



**3<sup>RD</sup> INTERNATIONAL  
CONFERENCE ON  
BIODEGRADABLE AND  
BIOBASED POLYMERS  
SCIENTIFIC PROGRAM**

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**BIOPOL - 2011**



**29-31 AUGUST  
2011**

**STRASBOURG - FRANCE**

<http://biopol.unistra.fr>



**oleon**

Grande Sofiprotéol



**SOPREMA**

**AHLSTROM**





# BIOPOL 2011



Dear Participant,

We would like to welcome you to the **3<sup>rd</sup> International Conference on Biodegradable and Biobased Polymers (BIOPOL - 2011)** and wish you a pleasant stay in our city.

Hereafter you will find some useful information about the Conference. Additional information could be found at <http://biopol.unistra.fr>

## **CONFERENCE VENUE**

The conference will be held at the European Engineering school of Chemistry, Polymers and Materials Science (ECPM) of the University of Strasbourg located on the Cronenbourg Campus (see next pages for map).

All oral sessions will be held in the 3<sup>rd</sup> floor of ECPM building at Amphitheatre "Forestier". Coffee and Posters Sessions will be held in the 2<sup>nd</sup> floor.

## **REGISTRATION DESK**

Registration desk will be open from 09:00 on Monday 29<sup>th</sup> at the Conference Venue Hall.

## **CONGRESS SECRETARIAT**

The congress secretariat will be located in the Conference Venue Hall. Please direct all inquiries concerning the meeting to [conf-biopol2011@unistra.fr](mailto:conf-biopol2011@unistra.fr)

## **INTERNET CONNECTION**

A free secured Wi-Fi service is available at the Conference Venue during the 3 days of the conference. The login is: **conf-biopol** and password is: **ecpm2011**

## **MEALS**

Lunches will be served at 12:00 (12:30 on Monday 29) at the CROUS Restaurant on the Cronenbourg campus (in red on the campus map – see next pages).

## Conference venue: ECPM and Cronenbourg Campus location

The map below shows the location of the Cronenbourg Campus (in red) in the Northwest suburbs of Strasbourg. The distance between the train station (indicated as Gare) and the Cronenbourg Campus is approximately 4 km.



Strasbourg historical city centre is located east of the train station. From the train station and main hotels area you can easily access (walking or by tram) the city centre and the main touristic sites: "Petite France" (0.8 km) and the "Cathédrale" (1.4 km).

## How to reach ECPM and the Cronenbourg Campus (see the map below)

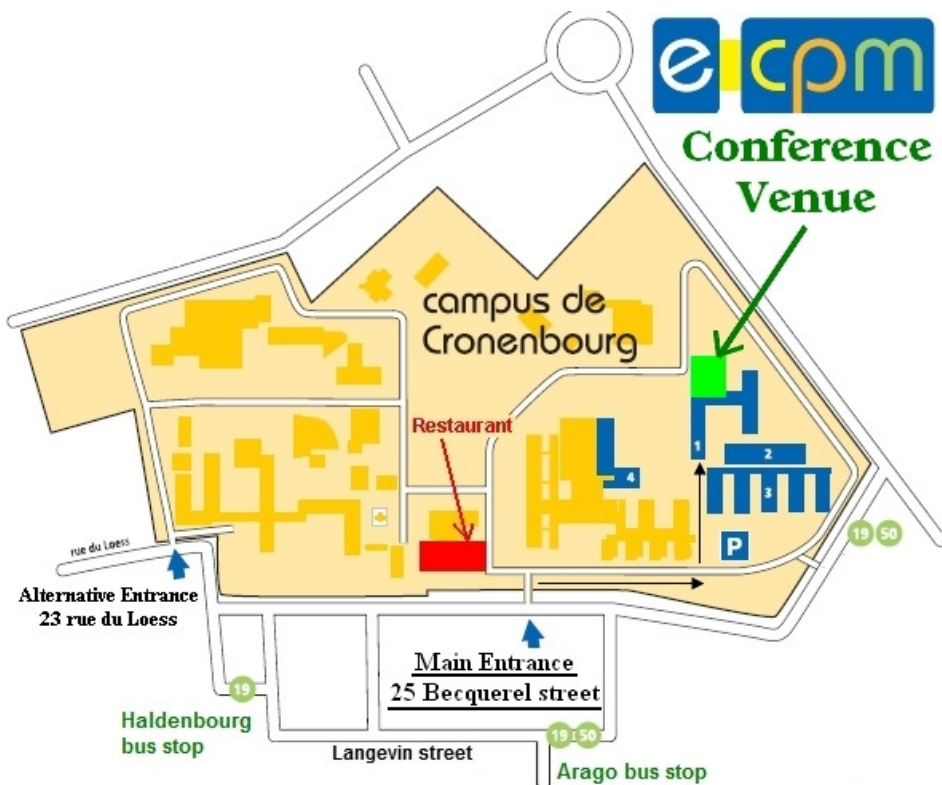
On Monday 29<sup>th</sup> morning (and the other days if you miss the conference bus shuttle) you can reach the conference venue following the instructions provided below. It is strongly advised to use public transportation (Tram + Bus) and walking is not recommended. Tickets can be purchased from vending machines at all tramway stops (cash or credit card). These tickets are also valid for buses. Tickets can also be bought from bus drivers (exact change preferred). Note that tramway drivers do not sell any tickets.

### *Plan at least a 30 min journey (Tram + Bus) from the Train Station to ECPM!*

You can reach the Cronenbourg Campus from the Train Station by taking the tram (line A or D bound for “*Rotonde*” or “*Hautepierre*”) and get off at the stop “*Rotonde*”. From this stop take bus number 19 bound for “*Chambre des métiers*” or for “*Cronenbourg-Arago*”, get off at “*Haldenbourg*” or “*Arago*”, then walk to the Campus gate on the street “*rue Becquerel*”. Then follow the BIOPOL signs posted toward the lecture hall.

With a car you can also enter in the campus. Car parks close to ECPM are free.

The map below shows the main entrance of the Cronenbourg Campus, the location of ECPM Conference Venue (in green) and the location of the bus stops.



## CONFERENCE BUS SHUTTLES

The city centre departure area of the conference bus shuttles (in red on the map below) is located on "Boulevard de Metz" next to the large square of the train station (Gare SNCF) within a 300 m walking distance from the main hotels.

### Monday 29<sup>th</sup>

18:20 from ECPM to the city centre (Gare SNCF - Train station)

### Tuesday 30<sup>th</sup>

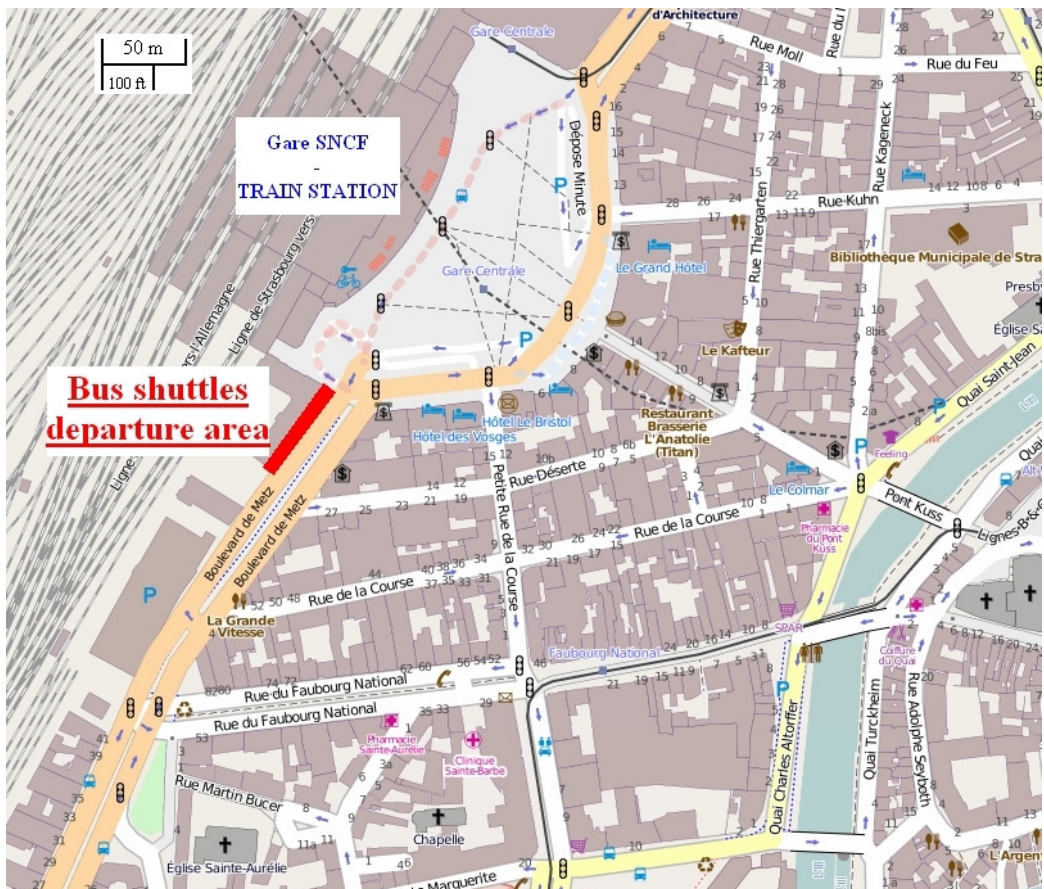
08:00 from train station (Gare SNCF) to ECPM - Cronenbourg Campus

17:45 from ECPM to the city centre (near the Boat Tour departure point)

### Wednesday 31<sup>st</sup>

08:00 from train station (Gare SNCF) to ECPM - Cronenbourg Campus

17:45 from ECPM to the city centre (Gare SNCF - Train station)



# SOCIAL PROGRAM

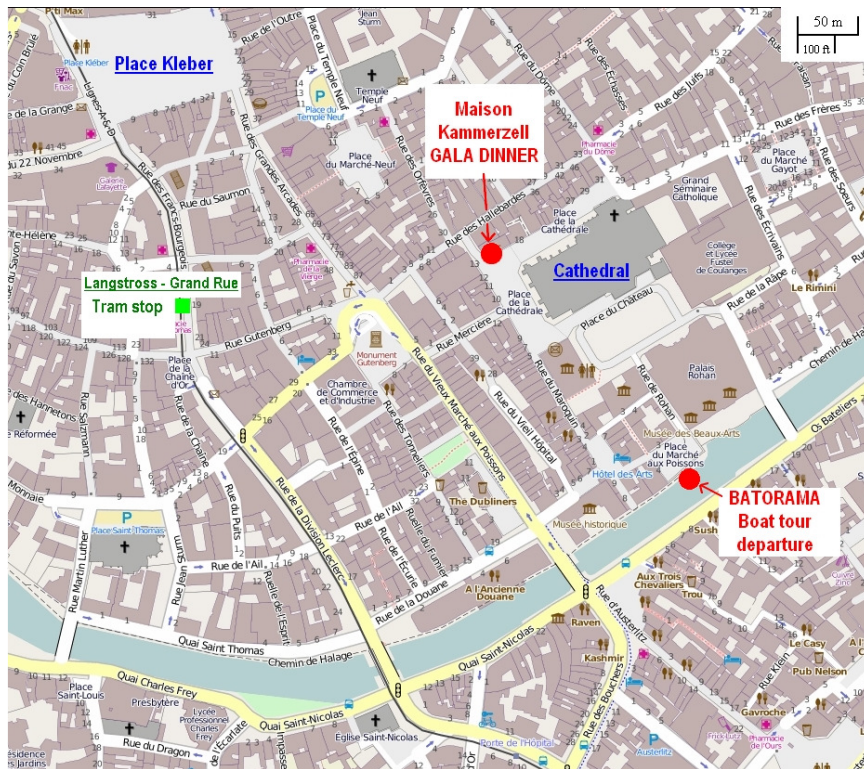
## BOAT TOUR (Tuesday 30<sup>th</sup> from 18:30)

The "BATORAMA" boat tour departure point (red point on the map below) is located next to the square "Place du marché aux poissons", near the "Palais des Rohan", approximately 150 m far from the Cathedral.

Please make sure to be at the boat departure point 15 min before schedule.

18:30 departure Boat n°1 / 18:45 departure Boat n°2 / 19:00 departure Boat n°3

The duration of the tour is approximately 1h15 min



## GALA DINNER (Tuesday 30<sup>th</sup> at 20:30)

The dinner takes place at the "Maison Kammerzell", located on the north corner of the Cathedral Square (red point on the map). In case you do not participate to the boat tour, you can reach the restaurant by tramway. The closest tram station is "Langstross Grand Rue" (tram line A or D).

## SCIENTIFIC COMMITTEE

### Europe:

**AC. Albertsson**, KTH Stockholm, Sweden  
**N. Billingham**, University of Sussex, UK  
**P. Dubois**, University of Mons, Belgium  
**A. Gandini**, University of Aveiro, Portugal  
**I. Mondragon**, Universidad País Vasco, Spain  
**D. Plackett**, Risø DTU, Denmark

### North & South America:

**RES. Bretas**, Universidade Fed. São Carlos, Brazil  
**J. Dorgan**, Colorado School of Mines, USA  
**RA. Gross**, Polytechnic Univ. of New York, USA  
**MC. Heuzey**, Ecole Polytech. Montreal, Canada  
**M. Huneault**, University of Sherbrooke, Canada  
**A. Vazquez**, University of Buenos Aires, Argentina

### Africa, Asia & Australia:

**K. Dean**, CSIRO Melbourne, Australia  
**R. Gilbert**, University of Queensland, Australia  
**P. Halley**, University of Queensland, Australia  
**S. Matsumura**, Keio University, Japan  
**A. Sharma**, Panjab University, India  
**S. Sinha Ray**, CSIR, South Africa

## ORGANIZING COMMITTEE

### **Pr. Luc Avérous**

ECPM-LIPHT, University of Strasbourg (Chairperson)

### **Dr. Eric Pollet**

ECPM-LIPHT, University of Strasbourg

### **Pr. Alfonso Jiménez**

University of Alicante

### **Dr. Verónica Martino**

University of Strasbourg

### **Dr. Elodie Hablot**

University of Strasbourg

### **Christine Guibert**

Cellule Congrès, University of Strasbourg



**MONDAY, AUGUST 29<sup>th</sup>, 2011**  
**(Bioplastics & Biomedical)**

09:00-10:00	<b>Start of the registration &amp; Coffee / Installation of Poster Session A</b>
10:00-10:30	<b>Welcome Session – Official opening ceremony</b>
<b>Session 1 – Chairperson: Pr. José Kenny</b>	
10:30-11:10	<b><u>Invited Lecture: Pr. Gero Decher</u> "Spray-on biocomposite and bioactive coatings"</b>
11:10-11:30	<b>M-OC1 Denis Lourdin</b> "Shape memory starch: a novel bio-sourced material"
11:30-11:50	<b>M-OC2 Matthijs de Geus</b> "Casein-based coating: rheological behaviour of concentrated casein dispersions"
11:50-12:10	<b>M-OC3 Lindy A. Heath</b> "Cellulose nanowhisiker aerogels "
12:10-12:20	<i>Information point</i>
12:20-13:40	<b>LUNCH BREAK</b>
13:40-14:00	<b>Coffee + Poster Session A</b>
<b>Session 2 – Chairperson: Dr. Katherine Dean</b>	
14:00-14:40	<b><u>Invited Lecture: Pr. José Kenny</u> "Biomaterials based on nanostructured PLA: nanopopography, nanoparticles and nanocomposites"</b>
14:40-15:00	<b>M-OC4 Elena Fortunati</b> "Multifunctional properties of PLA composites based on silver nanoparticles and nanocrystalline cellulose"
15:00-15:20	<b>M-OC5 Anna Musyanovych</b> "Biocompatible composite nanocarriers for drug delivery and cell imaging"
15:20-15:40	<b>M-OC6 Rosario E. S. Bretas</b> "Cell viability of nanofibers of bionanocomposites"
15:40-16:10	<b>Coffee Break + Poster Session A</b>
<b>Session 3 – Chairperson: Pr. Richard Gross</b>	
16:10-16:30	<b>M-OC7 Shuichi Matsumura</b> "Enzymatic synthesis and properties of polyester-type biobased elastomers"
16:30-16:50	<b>M-OC8 Maria Laura Foresti</b> "Enzyme catalysis: green routes for high value-added products derived from cellulose and starch"
16:50-17:10	<b>M-OC9 Anne-Sophie Lepeuple</b> "Production of volatile fatty acids by fermentation of primary and secondary sludge for polyhydroxyalkanoates production"
17:10-17:30	<b>M-OC10 Maria Albuquerque</b> " Efficient PHA production from surplus biobased feedstocks - sugar molasses and cheese whey-: possibility to effectively control the polymer composition"
17:30-17:50	<b>M-OC11 Guilhermino J. M. Fechine</b> "Photodegradation of PHB and PHBV biopolymers"
17:50-18:10	<b>M-OC12 Karen Stoeffler</b> "Polyvinyl alcohol composites based on cellulosic micro- and nanofillers "
18:10	<i>Information point</i>
18:20	<i>Departure of buses towards Train Station Square</i>



**TUESDAY, AUGUST 30<sup>th</sup>, 2011**  
**(Bioplastics)**

08:00	<i>Buses start from the Train Station Square</i>
08:20	<i>Arrival of the last bus at ECPM</i>
<b>Session 4 - Chairperson: Pr. Peter Halley</b>	
08:30-09:10	<b>Invited Lecture: Pr. Richard Gross</b> " $\omega$ -hydroxyfatty acids: new monomers for a versatile family of biobased polymers"
09:10-09:30	<b>T-OC1 Sophie Guillaume</b> "Non-isocyanate poly(carbonate-urethane)s towards green polymers"
09:30-09:50	<b>T-OC2 Carmen Bueno-Ferrer</b> "Synthesis and characterization of new thermoplastic polyurethanes based on dimmer fatty acids"
09:50-10:20	<b>Coffee Break + Poster Session A</b>
<b>Session 5 - Chairperson: Pr. David Plackett</b>	
10:20-11:00	<b>Invited Lecture: Pr. Suresh Narine</b> "Lipid derived polymers: a biorefinery approach "
11:00-11:20	<b>T-OC3 Jean-Marie Raquez</b> "Design of cross-linked semi-crystalline poly( $\epsilon$ -caprolactone) networks with one- and two- way shape memory properties"
11:20-11:40	<b>T-OC4 Rutger Knoop</b> "Synthesis of and molecular-, thermal and mechanical analysis of completely bio-based alternative for poly(ethylene terephthalate)"
11:40-12:00	<b>T-OC5 Vincent Ojijo</b> "Morphology-property relationship of polymer blends based on environmentally benign polymeric materials & organoclay"
12:00-13:20	<b>LUNCH BREAK</b>
13:20-13:40	<b>Coffee + End of Poster Session A / Installation of Poster Session B</b>
<b>Session 6 - Chairperson: Pr. Ramani Narayan</b>	
13:40-14:20	<b>Invited Lecture: Pr. Philippe Dubois</b> "Reactive processing as an efficient tool for bio-based polymeric materials"
14:20-14:40	<b>T-OC6 Fatima Hassouna</b> "New development on plasticized polylactide: chemical grafting of citrate on PLA by reactive extrusion"
14:40-15:00	<b>T-OC7 Nicolas Jacquiel</b> "Key parameters ion the pilot scale synthesis of poly(butylene succinate)"
15:00-15:20	<b>T-OC8 Andreia F. de Sousa</b> "Novel suberin based biopolyesters: from synthesis to properties"
15:20-15:40	<b>T-OC9 Marek M. Kowalczyk</b> "Current developments in environmentally degradable aliphatic biopolyesters and their synthetic analogues"
15:40-16:10	<b>Coffee Break + Poster Session B</b>
<b>Session 7 - Chairperson: Pr. Iñaki Mondragon</b>	
16:10-16:30	<b>T-OC10 Katherine Dean</b> "Biodegradation and toxicity of surface treated lignocellulose reinforced polylactic acid composites"
16:30-16:50	<b>T-OC11 Jérémie Soulestin</b> "Peculiar crystallization behaviour of injection moulded PLA parts"
16:50-17:10	<b>T-OC12 Nathalie Legros</b> "Wood fibre reinforced PLA and PLA/TPS biocomposites: processing, formulation and mechanical properties"
17:10-17:30	<b>T-OC13 Suwabun Chirachanchai</b> "Development of PLA blend clarity through the use of bioadditive"
17:30	<i>Information point</i>
17:45	<i>Departure of the Buses towards the Boat Tour (Batorama)</i>
18:30	18:30 Boat N°1 (100p.) / 18:45 Boat N°2 (100p.) / 19:00 Boat N°3 (100p.)
20:30	<b>Gala Dinner (Maison Kammerzell - Place de la Cathédrale)</b>



**WEDNESDAY, AUGUST 31<sup>st</sup>, 2011**  
**(Bioplastics & Applications)**

08:00	<i>Buses start from the Train Station Square</i>
08:20	<i>Arrival of the last bus at ECPM</i>
<b>Session 8 - Chairperson: Pr. Luc Avérous</b>	
08:30-09:10	<b>Invited Lecture: Pr. Robert Gilbert</b> "Designing starch molecular structure for better biopolymeric materials"
09:10-09:30	<b>W-OC1 Peter Halley</b> "Molecular degradation in extrusion of starch polymers"
09:30-09:50	<b>W-OC2 Fengwei Xie</b> "Understanding the processability of biodegradable starch polymers"
09:50-10:20	<b>Coffee Break + Poster Session B</b>
<b>Session 9 - Chairperson: Pr. Suprakas Sinha Ray</b>	
10:20-11:00	<b>Invited Lecture: Pr. David Plackett</b> "Polylactide nanocomposites – New materials for food packaging applications"
11:00-11:20	<b>W-OC3 Pierre Carreau</b> "Improved thermal processing stability of poly(lactic acid) using chain extenders"
11:20-11:40	<b>W-OC4 Anne Chevillard</b> "Biodegradability of ecofriendly nano-biocomposite materials for controlled release applications"
11:40-12:00	<b>W-OC5 Sergio Bocchini</b> "Fire retardant behaviour of polylactic acid nanocomposites"
12:00-13:20	<b>LUNCH BREAK</b>
13:20-13:40	<b>Coffee + Poster Session B (End)</b>
<b>Session 10 - Chairperson: Pr. Rosario Bretas</b>	
13:40-14:20	<b>Invited Lecture: Pr. Ramani Narayan</b> "The promise of bioplastics – Overview and case study of a Michigan plant oil biorefinery "
14:20-14:40	<b>W-OC6 Sam Deconinck</b> "Experience on 15 years of compostability certification"
14:40-15:00	<b>W-OC7 Sandra Domenek</b> "Structure/function relationship between poly(lactide) microstructure and barrier properties"
15:00-15:20	<b>W-OC8 Reinhard Forstner</b> "Regain of mechanical and rheological properties of multi-compounded PLA by two different types of melt-strength enhancers"
<b>Session 11 (15 min. each) - Chairperson: Pr. Alfonso Jiménez</b>	
15:20-15:35	<b>W-OC9 Floriane Morel</b> "Renewable biocomposites of dimmer fatty acid-based polyamide with cellulose fibers"
15:35-15:50	<b>W-OC10 Andreas Redl</b> "Meriplast® a novel flexible and elastic bioplastic"
15:50-16:05	<b>W-OC11 Martino Nieddu</b> "Communities and creation of knowledge as common goods in doubly green chemistry"
16:05-16:20	<b>W-OC12 Jan Switten</b> "Bioplastic in view of carbon footprints"
16:20-16:35	<b>W-OC13 Jesús Santamaría</b> "Application of thermoplastic polyurethane obtained from renewable resources (ECOTPU) in footwear"
16:35-16:50	<b>W-OC14 Nina Cleve-Edwards</b> "LCA of biodegradation compared with other end of life options for packaging"
16:50-17:05	<b>W-OC15 Léon Mentink</b> "Gaialene®: a new range of green starch-based plastics"
17:05-17:30	<b>Presentation of BIOPOL 2013 / Conclusions</b>
17:30	<i>End – Closing session</i>
17:45	<i>Departure of buses towards Train Station Square</i>



## POSTER SESSION A

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PO-001	<b>J. Al-Hakkak</b> , F. Al-Hakkak EXTRACTION OF AMARANTH STARCH BY DIFFERENT METHODS, COMPARISON AND MODIFICATION OF STARCHES
PO-002	<b>S. C. M. Fernandes</b> , I. Algar, E. Trovatti, A. Retegi, A. J. D. Silvestre, C. S. R. Freire, I. Mondragon, C. Pascoal Neto BACTERIAL CELLULOSE: A SOURCE OF NEW FUNCTIONAL NANOCOMPOSITE MATERIALS
PO-003	<b>R. El Hage</b> , L. Saint Macary, A. Bergeret, S. Corn, J-C. Benezet EFFECT OF HYGROTHERMAL AND PHOTO-OXIDATION AGEINGS ON MECHANICAL AND THERMAL BEHAVIORS OF FLAX FIBERS/EPOXY PLATS
PO-004	<b>R. Al-Itry</b> , A. Maazouz IMPROVEMENT IN MELT STRENGTHENING OF POLY (LACTIC ACID) THROUGH REACTIVE BLENDING WITH POLY (BUTYLENE ADIPATE-CO-TEREPHTHALATE) (PBAT) AND EPOXY-FUNCTIONALIZED CHAINS
PO-005	<b>T. Gérard</b> , T. Budtova PLA-PHA BLENDS: MORPHOLOGY, THERMAL AND MECHANICAL PROPERTIES
PO-006	<b>E. Johansson</b> , W.R. Newson, T.O.J. Blomfeldt, H. Türe, F. Rasheed, S.W. Cho, M.S. Hedenqvist, T. Johansson, M. Gällstedt, R. Kukkaite USE OF PLANT PROTEIN FOR MATERIALS PRODUCTION
PO-007	<b>V. Tanrattanakul</b> , A. Thaweethong, C. Prompong, S. Dunkool MECHANICAL PROPERTIES OF POLY(LACTIC ACID)/STARCH/NR BLENDS: EFFECT OF STARCH TYPE AND PEG CONTENT
PO-008	<b>A. Monnier</b> , Q. T. Nguyen, A. Duncan, B. Deschrevel DESIGN OF POLY(LACTIC ACID) MEMBRANES COATED WITH HYALURONAN CHAINS TO PROMOTE SKIN WOUND HEALING
PO-009	R. Rajesh, A. Hariharasubramanian, S.Md. Imthiyaz Ali, <b>Y. Dominic Ravichandran</b> COMPOSITE OF MULTIWALLED CARBON NANOTUBES CHITOSAN AND NATURAL HYDROXYAPATITE DERIVED FROM THE CHICKEN BONES WASTED IN THE SLAUGHTER HOUSES AND THE STUDY OF ITS MECHANICAL PROPERTIES
PO-010	<b>S. Vouyiouka</b> , A. Katsini, E. Topakas, C. D. Papaspyrides and P. Christakopoulos PREPARATION OF ALIPHATIC POLYESTERS VIA A LIPASE-CATALYZED LOW-TEMPERATURE POLYMERIZATION PROCESS
PO-011	A. Retegi, I. Algar, S. Fernandes, R. Zuluaga, C. Castro, P. Gañán, G. Mondragon, <b>I. Mondragon</b> BACTERIAL CELLULOSE. FROM BIOSYNTHESIS TO MULTIDISCIPLINARY MATERIALS
PO-012	<b>X. Fang</b> , O. Vitrac, S. Domenek, V. Ducruet A NEW USE OF NANOPARTICLES TO DECREASE DIFFUSION COEFFICIENTS OF ORGANIC SOLUTES IN BIO-BASED POLYMERS
PO-013	<b>S. Jenjob</b> , P. Sunintaboon SYNTHESIS OF BIOCOMPATIBLE CORE-SHELL NANOPARTICLES BASED ON CHITOSAN AND POLY(2-HYDROXYEHTYL METHACRYLATE)
PO-014	<b>I. Capron</b> , H. Bizot, C. Moreau, B. Cathala CELLULOSE NANOCRYSTALS FOR FUNCTIONAL NANOMATERIALS: PICKERING EMULSIONS AND SEMI-REFLECTIVE MULTILAYERS
PO-015	<b>C. Abler</b> , J. Crépin-Leblond, F. Jouffret, S. H. Kochesfahani ENHANCING BIOPOLYMERS WITH HIGH PERFORMANCE NATURAL TALC PRODUCTS
PO-016	<b>E. Chabrat</b> , A. Rouilly, L. Rigal CITRIC ACID INFLUENCE ON EXTRUDED THERMOPLASTIC WHEAT FLOUR/POLY(LACTIC ACID) BLENDS

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PO-017	<b>A. Le Duc</b> , A. Perez, A. Abdennadher, B. Vergnes, T. Budtova POLYPROPYLENE / NATURAL FIBRES COMPOSITES: IN SITU OBSERVATIONS OF FIBRE RUPTURE AND ANALYSIS OF FIBRE SIZE DISTRIBUTION AFTER COMPOUNDING
PO-018	<b>Z. Florjańczyk</b> , A. Józwiak, A. Kundys, M. Dębowski, A. Plichta, A. Zychewicz, G. Rokicki, P. Parzuchowski, P. Pelszyński SEGMENTAL COPOLYMERS OF CONDENSATION POLYESTERS AND POLYLACTIDE
PO-019	<b>M. Phiriyawirut</b> , P. Maniaw, P. Supaphol ZEIN FILMS REINFORCED BY CELLULOSE MICROFIBRIL FROM BANANA PEELS
PO-020	<b>A. A. Vassiliou</b> and D. N. Bikiaris REACTION BETWEEN SILICA NANOPARTICLES AND ALIPHATIC POLYESTERS IN <i>IN SITU</i> NANOCOMPOSITES
PO-021	<b>O. Monticelli</b> , A. Tonelotto, S. Bocchini, A. Frache, F. Carniato ON THE USE OF TI-POSS IN THE RING OPENING POLYMERIZATION OF L-LA
PO-022	<b>Á. Sonseca</b> , L. Peponi, A. Marcos-Fernandez, J. M. Kenny & E. Giménez STUDY OF BIODEGRADABLE NANOFIBERS BASED ON ALIPHATIC POLYESTERS/HYDROXYAPATITE
PO-023	<b>Z. Zhang</b> , P. Tingaut, T. Zimmermann, G. Sèbe NOVEL SILICONE NANOCOMPOSITES REINFORCED WITH FUNCTIONALIZED NANOFIBRILLATED CELLULOSE
PO-024	<b>N. Ardila</b> , J. Medina, O. Álvarez AGEING OF THERMOPLASTIC CASSAVA STARCH/ POLY (LACTIC ACID) (TPS/PLA) BLENDS
PO-025	<b>M. Moreno</b> , M. Goikoetxea, M. J. Barandiaran EMULSION COPOLYMERS FROM OLEIC AND LINOLEIC ACID-BASED MONOMERS
PO-026	<b>Z. Correa</b> , H. Pesenti, A. Zúñiga, C. Garfias LILY OF THE INCAS AS A POTENTIAL STARCH SOURCE FOR BIOBASED MATERIALS
PO-027	<b>K.J.A. Jansens</b> , B. Lagrain, I. Rombouts, N. Vo Hong, K. Brijs, M. Smet, J.A. Delcour THERMOMOLDED WHEAT GLUTEN PLASTICS: EFFECT OF MOLDING TEMPERATURE, MOLDING TIME AND GLUTEN MOISTURE CONTENT ON THE GLUTEN NETWORK
PO-028	<b>H. Garcia</b> , R. Ferreira, K. R. Seddon, L. P. N. Rebelo and C. Silva Pereira SUBERIN, A VALUE-ADDED BIOPOLYESTER FROM CORK OAK
PO-029	<b>S. Rahimiastiyani</b> , D. Åkesson, M. Skrifvars PREPARATION AND CHARACTERIZATION OF BIO-NANOCOMPOSITES FROM BIOBASED THERMOSET RESIN, MONTMORILLONITE AND NATURAL FIBER
PO-030	<b>Q. Liu</b> , R. Braganca, R. M. Elias IMPROVEMENT OF BARRIER PROPERTIES OF PLA BY BLENDING FILLERS FOR PACKAGING APPLICATIONS
PO-031	<b>J.C. Benezet</b> , A. Bergeret BIOFOAM RENFORCED WITH NATURAL FIBRE
PO-032	<b>D. A. S. Marques</b> , M. H. Gil, C. M. S. G. Baptista INFLUENCE OF THERMAL STABILIZERS ADDITION ON LACTIC ACID MELT POLYCONDENSATION
PO-033	<b>L. F. Boesel</b> , M. de Geus, L. Thöny-Meyer BIOMIMETIC NANOCOMPOSITES FOR IMPROVING BARRIER PROPERTIES OF BIOPOLYMERS
PO-034	<b>L Nesterenko</b> , V. Durrieu, I. Alric, F. Silvestre USING OF NATIVE AND MODIFIED SOY PROTEINS AS BIOPOLYMERS FOR $\alpha$ -TOCOPHEROL MICROENCAPSULATION
PO-035	L. Hespel, <b>G. Morandi</b> , L. Lecamp, F. Burel PH-SENSITIVE MICELLES FROM VEGETABLE OIL

PO-036	<b>A. Patrucco</b> , A. Aluigi, M. Zoccola, C. Vineis and C. Tonin KERATIN BIO-COMPOSITES FROM WOOL FIBRILLATION
PO-037	Q. Beuguel, T. Keerle, I. Petit, E. Leroy, <b>G. Colomines</b> , R. Deterre THERMAL DEGRADATION OF BIOPOLYMER VERSUS RESIDENCE TIME: INLINE RHEOLOGICAL CHARACTERIZATION
PO-038	<b>I. Belyamani</b> , F. Prochazka, G. Assezat, F. Debeaufort PROPERTIES OF EDIBLE EXTRUDED FILMS MADE FROM SODIUM AND CALCIUM CASEINATES
PO-039	<b>A. Plichta</b> , Z. Florjańczyk, M. Dębowski, P. Wojtyniak, A. Kundys, R. Kasak, K. Dzioba MODIFICATION OF COMMERCIAL POLYLACTIDE BY BLENDING WITH CONDENSATION POLYESTERS AND ITS TRIBLOCK COPOLYMERS
PO-040	<b>E. Özsağıröglü</b> , B. İyisan, Y. Avcıbaşı-Güvenilir ENZYMATIC DEGRADATION OF DIFFERENT TYPES OF POLY ( $\epsilon$ -CAPROLACTONE)S BY ESTERASE, LIPOLASE AND SAVINASE
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