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1283rd Conference

Scientific Program

3rd International Conference on

POLYMER SCIENCE AND ENGINEERING

October 02-03, 2017 Chicago, USA



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Scientific Program

Day 1 October 02, 2017

09:00-09:50 Registrations

London

conferenceseries.com 09:50-10:20

Opening Ceremony

Keynote Forum

10:20-10:30 Introduction

10:30-11:15 Title: **Specialty films and multilayered structured: A review**

Mosongo Moukwa, PolyOne Designed Structures and Solutions LLC, USA

Panel Discussions

Networking & Refreshment Break 11:15-11:35 @ Foyer

11:35-12:20 Title: **Bio-inspired elastomeric adhesives for novel pick-and-place concepts**

René Hensel, INM – Leibniz Institute for New Materials, Germany

12:20-13:05 Title: **Proton exchange membranes prepared from crosslinked and multi-block copolymers based on poly (arylene ether ketone)**

Dukjoon Kim, Sungkyunkwan University Suwon, Korea

Panel Discussions

Lunch Break 13:05-14:00 @ Athens

Group Photo @ London

Sessions:

Polymer Science- The Next Generation | Polymer Material Science and Engineering | Polymer Physics

Session Chair: Linyong Song, University of Kansas, USA

Session Introduction

14:00-14:35 Title: **Self-strengthening dental adhesive: Mechanism and long-term behaviour**
Linyong Song, University of Kansas, USA

14:35-15:10 Title: **Formulation and evaluation of oral mucosal casein salt film for the anti-diabetic activity**
Hitesh Patel, Ganpat University, India

15:10-15:45 Title: **Design and development of bilayer gastroretentive tablet containing metformin HCl and glipizide for the treatment of type II diabetes**
Girish Patel, Ganpat University, India

15:45-16:10 Title: **Thermo-mechanical characterizations of polymers for microelectronics applications**
Kossi Nicolas Assigbe, University Grenoble Alpes, France

Panel Discussions

Networking & Refreshment Break 16:10-16:30 @ Foyer

16:30-16:55 Title: **Fabrication of cell membrane mimic phospholipid polymer brush surface and its protein resitant property**
Yingdi Yan, Maria Curie Sklodowska University, Poland

16:55-17:20 Title: **Experimental and simulation study of tension properties of unsaturated reinforced polyester at low temperature**
Saad Ahmed, University of Missouri, Columbia

17:20-17:55 Title: **Optimization of thermal and mechanical properties of unsaturated polyester resin as a binder in polymer concrete for manufacturing precision tool machine base**
Header Haddad, Swinburne University of Technology, Australia

Panel Discussion

Keynote Forum

09:45-09:55 Introduction

09:55-10:40 **Title: Encapsulation and immobilization of copolymer @ Au NP's in thin films for biosensing applications**

Ana Barros-Timmons, University of Aveiro, Portugal

10:40-11:25 **Title: Morphological development & versatile properties of charged thermoplastic elastomers**

Richard J. Spontak, North Carolina State University, USA

Panel Discussions

Networking & Refreshment Break 11:25-11:40 @ Foyer

11:40-12:25 **Title: Engineering "smart" nanohybrid materials: New polymeric strategies for NPs functionalization and their improved applications**

Nekane Guarrotxena, Spanish National Research Council (CSIC), Spain

Sessions:

Polymer Nanotechnology | Polymer Chemistry | Composite Polymeric Materials

Session Chair: Nekane Guarrotxena, Spanish National Research Council (CSIC), Spain

Session Introduction

12:25-13:00 **Title: Polymeric nanoparticles for antifungal ocular therapy**
Ebru Basaran, Anadolu University, Turkey

Panel Discussions

Lunch Break 13:00-13:55 @ Athens

13:55-14:30 **Title: Studies of conducting polymers nanocomposites and its applications**
M V N Ambika prasad, Gulbarga University, India

14:30-15:05 **Title: Origins of selectivity and activity of olefin polymerization catalyzed by rare earth metal complexes**

Yi Luo, Dalian University of Technology, China

15:05-15:40 **Title: Photo-stability of low-density polyethylene and ethylene vinyl acetate blends with nanoclay: Towards durable nanocomposites for agricultural films**

Saul Sanchez-Valdés, Applied Chemistry Research Center (CIQA), Mexico

Networking & Refreshment Break 15:40-16:00 @ Foyer

16:00-16:25 **Title: Green composites based on cork residues for additive manufacturing**
Sara P Magalhães da Silva, Aveiro Institute of Materials, Portugal

16:25-17:00 **Title: Reducing the bandgap energy via doping process in lead-free thin film nanocomposites**

Padmaja Guggilla, Alabama A&M University, USA

17:00-17:25 **Title: Synthesis of high dielectric constant flexible piezoelectric sheet using P(VDF-TrFE)-BTO-rGO composite and its application to energy harvesting**

Usman Yaqoob, University of Ulsan, Republic of Korea

Panel Discussions @ 17:25-17:30

Closing Ceremony