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802nd Conference

Scientific Program

International Conference on

Sustainable Bioplastics

November 10-11, 2016 Alicante, Spain



Hosting Organization: Conference Series LLC

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Day 1 November 10, 2016

08:30-09:30 Registrations

Terra Lucis

conferenceseries.com **09:30-09:55** Opening Ceremony

Keynote Forum

09:55-10:00 Introduction

10:00-10:30 Title: Plantics: Plastics made from plants
Gadi Rothenberg, University of Amsterdam, Netherlands

10:30-11:00 Title: Biomass waste- A source of raw materials and nanocellulose
Matjaž Kunaver, National Institute of chemistry, Slovenia

Group Photo & Coffee Break 11:00-11:15 @ La Plaza

Workshop

11:15-12:05 Avantium renewable chemistries update
Alan A Smith, Avantium Renewable Chemistries, Netherlands

Sessions: **Biobased Chemicals & Bioplastics | Noble Advances in Bioplastics | Methods of production of Bioplastics**

Session Chair: Maximilian Lackner, University of Applied Sciences FH Technikum Wien, Austria

Session Introduction

12:05-12:25 Title: Characterization and biodegradation of lactate-based polymer biosynthesized from renewable carbon sources
Seiichi Taguchi, Hokkaido University, Japan

12:25-12:45 Title: Market development of Kaneka biopolymer PHBH
Kenichiro Nishiza, Kaneka Belgium N.V, Belgium

12:45-13:05 Title: Novel bio-based elastomeric polymer based on semi-interpenetrating poly (3-hydroxyalkanoate)s and sunflower oil using a trithiol as crosslinking agent
Carine Mangeon, Université Paris Est, France

13:05-13:25 Title: Development of stable recombinant cyanobacteria for economically competent solar-fuel-factories: ethylene production
Veronica Carbonell, University of Turku, Finland

Panel Disscussion @ 13:25-13:35

Lunch Break 13:35-14:35 @ La Plaza

Exhibitor Presentation

14:35-15:35 Braskem
Brendan, Braskem, Brazil

Sessions: **Biomaterials & Biopolymers | Plastic Pollution and Waste Management | Bioplastics Products**

Session Chair: Valerie Langlois, University Paris VI, France

15:35-15:55 Title: Biopolymers based multifunctional composite systems by electrospinning technique
Ilaria Cacciotti, University of Rome "Niccolo Cusano", Italy

15:55-16:15 Title: Tailoring functional PHA-based materials for biomedical applications
Valerie Langlois, University Paris Est (UPEC), France

16:15-16:35 Title: Biodegradable and compostable materials for packaging applications
Pilar Villanueva, AIMPLAS, Spain

Networking & Refreshment Break 16:35-16:55 @ La Plaza

16:55-17:15 Title: Reconstitution of collagen triple helix in physically crosslinked hydrogels and films
Daniel Brannum, Case Western Reserve University, USA

17:15-17: 35 Title: Novel bio-based active release materials for biomedical applications
Tina Modjinou, Université Paris Est, France

Panel Disscussion @ 17:35-17:45

Day 2 November 11, 2016

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Keynote Forum

09:00-09:30 **Title: PBAT-A versatile material for biodegradable and compostable packagings**
Maximilian Lackner, University of Applied Sciences FH Technikum Wien, Austria

09:30-10:00 **Title: The development of commercial high-end applications of biopolymers**
Bas Krins, Applied Polymer Innovations BV, Netherlands

Networking & Refreshment Break 10:00-10:20 @ La Plaza

Workshop

10:20-11:00 **Ttile: Extending polylactide applications by overcoming its drawbacks**
M.Reza Nofar, Istanbul Technical University, Turkey

Sessions: **Biocomposites | Applications of Bioplastics | Bioplastics Types**

Session Chair: Bas Krins, Applied Polymer Innovations BV, Netherlands

Session Introduction

11:00-11:20 **Title: Potential natural additives and agro-industrial by-products in biopolymer formulations for active food packaging**
María Carmen Garrigós, University of Alicante, Spain

11:20-11:40 **Title: Design of nanocomposites by interfacing biopolymers with metal oxides and metal organic frameworks (MOFs)**
Nathalie Steunou, Université Paris Saclay, France

11:40-12:00 **Title: Dynamic metabolic control analysis on *Cupriavidus necator* predicts effects of environmental conditions on PHB production from glycerol**
Chenhao Sun, The University of Manchester, UK

12:00-12:20 **Title: Biocomposites reinforced with nanocellulose/graphene hybrid nanofillers**
Sarah Montes, IK4-CIDETEC, Spain

12:20-12:40 **Title: Thermal characterization of vegetable tannin reinforced TPU-based bio-composites**
Fatma ERDOGAN, Ege University, Turkey

12:40-13:00 **Title: Towards a biomass based polymer industry: Synthesis, characterization and process optimization of bioderived renewable polyesters**
Mónica Lomelí-Rodríguez, University of Liverpool, UK

Panel Disscussion @ 13:00-13:10

Lunch Break 13:10-14:10 @ La Plaza

Sessions: **Bioplastics Types**

Workshop

14:10-15:10 **Ttile: Advances in the use of biobased resources in polymer products**
Dawn A. Smith, Scion, New Zealand

Video Presentation

15:10-15:30 **Title: Properties of hydrochloric chitosan solutions modified with nano-calcium phosphate complex**
Luciano Pighinelli, Lutheran University of Brazil, Brazil

15:30-15:50 **Title: Innovation trend on sustainable bioplastics: the case of furanoate**
Valentina Siracusa, University of Catania, Italy

Poster Presentations @ 15:50-16:50

BP 01 **Title: Study of frying oil use in biodiesel production, applying techniques of environmental management in university city UEMS/UFGD**
Carmem Cicera Maria da Silva Campelo, Federal University of Grande Dourados, Brazil

BP 02 Title: Study of the degree and speed of disintegration of PLA commercial grades as a function of material shape and thickness

Elena Domínguez Solera, AIMPLAS, Spain

BP 03 Title: natural deep eutectic solvents based on choline chloride as a green plasticizer to produce chitosan based films

Hiléia K. S. Souza, University of Porto, Portugal

BP 04 Title: Keratin-based biomaterials

Sarah Montes, IK4-CIDETEC, Spain

BP 05 Title: MDBP- Microbial degradation of bio-polymers

Asma Alhosni, The University of Manchester, UK

BP 06 Title: Influence of the water soluble polymer polyvinyl alcohol on compost and soil fungal communities

Somayeh Mollasalehi, University of Manchester, UK

BP 07 Title: Flexible Edible Films based on babassu: Physical and Barrier Properties

Farayde Matta Fakhouri, University of the Campinas, Brazil

BP 08 Title: Effect pink pepper oil incorporation in the mechanical properties of gelatin films

Amanda Dambrós Pereira, University Federal of Grande Dourados, Brazil

BP 09 Title: Comparison of barrier properties and solubility films collagen based

Cristina Tostes Filgueiras, Universidade Federal da Grande Dourados, Brazil

BP 10 Title: Viability study the use of glycerol transesterified in the production of biofilms

Carmem Cicera Maria da Silva Campelo, Federal University of Grande Dourados, Brazil

BP 11 Biodegradability of thermoplastic resins based on P3HB biosynthesized from waste plant oil

Tomas Porubsky, BUT, Czech Republic

Networking & Refreshment Break 16:50-17:10 @ La Plaza

Award & Closing Ceremony



Bookmark Your Dates

2nd International Conference on

Sustainable Bioplastics

September 25-27, 2017 Frankfurt, Germany

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