

## 2017 PSRC Conference

Monday 17th July 2017

5:00pm - 7:00pm	<b>Conference Welcome Reception</b> Old Government House Queensland University of Technology, Gardens Point 2 George Street, Brisbane City, 4001
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Tuesday 18th July 2017

8:00am	<b>Registration Opens</b>
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8:50am - 9:00am	<b>Conference welcome and opening</b> Professor Steven Bottle Queensland University of Technology, Australia
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Session 1

Session Chair: Steven Bottle

9:00am - 10:00am	<b>Plenary 1: Biological Applications of Targeted Nitroxides</b> Professor Peter Wipf University of Pittsburgh, United States of America
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10:00am - 10:30am	Morning Tea
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Session 2

Session Chair: Steven Bottle

10:30am - 11:00am	<b>Fluorescence Probes to Detect Lipid-Derived Radicals</b> Ken-ichi Yamada, Kyushu University, Japan
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11:00am - 11:30am	<b>Nitroxide-containing Agents for Biofilm Remediation</b> Kathryn Fairfull-Smith, Queensland University of Technology, Australia
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11:30am - 12:00pm	<b>Fluorescent Monitoring of Biologiccal Oxygen Free Radicals</b> Elizabeth New, University of Sydney, Australia
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12:00pm - 1:00pm	Lunch
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Session 3

Session Chair: Craig Williams

1:00pm - 1:40pm	<b>New Strategy of Generating Carbon Radicals for Organic Synthesis</b> Keiji Maruoka, Kyoto University, Japan
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1:40pm - 2:10pm	<b>Radicals or Cations in Cytochrome P450 Catalysed Dehydrogenation?</b> James De Voss, University of Queensland, Australia
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2:10pm - 2:30pm	<b>Copper Catalyzed Transformations of A-Bromocarbonyls</b> Takashi Nishikata, Yamaguchi University, Japan
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2:30pm - 3:00pm	Afternoon Tea
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Session 4

Session Chair: Kathryn Fairfull-Smith

3:00pm - 3:30pm	<b>Hydropersulfides: H-Atom Transfer Agents Par Excellence</b> Derek Pratt, University of Ottawa, Canada
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3:30pm - 4:00pm	<b>Position matters: A kinetic study on the oxidative damage of small peptides by the environmental oxidant NO<sub>3</sub></b> Uta Wille, The University of Melbourne, Australia
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4:30pm - 6:00pm	<b>Poster Session</b>
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Wednesday 19th July 2017

Short Day

Session 5

Session Chair: Corey Stephenson

9:00am - 9:30am	<b>Organic Transformation Using Photoredox Gold Catalyst</b> Louis Barriault, University of Ottawa, Canada
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9:30am - 10:00am	<b>Olefin Difunctionalisation by Photoredox Catalysis</b> Munetaka Akita, Tokyo Institute of Technology, Japan
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10:00am - 10:30am	<b>Synergistic Polar/Steric Strategy in Achieving Site-Selective C(sp<sup>3</sup>)-H Functionalization of Cyclic Ketones and Lactones by Radicals</b> Ilhyong Ryu, Osaka Prefecture University, Japan
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10:30am - 11:00am	Morning Tea
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Session 6

Session Chair: Ilhyong Ryu

11:00am - 11:30am	<b>Molecular Transformation with Remote H-Radical Migration</b> Shunsuke Chiba, Nanyang Technological University, Singapore
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11:30am - 12:00pm	<b>C-N Bond Formation Through a Radical Pathway</b> Ning Jiao, Peking University, China
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12:00pm - 12:30pm	<b>New cyclizations and cyclization cascades mediated by SmI<sub>2</sub></b> David Procter, University of Manchester, United Kingdom
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Free afternoon

Thursday 20th July 2017	
<b>Session 7</b> Session Chair: Shigeru Yamago	
9:00am - 10:00am	<b>Plenary 2: New Developments in Controlled Radical Chemistry and their Application to Novel Material Systems</b> Professor Craig Hawker University of California Santa Barbara, United States of America
10:00am - 10:30am	Morning Tea
<b>Session 8</b> Session Chair: Shigeru Yamago	
10:30am - 11:00am	<b>Organocatalyzed Living Radical Polymerization for Polymer Architectural Design</b> Atsushi Goto, Nanyang Technological University, Singapore
11:00am - 11:20am	<b>Stumbling In and Out of Radical Reactions</b> Craig Williams, University of Queensland, Australia
11:20am - 11:40am	<b>Organocatalyst Catalyzed Visible-Light Radical Perfluoroalkylation of Terminal Alkenes and Alkynes</b> Tomoko Yajima, Ochanomizu University, Japan
11:40am - 12:00pm	<b>The KOTBu-catalyzed C-H silylation of heteroarenes: theoretical insights into the competition between homolytic and heterolytic pathways</b> Elizabeth Krenke, The University of Queensland, Australia
12:00pm - 1:00pm	Lunch
<b>Session 9</b> Session Chair: Ullrich Jahn	
1:00pm - 1:30pm	<b>Redox Processes With Organic Reagents</b> John Murphy, University of Strathclyde, United Kingdom
1:30pm - 1:50pm	<b>Electrochemical Dehydrogenative Cyclization Reactions</b> Hai-Chao Xu, Xiamen University, China
1:50pm - 2:10pm	<b>Development of nitroxide-based cathode materials for organic redox batteries</b> James Blinco, Queensland University of Technology, Australia
2:10pm - 2:40pm	<b>Boron-based Lewis Pairs For Radical Photopolymerisations and Hydrogen Storage</b> Emmanuel Lacote, Université de Lyon, France
2:40pm - 3:00pm	<b>Photon energy threshold in direct photocatalysis with metal nanoparticles – key evidence from action spectrum of the reaction</b> Sarina Sarina, Queensland University of Technology, Australia
3:00pm - 3:30pm	Afternoon Tea
<b>Session 10</b> Session Chair: Mick Sherburn	
3:30pm - 4:00pm	<b>One-pot Synthesis of Structurally Controlled Dendritic Hyper-branched Polymers Using a Stimuli Responsive Monomer</b> Shigeru Yamago, Kyoto University, Japan
4:00pm - 4:30pm	<b>Radical Chemistry and Sigmatropic Rearrangements - A New Alliance</b> Ullrich Jahn, IOCB Prague, Czech Academy of Sciences, Czech Republic
4:30pm - 5:00pm	<b>Dual-Catalytic Asymmetric Radical Functionalization of Alkenes</b> Xin-Yuan Liu, South University of Science and Technology of China, China
5:00pm - 5:30pm	<b>Direct Radical Substitution Reactions on Heteroatoms</b> Akio Kamimura, Yamaguchi University, Japan
6:30pm - 10:30pm	<b>Conference Dinner</b> Stamford Plaza Pre Dinner Drinks: Pool Deck Corner of Margaret and Edward Streets, Brisbane, 4001

Friday 21st July 2017	
<b>Session 11</b> Session Chair: James Blinco	
9:00am - 10:00am	<b>Plenary 3: Light Driven Soft Matter Materials Synthesis</b> Christopher Barner-Kowollik Queensland University of Technology, Australia
10:00am - 10:30am	Morning Tea
<b>Session 12</b> Session Chair: James Blinco	
10:30am - 11:00am	<b>Spin-Spin Interaction for Multi-Phenalenyl Radicals</b> Takashi Kubo, Osaka University, Japan
11:00am - 11:30am	<b>Localized Diradicals on Macrocyclic Ring Systems</b> Manabu Abe, Hiroshima University, Japan
11:30am - 12:00pm	<b>Photostable Fluorescent Radicals: Modulated Luminescence by Coordination to Metal</b> Tetsuro Kusamoto, The University of Tokyo, Japan
12:00pm - 1:00pm	Lunch
<b>Session 13</b> Session Chair: David Procter	
1:00pm - 1:30pm	<b>Boron Reagents in Radical Chemistry: Recent Developments</b> Philippe Renaud, University of Bern, Switzerland
1:30pm - 1:50pm	<b>Radical Borylation/Cyclization Cascade of 1,6-Enynes for the Synthesis of Boron-Handled Hetero- and Carbocycles</b> Yi-Feng Wang, University of Science and Technology of China, China
1:50pm - 2:10pm	<b>Collective Asymmetric Syntheses of Podophyllotoxin and Other Family Members Enabled by Nickel Catalysis</b> Yu Peng, Lanzhou University, China
2:10pm - 2:40pm	<b>Template Mediated Enantioselective Radical Chemistry</b> Mukund Sibi, North Dakota State University, USA
2:40pm - 3:00pm	<b>Nitroxide Containing Microspheres as Biodegradable Drug Delivery Systems to Target Bacterial Biofilms</b> Christiane Lang, Queensland University of Technology, Australia
3:00pm - 3:30pm	Afternoon Tea
<b>Session 14</b> Session Chair: Shunsuke Chiba	
3:30pm - 4:00pm	<b>Synthesis Of – and Synthesis With – <math>\pi</math>-Bond Rich Systems</b> Mick Sherburn, Australian National University, Australia
4:00pm - 4:20pm	<b>Radical Alkylation of Alkenes, Heteroarenes and Arenes via Palladium Catalysis</b> Jianrong (Steve) Zhou, Nanyang Technological University, Singapore
4:20pm - 4:40pm	<b>Miscellaneous Reaction Pathways of Photoinitiators for Radical Polymerization</b> Georg Gescheidt, Graz University of Technology, Austria
4:40pm - 5:00pm	<b>Iron-Catalyzed Carboamination of Alkenes for Synthesis of Amines and Amino Acids via Radical Process</b> Hongli Bao, University of Chinese Academy of Sciences, China
5:00pm - 5:15pm	<b>Free Radical Induced Selective Oxidation of Alkyl Aromatics under Sunlight</b> Yiming Huang, Queensland University of Technology, Australia
Saturday 22nd July 2017	
<b>Session 15</b> Session Chair: Uta Wille	
9:00am - 9:30am	<b>Redox catalysis for complex molecule synthesis</b> Corey Stephenson, University of Michigan, USA
9:30am - 9:50am	<b>Development of "Stop-flow" Microtubing Reactor Platform for reaction discovery under Visible-light promoted Conditions</b> Jie Wu, National University of Singapore, Singapore
9:50am - 10:10am	<b>New Methods for C–N Bond Construction Based on Copper Catalyst</b> Qian Zhang, Northeast Normal University, China
10:10am - 10:30am	<b>V6O13-alkoxide Species for Photocatalytic Selective Oxidation of Aliphatic Alcohols</b> Qi Xiao, Queensland University of Technology, Australia
10:30am - 11:00am	Morning Tea
<b>Session 14</b> Session Chair: Steven Bottle	
11:00am - 11:40am	<b>Asymmetric Radical Transformations: Functionalization of Alkenes and Alkanes using Copper Catalyst</b> Guosheng Liu, University of Chinese Academy of Sciences, China
11:40am - 11:50am	Poster Award Presentation
11:50am - 12:00pm	Award Ceremony
Conference Close	