

EuroSciCon 

10<sup>th</sup> Edition of International Conference on  
**Biopolymers & Bioplastics**

May 29-30  
Singapore

**2019**



**10<sup>th</sup> Biopolymers 2019**

<https://biopolymers-bioplastics.euroscicon.com/>

# Day 1, Agenda

## General Session

08:00 AM

INTRODUCTION



09:00 AM

PLENARY

10:00 AM

KEYNOTE

Networking & Refreshments  
Break @ Foyer



## HALL 01

## HALL 02

## HALL 03

11:00 AM

Talks On:

Modified Natural Polymers

Talks On:

Biopolymer Composite

Talks On:

Bacterial Derived  
Biopolymers

Talks On:

Biodegradability &  
Compostability



Talks On:

Bio-based Polymers



Talks On:

Cellulose



SESSION DISCUSSION

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SESSION DISCUSSION

02:00 PM

Panel Over:

Nano Technologies for  
Biopolymers & Bioplastics



Panel Over:

Polyhydroxyalkanoates  
(PHAs)



Panel Over:

Starch-based & Polylactic  
acid (PLA)



Workshop On:

Biobased Re-Invention of  
Plastics

Workshop On:

Polycyclic aromatic  
hydrocarbons (PAHs)

Workshop On:

Polychlorinated biphenyls  
(PCBs)

Lunch Break @ Restaurant

Lunch Break @ Restaurant

Lunch Break @ Restaurant

04:00 PM

Talks On:

Degradable Plastics

Talks On:

Packaging

Talks On:

Polymer Chemistry

Lectures on:

Polymerization



Lectures on:

Polymer Synthesis



Lectures on:

Polymer Design and Reactions



06:00 PM

Session On:

Applications of Biopolymers &  
Bioplastics

Session On:

Automotive

Session On:

Electronics

NETWORKING

NETWORKING

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# Day 2, Agenda

## General Session

08:00 AM

INTRODUCTION



09:00 AM

PLENARY

10:00 AM

KEYNOTE

Networking & Refreshments  
Break @ Foyer



### HALL 01

### HALL 02

### HALL 03

11:00 AM

Talks On:

Biopolymers from Natural Source

Talks On:

Nuclear Decommissioning

Talks On:

Cosmetics and Textile, Construction

Talks On:

Biochemistry



Talks On:

Biomedical, Medicine and medical waste



Talks On:

Nanotechnology turns plants into common plastic



SESSION DISCUSSION

SESSION DISCUSSION

SESSION DISCUSSION

02:00 PM

Panel Over:

Bioplastics from Natural Source



Panel Over:

Opportunities, challenges and strategies



Panel Over:

Sources and preparation of biopolymers



Workshop On:

NanoScience for Biopolymers & Bioplastics

Workshop On:

Fourier Transform Infrared Spectroscopy (Ftir)

Workshop On:

Structure of biopolymers

Lunch Break @ Restaurant

Lunch Break @ Restaurant

Lunch Break @ Restaurant

04:00 PM

Talks On:

Bio Based Chemistry

Talks On:

Synthesis Of Nanomaterials

Talks On:

Advances in Bio Based Polymers

Lectures on:

Thermal depolymerization



Lectures on:

Alternatives To Recycling



Lectures on:

Green Chemistry



06:00 PM

Session On:

Chemical recycling using Dry -Heat Depolymerization

Session On:

Consumer Recycling

Session On:

The risk of plastics entry into nature

NETWORKING

NETWORKING

NETWORKING

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**Egle Conforto**

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Centre de recherche industrielle du Quabec, Canada

**Geoffrey Mitchell**

Centre for Rapid and Sustainable Product Development, Portugal

## **Plan a Trip to Singapore: Singapore city, Singapore Destination of 10<sup>th</sup> Biopolymers 2019**

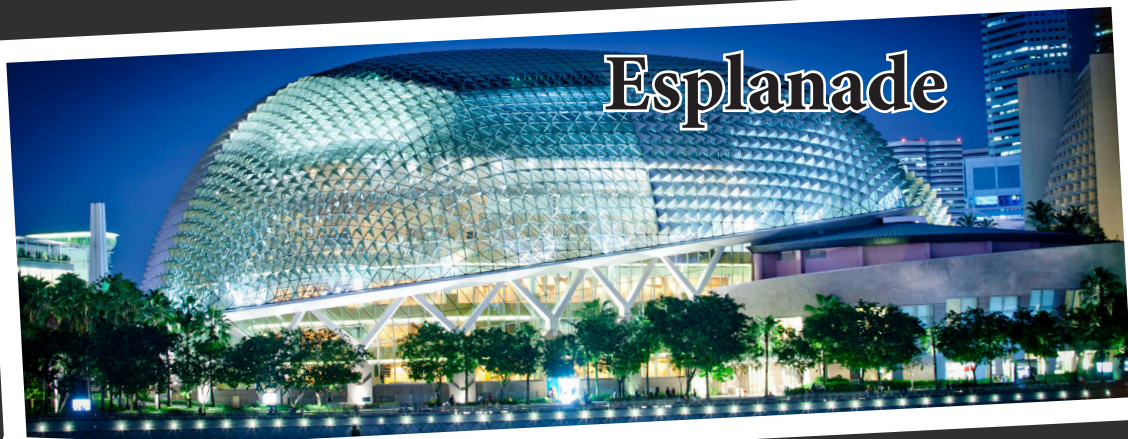
Singapore, formally the Republic of Singapore, is a independent city-state and island country in Southeast Asia. It deceits one degree north of the equator, at the southern slant of the Malay Peninsula, with Indonesia's Riau Islands to the south and Peninsular Malaysia to the north.

Singapore's region consists of one main island along with 62 other atolls. Since independence, wide land reclamation has increased its total size by 23% (130 square kilometres or 50 square miles). The country is recog-nized for its transition from third world to first world in a single generation, underneath the leadership of its founding father, Lee Kuan Yew.

Stamford Raffles initiated colonial Singapore in 1819 as a trading post of the British East India Company. After the company's collapsein 1858, the islets were surrendered to the British Raj as a crown colony. During the Second World War, Singapore was conquered by Japan. It expanded independence from the UK in 1963 by uniting with other former British territories to form Malaysia, but parted two years later over ideological dif-ferences, becoming a sovereign nation in 1965. After initial years of com-motion and despite lacking natural resources and a vicinity, the nation developed quickly as an Asian Tiger economy, based on external trade and its workforce.

# City Attractions

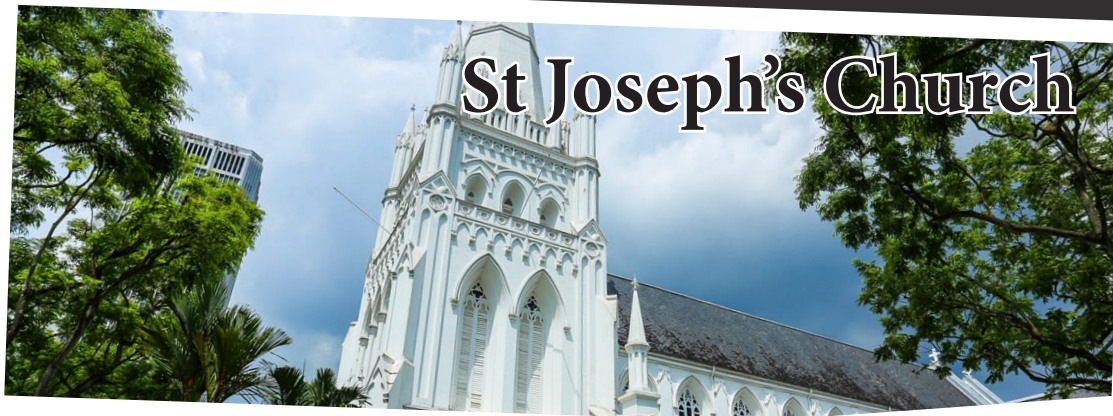
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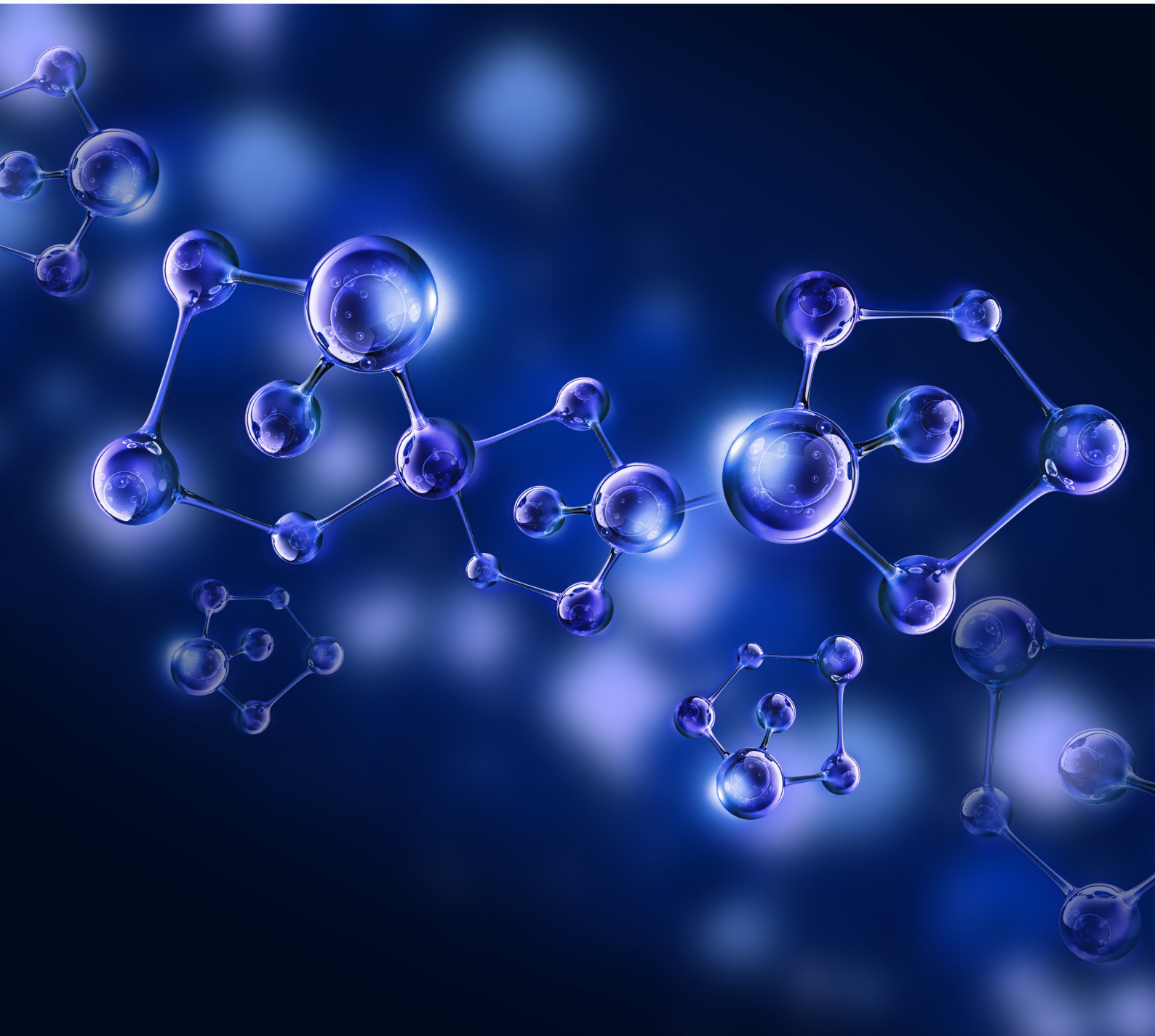
# City Attractions

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4<sup>th</sup> Edition of International Conference on

# POLYMER SCIENCE AND TECHNOLOGY



**June 04-05, 2018**  
**London, UK**

**EuroSciCon** 

# Polymer Congress 2018

## Agenda Day 1: June 04, 2018

### Meeting Hall - Bleriot 1

**08:00-09:00 Registrations**

09:00-09:20 Opening Ceremony

09:20-09:30 Introduction

#### Keynote Forum

**09:30-10:10**

**Title: The effect of an acrylic polymer wax control additive as a cold flow solution for wax challenges**

**Jessica Gould**, Croda Europe LTD, UK

**10:10-10:50**

**Title: Ultrahigh-temperature phthalonitrile nanocomposites with functionalized silicon-based nanoparticles: Structure, dynamics and properties**

**Vladimir A Bershtein**, Ioffe Institute, Russia

**Networking & Refreshment Break 10:50-11:05 @ Breakout Area**

**Sessions: Polymer Science-The Next Generation | Polymers And The Future Of Industries | Polymer Material Science And Engineering | Polymer Nanotechnology | Polymer Chemistry | Composite Polymeric Materials**

**Session Chair: Lianbin Zhang**, Huazhong University of Science and Technology, China

**Session Co-Chair: Szczepan Zapotoczny**, Jagiellonian University, Poland

#### Session Introduction

**11:05-11:30**

**Title: OEGylated dendronized polymers for stimuli-responsive materials**

**Afang Zhang**, Shanghai University, China

**11:30-11:55**

**Title: Characterization of poly(lactic acid) foams produced by extrusion with different chemical blowing agents**

**Akos Kmetty**, Budapest University, Hungary

**11:55-12:20**

**Title: Deposition and control of polymer dielectrics for OTFTs**

**Hazel Assender**, University of Oxford, UK

**12:20-12:45**

**Title: Evaporative structuring of solutions of active blends for molecular electronics applications**

**Jasper Michels**, Max Planck Institute for Polymer Research, Germany

**Group Photo & Lunch Break 12:45-13:35 @ RBG**

**13:35- 14:00**

**Title: Assembly of block copolymers in 3D confined geometries**

**Jintao Zhu**, Huazhong University of Science & Technology, China

**14:00-14:25**

**Title: Promising tailor made nanocapsules based on biopolymer for antibiotic therapy**

**Sabrina Belbekhouche**, University of Paris, France

**14:25-14:50**

**Title: Surface-grafted polymer brushes with ladder-like architecture**

**Szczepan Zapotoczny**, Jagiellonian University, Poland

14:50-15:15

Title: Acrylic acid grafted biopolymer chitosan/TiO<sub>2</sub> based nanocomposite for application in solar light induced photocatalytic degradation

Dhiraj Sud, Sant Longowal Institute of Engineering and Technology, India

15:15-15:40

Title: Incremental sheet forming for manufacturing customized UHMWPE cranial implants

Isabel Bagudanch, Ines Ferrer, Maria Lusia, University of Girona, Spain

15:40-16:05

Title: Combined/copolycondensation: sustainable methods for biobased polymers

Rosica Mincheva, University of Mons, Belgium

Networking & Refreshment Break 16:05-16:20 @ Breakout Area

16:20- 16:40

Title: Introduction of WATIFY- - The technological transformation

Shirley Vollenberg, EU projects, Netherland

16:40-17:05

Title: Dynamic polymer networks based on reversible aromatic disulfide bond: From self-healing to processability, recyclability and more

Alaitz Rekondo, CIDETEC Foundation, Spain

17:05- 17:30

Title: Semi interpenetrating networks of chitosan /acrylic acid / thiourea for sequestering cadmium from aqueous solution

Kamlesh Kumari, Sant Longowal Institute of Engineering and Technology, India

## Agenda Day 2 June 05, 2018

### Meeting Hall - Bleriot 1

09:00-09:30 Registrations

#### Keynote Forum

09:30-10:10

Title: Phenomenological review of LCP/PET droplet fibrillation by repeated extrusion for nanofiber formation

Han-Yong Jeon, INHA University, South Korea

#### Session Introduction

Sessions: Polymer Physics | Role Of Polymers In Biology And Biological Systems | Applications Of Polymers | Advanced Polymer Structures | Polymers In Wastes And Their Environmental Impact

Session Chair: Afang Zhang, Shanghai University, China

Session Co-Chair: Hazel Assender, University of Oxford, UK

10:10-10:35

Title: Polymeric photothermal membranes for interfacial solar heating

Lianbin Zhang, Huazhong University of Science and Technology, China

10:35-11:00

Title: Bismuth additives for silicon oils as a "green" alternative

Andres Eduardo Ciolino, PLAPIQUI-CONICET UNS, Argentina

Networking & Refreshment Break 11:00-11:15 @ Breakout Area

11:15-11:40

Title: Exploration of the metal-organic framework/polymer interface in mixed matrix membranes

Sergio Tavares, Université de Montpellier, France

11:40-12:05

Title: Near-surface crystallization in polyesters

Hazel Assender, University of Oxford, UK

12:05-12:30

Title: Precisely tuning helical twisting power via photoisomerization kinetics of dopants in chiral nematic liquid crystals

Yonggui Liao, Huazhong University of Science and Technology, China

### YRF SESSION @ Bleriot 1

12:30-12:50

Title: Finite element material model for the prediction of the thermal conductivity of highly filled polymers

Jochen Gaiser, University of Applied Sciences Karlsruhe, Germany

Lunch Break 12:50-13:40 @ RBG

13:40-14:00

Title: Superhydrophobic coatings from water-based beeswax emulsions

Sara Naderizadeh, Italian Institute of Technology, Italy

14:00-14:20

Title: Investigation of biocompatible Thiol/Yne formulations for 3D printing of medical scaffolds

Daniel Hennen, Montan university Leoben, Austria

14:20-14:40

Title: Study of coumarin incorporation in therapeutic polymers

M. José Carrero, University of Castilla-La Mancha, Spain

14:40-15:00

Title: Poly(phenylene methylene): A thermally stable, processable hydrocarbon polymer with unexpected photoluminescence

Andreas Braendle, ETH Zurich, Switzerland

15:00- 15:20

Title: Novel approaches to analyze interior lamellae and assembly in spherulitic morphology of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) crystallized with poly(vinyl methyl ether)

Chung-Hao Chen, National Cheng Kung University, Taiwan

15:20- 15:40

Title: Synthesis and morphological insights into novel, stable and biocompatible smart hydrogels with prospective wound healing properties

Deepa Suhag, Amity University, India

### 15:40-16:40 Poster Presentations @ Foyer

Poster Judges : Jintao Zhu, Huazhong University of Science & Technology, China

Han-Yong Jeon, INHA University, South Korea

PC 1

Title: Determination of semicarbazide in fish by molecularly imprinted stir bar sorptive extraction coupled with high performance liquid chromatography

Qin Hu, Nanjing Medical University, China

PC 2

Title: A single dual emissive nanoprobe for quantification of spontaneous glucose in human serum

Shuhu Du, Nanjing Medical University, China

PC 3

Title: DNA-Silver nanoclusters molecular beacons as a novel nanoprobe for sensitive and label-free fluorescent detection of transcription factors

Xuemin Zhou, Nanjing Medical University, China

PC 4

Title: Synthesis and characterization of polypyrrole nanoparticles

Monika Paúrová, Institute of Macromolecular Chemistry of the Academy of Science, Czech Republic

PC 5

Title: Characterization of composite films prepared by in-situ polymerization of styrene/butyl acrylate in nanoporous cellulose gels

Dae Su Kim, Chungbuk National University, Korea

PC 6

Title: Effect of interface interaction on the mechanical properties of the graphene reinforced nanocomposites

Ommeaymen Sheikhnejad, Johannes Kepler University Linz, Austria

PC 7

Title: Preparation of bio-compatible and UV-curable elastic materials with HEMA as a diluent

Ji eun jang, KITECH, the Republic of KOREA

PC 8

Title: The properties of superabsorbent polymers synthesized with acrylate based crosslinking agents

Yoo jin kim, KITECH, the Republic of KOREA

PC 9

Title: Silica dispersion in the Si-SBR composites: Synthesis of poly(glycidyl methacrylate-co-styrene) as a reactive dispersant by emulsion copolymerization.

Haechan Kim, KITECH, the Republic of KOREA

PC 10

Title: A comparative study on the dispersion effects of various dispersants in modified Si-SBR composites

Min Seong Kim, KITECH, the Republic of KOREA

PC 11

Title: Post-treatment process to enhance the performances of super absorbent polymers

Seok Ju Hong, KITECH, the Republic of KOREA

PC 12

Title: Improved permeability and absorption of superabsorbent polymers by using ethylene glycol diglycidyl ether as a surface cross-linking agent.

Wooseung Shin, KITECH, the Republic of KOREA

PC 13

Title: The silica dispersing effects of silica-SBR composites with dispersing agent : poly(styrene-allyl alcohol) and poly(styrene-methyl methacrylate)

Byeongkwan Kang, KITECH, the Republic of KOREA

PC 14

Title: Investigation on the mechanical, barrier and degradation properties of polyglycolic acid synthesized via ring-opening polymerization

Bowen Tan, Pujing Chemical Industry, UK

Panel Discussion

Awards & Closing Ceremony