

Joint Event

5th International Conference and Exhibition on

Polymer Chemistry

&

30th International Conference on

Materials Chemistry & Science

August 27-28, 2018 | Toronto, Canada

Exhibitors



Conference Hall: Frederick

08:30-09:00 Registrations

09:00-09:20 Opening Ceremony

Keynote Forum

09:20-09:30 **Introduction**

09:30-10:05 **Title: Inorganic/organic hybridized polymers for use in various high performance applications**

David Michael Parish, Sherwin Williams Company, USA

10:05-10:40 **Title: i3DP, a powerful approach expanding 3D printing to 4D printing**

Jun Yang, Western University, Canada

Panel Discussion

Networking & Refreshment Break 10:40-10:55 @ Dorothy Hall

10:55-11:30 **Title: Phosphorus-containing polymers, opportunities and challenges**

Ghislain David, Institute Charles Gerhardt of Montpellier, France

11:30-12:05 **Title: Dual smart block copolymer nanoassembly platform for cancer therapy**

Jung Kwon (John) Oh, Concordia University, Canada

12:05-12:40 **Title: Droplet microfluidic platform technologies for polymer synthesis applications**

Carolyn L Ren, University of Waterloo, Canada

Sessions: Functional Polymers | Polymer Material Science and Engineering | Bio-related Medical Polymers | Polymer Nanotechnology | Biochemical Degradation of Polymers | Polymer Synthesis and Polymerization | Bio Plastics

Session Chair: David Michael Parish, Sherwin Williams Company, USA

Session Co-chair: Carolyn L Ren, University of Waterloo, Canada

Session Introduction

12:40-13:00 **Title: Versatile approach to polyelectrolyte multilayer films with enhanced stability using functionalized polyelectrolytes**

Thi-Thanh-Tam Nguyen, University Paris-Est Creteil Val De Marne, France

Group Photo 13:00-13:10

Panel Discussion

Lunch Break 13:10-14:00 @ Dorothy Hall

14:00-14:20 **Title: Photocatalytic hybrid devices: An innovative strategy for pollutants removal from water**
Valentina Sabatini, University of Milan, Italy

14:20-14:40 **Title: Atomistic modelling of co-cured thermoplast/thermoset polymer interfaces**
Lucio Colombi Ciacchi, University of Bremen, Germany

14:40-15:00 **Title: Plasma etching of high molecular weight block-co-polymer patterns into glass for optical applications**
Riley Gatensby, Trinity College Dublin, Ireland

15:00-15:20 **Title: Mussel-inspired copolymer grafted polypropylene mesh for rat abdominal wall defect repair**
Tianzhu Zhang, Southeast University, China

15:20-15:40 **Title: Molecular and polymer chromosphere: Catalyst assemblies for solar fuels production**
Gyu Leem, State University of New York, USA

15:40-16:00 **Title: Modified photonic structures created by holography: Application to metal ions sensing**
Sabad-e-Gul, Dublin Institute of Technology, Ireland

Panel Discussion

Networking & Refreshment Break 16:00-16:20 @ Dorothy Hall

16:20-16:40 **Title: Biobased nylons from Canola oil**
Reza Ahmadi, University of Alberta, Canada

16:40-17:00 **Title: POSS® Nano-chemical additives for flow and dispersion in difficult to process high performance thermoplastics**

Joseph D Lichtenhan, Hybrid Plastics Inc., USA

17:00-17:20 **Title: High-performance sol-gel composite materials with encapsulated carbonaceous particles for environmental pollution mitigation**

Abuzar Kabir, Florida International University, USA

17:20-17:40 **Title: Control of nanoparticle dispersion in polymer nanocomposites: A multiscale approach**

Milana Trifkovic, University of Calgary, Canada

Panel Discussion

Keynote Forum

09:30-10:05 Title: Use of combination crp-thermal cure in free radical bulk polymerization systems

Michael O Wells, Reynolds Polymer Technology, USA

10:05-10:40 Title: Hemostasis with POSS® silanols

Joseph D Lichtenhan, Hybrid Plastics Inc., USA

Panel Discussion

Networking & Refreshment Break 10:40-11:00 @ Dorothy Hall

11:00-11:35 Title: Interaction between polymer brushes bearing phosphorylcholine and inverse: Phosphorylcholine groups

Motoyasu Kobayashi, Kogakuin University, Japan

11:35-12:10 Title: Dopamine-functionalized polypyrrole nanostructures

Boxin Zhao, University of Waterloo, Canada

12:10-12:45 Title: Biomaterials from renewable lipids

Aman Ullah, University of Alberta, Canada

Panel Discussion

Lunch Break 12:45-13:45 @ Dorothy Hall

13:45-14:20 Title: Development of responsive biopolymer materials: Investigation of their structure and adsorption properties

Lee D. Wilson, University of Saskatchewan, Canada

Poster Presentations @ 14:20-15:20

Poster Judge: Lucio Colombi Ciacchi, University of Bremen, Germany

- P-01 Title: Mechanical and thermal properties of polyethylene modified with different natural fillers**
Janusz Wojciech Sikora, Lublin University of Technology, Poland
- P-02 Title: Niobium oxide- carbon nanotube electrodes for supercapacitors, prepared using microwave-hydrothermal synthesis**
Ricardo Marques e Silva, McMaster University, Canada
- P-03 Title: Liquid-Liquid extraction of manganese oxides and fabrication of supercapacitor electrodes using octanohydroxamic acid**
Jordan Milne, McMaster University, Canada
- P-04 Title: Texture simulation of cold-rolled F.C.C. metals by using taylor model**
Shih-Chieh Hsiao, National Cheng Kung University, Taiwan
- P-05 Title: The evaluation of mechanical, physical and antifungal properties of LLDPE/LDPE/PLA antimicrobial film with potassium sorbate as an antifungal agent**
Zahra Tolouei Shiviari, Azad University Tehran South Branch, Iran
- P-06 Title: Effect of process parameters on dimension of single-track ss316l deposited by direct energy deposition**
Yen-Ting Chen, National Cheng Kung University, Taiwan

Sessions: Sensor Materials | Composites | Energy Materials | Nano Particals | Non-Metallic Solid Materials | 2D and 3D Imaging | Advanced Functional Materials | Materials Structure Mechanics | 3D and 4D Materials Science | Materials Synthesis & Processing | Surface Chemistry | Nanostructured Materials | Organic Materials | Materials Sustainability | Nanomaterials in Medical Applications | Electrocatalysis | Organometallic Synthesis

Session Chair: Michael O Wells, Reynolds Polymer Technology, USA

Session Co-chair: Boxin Zhao, University of Waterloo, Canada

Session Introduction

15:20-15:40 Title: Facile synthesis of air-stable and highly luminescent red- and blue-emitting perovskite nanocrystals for efficient light emitting devices
Yasser Hassan, Oxford University, UK

15:40-16:00 Title: Interdiffusion kinetics in Cu-Ni(Fe) nanolaminate structures
Alan F. Jankowski, Sandia National Laboratory, USA

Panel Discussion

Networking & Refreshment Break 16:00-16:20 @ Dorothy Hall

- 16:20-16:40 **Title: Microstructure and surface properties study of plasma nitrided aisi 4140 low alloy steel at different temperatures**
Mehry Fattah, York University, Canada
- 16:40-17:00 **Title: Room temperature VOCs sensor based on microwave-intensive pulsed light treated TiO₂-SnO₂/CNTs hybrid nanocomposite**
Sherif Mostafa, University of Calgary, Canada
- 17:00-17:20 **Title: Enhance piezophototronic photocatalytic activity of ZnO nanorods embedded on flexible PDMS sheet**
Mirnmoy Misra, Gachon University, South Korea
- 17:20-17:40 **Title: Structural and luminescence properties of GdBO₃:Eu in different crystalline modifications**
Ramya Nair, Bhabha Atomic Research Centre, India
- 17:40-18:00 **Title: Evaluation of PCMs as passive thermal regulators of indoor spaces in a temperate climate**
Adriana Lira-Oliver, National Autonomous University of Mexico (UNAM), Mexico
- 18:00-18:20 **Title: Fabrication of binary heterojunction photocatalysts with enhanced photocatalytic activity**
Haijin Liu, Henan Normal University, China

Awards and Closing Ceremony @ 18:20-18:40

Panel Discussion

UPCOMING CONFERENCES

20th International Conference on
Computer Aided Drug Designing and Drug Delivery
September 24-25, 2018 | Chicago, USA | W: drugchemistry.conferenceseries.com

24th World Chemistry & Systems Biology Conference
October 03-04, 2018 | Los Angeles, USA | W: chemistry.conferenceseries.com

21st International Conference & Exhibition on Pharmaceutical Chemistry
October 31- November 1, 2018 | San Francisco, USA
W: pharmaceuticalchemistry.pharmaceuticalconferences.com

19th International Conference on Medicinal Chemistry &
Multi Targeted Drug Delivery
November 05-06, 2018 | San Francisco, USA | W: medicinalchemistry.pharmaceuticalconferences.com

28th International conference on
Chemistry & Drug Designing
December 05-06, 2018 | Vancouver, Canada | W: chemistrydrugdiscovery.pharmaceuticalconferences.com