli Marc</u>, Wegener Konrad, Schmid Manfred - Switzerland</p>
04:50-05:20 pm	<p><b>OP-S13-494</b> Advanced Fiber Orientation Prediction for High Filler Content Short-fiber/Thermoplastic Composites <u>Nguyen Thi Thanh Binh</u>, Yokoyama Atsushi, Hamanaka Senji, Yamashita Katsuhisa, Nonomura Chisato- Japan</p>	<p><b>OP-S11-578</b> Relationship between Morphology, Mechanical and Electrical Properties in Structured Elastomers <u>BOITEUX Gisele</u>, Salaeh Subhan Salaeh, Nakason Chaeron, Gain Olivier, Cassagnau Philippe - France</p>	<p><b>OP-S12-634</b> Electrospinning of PVAAq solutions with ZnO nanoparticles and antibacterial properties of the electrospun mats <u>Sugimoto Masataka</u> - Japan</p>	<p><b>OP-S02-713</b> The rheological and thermal conductivity study on PA/COC blend filled by Boron Nitride Ghahramani Nikoo, Seyed Esfahani Seyed Armin, Mehranpour Milad, <u>Nazockdast Hossein</u> - Iran</p>	<p><b>OP-S05-244</b> Welding quality in polymer bead foams: in situ SEM study <u>Gensel Julia</u>, Pawelski Christin, Altstädt Volker Germany</p>	<p><b>OP-S06-684</b> Orthogonal synthesis of hyper-branched macromolecular microspheres by fusing classical and onion-peel phosphorus-based dendritic units <u>Katir Nadia</u>-Morocco</p>		<p><b>OP-S15-576</b> Thermo-optical characterization of polyester fiber in real time via quantitative cross-polarized optical microscopy Bicalho Luciana Assumpção, Silva Jorge Manoel Jardim, <u>Canevarolo Sebastião Vicente</u>, Brazil</p>	<p><b>OP-S18-533</b> New opportunities offered by Freeformer 3D printing process <u>Sébastien Charlon</u>, Soulestin Jeremie, Lacrampe Marie-France, Krawczak Patricia - France</p>

05:20-05:40 pm	<p><b>OP-S13-515</b> Micro Injection Molding: Investigation of Interfacial Fracture Behavior Fischer Matthieu, <u>Kuehnert Ines</u> - Germany</p>	<p><b>OP-S11-678</b> The Role of Non-planar rings in the hard segments of Polyurethanes: a Multi-scale Investigation <u>Zhang Ruoyu</u>, Zhang Lisheng, Xu Wei, Liu Wei, Zhu Jin - China</p>	<p><b>OP-S12-753</b> Aqueous suspensions of graphite nanoplates and polyurethane for films and coatings <u>Paiva Maria C.</u>, Cunha Emice P., Fernandes Bruna M., Duarte Fernando M. - Portugal</p>	<p><b>OP-S02-673</b> How to efficiently Enhance the Thermal Conductivity of Poly(vinylidene fluoride)-based Composites? <u>Wang Yong</u> - China</p>	<p><b>OP-S05-264</b> Visual Observation of One-shot Chemical Foaming Process by X-ray Transmission Imaging <u>Tateishi Junichiro</u>, Taniguchi Norihiko, Nishiwaki Tsuyoshi, Sukumaran Sathish K, Sugimoto Masataka - Japan</p>	<p><b>OP-S06-695</b> Mechanical and durability properties of soft PVC plasticized by cardanol derivatives <u>Maffezzoli Alfonso</u>, Ferrari Francesca, Velardi Rosario, <u>Greco Antonio</u> Italy</p>		<p><b>OP-S15-759</b> Effect of flax fabrics chemical extraction treatments and processing conditions on the microstructure of flax fabrics reinforced thermoset biocomposites <u>Bergeret Anne</u>, Fernandez J. Acera, Testoni G. Apolinario, Le Moigne N., Corn S., Leger R., Jenny P., Haudin J.M., Le Duc A., Lozachmeur M., Bono P.- France</p>	<p><b>OP-S18-274</b> Effect of Particle Size on the Properties of Highly-Filled Polymers for Fused Filament Fabrication <u>Kukla Christian</u>, Duretek Ivica, Schuschnigg Stephan, Gonzalez-Gutierrez Joamin, Holzer Clemens - Austria</p>
05:40-06:00 pm	<p><b>OP-S13-495</b> Influence of Processing Conditions and Filler Type and on the Crystallinity of PLA Compounds <u>Pacher Gernot Alois</u>, Hutterer Thomas, Berger Gerald Roman, Friesenbichler Walter - Austria</p>	<p><b>OP-S11-159</b> Fatigue Behavior of Natural Rubber/ Organoclay Nanocomposites under Uniaxial Cyclic Deformation: Role of Interfacial Compatibility and Strain Amplitude <u>ebrahimi ali</u>, <u>Katbab Ali Asghar</u>, nazokdast hossein, katbab puya- Iran</p>	<p><b>OP-S12-336</b> Extended Additives Performance in Polyethylene Thin Films <u>Rosen-Kligvasser Jasmine</u>, Suckeveriene Ran, Tchoudakov Roza, Narkis Moshe - Israel</p>	<p><b>OP-S02-731</b> Effects of dispersant concentration and solution pH on the dispersion of non-covalently modified graphene in aqueous medium: A molecular dynamics simulation study <u>Kulkarni Aditya</u>, <u>Mukhopadhyay Nabaneeta</u>, <u>Bhattacharyya Arup</u>, Panwar Ajay Singh - India</p>	<p><b>OP-S05-413</b> Foaming behavior of Novatein and blends with polyethylene compatibilised by maleic anhydride <u>Gavin Chanelle</u>, Lay Mark C., Verbeek Casparus J.R - NewZealand</p>	<p><b>OP-S06-700</b> Mechanical Properties of PLA/PCL blend extruded tubes for the bioresorbable stent application <u>Bhati Pooja</u>, <u>Bhatnagar Naresh</u> - India</p>		<p><b>OP-S15-475</b> Modeling of the packing stage for semi-crystalline polymers: PVT data and no-flow criteria <u>Vincent Michel</u>, Hondros Vassilis, Haudin Jean-Marc, Ville Laurence, Francois Guillaume - France</p>	<p><b>OP-S18-360</b> Investigation of the laser sintering process from the melt side <u>Jarry Thomas</u>, Barrès Claire, Charneau Jean-Yves- France</p>
06:00-06:20 pm	<p><b>OP-S13-105</b> Experimental Investigations on the Fibre Length Degradation in Injection Moulds - Moritzer Elmar, <u>Martin Yamnick</u> - Germany</p>			<p><b>OP-S02-747</b> Coupled electrical-mechanical investigations on polymer composite materials: anisotropy in the conductivity evolution upon mechanical stretching <u>Sergei Anatoli</u>, David Laurent, Boiteux Gisèle, Xu Weiqing - France</p>	<p><b>OP-S05-445</b> Simulation of interacting bubbles with multilevel adaptive local refinement <u>Mitrias Christos</u>, Hulsen Martien A., Anderson Patrick D- Netherlands</p>	<p><b>OP-S06-780</b> The sol-gel transition and scaling laws for κ-carrageenan in aqueous solution <u>Liu Sijun</u>, <u>Li Lin</u> - Singapore</p>		<p><b>OP-S15-660</b> (Education talk) Commercial Plastics: Tertiary Level Education Requirements <u>Edmonds Neil</u>, Plimmer Peter N, McKee John - NewZealand</p>	
06:20-06:40 pm	<p><b>OP-S13-556</b> Comparison of mechanical and dimensional properties of polymeric microneedle arrays manufactured by micro-Injection moulding and ultrasound moulding <u>Nair Karthik Javan</u>, Whiteside Benjamin, Babenko Maksims, Grant Collin, Coates Phil - UK</p>			<p><b>OP-S02-657</b> Nanocomposites based on poly(styrene-<i>b</i>-(ethylene-co-butylene)-<i>b</i>-styrene) triblock copolymer and carbon nanotube-graphene nanoplatelet hybrids: Rheological and electrical study <u>Heydarnejad Moghadam Mohammad</u>, <u>Goharpey Fatemeh</u>, <u>Nazockdast Hosein</u>, <u>Kazem Farahzadi Setareh</u> - Iran</p>					
6:30-8:00 pm <b>Poster Session- Part 2 (Symposia 10-20); Exposition/Forum Posters - Forum 2</b>									

Friday, July 29, 2016

Chair : Bhattacharya Sati N.

Plenary Lecture 8 (James L. White Innovation Award): New Polymeric Nanolayered Systems by Continuous Co-extrusion – Forced Assembly. Eric Baer ( CWRU University, USA). Room : Auditorium Pasteur

08:00-08:45 am

08:45-08:50 am

Room Change

Room	Rhone 1 Session 1	Rhone 2 Session 2	Rhone 3b Session 3	St Clair 5 Session 4	St Clair 1 Session 5	St Clair 2 Session 6	Rhone 4 Session 7	St Clair 3a Session 8
08:50-11:30 am	Injection Molding and Molds (1)	Injection Molding and Molds (2)	Polymer Foams and Lightweight structures	Special S: Microtechnology and smart materials	Biopolymers and polymers for renewable resources	Special S: Recycling, Plastic Solutions for Eco-Conception	Process Monitoring, Control and sensors	Special S: Additive Manufacturing for Plastic components
Chair	Pierre G. Lafleur	Michel Vincent	Pierre Carreau	Jin Kon Kim	Yves Grohens	Donald Baird	Didier Delaunay	Hans-J. Radusch

08:50-09:10 am

09:10-09:30am

08:50-09:10 am	<p><b>KN-S13-625</b> Predicting the fountain flow instability Smit Tim M, Hulsen Martien A, Anderson Patrick D - Netherlands (30min)</p>		<p><b>KN-S05-333</b> A New Foam Injection Molding Technology - Use Non-Supercritical Fluids as Physical Blowing Agents- Wang Long, Ohshima Masahiro, Asaoka Fumiya, Yamamoto Satoshi, Goto Hideto, Yusa Atsushi - Japan (30min)</p>	<p><b>KN-S19-672</b> Large-Scale R2r Fabrication Of Piezoresistive Films (Ni/Pdms) With Enhanced Through Thickness Electrical And Thermal Properties By Applying A Magnetic Field Cakmak Mukerrem, Chen Yuwei - USA (30min)</p>	<p><b>OP-S06-715</b> Processing of Cassava Pulp to Glucose and Oligosaccharides by Sonication Process Lusiani Cucuk Evi, Ningrum Eva Oktavia, Trisanti Prida Novarita, Sumarno Sumarno-Indonesia</p>	<p><b>KN-S16-406</b> Recycling Waste Polymer Materials by Solid-State Shear Milling Technology Wang Qi, Bai Shibing, Sun Fasen, Yang Shuangqiao - China (30min)</p>	<p><b>KN-S08-271</b> Neck profile geometries in solid phase processing of polymers: indicators of molecular features Coates Phil, Caton-Rose Phil, Spencer Paul, Vgenopoulos Dimitris, Thompson Glen- UK (30min)</p>	<p><b>KN-S18-590</b> Simulation of Selective Laser Melting process for thermoplastic powder Regnier Gilles JP- France (30min)</p>
09:10-09:30am								

09:30-09:50 am	<p><b>OP-S13-572</b> Fibre Dispersion and Fibre Length Distribution in Long Glass Fibre Reinforced PP Injection Mouldings <u>Gilson Millan-John</u>, Caton-Rose Phillip, Whiteside Ben, Kelly Adrian - UK</p>	<p><b>KN-S13-677</b> Experimental Studies and Numerical Simulation of the Foam Injection Molding Process using Gas-counter Pressure <u>Shaayegan Vahid</u>, <u>Park Chul B.</u>, Costa Franco, Han Sejin - Canada (30 min)</p>	<p><b>OP-S05-467</b> Natural Unidirectional Sheet Processes for Fibre Reinforced Bioplastics <u>Quali Ahmed-Amine</u>, Rinberg Roman, Nendel Wolfgang, Kroll Lothar, Siegel Carolin, Buchelt Beate, Wagenführ Andre, John Rico, Trommler Katja, Schreiter Katja, Spange Stefan - Germany</p>		<p><b>OP-S19-472</b> Compression screws for the fixation of small bones and bone fragments using biocompatible, bioresorbable, body-temperature reverting, plasticised shape memory polymers <u>Thomson Brian</u>, Thompson Glen, Vgenopoulos Dimitris, Nair Karthik , Duncan John, Howell Ken , Martyn Michael, Coates Phillip - UK</p>	<p><b>OP-S06-734</b> Electrospun Core-Shell Nanofibers based on Thermoplastic Urethane elastomer and Gelatin: evaluation of cell behavior <u>Jafaje Mahsa</u>, Ali Asghar Katbab - Iran</p>	<p><b>OP-S16-593</b> A New Continuous Extensional Flow Mixer for Compounding and Recycling of Complex Polymer Blends <u>Mani Skander</u> - France</p>	<p><b>OP-S08-175</b> Compensating viscosity fluctuations in injection moulding <u>Hopmann Christian</u>, <u>Theuissen Matthias</u>, Heinisch Julian-Germany</p>	<p><b>OP-S18-545</b> The Influence of PLA Composite Filaments on Molding Product made by Three-dimensional Printing <u>Araki Kunihiko</u>, Hamabe Goshi, Date Keishi, Tanaka Tatsuya - Japan</p>	
09:50-10:10 am	<p><b>OP-S13-698</b> Knowledge based approach for an automatic rheological optimization of injection molded parts <u>Porsch Alexander</u>, Andrae René, Wortberg Johannes, Koehler Peter - Germany</p>			<p><b>OP-S05-486</b> Preparation and characterization of conductive foams based on PBS/carbon nanofibers composites <u>Cafiero Livia</u>, Oliviero Marica, Landi Giovanni, <u>Sorrentino Luigi</u>, Sorrentino Andrea - Italy</p>		<p><b>OP-S19-585</b> Conducting polymer hydrogels (CPHs) for electronic skin applications <u>Khalili Nazanin</u>, <u>Naguib Hami</u> , Kwon Roy - Canada</p>	<p><b>OP-S06-727</b> Mechanical and Rheological properties of different plasticized poly(lactic acid) grades filled with Talc - Seesorn Janjira , <u>Suttirungwong Supakij</u>, Seadan Manus, YONG Kok Wee - Thailand/Singapore</p>	<p><b>OP-S16-623</b> Upcycling of POM for Catch Springs by Using the Rec2TecPart Process <u>Holzer Clemens H.</u>, Katschnig Matthias, Purgleitner Bianca, Hornitschek Birgit, Höllebauer Andreas, Link Jürgen, Offenberger Ewald, Hierzenberger Peter, Brzezowsky Klaus , Wind Christian , Dobiasovsky Regina, Ruhaltinger Otmar, Rams Martin, Daucher Monika - Austria</p>	<p><b>OP-S08-224</b> An Approach to Non-Destructive Testing of Aged Polymers <u>Gilmar Heiderich</u>, Moritzer Elmar, Huettner Matthias, Henning Bernd, Webersen Manuel - Germany</p>	<p><b>OP-S18-560</b> Multi-Layered Infill Structures in FDM of thermoplastics <u>Hebda Michael James</u>, Caton-Rose Philip, Whiteside Ben, Coates Philip - UK</p>
10:10-10:30 am	<p><b>OP-S13-620</b> Replication of hierarchical textured surfaces by injection molding: Global approach for the optimization of the replication quality <u>Larochette Mathieu</u>, Brulez Anne-Catherine, Benayoun Stéphane, Vera Julie - France</p>		<p><b>OP-S13-743</b> Morphology and mechanical properties of micro-injection molded polymer products <u>Wang Shiwei</u>, <u>Li Qian</u>, Shen Changyu, HU Guohua - France</p>	<p><b>OP-S05-489</b> Foaming of model linear and branched polystyrenes <u>Abbasi Mahdi</u>, Faust Lorenz, Riazi Kamran, <u>Wilhelm Manfred</u> - Germany</p>		<p><b>OP-S19-565</b> Recovery behaviour of polymers; investigating the influence of material type and processing conditions via micro-injection moulding and die-drawing. <u>Vgenopoulos Dimitrios</u>, Nair Karthik Jayan, Caton-Rose Phil, Whiteside Ben Richard , Coates Philip David - UK</p>	<p><b>OP-S06-714</b> Combination of sonication and hydrothermal for depolymerization of cellulose in ionic liquid pressurized with CO2 and N2 <u>Sumarno Sumarno</u>, Mayangsari Novi Eka, Trisanti Prida Novarita - Indonesia</p>	<p><b>OP-S16-670</b> Fabrication of advanced recycling process considered from the perspective of the physical degradation <u>Tominaga Aya</u>, Sekiguchi Hiroshi, Nakano Ryoko, Yao Shigeru, Takatori Eiichi - Japan</p>	<p><b>OP-S08-235</b> Online Estimation of Permeability in Resin Transfer Molding Using Parallel-Plate Capacitor <u>Chiu Tzu-Heng</u>, <u>Yao Yuan</u>, Wang Kai-Hong, Qi Wei - Taiwan/China</p>	<p><b>OP-S18-573</b> New approaches towards production of polymer powders for selective laser beam melting of polymers <u>Schmidt Jochen</u>, Sachs Marius, Fanselow Stephanie, Wirth Karl-Ernst, Peukert Wolfgang - Germany</p>

10:30-10:50 am

## Coffee Break. Room: Exhibit and poster Hall

10:50-11:10 am

**OP-S13-726**

Measurement of Fiber Orientation Distribution in Injection-molded Composites with High Filler Content Hamanaka Senji, Yamashita Katsuhisa, Nonomura Chisato, Nguyen Thi Thanh Binh, Yokoyama Atsushi - Japan

**OP-S13-588**

Designing and producing joining partners for a multi-material design by injection molding Pohl Markus, Stommel Markus - Germany

**OP-S05-635**

Depressurization and Warpage in Polyurethane Foams Long Kevin N, Roberts Christine Cardinal, Mondy Lisa A, Rao Rekha R - USA

**OP-S19-569**

Ultrasonic injection moulding: morphology and mechanical properties Whiteside Ben, Babenko Maksims, Tuinea-Bobe Cristina, Brown Elaine, Coates Phil - UK

**OP-S06-776**

Fabrication of Multiple-Layered Vascular Scaffolds by Hybrid Electrospinning, Braiding, and Thermally Induced Phase Separation Methods - Mia Hao-Yang Mia, Jing Xin, Yu Emily, Peng Xiang-Fang, Turg Lih-Sheng - China

**OP-S08-783**

Swelling And Drying Process In Ionic Hydrogels For Low And High pH Using Fluorescence Technique AKTAS Demet - Turkey

**OP-S18-699**

Process Monitoring by Thermography during Fused Deposition Modeling Traxler Gerhard, Koepplmayr Thomas - Austria

11:10-11:30 am

**OP-S13-655**

Adhesion In Overmolding Applications Khatavkar Vinayak, Seitz Michelle, Bulters Markus - Netherlands

**OP-S05-461**

Laser Transmission Welding of Foamed Thermoplastic Injection Moulded Parts Hopmann Christian, Kreimeier Suvani, Schoengart Maximilian - Germany

**OP-S19-693**

Hybrid core shell electrospun nanofibers of poly(vinylidene fluoride)/polyaniline with barium titanate and nitrogen doped carbon nanotubes Santos João Paulo Ferreira, Melo Guilherme Henrique França, Arjmand Mohammad, Sundararaj Uttandaraman, Bretas Rosario Elida Suman - Canada

**OP-S06-767**

Guar gum/poly(ionic liquid)/ionic liquid hybrid ionogels: rheology, morphology and ionic transport Zhang Biao, Serghei Anatoli, Sudre Guillaume, Bernard Julien, Fleury Etienne, Charlot Aurélie - France

**OP-S08-558**

On the exploitation of optical signal from Raman spectroscopy for in situ monitoring macro and molecular parameters of emulsion polymerizations Dropsit Elise, Chapron David, Bourson Patrice, Hoppe Sandrine, Durand Alain - France

**OP-S18-251**

3D Printing Of Maize Protein By Fused Deposition Modeling Chaunier Laurent, Leroy Eric, Della Valle Guy, Dalgalarrodo Michèle, Bakan Bénédicte, Marion Didier, Madec Baptiste, Lourdin Denis - France

11:30-11:50 am

**OP-S05-504**

Double percolation effect on electric and thermal conductivity of the carbon foams derived from phenolic resin and mesophase pitch Go Eun Park, Song Seung A, Kim Seong Su - Korea

11:50-12:10 pm

Closing Ceremony: Auditorium Pasteur

# Poster Session Program

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**Tuesday, July 26, 6:30-8:00 pm**  
**Venue: Exhibit and poster Hall - Forum 2**

S01-479	Investigation of the influence of talc fillers on the infrared heating of polypropylene for thermoforming. <b>Längauer, Manuel; Zitzenbacher, Gernot; Palmeshofer, Matthias; Wagenknecht, Tanja</b>
S01-794	Modelling of an innovative liquid rotational molding process. <b>Agbessi, Yao*</b> ; <b>Béreaux, Yves; Charneau, Jean-yves</b>
S02-126	The Morphology and Control Release Behavior of Thermosensitive Poly(N-Isopropylacrylamide-Methylacrylic acid)/Au Semi-hollow Composite Latex Particles. <b>Lee, Chia-Fen*</b>
S02-157	Synthesis and Properties of POSS modified PS Microbeads. <b>Tuccar Kilic, Nilay*</b> ; <b>Turgut, Gizem; Boyacioglu, Seyhan; Yogurtcu, Ozge; Yildirim, Aysun; Kodal, Mehmet; Ozkoc, Guralp*</b>
S02-180	Electrical conductivity of Au-immobilized onto polysaccharides reduced graphite oxide sheets. <b>Dhahri, Abdelwaheb*</b> ; <b>Beyou, Emmanuel; Baouab, Mohammed Hassen V</b>
S02-182	Organic Modification Of Mmt Clay With Polyaniline: Effect On Electrical And Morphological Properties. <b>Pinto, Camila P.; Saade, Wesley A.; Pachekoski, Wagner M; Dalmolin, Carla*</b> ; <b>Becker, Daniela</b>
S02-168	Rheology and Physical Characterisation of Graphene Nanoplatelet/ Poly (butylene adipate-co-terephthalate) Nanocomposites <b>Kashi, Sima; Gupta, Rahul K; Kao, Nhol; Bhattacharya, Sati N.</b>
S02-201	Thermal Conductivity of Hybrid Filled HDPE Nanocomposites <b>Müller, Michael Thomas; Krause, Beate*</b> ; <b>Kretschmar, Bernd; Jahn, Ivonne; Pötschke, Petra</b>
S02-203	Influence of Mixing Conditions on Carbon Nanotube Shortening and Curling in Polycarbonate Composites. <b>Krause, Beate*</b> ; <b>Carval, Jérôme; Pötschke, Petra</b>
S02-204	PP/SWCNT Composites Modified With Ionic Liquid. <b>Krause, Beate*</b> ; <b>Predtechensky, Mikhael; Ilyin, Evgeny; Pötschke, Petra</b>
S02-205	Relationship between Crystallization Kinetics and Interfacial Interactions in PLA/POSS Nanocomposites. <b>Kodal, Mehmet*</b> ; <b>Şirin, Hümevra; Özkoç, Guralp</b>
S02-206	Non-isothermal Crystallization Kinetics of Carbonaceous Nanofiller Reinforced Poly(butylene succinate) Nanocomposite <b>Kodal, Mehmet; Filizgök, Selen; Kodal, Mehmet*</b> ; <b>Özkoç, Guralp</b>
S02-215	Observation of multi-shape memory and temperature memory effect via tuning distributed architecture of graphene oxide in poly(propylene carbonate). <b>Qi, Xiaodong; Dong, Peng; Fu, Qiang*</b>
S02-220	Investigation of the Correlation between Adhesion Strength and Thermodynamic Work of Adhesion. <b>Şirin, Hümevra; Kodal, Mehmet; Karaagac, Bagdagul; Özkoç, Guralp*</b>
S02-225	Graphene, Nanographite By Ultrasound And Their Polypropylene Nanocomposites. <b>Solis, Antonio*</b> ; <b>Perez, Ricardo; Ponce Aurora; Moreno, Leonardo; Manero, Octavio</b>
S02-280	A new crystallization process in polypropylene filled with calcium carbonate. <b>Schawe, Jürgen*</b>
S02-283	Comparison of PP/TALC with PLA/TPU/TALC Composites: "Mechanical, Morphological and Thermal Properties". <b>Biçer, Ezgi; Bahçeci, Melis; Özbaban, Tuğçe; Kemaloğlu, Doğan Şebnem; Kodal, Mehmet; Özkoç, Guralp*</b>
S02-301	Preparation of poly(L-lactide)/multi-walled carbon nanotubes nanocomposites with tunable matrix crystallization rate and mechanical strength. <b>Liu, Huili; Bai, Hongwei*</b> ; <b>Fu, Qiang</b>

S02-32	Investigation of Polypyrrole/Molybdenum trioxide/Graphene nanoribbon nanocomposite with high electrochemical capacity performance for electrode material of supercapacitor. <b>Hsu, Feng-Hao; Wu, Tzong-Ming*</b>
S02-323	Rheological and crystallization behavior of glass fiber reinforced nylon composite <b>Cha, Sang Hoon; Kim, Jae Ik; Bae, Han Na; Sung, Dae Hyun; Ryu, Sung Hun*</b>
S02-328	Effect of ball milling and phosphoric acid treatment on the properties of short Kevlar fiber reinforced polypropylene. <b>Fu, Sirui; Zhang, Jun; Yu, Bowen; Chen, Feng; Fu, Qiang*</b>
S02-329	Thermal History Effects on Moisture Absorption of Fiber-Reinforced Polymer Composites. <b>Hamidi, Youssef K.; Aktas, Levent; Altan, M. Cengiz*</b>
S02-337	A rapid and scalable filler-treatment method to enhance thermal conductivity of polyvinylidene fluoride/expanded graphite composite. <b>Deng, Sha; Fu, Qiang*</b>
S02-348	A ultrathin flexible, high electrical conductivity of graphene/cellulose nanofiber film for efficient electromagnetic interference shielding. <b>Yang, Weixing; Wu, Kai; Chen, Feng; Fu, Qiang*</b>
S02-35	Crystallization kinetics of poly (1, 4-butylene adipate)/organically-modified layered zinc phenylphosphonate nanocomposites. <b>Chen, Yi-An*; Wu, Tzong-Ming</b>
S06-36	Electrocatalytic behavior of chitosan/polyaniline nanocomposite prepared via different acidic aqueous solutions for biosensing. <b>Li, Ching-Feng; Wu, Tzong-Ming*</b>
S02-37	Synthesis of graphene nanoribbon/reduced graphene oxide/polypyrrole nanocomposites as electrode for supercapacitor <b>Wang, Ching-Yuan*; Wu Tzong-Ming</b>
S02-379	Isothermal crystallization behavior and microstructure of poly(butylene succinate-co-adipate)/modified layered double hydroxides nanocomposites. <b>Tsai, Gang-Shian; Chen, Yi-An; Chen, Erh-Chiang; Wu, Tzong-Ming*</b>
S02-382	A rapid and scalable filler-treatment method to enhance thermal conductivity of polyvinylidene fluoride/expanded graphite composite <b>Deng, Sha*</b>
S02-383	Comparative study of new reactive and non-reactive strategies in compatibilizing immiscible polyester blends <b>Xi, Shuting; Kong, Miqiu; Yang, Qi; Li, Guangxian; Huang, Yajiang*</b>
S02-385	Excellent electromagnetic interference shielding via tri-continuous structure with MWCNTs selective dispersion. <b>Yin, Bo*; Dou, Rui; Yang, Mingbo</b>
S02-391	The Impact of Alkylated Graphene Oxide on the Crystallization Behavior of Poly (4-methyl-1-pentene) under Stretching at High Temperature. <b>Xu, Liyang; Yin, Bo*; Yang, Mingbo; Feng, Jianming; Xie, Banghu</b>
S02-396	Oxidization of carbon nanofiber and its effect on tensile properties of PA11 matrix composite reinforced with carbon nanofiber. <b>Enomoto, Kazuki*; Takahashi, Yukiya</b>
S02-397	Non-isothermal curing kinetics and physical properties of MMT-reinforced unsaturated polyester (UP) resins. <b>Vargas, Maria Angeles*; Vazquez, Humberto</b>
S02-399	Preparation of functionalized h-BN encapsulated by graphene oxide <b>Wu, Kai; Liu, Xiaohui; Chen, Feng*; Fu, Qiang</b>
S02-40	Preparation and Characterization of Polyethylene Nanocomposites with Clay and Silver Nanoparticles. <b>Oliani, Washington Luiz*; Ferreto, Helio Fernando Rodrigues; Komatsu, Luiz Gustavo Hiroki; Lugao, Ademar Benevolo; Rangari, Vijaya Kumar; Lincopan, Nilton; Parra, Duclerc Fernandes</b>
S02-476	Effect of additives on MWCNT dispersion and electrical percolation in polyamide 12 composites. <b>Socher, Robert; Pötschke, Petra*; Krause Beate</b>
S02-487	A Study on the Effects of Aspect Ratio and Bulk Density on the Electrical Properties of Polycarbonate/MWCNT nanocomposite. <b>Cruz, Heidy; Son, Younggon*</b>

S02-491	Preparation and properties of graphene oxide-regenerated cellulose/polyvinyl alcohol hydrogel with pH-sensitive behavior. <b>Ren, Penggang*</b> ; <b>Ren, Fang</b> ; <b>Xie, RuiHong</b>
S02-497	Effect of Processing Sequence on the Mechanical and Tribological Properties of Ternary Nanocomposites (VGCF-X/PA6/HDPE). <b>Osada, Yu</b> ; <b>Nishitani, Yosuke*</b> ; <b>Kitano, Takeshi</b>
S02-501	Characterization of organically modified layered zinc phenylphosphonate/ Poly(butylene succinate/adipate) nanocomposites. <b>Kuo, Dong-Lin*</b> ; <b>Wu, Tzong-Ming</b>
S02-537	Innovative fillers for polymers: Functional talc-like organic-inorganic hybrids prepared by sol-gel route. <b>Garnier, Audrey*</b> ; <b>Brendle, Jocelyne</b> ; <b>Bounor-legare, Veronique</b> ; <b>Michelin, Laure</b> ; <b>Rigolet, Severinne</b> ; <b>Melis, Flavien</b>
S02-554	Mechanical properties and fire retardancy of LLDPE based compounds with two different phyllosilicates nanofillers. <b>Cermak, Michal*</b> ; <b>Kadlec, Petr</b> ; <b>Polansky, Radek</b>
S02-583	Comparison analysis of dielectric properties of LLDPE based compounds filled by halloysite nanotubes and montmorillonite. <b>Kadlec, Petr</b> ; <b>Polansky, Radek*</b>
S02-599	Influence of Graphene Nanoplatelets on the Properties of Plasticized Poly (lactic acid) Nanocomposites. <b>Silva, Josiane Aparecida da</b> ; <b>Pachekoski, Wagner Mauricio</b> ; <b>Becker, Daniela*</b>
S02-615	Characterization of Nanocomposites for Hydrogen Storage. <b>Oliveira, Amanda Dantas*</b> ; <b>Beatrice, César Augusto</b> ; <b>Passador, Fabio Roberto</b> ; <b>Pessan, Luiz Antonio</b>
S02-643	Permeability in Fractal Aggregates: Application to Unstable Colloidal Gels. <b>Mertz, Alex</b> ; <b>Graham, Alan L.*</b> ; <b>Gelb, Lev</b> ; <b>Ingber, Marc S.</b> ; <b>Redondo, Antonio</b>
S02-645	Polymer Nanocomposites for Hydrogen Storage. <b>Beatrice, Cesar A G</b> ; <b>Oliveira, Amanda D</b> ; <b>Passador, Fabio R</b> ; <b>Pessan, Luiz A*</b>
S02-648	Influence of matrix crystallinity on electrical percolation of multiwalled carbon nanotubes in polypropylene. <b>Pötschke, Petra*</b> ; <b>Gültner, Marén</b> ; <b>Häußler, Liane</b>
S02-661	Electrochemical Studies on ceramic fillers X (X= Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , SiO <sub>2</sub> ) dispersed LiPF <sub>6</sub> based EC/DEC plasticized PVC/PVdF-co-HFP separator by Phase Inversion Technique. <b>Palanisamy, Vickraman*</b>
S02-662	Preparation and characterization of a conductive and adhesive rubber ink for flexible electrodes. <b>Kim, Minjung</b> ; <b>Lee, Jong-Hwan</b> ; <b>Park, Changsin</b> ; <b>Park, Sangwoo</b> ; <b>Nah, Changwoon*</b>
S02-664	Largely improved toughness of immiscible blend achieved by adding chemically modified graphene oxide. <b>Huang, Wen-bin</b> ; <b>Zhang, Ting-ting</b> ; <b>Mao, Han-jun</b> ; <b>Zhang, Nan</b> ; <b>Huang, Ting</b> ; <b>Yang, Jing-hui*</b> ; <b>Wang, Yong</b>
S02-671	Interfacial adhesion between rubber sheets under different crosslinking level. <b>Jang, JunYeol</b> ; <b>Lee, SangHwan</b> ; <b>Kang, SeokIn</b> ; <b>Jeong, Byeong-Heon</b> ; <b>Hong, BoKi</b> ; <b>Nah, Changwoon*</b>
S02-706	Solid polymer electrolyte: Thermal characteristics, ion conductivity of epoxy oligomer and lithium perchlorate SALT . <b>Boiteux, Gisèle*</b> ; L. K. Matkowska, M. V. Iurzhenko, Ye. P. Mamunya <sup>1</sup> , O. K Matkowska, A. Serghei
S02-710	Influence of a supplemental filler in twin-screw extruded PP/CNT composites using masterbatch dilution. <b>Müller, Michael Thomas*</b> ; <b>Krause, Beate</b> ; <b>Kretzschmar, Bernd</b> ; <b>Pötschke, Petra</b>
S02-74	Influence Of Plasticizer And Dispersion Methods On The Properties Of Poly(Vinyl Chloride) And Clay Nanocomposites. <b>Becker, Daniela*</b> ; <b>Bohn, Samara</b> ; <b>Balzer, Palova Santos</b>
S02-741	Polymer nanocomposite sealants for easy to open packaging: effect of surface chemistry of nanoclay. <b>Mohammadi, Seyedeh Raziye</b> ; <b>Tabatabaei, Seyed H.</b>

<b>Ajji, Abdellah*</b>	
S02-748	Electrical and dielectric properties of composite materials: the role of morphology, volume fraction, form factor, orientation, presence of interphases and gradients of local properties. <b>Serghei, Anatoli*</b> ; <b>Boiteux, Gisèle</b> ; <b>Samet, Mariem</b> ; <b>Kallel, Ali</b>
S02-760	PH and concentration effect on the optical absorption properties of porphyrin nanorods functionalized graphene oxide. <b>Bajjou, O.*</b> ; <b>Mongwakets N.</b> ; <b>Khenfouch M.</b> ; <b>Baitoul M.</b> ; <b>Mothudi B.</b> ; <b>Dhlamini M.</b> ; <b>Lekala M.</b> ; <b>Maaza M.</b>
S02-781	Poly styrene Nanocomposites: Characterization, Investigation of Mechanical Properties. <b>L. MRAH*</b> ; <b>R. Meghabar</b> ; <b>M. Belbachir</b>
S02-786	Graphene prepared by thermal reduction-exfoliation of graphite oxide: Effect of raw graphite particle size on the properties of graphite oxide and graphene. <b>Jeong, Eun Jea*</b> ; <b>Dao, Trung Dung</b> ; <b>Mo, Jeong Han</b>
S02-795	Adsorption of lead (ii) in liquid-solid interfaces of natural hydroxiapatite. A batch study. <b>Bouacherine, B.*</b> ; <b>Iddou, A.</b> ; <b>Benhammadi, S.</b> ; <b>de Ménorval, L. C.</b>
S02-8	Plasma Surface Modification Of Starch-based Nanofibers For Glucose Oxidase Immobilization. <b>Ali akbarnia, Marjan</b> ; <b>Ranaei Siadat, Seyed Omid*</b>
S03-386	Shell-mimicking structure of polylactide fabricated through layer-assembly extrusion: toward high strength and toughness. <b>Yi, Longfei</b> ; <b>Shen, Jiabin</b> ; <b>Guo, Shaoyun*</b>
S03-398	Wasted Tire Ground Rubber/ Wood flour optimized ratio Toward the High Mechanical Properties in Polypropylene composite. <b>Thongthanom, Ratiporn</b> ; <b>Manuspiya, Hathaikarn*</b>
S03-773	Electrification of polymers during capillary extrusion. <b>Perolo, A.*</b> ; <b>Castiglioni, A.</b> ; <b>Ferri, D.</b>
S04-149	Surface localization behavior in injection-molded plate of polycarbonate/poly(methyl methacrylate) blend. <b>Sako, Takumi</b> ; <b>Yamaguchi, Masayuki*</b>
S04-170	Enhancement of impact strength of PA11 by dispersing PBS particles without reduction of flexural modulus. <b>Moriyama, Tomokazu*</b> ; <b>Sumiya, Nobuhiro</b> ; <b>Saito, Tomotaka</b> ; <b>Hao, Yan</b>
S04-183	The Synthesis of Polyester Thermoplastic Polyurethane Elastomer and Effects on Toughening Modification of PVC. <b>Li, Kanshe*</b> ; <b>Zhou, Yuan</b> ; <b>Niu, Honfmei</b> ; <b>Yan, Lanying</b> ; <b>Chen, Chuangqian</b> ; <b>Kang, Jie</b>
S04-216	Cross-linking and Structural Manipulating of Ultrahigh Molecular Weight Polyethylene with Simultaneously Improved Wear Resistance and Mechanical Performance. <b>Huang, Yan-Fei</b> ; <b>Xu, Jia-Zhuang</b> ; <b>Xu, Ling*</b> ; <b>Li, Zhong-Ming</b>
S04-247	High performance millimeter wave absorbers derived from uneven distribution of conducting and magnetic engineered nanoparticles in biphasic polymeric blends <b>Pawar, Shital Patangrao*</b>
S04-298	Research on tribological behavior of PPS/PTFE/CF composites. <b>Luo, Wei</b> ; <b>Chen, Yang*</b> ; <b>Zou, Huawei</b> ; <b>Liang, Mei</b>
S04-321	Combined effects of ultrafine full-vulcanized powdered rubber and $\beta$ nucleating agent on mechanical properties and heat distortion temperature of isotactic polypropylene. <b>Zhu, Yanling</b> ; <b>Fu, Qiang*</b>
S04-390	Assessment of preparation route-dependent compatibilization efficiency of triblock copolymer in immiscible polymer blends by morphology, rheology and fractionated crystallization behavior. <b>Kong, Miqui*</b> ; <b>Huang, Yajiang</b> ; <b>Zhao, Xueyan</b> ; <b>Li, Guangxian</b>
S04-624	The study of Rheology and Morphology of High Density Poly Ethylene (HDPE) / Ethylene Octane Copolymer (EOC) / Nano Silica / Nanocomposites. <b>Javadi, Azizeh*</b> ; <b>Karimi, Samira</b> ; <b>Nazockdast, Hossein</b>

S04-653	Accelerated Weathering Effect on the Polyvinyl Alcohol Cross-linked Wood-Plastic Composites. <b>Suld, Tiia-Maaja*</b>
S04-663	Highly Electrically Conducting Poly (L-lactic acid)/Graphite Composites Prepared Via in Situ Expansion and Subsequent Reduction of Graphite. <b>Xue, Bai; Zhang, Junhua*</b>
S04-679	Effect of Organoclay on Poly(lactic acid)/Biodegradable Polymer Blends. <b>Lee, Sumkun; Kim, Mingeun; Hyun, Kyu*</b>
S15-766	The effect of PDLA on the crystallization and morphology of PLLA. <b>Liau, Wen-Bin*; Huang, Tun-Hao; Chang, Shuang-Yuan</b>
S04-791	Reactive compatibilization of immiscible polymers blend using a natural compatibilizer. <b>Rigoussen, Alan; Verge, Pierre; Dubois, Philippe; Raquez, Jean-Marie; Habibi, Youssef; Habibi, Youssef*</b>
S05-132	Cell Nucleation and Growth Mechanisms in Foam Injection Molding. <b>Shaayegan, Vahid; Park, Chul B.*</b>
S05-199	Effects of Viscoelastic Properties on the Foam Morphology of Silicone Rubber Using Supercritical Carbon Dioxide. <b>Liao, Xia*; Xu, Hao; Bai, Jianwei; Yang, Qi; Li, Guangxian; Park, Chul B.</b>
S05-210	Properties and structure analysis of polymer compositions obtained in cellular injection moulding process. <b>Tor-Świątek, Aneta*</b>
S05-393	Preparation of Halogen-free Flame Retardant Poly (vinyl alcohol) Foam through Thermal Processing. <b>Liu, Pengju*; Bai, Shibing; Wang, Qi</b>
S05-442	Cyclic stress resistance of polyurethane from plastic jacket pipes. <b>Leuteritz, Andreas*; Below, Heiko</b>
S05-513	Mathematical Modeling and Visual Observation of a Chemical Batch Foaming and Crosslinking of Polymer System. <b>Shigeta, Tomohiro*; Ohshima, Masahiro</b>
S05-604	Effect of Foaming Conditions on PLA/Starch/Nano calcium carbonate nanocomposite foams structure. <b>Javadi Azizeh, Vaziri Nasab Elham, Garmabi Hamid</b>
S05-654	Some Influence Factors on the Rigid PVC Foam Formation. <b>Suld, Tiia-Maaja*</b>
S05-692	Preparation, Structure and Property of Halogen-Free Flame Retardant Polyethylene Foam Material. <b>Chen, Xingyou; Chen, Yinghong*; Hua, Zhengkun</b>
S05-784	The Study of Halogen Free Fire Retardant High Melt Strength Polypropylene: Preparation, Foaming Behaviors and Characteristics of the Foam. <b>Xu, Yaohui; Guo, Peng; Zhang, Shijun; Lu, Mingfu*</b>
S06-102	Influence of Initial Fiber Length on the Mechanical and Tribological Properties of Hemp Fiber Reinforced Plants-Derived Polyamide 1010 Biomass Composites. <b>Nishitani, Yosuke*; Mukaida, Jun; Yamanaka, Toshiyuki; Kajiyama, Tetsuto; Kitano, Takeshi</b>
S06-129	Promoting changes in protein structure as means of tailoring properties of fish gelatin biocomposites. <b>Etxabide, Alaitz; Uranga, Jone; Urdanpilleta, Marta; Guerrero, Pedro*</b>
S06-143	Preparation of PLLA/PDLA Blends with High Stereocomplex Crystals Content through an Efficient Thermal Treatment Method. <b>Zhang, Zheng-Chi; Zhong, Gan-Ji; Li, Zhong-Ming*</b>
S06-150	Towards high-performance poly(L-lactide) products by tailoring crystallization with the aid of fibrous nucleating agent. <b>Bai, Hongwei; Huang, Chunmei; Zhang, Huixian; Fan, Mingfeng; Fu, Qiang*</b>
S06-154	PBAT/Thermoplastic Starch Blends: "Effects of Oxidized Starch and Compatibilizer Content". <b>Can, Buse Nur; Ozkoc, Guralp*</b>
S06-16	Improvement of mechanical properties due to increased fiber matrix adhesion in flax fiber reinforced polypropylene. <b>Malfatti, Andrea*; Steuernagel, Leif;</b>

<b>Meiners, Dieter</b>	
S06-174	Preparation and characterization of polysaccharide hydrogels based on modified starch. <b>Lee, Jungmin; Park, Jongshin*</b>
S06-198	Effects of Shear Flow on Crystalline morphology of Polylactic Acid <b>Li, Yang; Xu, Jia-Zhuang*; Li, Zhong-Ming</b>
S06-208	The Effects of Gamma irradiation on the Mechanical and Thermal Properties of Poly(lactic acid). <b>Kodal, Mehmet*; Elchekwis, Abdulmounem; Özkoç, Güralp</b>
S06-255	Chemo-enzymatic synthesis and functionalization of a renewable lignin-derived bisphenol: promising biobased antiradical additive and phenolic monomers. <b>Jaufurally, Abdus Samad; Teixeira, Andreia; Hollande, Louis; Ducrot, Paul-Henri; Allais Florent*</b>
S06-266	ADMET polymerization of biobased monomers deriving from syringaresinol. <b>Hollande, Louis; Jaufurally, Abdus Samad; Ducrot, Paul-Henri; Allais, Florent*</b>
S06-286	Minimizing Polymer Degradation In A Spray Drying Process Of Aloe Vera (Barbadosis Miller) Mucilage (Biopolymer). <b>Calderas, Fausto*; Medina-Torres, Luis; Nuñez-Ramirez, Diola Marina; Sanchez-Oliv, Ares Guadalupe; Santiago-Adame, Ruben; Manero Octavio</b>
S06-299	Effect of Fiber type on the properties of biobased polymer composites. <b>Hammiche, Dalila*; Boukerrou, Amar; Djidjelli, Hocine; Grohens, Yve</b>
S06-303	Fabrication high-performance and optically transparent polylactide stereocomplex by low-temperature powder sintering. <b>Bai, Dongyu; Bai, Hongwei*; Fu, Qiang</b>
S06-343	Preparation Of Natural Rubber (Nr) /Polycaprolactone (Pcl) Bio-Based Shape Memory Polymer Blends. <b>Lai, Sun-Mou*; Lai, Sun-Mou; Liu, Jung-Liang; Wang, Chun-Chieh; Liao, Wan-Lin; He, Yu-Ting; Huang, Yu-Wei; Yeh, Hi-Ju; Luo, De-Ting; Chang, Chih-Ning</b>
S06-344	Assessment of structural changes and rheological behavior of potato and pea starches under extrusion conditions. <b>Logie, Nicolas*; Della Valle, Guy; Descamps, Nicolas; Soulestin, Jérémie</b>
S06-358	Effect of olive husk flower on the properties of biobased polymer composites. <b>Boukerrou, Amar*; Hammiche, Dalila; Djidjelli, Hocine; Beridi, Maria José Fernandez</b>
S06-378	Jute fiber- reinforced PEBD/PLA biocomposites: Evaluation of Thermo-Mechanical properties and Morphology. <b>Boubekeur, Bahia*; Belhaneche-Bensemra, Naima; Massardier, Valérie</b>
S06-400	Bio-based Thermoplastic Elastomer Containing Polylactide and Natural Rubber via Admicellar Polymerization. <b>Tiewtragool, Phornkamol*; Magaraphan, Rathanawan</b>
S06-409	Tailoring the oxygen gas barrier property in biodegradable poly(propylene carbonate) composites. <b>Shen, Yucui*; Wang Tingwei</b>
S06-439	Ultra-High-Modulus Porous Polymer/Hydroxyapatite Composite Scaffold for Significantly Enhancing Cranial Bone Regeneration. <b>Li, Zhong-Ming*; Zhang, Jin; Ding, Jian-Xun; Liu, He; Zhuang, Xiu-Li; Chen, Xue-Si; Wang, Jin-Cheng</b>
S06-458	Welding of Bio-Based Plastics for Applications in the Field of Injection Moulding <b>Hopmann, Christian; Facklam, Martin; Schoengart, Maximilian*</b>
S06-51	Thermal, Rheological and morphological Properties of PLA/EVA – ATBC Blends. <b>Aouachria, Kamira; Massardier, Valerie*</b>
S06-667	Comparative study of nanocomposite materials reinforced with different cellulose nanofibrils: Morphologies, physical and interfacial properties. <b>Ben Hamou, Karima*; Kaddami, Hamid; Dufresne, Alain; Magnin, Albert</b>

S06-686	Effect of sorbitol/glycerol ratio on hydrogen bond formation and crystallization of co-plasticized starch. <b>Esmaili, Mohsen; Bagheri, Reza; Pircheraghi, Gholamreza*</b>
S06-687	Development of cellulose based polymer composite with enhanced through-the-thickness properties. <b>Hajlane, Abdelghani*; Kaddami, Hamid; Joffe, Roberts</b>
S06-712	A new process for the preparation of composites and nanocomposites of cellulose pulp and cellulose nanofibers for rigid panels fabrication <b>Carvalho, Antonio José Felix*; Chiromito, Emanoele Maria Santos; Trovatti, Eliane</b>
S06-778	Design And Characterization Of Polyhydroxyalkanoates Nanoparticles Loaded With Silymarin For Drug Delivery Applications. <b>Stanescu, Paul Octavian*; Radu, Ionut; Zaharia, Catalin; Vasile, Eugenia; Galateanu, Bianca</b>
S06-790	Compatibilizing co-Plasticized Cellulose Acetate/Water Soluble Polymers Blends by Reactive Extrusion. <b>Quintana, Robert*; Persenarie, Olivier; Lemmouchi, Yahia; Bonnaud, Leila; Dubois, Philippe</b>
S06-792	Comparison of Different Esters as Co-plasticizer in Edible Thermoplastic Starch Films. <b>Ozge Ozkoc, Semin*; Sungur, Seval; Kaval, Melike; Ozkoc, Guralp</b>
S07-56	Behaviour Of The Thermal Conductivity Of Amorphous Polymers. <b>Santos, Wilson Nunes dos*</b>
S07-64	Polymer Film Production And Rheological Characteristics Of Forming Solutions. <b>Pyshnograï, Grigory*; Naud, Jean-Charles; Kondratieva, Olga; Tregubova, Julia</b>
S07-647	Unusual pvT-behavior of amorphous polymers under processing conditions and consequences for the process simulation. <b>Forstner, Reinhard*; Freytag, Rotraud; Jil Perez, Jose Antonio; Maticka, Claudia</b>
S08-236	Application Of Self-Tuning Pi Controller To Resin Transfer Molding. <b>Wang, Kai-Hong; Chuang, Yao-Chen; Yao, Yuan*</b>
S08-462	Tensile Impact Testing on Polymer Materials Considering the Force-Oscillation Phenomenon. <b>Hopmann, Christian; Klein, Jan; Schoengart, Maximilian*</b>
S08-463	Spatially Resolved Temperature Measurement in Injection Moulding Using Ultrasound Tomography. <b>Hopmann, Christian; Wipperfürth, Jens; Schoengart, Maximilian*</b>
S08-87	Development of a novel and adaptable injection unit for an automated and quality controlled manufacturing of RTM parts for aerospace applications. <b>Hopmann, Christian; Fecher, Marc Linus; Boettcher, Arne*; Fischer, Kai</b>
S09-111	Effect of reactive extrusion conditions on the properties of PA6 organoclay nanocomposites. <b>Tuna, Basak*</b>
S09-190	Monitoring the polymerization of an acrylic-based formulation in a RTM process: application to thermoplastic-based composites. <b>Fontanier, Jean-Charles*; Lortie, Frédéric; Gérard, Jean-François</b>
S09-318	The Study of Preparation and Heat Stabilization of Complexes of Calcium,Zinc,Lanthanum (III)With N-(2-amino ethyl) Maleamic Acid Radical on PVC. <b>Li, Miao*</b>
S09-658	A reactive extrusion process with the aid of ultrasound for preparing cross-linked polypropylene. <b>Yang, Mingtao; Li, Jiang*; Guo, Shaoyun</b>
S09-785	Waterborne polyurethane modified with silicone macromer and the nylon airbag coated with it. <b>Shin, Hyeon Jeong*; Go, Cheol Wan; Jeong, Han Mo</b>
S09-88	Production of CFRP components with clear surface layer in the PU spray impregnation process. <b>Hopmann, Christian; Karatzias, Christos; Boettcher, Arne*; Fischer, Kai</b>
S10-17	Rheological Behavior Modelling for the Copolymer Hydrogenated Poly (isoprene-co-styrene) Solutions. <b>Stanciu, Ioana Stanciu Ioana*</b>
S10-354	A comparative study on structural recovery of nanoparticles after cessation of steady shear flow: the effect of nanoparticle flexibility. <b>Ranjbar, Behnaz;</b>

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**Ghassinejad, Sina; Nazockdast, Hossein\***

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- S10-372 Using Torque Rheology to Characterise Cure of Bio-based Powder Coatings **Dranebois, Clemence Noemie Elvire\***; **Smith, Dawn Alison; de Silva, Karnika; Taylor, Mark**
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- S10-411 Rheological Behaviors of Graphene/Nylon 6 Composites **Wu, Chang-Mou\***; **Lai, Wen-You; Cheong, Sh-Shen; Chang, Teng-Hsiang**
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- S10-436 Rheological Investigation of the sol-gel transition of PIL's hydrogels **Ratel, Olivier\***; **Srouf Hassan; Majesté, Jean-Charles; Monnereau, Cyrille; Carrot, Christian**
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- S10-480 Crystallization of Polypropylene Materials Studied by Low-Field RheoNMR. **Räntzsch, Volker\***; **Özen, Mürüvvet Begüm; Ratzsch, Karl-Friedrich; Guthausen, Gisela; Wilhelm, Manfred**
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- S10-561 Survey of the Effect of Graphene Nano-sheets on Morphology, Rheology and Electrical Conductivity in PS/PMMA Blends. **Zaeferani, Erfan; Goharpey, Fatemeh\***
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- S10-570 Correlating Crystallization Kinetics and Rheological Properties of Polyethylene Using a Newly Developed Low-Field Rheo-NMR Combination. **Özen, Mürüvvet Begüm\***; **Ratzsch, Karl-Friedrich; Räntzsch, Volker; Vittorias, Iakovos; Wilhelm Manfred**
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- S10-703 Rheological properties of blacked PE-100 compounds prepared using different carbon black masterbatches. **Pircheraghi, Gholamreza\***; **Sarafpoor, Amirhossein; Hafezi, Mohammad Javad; Rashedi, Reza; Afzali, Seyed Kamal; Sepahi, Abdul Hanan**
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- S10-78 Combined Pulsating And Oscillating Flow Of A Non-Newtonian Biological Liquid. **Herrera Valencia, Edtson Emilio\***; **Calderas Garcia, Fausto; Sanchez Villavicencio, Mayra Luz; Perez Camacho, Mariano; Medina Torres, Luis**
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- S10-79 Generalized Darcy Equation of a Complex Fluid Using a Bautista-Manero-Puig Constitutive Equation. **Herrera Valencia, Edtson Emilio\***; **Calderas Garcia, Fausto; Sanchez Villavicencio, Mayra Luz; Perez Camacho, Mariano; Medina Torres, Luis**
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- S10-793 Using rheology to understand the structure-processing-property relationships of thermoplastic melts and composites. **Fraisse, Frédéric\***; **Rohn Chuck**
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**Thursday, July 28 6:30-8:00 pm**

**Venue: Exhibit and poster Hall - Forum 2**

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- S11-219 The Recent Developments in Tire Uniformity. **Koca, Kayhan\***; **Kodal, Mehmet; Özkoç Güralp; Gerengi, Hüsnü**
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- S11-234 Flow instabilities of silica filled elastomer compounds. **Honda, Shinichiro\***; **Kawamura Takanobu; Tada Toshio**
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- S11-295 Synthesis and Characterization of Nanosilica from Rice Husk Ash as a filler of SBR Rubber. **Alonso, Ximena; Mantero, Carlos; Mosca, Daniel; Raimonda, Pablo\***
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- S11-395 Control of the surface wrinkling structure on the surface of Polydimethylsiloxane microspheres via a simple low-cost and environmentally friendly route. **Zheng, Shaodi; Xie, Banghu\***; **Liu, Zhengying; Yang, Mingbo**
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- S11-405 Influence of Rubber Latex as an Impact Modifier in Wood Composites. **Siripornamart, Natchaya\***
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- S11-477 Influence of viscoelastic filler network on reinforcement and dissipation of natural rubber nanocomposites. **Malebennur Nagaraja, Sriharish\***; **Mujtaba, Anas; Beiner, Mario**
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- S11-75 Two-Component Injection Moulding of Thermoplastics with Thermoset Rubbers:
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	Process Development. <b>Bex, Gert-Jan*</b> ; <b>De Keyzer, Jozefien</b> ; <b>Desplentere, Frederik</b> ; <b>Van Bael, Albert</b>
S11-769	Polyolefin Elastomer grafted Unsaturated Hindered Phenol Esters: Synthesis and Antioxidant Behavior. <b>Manteghi, Amin</b> ; <b>Ahmadi, Shervin*</b> ; <b>Arabi, Hassan</b>
S12-114	Influences of Deposition Time of Arc Ion Plated Diamond-like Carbon Films on the Polyamide 66 fabric. <b>Chin, Chih-Ping</b> ; <b>Cheng, Kou-Bin*</b> ; <b>Liu, Jenyung</b> ; <b>Chang, Jing-Tang</b> ; <b>Huang, Fu-liang</b>
S12-155	Corn-Bran as an Alternative Cellulosic Filler in Polypropylene Matrix <b>Can, Buse Nur*</b> ; <b>Kuman, Aylin</b> ; <b>Gozutok, Cansu</b> ; <b>Ozkoc, Guralp</b>
S12-238	Anisotropic Structure and Birefringence Control of Polymeric Films. <b>Shimada, Hikaru</b> ; <b>Nobukawa, Shogo</b> ; <b>Yamaguchi, Masayuki*</b>
S12-239	Effects of molecular weight distribution and stereoregularity on mechanical properties and structure of Isotactic Polypropylene (iPP) fiber. <b>Kunimitsu, Tatsuma</b> ; <b>Toyoda, Kai</b> ; <b>Ikaga, Toshihumi</b> ; <b>Kim, Kyoung Hou</b> ; <b>Ohkoshi, Yutaka*</b> ; <b>Koike, Katsuhiko</b>
S12-300	Precise Control of Three Dimensional Refractive Index by Incorporation of Additives. <b>Yamaguchi, Masayuki*</b> ; <b>Nobukawa, Shogo</b> ; <b>Kiyama, Ayumi</b>
S12-389	Flow-Induced Fibrillation of Isotactic Polypropylene under Pressure <b>Lei, Jun*</b> ; <b>Yang, Shu-Gui</b>
S12-392	The study of microporous membranes obtained from polyethylene by blown film process. <b>Wang, Yue</b> ; <b>Yang, Mingbo*</b>
S12-531	Interfacial Strength of Twaron Fiber/PCL Composite Materials. <b>Chen, Jieng-Chiang*</b> ; <b>Wu, Chang-Mou</b> ; <b>Teng, Yi-An</b> ; <b>Wang, Jie-Mao</b>
S12-534	Tensile Characteristics of Cotton Fabrics/PLA Composites. <b>Chen, Jieng-Chiang*</b> ; <b>Wu, Chang-Mou</b> ; <b>Yang, Chin-Chih</b>
S12-562	AFM-Raman Co-localization setup: Advanced characterization technique for polymers. <b>Cosas Fernandes, Joao*</b> ; <b>Gonon, Laurent</b> ; <b>Mareau, Vincent</b>
S12-607	Key attributes for lignin-based high modulus carbon fibers. <b>Al Aiti, Muhannad*</b> ; <b>Bruenig, Harald</b> ; <b>Leuteritz, Andreas</b> ; <b>Gohs, Uwe</b> ; <b>Wagenknecht, Udo</b> ; <b>Heinrich, Gert</b>
S12-688	Study of Dyeing Polylactic Acid Fiber with High Molecular Dyestuffs. <b>Liao, Shen-Kung*</b> ; <b>Lee, Chia-Chun</b> ; <b>Wu, Chung-Tse</b> ; <b>Liao, Yu-Chen</b>
S12-689	Vinylsulphone Reactive Dye to Dyeing three kinds of fiber with Supercritical Fluid Carbon dioxide. <b>Liao, Shen-Kung*</b> ; <b>Lin, Wan-Li</b> ; <b>Lai, Yan-Rong</b>
S12-694	Biocomposites materials based on carboxymethyl cellulose/polyethylene glycol/hydroxyapatite for bone regeneration. <b>Khalifi Taghzouti, Othman*</b> ; <b>El Mabrouk, Khalil</b>
S12-709	Hydrophilic modification of polypropylene microporous membrane via molecular migration and self-assembly of DMDBS under elongational flow. <b>Wang, Shan*</b> ; <b>Xiong, Chuanxi</b> ; <b>Guo Shaoyun</b> ; <b>Ajji, Abdellah</b>
S12-725	Sub- and Supercritical CO <sub>2</sub> assisted melt spinning of biopolymers. <b>Fernández Ronco, María Pilar*</b> ; <b>Hufenus, Rudolf</b> ; <b>Heuberger, Manfred</b>
S12-95	Preparation and properties of PCL hollow fiber and its guidance on the proliferation of Schwann cells. <b>Lien, Wei</b> ; <b>Cheng, Liao-Ping</b> ; <b>Lee, Chia-Fen</b> ; <b>Don, Trong-Ming*</b>
S12-567	Structure Control of Poly(Ethylene Terephthalate) Fibers using Capillary Diameter of Spinneret in Melt Spinning Process. <b>Kim, Do-Kun</b> ; <b>Lee, Joo-Hyung</b> ; <b>Lim, Ki-Sub</b> ; <b>Nam, In-Woo</b> ; <b>Hahm, Wan-Gyu*</b>
S13-432	A Study on manufacturing thermoplastic CFRP products using Injection/Compression molding process. <b>Jeong, Euichul</b> ; <b>Kim, Jongsun</b> ; <b>Yoon,</b>

<b>Kyunghwan; Lee, Sangyong; Son, Jungeon; Lee, Sunghee*</b>	
S13-737	Morphology and mechanical properties of micro-injection molded polymer products. <b>Wang, Shiwei; Li, Qian*; Hu, Guo-Hua</b>
S13-86	Production of plastics parts with partially or fully metallic surfaces using the In-Mould-Metal-Spraying (IMMS). <b>Hopmann, Christian; Theunissen, Matthias*; Ochotta, Philipp; Katmer, Sukran; Bobzin, Kirsten; Öte, Mehmet; Linke, Thomas Frederik; Liao, Xifang</b>
S13-99	Development of a highly segmented temperature control in injection moulding for reduced warpage and increased process stability <b>Hopmann, Christian; Theunissen, Matthias*; Schmitz, Mauritius; Nikoleizig, Philipp</b>
S14-319	The Study of Preparation and Heat Stabilization of Complexes of Calcium,Zinc,Lanthanum (III)With N-(2-amino ethyl) Maleamic Acid Radical on PVC . <b>Li, Miao; Wang, Xianbin; Wu, Yongxin; Liang, Yaodong; Li, Kanshe*</b>
S14-505	An Insight Toward the Distributive and Dispersive Mixing in a Pressure Flow. <b>Mostafaiyan, Mehdi*; Wiessner, Sven; Heinrich, Gert</b>
S14-82	Properties of Polyamide 6-Graphene-Composites Produced and Processed on Industrial Scale. <b>Hopmann, Christian; Adamy, Maximilian; Windeck, Christian; Yesildag, Nafi*</b>
S15-137	Facilely Assess The Soluble Behaviour of Nucleating Agent by Gradient Temperature Field for Construction of Crystalline Frameworks in iPP. <b>Wang, Ke*; Zhang, Qin; Wu, Zhiqiang; Fu, Qiang</b>
S15-118	Nonisothermal Crystallization Behaviors of Nanocomposites Prepared by In-Situ Polymerization of High-Density Polyethylene on Tungsten Oxide Particles. <b>Seo, Yongsok*</b>
S15-185	Structural evolution of isotactic-polypropylene during creep under sub-yield stress: a study by in situ synchrotron small angle X-ray scattering. <b>Chang, Baobao*; Schneider, Konrad; Heinrich, Gert</b>
S15-330	Morphology development of block copolymer containing Carbon Nanotube <b>Hasanabadi, Noushin; Lattuada, Marco; Nazockdast, Hossein*</b>
S15-345	Tunable crystalline morphologies and enhanced mechanical properties of isotactic polypropylene under multistage combined stress. <b>Wu, Hong*; Wang, Cuilin; Wang, Jianfeng; Guo, Shaoyun</b>
S15-425	Droplet coalescence and clustering behavior in microsphere-filled PIB/PDMS blends under shear flow: The key role of component ratio <b>Mao, Chaoying; Huang, Yajiang*; Kong, Miqiu; Yang, Qi; Li, Guangxian</b>
S15-435	Morphology Development Mechanisms of Viscoelastic Polymer Blends. <b>Sundararaj, Uttandaraman*</b>
S15-46	Characterization of old welded polyethylene gas pipes in service for up to 29 years. <b>Talhi, Fatima Zohra*; Belhaneche-Bensemra, Naima; Benaniba, Mohamed Tahar; Massardier, Valérie</b>
S15-516	Three-Dimensional Hygrothermal Anisotropic Moisture Uptake in Bismaleimide/Quartz Laminates. <b>Rodriguez, Luis A.; Grace Landon R.*</b>
S15-666	Synthesis and Structure of Permanently Antistatic Monomer Casting Nylon-6-b-Polyether Amine Copolymers. <b>Xiang, Meng; Ye, Lin*</b>
S16-302	Effective Pelletizing condition of recycle containers and package plastics. <b>Takenaka, Nozomi; Tominaga, Aya; Nakano, Ryoko; Sekiguchi, Hiroshi; Yao, Shigeru*</b>
S16-433	Mechanical Joining of Metal Sheets and CFRTP by Using High Frequency Induction Heating. <b>Kuwabara, Kou; Yasuhara, Toshiyuki*</b>
S16-49	Thermal Stabilisation and Flexibility Improvement of Plasticised Poly(vinyl chloride) using Biobased Plasticisers. <b>Benaniba, Mohamed Tahar; Massardier,</b>

<b>Valerie*</b>	
S16-595	A New Continuous Extensional Flow Mixer for Compounding and Recycling of Complex Polymer Blends. <b>Mani, Skander*</b>
S16-596	Devulcanization Of Waste Tire Rubber By Microwaves. <b>De Sousa, Fabiula D. B.*; Scuracchio, Carlos H.; Hu, Guo-Hua; Hoppe Sandrine</b>
S18-650	Layer strength of FDM type 3D printed article for nozzle temperature and filament material. <b>Lyu, Min-Young*; Park, J. H.; Park, S. J.; Lee, K. H.</b>
S19-381	Frictional Properties of Plants-Derived Polyamide against Surface Microstructures of Metal Counterpart Fabricated by Femtosecond Laser. <b>Nakamura, Keisuke; Nishitani, Yosuke*; Kitano, Takeshi</b>
S19-544	Solvent Effects on the Molecular Dynamics of Relaxor Ferroelectric P(VDF-TrFE-CTFE) and Electrostrictive Behaviors Thereof. <b>Liu, Qing*; Capsal, Jean-Fabien; Richard, Claude</b>
S19-584	Fabrication of polymer and carbon nanotubes based artificial muscles through controlled electrospinning processes. <b>Sun, Yu-Chen; Shi, Hao Tian; Naguib, Hani*</b>
S19-638	New Drug-Loaded Phosphorus Dendrimers: Their synthesis and anticancer activities. <b>El Brahm, Nabil*; El Kazzouli, Said; Mignani Serge; Cresteil Thierry; Bousmina Mostapha; Majoral Jean Pierre</b>
S19-787	Aluminum hydroxide–CNT hybrid material for synergizing the thermal conductivity of alumina sphere/thermoplastic polyurethane composite with minimal increase of electrical conductivity. <b>Seo, Baek Beom*; Kim, Jeong Ho; Dao, Trung Dung; Jeong, Han Mo</b>
S20-665	Synthesis and Structure of Polyvinyl alcohol-g-acrylic acid -2-acrylamido-2-methyl-1-propanesulfonic acid Hydrogel for Advanced Pb(II) Removal. <b>Hui, Bing; Ye, Lin*</b>
S20-796	Wastewater Treatment By Synthetic Zeolite <b>Khedim, Mohamed Amin; Feddag; Bengueddach;</b>

## Social activities

### Banquet

The banquet will be organized at the Brasserie Georges (an authentic and historical place in Lyon's gastronomy) <http://www.brasseriegeorges.com/home.aspx>. You can still book your ticket at the registration desk

### Tourism

"Only Lyon tourism" will have a desk in the main hall of the conference center and also at the hotel reception desk for accompanying person activities and touristic tours.

The PPS-32 conference can provide a Conference Pass at the special rate for one person /1 day which gives access to the entire transportation network.

**Lyon City Card, the essential card:** More details are given in <http://pps-32.sciencesconf.org/>

The Lyon City Card is the pass you need during your stay in Lyon. The card lets you make the most of your stay while saving money, too. You can choose between the 1, 2 or 3-day pass. Roam freely with access to public transport, enjoy free entry to all museums in the town and their exhibitions, see the highlights of the town on guided tours, take a relaxing boat trip down the rivers of Lyon, and more. The Lyon City Card offers free admission to 31 cultural and leisure activities and discounts on 13 others!

For more information: <https://www.lyoncitycard.com/?lang=2>

**Contact and booking:** [droduiguez@lyon-france.com](mailto:droduiguez@lyon-france.com)

Tel: 0033 4 72 77 05 12



## Guided Tours and Excursions for PPS-32 Attendees

Find out everything there is to know about the Renaissance district and the famous Lyonnais silk and industry district. Remember, do not forget to book online or call us directly at: [visit@lyon-france.com](mailto:visit@lyon-france.com) – Tel: 0033 4 72 77 72 33

<http://www.en.lyon-france.com/Guided-Tours-Excursions>

- Old Lyon's Renaissance District And Its Traboules
- The Secrets Of Lyon's Gastronomy
- From Fourviere To the Old Lyon.
- Traboules Of The Croix-Rousse Hill And The Silk
- The Traboules Of Croix Rouse And The Famous Murals

More details are given in <http://pps-32.sciencesconf.org>



## Addresses for Lunch-List of Restaurants near to the Lyon conference center



**Le Bistrot Rive Gauche - BRG**  
Hôtel Crowne Plaza - 22 quai Charles de Gaulle  
Tél : 04.78.17.86.84  
100 couverts en salle + 20 en terrasse  
Cuisine régionale de saison et fruits de mer  
Menu du jour à 20,50 €

**33 Cité**  
33 quai Charles de Gaulle  
Tél : 04.37.45.45.45  
Cuisine de marché  
150 couverts + 40 en mezzanine + 150 en terrasse  
Menu à partir de 21,50 €

**Pizzeria Terrazzura**  
34 quai Charles de Gaulle  
Tél : 04.72.44.37.18  
140 couverts + 100 en terrasse  
Menu à partir de 13,40 €  
Plat du jour à 10,90 €

**Le Comptoir de Joa**  
44 quai Charles de Gaulle  
Tél : 04.78.94.97.28  
Restaurant type brasserie  
150 couverts + 100 en terrasse  
Plat du jour à 10,50 €  
Menu à partir de 14,90 €

**Les Coulisses**  
44 quai Charles de Gaulle  
Tél : 09.82.33.05.39  
Spécialité : japonaises  
Menu à partir de 13,50 €

**Suelta Verde**  
45 quai Charles de Gaulle  
Tél : 04.72.82.08.87  
Cuisine Mexicaine  
90 couverts en salle + 90 en terrasse  
Plat du jour : 8,60 €  
Menu à partir de 11 €

**L'Endroit**  
62 Quai Charles De Gaulle  
Tél : 04 72 44 02 21  
115 couverts + 80 en terrasse  
Plat du Jour : 11 €  
Menu à partir de 21 €

**Brasserie du Marriott**  
Marriott Lyon – 70 quai Charles de Gaulle  
Tél : 04.78.17.50.00  
Cuisine traditionnelle  
140 couverts en salle + 50 en terrasse  
Plat et boisson : 25 € (midi) / 35 € (soir)

**La Vallée des Rois (Casino)**  
70 quai Charles de Gaulle  
Tél : 04.78.17.53.53  
Cuisine traditionnelle  
60 couverts en salle  
Formule express à 12 €  
Menu du jour à 16 €

### Café | Sandwicherie | Saladerie

**Le Régal House**  
34 quai Charles de Gaulle  
Tél : 04.78.94.89.85  
Spécialité : sandwichs, Pâtisserie, Vienn  
salon de thé, burgers, beagles  
Plat du jour : 8,50 €

**Crocus Mezzo Di Pasta**  
45 quai Charles de Gaulle  
Tél : 04.37.42.32.49  
Spécialité : pâtes, sandwichs et salades  
Menu pâtes à partir de 7,60 €  
Menu salade à partir de 10,50 €

**Le Pain de la Cité**  
63 quai Charles de Gaulle  
Tél : 04.78.93.14.47  
Spécialité : sandwichs et salades  
Menu à partir de 6,40 €

**Bert's Café Contemporain**  
UGC Ciné Cité – 80 quai Charles de Gau  
Tél : 04.72.69.70.70  
Spécialité paninis, salades  
Menu à partir de 7,90 €

**Café du Musée**  
Musée d'art Contemporain  
81 quai Charles de Gaulle  
Tél : 04.78.93.36.35  
70 couverts en salle + 70 en terrasse  
Plat du jour 9,80 €  
Menu à partir de 15,80€

**Class'Croûte**  
85 quai Charles de Gaulle  
Tél : 04.78.89.97.26  
Salades, sandwichs, plats chauds...  
Menu à partir de 4,90 €

\*Technical Program Book edited by  
Dr. Khalid Lamnawar (Associate Prof.)  
and Prof. Abderrahim Maazouz (PPS-32 Chairman)



# PPS<sup>32</sup>

32nd, International Conference of the  
POLYMER PROCESSING SOCIETY

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