

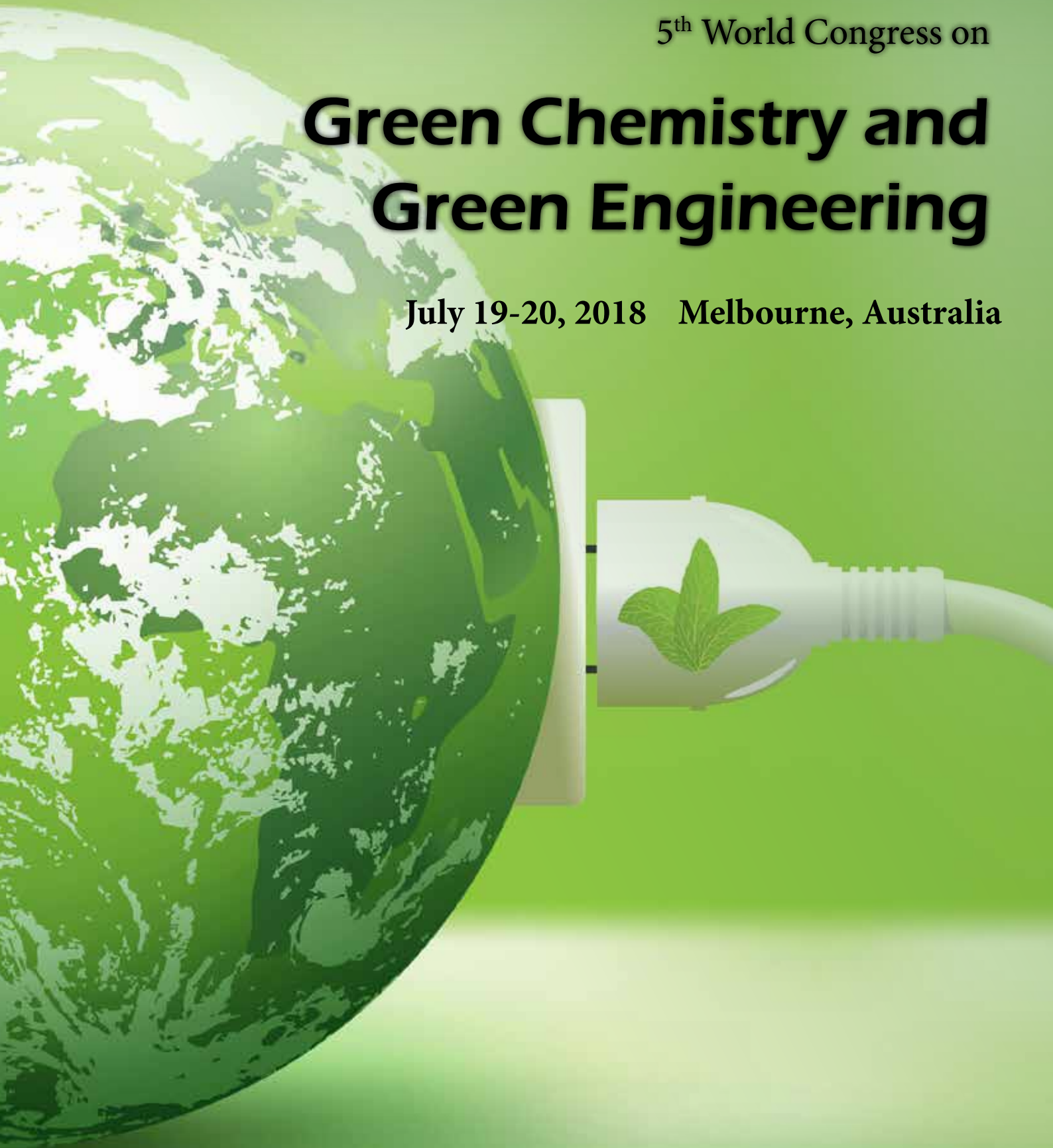
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*Scientific Program*

5<sup>th</sup> World Congress on

# **Green Chemistry and Green Engineering**

July 19-20, 2018 Melbourne, Australia



**Hosting Organization: Conference Series llc LTD.**

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08:30-09:30 Registrations

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Lake 1/2

09:30-09:45

## Opening Ceremony

### Keynote Forum

09:45-10:00 Introduction

**Title: Discovering new green materials using artificial intelligence and adaptive evolution**

10:00-10:45

**David A Winkler**, CSIRO, Australia

**Title: Reuse of PET bottles by coating DLC films**

10:45-11:30

**Tetsuya Suzuki**, Keio University, Japan

Networking & Refreshments Break 11:30-11:50

Sessions: Green Processing and Solar Energy | Advanced Green Chemistry

Session Introduction

**Session Chair: David A Winkler**, CSIRO, Australia

**Session Chair: David Burns**, OPEC Systems, Australia

11:50-12:20

**Title: High efficient fiber-shaped perovskite solar cell**

**Dechun Zou**, Peking University, China

12:20-12:50

**Title: Fabrication and characterization of biopolymer-based composite beads for effective removal of heavy metal ions from waste waters**

**Jibrán Iqbal**, Zayed University, United Arab Emirates

Lunch Break @Lake Room Lobby 12:50-13:40

13:40-14:10

**Title: Recovery of value adding organic components from dairy wastewater using food grade low-cost organic lignosulphonate**

**Geethu Kurup**, RMIT University, Australia

Session: Waste Management | Green Catalytic modulations | Green Nanotechnology | Green Processing and Solar Energy

Session Introduction

**Session Chair: David A Winkler**, CSIRO, Australia

**Session Chair: David Burns**, OPEC Systems, Australia

14:10-14:40

**Title: Preparation of cellulose modified with metallophthalocyanines as a new biocompatible catalytic system**

**Mozhdeh Seyyedhamzeh**, Kuwait University, Kuwait

14:40-15:10

**Title: Synthesis of gelatin stabilised high aspect ratio gold nanorods with enhanced biological stability as effective photothermal agent for cancer therapy**

**Shweta Sareen**, Panjab University, India

Networking & Refreshments Break 15:10-15:30

15:30-16:00

**Title: Rhodium-catalyzed intermolecular C(sp<sup>3</sup>)-H amination in a purely aqueous system**

**Fangrui Zhong**, University of Science and Technology (HUST), China

16:00-16:30

**Title: Chemical change of the asphalt properties by water effect**

**Ana Sofia Figueroa**, De La Salle University, Colombia

16:30-17:00

**Title: Heavy oil-water two-phase flow characteristics in a vertical pipe**

**Jixiang Guo**, Enhanced Oil Recovery Institute, China

### Panel Discussion

Day 2 July 20, 2018

Lake 1/2

Keynote Forum

09:30-10:15 **Title: Green chemistry used to remediate bulk pfas in contaminated waters - foam fractionation**  
**David Burns**, OPEC Systems, Australia

Video Presentation

10:15-11:10 **Title: Implementing green chemistry education in a private liberal arts and sciences curriculum: A challenging and rewarding adventure**  
**Anne Marteel-Parrish**, Washington College, USA

Networking & Refreshments Break 11:10-11:30

Poster Presentations (11:30-12:30)

- PND01** **Title: High speed zinc-phosphate coating method with acidic electrolytes on metal surface**  
**Karayigit Erkan**, Guney Celik Hasir ve Demir Mamulleri San, Turkey
- PND02** **Title: Plant-derived oxidized nanofibrillar cellulose-chitosan composite as an absorbable aemostat**  
**Sun Young Lee**, National Institute of Forest Science, Republic of Korea
- PND03** **Title: Polypropylene nanocomposites reinforced with plant-derived cellulose nanocrystals**  
**Jae-Gyoung Gwon**, National Institute of Forest Science, Republic of Korea
- PND04** **Title: Coffee-driven green activation of cellulose and its use for all-paper flexible supercapacitors**  
**Jae-Gyoung Gwon**, National Institute of Forest Science, Republic of Korea
- PND05** **Title: Soyabean waste 'okara'- a promising feedstock for biodegradable plastics**  
**Gurpreet Kaur**, Thapar University, India
- PND06** **Title: Growth mechanism of Alq3 single-crystal in [C<sub>12</sub>mim] [TFSI] ionic liquid via solution method**  
**Dong Chan Shin**, Chosun University, Republic of Korea

Session:

Green Innovative Trends | Green solvents | Green Engineering | Waste Management

12:30-13:00 **Title: Helping plants to become healthier**  
**Marcin Smiglak**, Adam Mickiewicz University Foundation, Poland

Lunch Break @Lake Room Lobby 13:00-13:50

13:50-14:20 **Title: Evaluation framework of barriers during green technology adoption**  
**De Xia**, Wuhan University of Technology, China

14:20-14:50 **Title: Si solar cells with higher efficiency for picking up photons in ultraviolet and infrared region of solar spectra**  
**Wei-Qi Huang**, Guizhou University, China

14:50- 15:20 **Title: Research on sustainable technology selection decision-making model for enterprise**  
**De Xia**, Wuhan University of Technology, China

Panel Discussion & B2B Meetings

Award Ceremony

Conference Concludes