

The 8th IUPAC International Conference on Green Chemistry

Time/Date	Sunday 9 th September 2018
Venue	11 th floor Mahamakut building, Faculty of Science, Chulalongkorn University
Room	Meeting room No.1119
08.30-09.00	Pre-Conference Workshop Integrating Green Chemistry in Higher Education Workshop
09.00-09.15	Welcome Speech and Opening Speech <i>Poranee Kongamornpinyo (DOW Chemical Group)</i> <i>Juan Joon Ching (Project Director, FACS)</i>
09.15-10.15	Introduction to Green Chemistry: 12 Principles <i>Supawan Tantayanon</i> <i>(Department of Chemistry, Chulalongkorn University)</i>
10.15-10.30	BREAK
10.30-11.30	Green Chemistry Education <i>Mary M. Kirchoff</i> <i>(Director of Green Chemistry Institute, American Chemical Society)</i>
11.30-12.00	Quizzers with Prizes
12.00-13.00	LUNCH
13.00-13.30	Workshop 1: Paper Centrifuge <i>Lim Teck Hock and team</i> <i>(Tunku Abdul Rahman University College)</i>
13.30-14.00	Workshop 2: Atom Economy <i>Lim Teck Hock and team</i> <i>(Tunku Abdul Rahman University College)</i>
14.00-15.00	Green Chemistry through IUPAC International Instruments <i>Pietro Tundo</i> <i>(Chair of the Interdivisional Committee on Green Chemistry for Sustainable Development IUPAC Bureau Member)</i>
15.00-15.30	BREAK
15.30-16.30	Green and Sustainable Chemistry Education: Designing the present and future <i>Vania Gomes Zuin</i> <i>(Department of Chemistry, Federal University of Sao Carlos)</i>
16.30-17.00	Closing / Group Photos

Time/Date	Monday 10 th September 2018			
Venue	Shangri-La Hotel, Bangkok			
Room	Ballroom 1	Ballroom 2	Ballroom 3	The Study room
08.30-09.00	OPENING CEREMONY			
09.00-09.30				
09.30-10.00				
10.00-10.30	(PL-01) Design and Applications of Selective Reactions of Olefins <i>Robert H. Grubbs (USA)</i> Chair: Suracha Udumak			
10.30-11.00	BREAK			
11.00-11.30	Topic I. Green Chemicals, Polymers, and Materials (IN-01) Converting Nature's Most Abundant Biopolymer into Materials to Substitute Persistent, Petrochemically Derived Polymers <i>Janet Scott (UK)</i>	Topic II. Green Synthesis, Manufacturing, and Engineering Processes (IN-02) Green Organic Transformations in Water with Heterogeneous Catalysts <i>Uozumi Yasuhiro (Japan)</i>	Topic III. Green Fossil Energy, Biomass, and Future fuels (IN-03) Water Oxidation Catalysts and a Turned Hydrogenase for Solar Hydrogen Production <i>Stenbjorn Styring (Sweden)</i>	Topic IV. Green Chemistry Education (IN-05) Mapping the Future of Green Chemistry Education <i>Mary Kirchoff (USA)</i>
	Oral presentation (O1-01) Zr-Based Metal-Organic Frameworks as Carbon-Free Energy Storage Materials: The Study of their Structural Interactions with Ammonia <i>Tatchamapan Yoskamtorn (UK)</i> (O1-02) Earth Abundant Catalysis for the Production of Well-Defined Bio-Renewable and Bio-Degradable Co-Polymers <i>James Beament (UK)</i> (O1-03) Cross Metathesis Reaction of Renewable Unsaturated Fatty Acid Methyl Esters with Eugenol <i>Duy Le (Thailand)</i> (O1-04) Designing Graphene-Compatible Surfactants for the Development of Conductive Composites Based on Renewable Polymer <i>Treyra Ardyani (Malaysia)</i> Chair: Dengsong Zhang Co-chair: Robert Molloy	Oral presentation (O2-01) Confronting Neglected Issues in Asymmetric Rhodium-Catalysed Conjugate Arylation for Industrial Applications <i>Stephen Lovelock (UK)</i> (O2-02) Calcium Carbide-based Green Synthesis of Vinyl Derivatives and Heterocycles <i>Konstantin Rodygin (Russian Federation)</i> (O2-03) Design and Modelling of New Metathesis Catalysts for Green Chemistry <i>Bartosz Trzaskowski (Poland)</i> (O2-04) An Efficient Synthesis of Bisenols using Water Extract of Onion Peel Ash <i>Poh Wai Chia (Malaysia)</i> Chair: Winita Punyodom Co-chair: Sumrit Wacharasindhu	Oral presentation (IN-04) Selective Microwave Heating of Organic Reaction Mixtures <i>Gregory Dudley (USA)</i>	Oral presentation (O4-04) Green Chemistry and the Chemical Weapons Convention <i>Jo-Anne Rasmussen (Netherlands)</i> (O4-10) Small Scale Chemistry Complimentary to Green Chemistry <i>Zuriati Zakaria (Malaysia)</i> Chair: Anna S. Makarova Co-Chair: Warayuth Sajomsang
11.30-12.00	BREAK			
12.00-12.30	BREAK			
12.30-13.30	LUNCH			
13.30-14.00	(KN-01) Exploration of New Reactivities Towards Future Sustainability <i>Chao-Jun Li (Canada)</i> Chair: Janet Scott	(KN-02) Honeywell UOP Solutions For The Production of Drop-In Transportation Fuels From Renewable Feedstocks <i>David Cepla (USA)</i> Chair: Kongkiat Suriye		
14.00-14.30	Topic I. Green Chemicals, Polymers, and Materials (IN-06) Improved NOx Reduction by Using Novel Catalysts <i>Dengsong Zhang (China)</i>	Topic II. Green Synthesis, Manufacturing, and Engineering Processes (IN-07) Bioeconomy for New Solutions in Biomedical Technology: Chiang Mai University Experiences <i>Winita Punyodom (Thailand)</i>	Topic III. Green Fossil Energy, Biomass, and Future fuels (IN-08) Conversion of Extracted Lignin from Sugarcanne Bagasse to Phenolic Compounds via Depolymerization in the Presence of Solid Acid Catalysts <i>Navadol Laosiripojana (Thailand)</i>	Topic IV. Green Chemistry Education (IN-10) An Integrated Environment Impact Assessment of Chemicals <i>Anna S. Makarova (Russia)</i>
	Oral presentation (O1-05) Nanostructured Conducting Polymers and Applications <i>Mohamad Ayad (Egypt)</i> (O1-06) New Strategies for High-Performance Plant Oil-Based Unsaturated (Poly) Ester Resins and Nanocomposites <i>Chengguo Liu (China)</i> (O1-07) Group 4 Catalysts for Polyethylene Furanate (PEF) Synthesis <i>Michael Joyce (UK)</i> (O1-08) Synthesis of Bio-Derived Carbon/Silica Composites for the Removal of Gold from Aqueous Solutions <i>Konstantina Sotriou (UK)</i> (O1-09) Decorated Cellulose Surfaces Opportunities for Novel, Sustainable Ingredients for Formulated Products and Tissue Engineering Scaffolds <i>Jamie Courtenay (UK)</i> (O1-10) VOC Free Preparation of Plastic Inorganic Materials Nanocomposite by Enhanced H-Bonding Induced Tg Jump <i>Rivik Panigrahi (Singapore)</i> Chair: Janet Scott Co-Chair: Warayuth Sajomsang	Oral presentation (O2-05) Terpenes as Biorenewable Feedstocks for the Synthesis of Fine Chemicals, Polymers and Drugs <i>Steven Bull (UK)</i> (O2-06) Direct Methanol Synthesis from Glycerol Over MgO-Based Catalysts <i>Mukrawee Maneewalhorasakul (Thailand)</i> (O2-07) Cu-Doped CoFe2O4 Nanoparticles as Magnetically Recoverable Catalyst for C-N Cross-Coupling Reaction <i>Minta Mani Datta (India)</i> (O2-08) Use of CO ₂ for the Synthesis of Industrially Relevant Intermediates <i>Saumya Dabral (Germany)</i> (O2-09) Catalytic Decomposition of Phenol Derivatives using Green Reducing Agent by in Situ Synthesized within Cryogel Structure Noble Metal Nanoparticles <i>Dmitriy Berillo (UK)</i> (O2-10) Dehydration of D-xylose into Furfural Production over KIT-6 Mesoporous Sulfonic Acid Catalyst <i>Thi Tuong Vi Tran (Thailand)</i> Chair: Uozumi Yasuhiro Co-chair: Sumrit Wacharasindhu	To Separate or Not To Separate... That is a Green and Sustainable Question <i>Vania Gomes Zuin (Brazil)</i>	An Integrated Environment Impact Assessment of Chemicals <i>Anna S. Makarova (Russia)</i>
14.30-15.00	BREAK			
15.00-15.30	BREAK			
15.30-16.00	BREAK			
	Oral presentation (O3-02) Extraction of Lipids from Microalgae Via Bio-Based Solvents for Sustainable Biofuel Production <i>Wan Mohd Asyraf Bin Wan Mahmood (UK)</i> (O3-03) Current Aspects and Future Challenges of Advanced Transport Fuels <i>Martin Mittelbach (Austria)</i> (O3-04) To Optimize the Ratio of ω-6 and ω-3 Fatty Acid Obtained from Hemp Oil by Supercritical CO ₂ Extraction: CCD study with Cross-validation <i>Vibha Devi (India)</i> (O3-05) Advanced Characterization of Zsm-5/Al ₂ O ₃ Extrudates after Catalytic Fast Pyrolysis of Biomass <i>Beatriz Luna Murillo (Netherlands)</i> (O3-16) Lepidocrocite-Type Layered Titanate as a Catalyst for the Conversion of Fatty Acids to Diesel-Like Hydrocarbons <i>Tosapol Maluangnont (Thailand)</i> Chair: Gregory Dudley Co-Chair: Chalita Ratanatawanate	Oral presentation (O4-05) Immobilization of Cadmium in Soil Using Olive <i>Usanee Siritapaneeya (Thailand)</i> (O4-09) Study of Noise Level at Three Types of Cities in Bangladesh Subjected to Background Noise <i>Md Mukarrom Hossain (Bangladesh)</i> Chair: Mary Kirchoff		
16.00-16.30	BREAK			
16.30-18.00	POSTER SESSION			
18.00-21.00	WELCOME RECEPTION (open to all registered delegates)			

Time/Date	Tuesday 11 th September 2018			
Venue	Shangri-La Hotel, Bangkok			
Room	Ballroom 1	Ballroom 2	Ballroom 3	The Study room
08.30-09.00	Registration			
09.00-09.30	<p>(PL-02) Welcome to Small Spaces -Soft Crystalline Porous Coordination Polymers - <i>Susumu Kitagawa (Japan)</i> Chair: Supa Hannongbua</p>			
09.30-10.00				
10.00-10.30	BREAK			
10.30-11.00	<p>(KN-03) Chemistry Revisited: Value from Sustainable Chemical Technologies <i>Tuulamari Helaja (Finland)</i> Chair: Jungbae Kim</p>			
11.00-11.30	<p>Topic I. Green Chemicals, Polymers, and Materials (IN-12) Self-Assembly of Renewable Nano-Sized Triterpenoids <i>Braja Gopal Bag (India)</i></p>	<p>Topic II. Green Synthesis, Manufacturing, and Engineering Processes (IN-13) Microwave-Assisted Syntheses of Bioactive Oxygen Heterocycles and Alkaloids <i>Nopporn Thasana (Thailand)</i></p>	<p>Topic III. Green Fossil Energy, Biomass, and Future Fuels (IN-14) Porphyrins for New Generation of Solar Cells <i>Chen-Yu Yeh (Taiwan)</i></p>	<p>PhosAgro/UNESCO/IUPAC International Symposium Green Chemistry: Driving Force for Innovations and Sustainable Development Opening: 11:00-11:20 Introduction by the Chair of the PhosAgro/UNESCO/IUPAC International Jury for Green Chemistry <i>John Corish</i> Addresses by: <i>Sirodzh A. Loikov (PhosAgro)</i> <i>Flavia Schlegel (UNESCO)</i> <i>Christopher Brett (IUPAC)</i> Session I: 11:20-12:30 Fostering Advancement and Impact of Green Chemistry through IUPAC International Instruments <i>Pietro Tundo (Italy)</i> Sustainable Catalysts to the Rescue for Chemical Security: Pesticide Degradation and Monitoring <i>Elsa Souza Orth (Brazil)</i> Integration of Sampling with Sample Preparation as a Green Strategy in Analytical Chemistry <i>Janusz Pawliszyn (Canada)</i> Indigenous Microorganisms (IMO's)-based Technology for Bioremediation of Phosphogypsum Generated from Phosphoric Acid Plants in India <i>Palu Kumar Dhal (India)</i> Metal-Organic Frameworks as Candidates for Catalytic Hydrogenation of Carbon Dioxide to High Value Chemicals <i>Gifi Mehlana (Zimbabwe)</i> Nurturing Green Chemistry Education in Thailand <i>Supawan Tantayanon (Thailand)</i> Chair: Prof. John Corish</p>
	11.30-12.00	<p>Oral presentation (O1-11) Synthesis of a Reusable Telluride for the Oxidation of Thiol <i>Aya Mihoya (Japan)</i> (O1-12) Ionic liquids As Protein Stabilizing Agents: Green Fluorescent Protein (GFP) as a Case of Study <i>Nathalia Vieira dos Santos (Brazil)</i> (O1-13) Green Extraction of Curcumin Using Protic Ionic Liquid and Sugar-based Deep Eutectic Solvents <i>Zetty Shafiga Othman (Malaysia)</i> Chair: Jungbae Kim Co-Chair: Winita Punyodom</p>	<p>Oral presentation (O2-11) Phyto-Mediated Synthesis of Gold Nanoparticles (AuNP) by Watery Extract of Terminalia Catappa L. (Almond) Leaf <i>Myo Maung Maung (Myanmar)</i> (O2-12) Synthesis of a New Bio-Sourced Surfactant Organocatalyst <i>Clement Giry (France)</i> (O2-13) Green Synthesis of Metal Sulfide Nanoparticles Through Homogeneous Precipitation Route using Substituted Thiourea Ligands and the Preparation of the Ms-Chitosan Nanocomposites for Wastewater Treatment <i>Thokozani Xaba (South Africa)</i> Chair: Wolfgang Hoelderich Co-chair: Sumrit Wacharasindhu</p>	
12.00-12.30	<p>Oral presentation (O1-14) Extraction of gold from gold pyrite tailings using a Task-Specific Ionic Liquid Protonated Betaine Bis (Trifluoromethylsulfonyl)Imide [Hbet][Tf2N]. <i>Godfrey Takudzwa Mawire (South Africa)</i> (O1-15) Aqueous Biphasic Systems in Biomolecules Purification: Unveiling Alternative Nature-inspired Solvents <i>Sara F. Carvalho (Portugal)</i> (O1-16) Molecular Structure of Deep Eutectic Solvents and their Applications: Insights from Molecular Dynamics Simulations <i>Dhawal Shah (Kazakhstan)</i> (O1-17) Ionic Liquid-Catalyzed CO₂ Transformation into Chemicals under Mild Conditions <i>Zhinan Liu (China)</i> (O1-18) Formulation of Solvent-Free Dispersant for Oil Spill Remediation by Mixing Lipopeptide Biosurfactant And Fatty Alcohol Ethoxylate <i>Parisarin Navavimarn (Thailand)</i> Chair: Braja Gopal Bag Co-Chair: Robert Molloy</p>			
12.30-13.30	LUNCH			
13.30-14.00	<p>(KN-04) The Opportunity of Sustainable Materials <i>Gert-Jan Gruter (Netherlands)</i> Chair: Kongkiat Suriye</p>			
14.00-14.30	<p>Topic I. Green Chemicals, Polymers, and Materials (IN-15) Nanobiocatalysis for Antifouling and CO₂ Conversion <i>Jungbae Kim (Korea)</i></p>	<p>Topic II. Green Synthesis, Manufacturing, and Engineering Processes (IN-16) Environmentally Friendly Heterogeneously Catalyzed Production of Lactide: 2nd Generation of PLA Process <i>Wolfgang Hoelderich (Germany)</i></p>	<p>Topic III. Green Fossil Energy, Biomass, and Future Fuels (IN-17) Fabrication of Electrode Materials for Energy Storage by Electrochemical Deposition <i>Jeng-Yu Lin (Taiwan)</i></p>	<p>PhosAgro/UNESCO/IUPAC International Symposium Green Chemistry: Driving Force for Innovations and Sustainable Development Session 2: 14:00-17:30 Towards Pollution-Free Green Electrochemical Processes for Sustainable Development <i>Christopher Brett (Portugal)</i> Unprecedented Combination of Metal- And Bio- Catalyzed Organic Reactions in Non-Conventional Reaction Media for The Synthesis of Enantiopure Valuable Organic Products <i>Joaquin Garcia-Alvarez (Spain)</i> Sensitive Visual Colorimetric Sensor Based on Polymeric Nanocomposite for Detection of Toxic Mercury and Lead Ions from Aqueous Solutions <i>Roya Sedighi (Iran)</i> Synthesis of Bengamide Analogues and their Cytotoxic Activity <i>Nguyen Van Hang (Viet Nam)</i> The Use of Proteins for the Formation of Novel Conductive Polymers <i>Nadav Andarsky (Israel)</i> Green Synthesis of Multifunctional Nanoparticles from the Plant Polyphenol Quercetin for Drug Delivery <i>Suhair Ziad Abed Alhameed Sunogrot (Jordan)</i> Biosynthesis of Silver Nanoparticles to Control Bacterial Leaf Blight of Rice <i>Muhammad Shahid (Pakistan)</i> Evaluation of Phytochemical Variation, Antioxidant and Antimicrobial Potential of Three Sudanese Traditional Medicinal Plants <i>Yasmin Adam Ali Aburigal (Sudan)</i> Progress on Green Industry policy of Thailand <i>Sirakarn Leungsakul (Thailand)</i> Green Chemistry Education for Sustainable Development <i>Shrikant Kukarni (India)</i> Questions and Answers and General Discussion Chair: John Corish Closing: 17:30-17:35</p>
	14.30-15.00	<p>Oral presentation (O2-18) Green Synthesis of H₂O₂ through a H₂O₂ Plasma Reaction: from Fundamental to Application <i>Yan Hui Yi (China)</i> (O2-19) Magnetic Iron Oxide/ Indium Hydroxide Nanocomposite: Its Synthesis, Characterization and Its Photocatalytic Activity <i>Teck Hock Lim (Malaysia)</i> (O1-35) Bio-Sourced Butyrolactone Materials Synthesis and their Tunable Properties <i>Jozef Kollár (Slovakia)</i> (O1-42) Synthesis of Highly Pure Poly (Aryleneethylenes) Using Palladium Supported on Calcium Carbonate as an Eco- Friendly Heterogeneous Catalyst <i>Nopporn Thasana (Thailand)</i> Chair: Nopporn Thasana Co-chair: Wipark Anutrasakda</p>	<p>Oral presentation (O3-08) The Development of a Framework Catalyst for Photocatalytic Hydrogen Evolution <i>Pondchanok Chinapang (Japan)</i> (O3-09) Incorporating 1-Butyl-3- Methylimidazolium Chloride Ionic Liquid into Iota Carageenan Solid Biopolymer Electrolyte for Electrochemical Devices Application <i>Nur Hasyareeda Hassan (Malaysia)</i> (O3-10) Selective Hydrodeoxygenation of Jatropa Oil to Green Diesel Over Fe/MCM-41 Nanoparticles <i>Karaked Tedsree (Thailand)</i> (O3-11) Enhancement of Triboelectric Performance via using Piezo-induced Triboelectric (PTT) Structure <i>Ainap Klanchuen (Thailand)</i> (O3-12) Methane Hydrate Formation Enhancement at Lower Diving Force: Effect of THF Concentration <i>Katipol Inkong (Thailand)</i> Chair: Chen-Yu Yeh Co-chair: Pongtanawat Khentong</p>	
15.00-15.30	<p>Oral presentation (O1-14) Extraction of gold from gold pyrite tailings using a Task-Specific Ionic Liquid Protonated Betaine Bis (Trifluoromethylsulfonyl)Imide [Hbet][Tf2N]. <i>Godfrey Takudzwa Mawire (South Africa)</i> (O1-15) Aqueous Biphasic Systems in Biomolecules Purification: Unveiling Alternative Nature-inspired Solvents <i>Sara F. Carvalho (Portugal)</i> (O1-16) Molecular Structure of Deep Eutectic Solvents and their Applications: Insights from Molecular Dynamics Simulations <i>Dhawal Shah (Kazakhstan)</i> (O1-17) Ionic Liquid-Catalyzed CO₂ Transformation into Chemicals under Mild Conditions <i>Zhinan Liu (China)</i> (O1-18) Formulation of Solvent-Free Dispersant for Oil Spill Remediation by Mixing Lipopeptide Biosurfactant And Fatty Alcohol Ethoxylate <i>Parisarin Navavimarn (Thailand)</i> Chair: Braja Gopal Bag Co-Chair: Robert Molloy</p>			
15.30-16.00	<p>Oral presentation (O2-18) Green Synthesis of H₂O₂ through a H₂O₂ Plasma Reaction: from Fundamental to Application <i>Yan Hui Yi (China)</i> (O2-19) Magnetic Iron Oxide/ Indium Hydroxide Nanocomposite: Its Synthesis, Characterization and Its Photocatalytic Activity <i>Teck Hock Lim (Malaysia)</i> (O1-35) Bio-Sourced Butyrolactone Materials Synthesis and their Tunable Properties <i>Jozef Kollár (Slovakia)</i> (O1-42) Synthesis of Highly Pure Poly (Aryleneethylenes) Using Palladium Supported on Calcium Carbonate as an Eco- Friendly Heterogeneous Catalyst <i>Nopporn Thasana (Thailand)</i> Chair: Nopporn Thasana Co-chair: Wipark Anutrasakda</p>			
16.00-16.30	BREAK			
16.30-18.00	POSTER SESSION			
18.30-21.00	THE 39 TH ANNIVERSARY OF CST GALA DINNER (invited only)			

Time/Date	Wednesday 12 th September 2018			
Venue	Shangri-La Hotel, Bangkok			
Room	Ballroom 1	Ballroom 2	Ballroom 3	The Study room
08.30-09.00	Registration			
09.00-09.30	<p style="text-align: center;">(KN-05) Innovative and Environmental-Benign Process for the Production of Propylene Oxide (PO) <i>Meinolf Weidenbach (Germany)</i> Chair: Robert Molloy</p>			
09.30-10.00	BREAK			
10.00-10.30	<p style="text-align: center;">Topic I. Green Chemicals, Polymers, and Materials (IN-18) Dimethyl Carbonate and Its Derivative for Green Chemistry <i>Pietro Tundo (Italy)</i></p>	<p style="text-align: center;">Topic II. Green Synthesis, Manufacturing, and Engineering Processes (IN-20) Pyranose 2-oxidase as a Biocatalyst for Synthesis of Rare Sugars <i>Thanyaporn Wongnate (Thailand)</i></p>	<p style="text-align: center;">Topic I. Green Chemicals, Polymers, and Materials (IN-21) Lignin First Approach <i>Joseph S. M. Samec (Sweden)</i></p>	<p style="text-align: center;">SCG Catalysis Advancement Symposium (Open for all delegates)</p> <p>Introduction <i>Kongkiat Suriye (Thailand)</i></p>
10.30-11.00	<p style="text-align: center;">(IN-19) Biomass Conversion to Sustainable Solvents for Industry <i>Andrew J. Hunt (Thailand)</i></p>	<p>Oral presentation (O2-25) Novel Ionic Liquid-Based Acid Aqueous Biphasic System for the One-Pot Simultaneous Leaching, Separation and Electrodeposition of Critical Metals <i>Nicolas Gislain Schaeffer (Portugal)</i> (O2-26) Comparison of Separation Methods in Bioethanol Production Processes from Corn Stover <i>Itipat Subsaipin (Thailand)</i> (O2-27) Zeolite Silicalite-1 Membrane for Hydrocarbon Separation by Size <i>Masahiko Matsukata (Japan)</i> (O3-13) The Rust Challenge: Iron Oxide Photoanodes for Solar Water Splitting <i>Avner Rothschild (Israel)</i></p> <p>Chair: Panuwat Padungros Co-chair: Thanyaporn Wongnate</p>	<p>Oral presentation (O1-26) New Functionalized Fatty Acid-Based Comb Polyesters as Oil Additives: Behaviour in Solution and Structure-Properties Relationship Investigation <i>Helene Meheust (France)</i> (O1-27) Synthesis of Novel Trihybrid Materials Based on Two Renewable Supramolecular Building Blocks Triterpene and Graphene Oxide: Study of their Capability as Drug Delivery Vehicle. <i>Rakhi Majumdar (India)</i> (O1-28) Supramolecular Hydrogel Networks with Highly Branched Cucurbit[8]Uril Polyrotaxanes <i>Cindy Soo Yun Tan (Malaysia)</i> (O1-29) Physico-Mechanical Properties of Typha Agustata Fiber-Reinforced Polystyrene Biocomposites <i>Walid Bin Kader (Bangladesh)</i> (O1-30) Extraction of Micro- and Nanocellulose from Wheat Straw and Fabrication of Green Composites with Copolyester <i>Jyoti Giri (Nepal)</i> (O1-31) Sulfobetaine and Carboxybetaine Copolymers and Hydrogels: Modulation of Thermo-And Ion Responsiveness, Water State, Mechanical Properties and Cell Adhesion <i>Martin Danko (Slovakia)</i></p> <p>Chair: Duangamol Tungasmita Co-chair: Joseph S. M. Samec</p>	<p>(O-03) Entrapped Single Tungstate Site in Zeolite for Cooperative Catalysis of Olefin Metathesis with Brønsted Acid Site <i>Pu Zhao (UK)</i> (O-01) Effect of Pretreatment Atmosphere on the Properties of WO₃/SiO₂ Catalysts in Metathesis of Ethylene and 2-Butene to Propylene <i>Kritidech Gavapan (Thailand)</i> (O2-37) Alternative synthesis of WO₃-based olefin metathesis catalysts: approach for an efficient W utilization <i>Surasak Maksasithorn (Thailand)</i> SMOM Catalyst for Isomerization and Dehydrogenation <i>Antonio J. Martinez-Martinez</i> (O-02) In Situ-DRIFTS Study: Influence of Non-Reducible and Reducible Oxides on Lewis Acid Transformation in The Presence of Hydrogen <i>Adisak Guntida (Thailand)</i> (O2-36) In Situ-DRIFTS Study: Important Surface Acid Characteristics of Rhenium-Based Metathesis Catalysts for Propylene Production from Various Olefins <i>Siriporn Vorakitkanvasin (Thailand)</i> (O-06) Catalytic dehydrochlorination of 1,2-dichloroethane to produce vinyl chloride over N-doped activated carbon <i>Wei Li China</i></p> <p>Chair: Kongkiat Suriye</p>
11.00-11.30	<p>Oral presentation (O1-20) Carbohydrate Conversion with Amines into High Valued Pyrrole Compounds <i>Sangho Koo (Korea)</i> (O1-21) Microwave Hydrothermal Treatment of Biomass: Towards an Efficient Process for the Provision of Non-Degraded Lignin and Fermentable Sugars <i>Duncan J Macquarrie (UK)</i> (O1-22) Catalytic Conversion of Lignocellulosic Biomass into Valuable Chemicals using Supported Metal Catalysts <i>Aritomo Yamaguchi (Japan)</i> (O1-23) The Production of Levulinic Acid from Depithed Sugarcane Bagasse Conversion in 1-ethyl-3-methylimidazolium hydrogen sulfate [EMIm][HSO₄] using Box-Behnken Design <i>Lethiwe Debra Mthembu (South Africa)</i> (O1-25) Deoxydehydration of Small Natural Polyhydroxylated Molecules: A Useful Tool to Obtain Volatile Hydrocarbons from Natural Renewable Oxygenated Compounds <i>Nicola D'Alessandro (Italy)</i></p> <p>Chair: Robert Molloy Co-chair: Andrew J. Hunt</p>	<p>Oral presentation (O1-20) Carbohydrate Conversion with Amines into High Valued Pyrrole Compounds <i>Sangho Koo (Korea)</i> (O1-21) Microwave Hydrothermal Treatment of Biomass: Towards an Efficient Process for the Provision of Non-Degraded Lignin and Fermentable Sugars <i>Duncan J Macquarrie (UK)</i> (O1-22) Catalytic Conversion of Lignocellulosic Biomass into Valuable Chemicals using Supported Metal Catalysts <i>Aritomo Yamaguchi (Japan)</i> (O1-23) The Production of Levulinic Acid from Depithed Sugarcane Bagasse Conversion in 1-ethyl-3-methylimidazolium hydrogen sulfate [EMIm][HSO₄] using Box-Behnken Design <i>Lethiwe Debra Mthembu (South Africa)</i> (O1-25) Deoxydehydration of Small Natural Polyhydroxylated Molecules: A Useful Tool to Obtain Volatile Hydrocarbons from Natural Renewable Oxygenated Compounds <i>Nicola D'Alessandro (Italy)</i></p> <p>Chair: Robert Molloy Co-chair: Andrew J. Hunt</p>	<p>Oral presentation (O1-26) New Functionalized Fatty Acid-Based Comb Polyesters as Oil Additives: Behaviour in Solution and Structure-Properties Relationship Investigation <i>Helene Meheust (France)</i> (O1-27) Synthesis of Novel Trihybrid Materials Based on Two Renewable Supramolecular Building Blocks Triterpene and Graphene Oxide: Study of their Capability as Drug Delivery Vehicle. <i>Rakhi Majumdar (India)</i> (O1-28) Supramolecular Hydrogel Networks with Highly Branched Cucurbit[8]Uril Polyrotaxanes <i>Cindy Soo Yun Tan (Malaysia)</i> (O1-29) Physico-Mechanical Properties of Typha Agustata Fiber-Reinforced Polystyrene Biocomposites <i>Walid Bin Kader (Bangladesh)</i> (O1-30) Extraction of Micro- and Nanocellulose from Wheat Straw and Fabrication of Green Composites with Copolyester <i>Jyoti Giri (Nepal)</i> (O1-31) Sulfobetaine and Carboxybetaine Copolymers and Hydrogels: Modulation of Thermo-And Ion Responsiveness, Water State, Mechanical Properties and Cell Adhesion <i>Martin Danko (Slovakia)</i></p> <p>Chair: Duangamol Tungasmita Co-chair: Joseph S. M. Samec</p>	<p>(O-03) Entrapped Single Tungstate Site in Zeolite for Cooperative Catalysis of Olefin Metathesis with Brønsted Acid Site <i>Pu Zhao (UK)</i> (O-01) Effect of Pretreatment Atmosphere on the Properties of WO₃/SiO₂ Catalysts in Metathesis of Ethylene and 2-Butene to Propylene <i>Kritidech Gavapan (Thailand)</i> (O2-37) Alternative synthesis of WO₃-based olefin metathesis catalysts: approach for an efficient W utilization <i>Surasak Maksasithorn (Thailand)</i> SMOM Catalyst for Isomerization and Dehydrogenation <i>Antonio J. Martinez-Martinez</i> (O-02) In Situ-DRIFTS Study: Influence of Non-Reducible and Reducible Oxides on Lewis Acid Transformation in The Presence of Hydrogen <i>Adisak Guntida (Thailand)</i> (O2-36) In Situ-DRIFTS Study: Important Surface Acid Characteristics of Rhenium-Based Metathesis Catalysts for Propylene Production from Various Olefins <i>Siriporn Vorakitkanvasin (Thailand)</i> (O-06) Catalytic dehydrochlorination of 1,2-dichloroethane to produce vinyl chloride over N-doped activated carbon <i>Wei Li China</i></p> <p>Chair: Kongkiat Suriye</p>
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13.30-14.00				<p>(O-03) Entrapped Single Tungstate Site in Zeolite for Cooperative Catalysis of Olefin Metathesis with Brønsted Acid Site <i>Pu Zhao (UK)</i> (O-01) Effect of Pretreatment Atmosphere on the Properties of WO₃/SiO₂ Catalysts in Metathesis of Ethylene and 2-Butene to Propylene <i>Kritidech Gavapan (Thailand)</i> (O2-37) Alternative synthesis of WO₃-based olefin metathesis catalysts: approach for an efficient W utilization <i>Surasak Maksasithorn (Thailand)</i> SMOM Catalyst for Isomerization and Dehydrogenation <i>Antonio J. Martinez-Martinez</i> (O-02) In Situ-DRIFTS Study: Influence of Non-Reducible and Reducible Oxides on Lewis Acid Transformation in The Presence of Hydrogen <i>Adisak Guntida (Thailand)</i> (O2-36) In Situ-DRIFTS Study: Important Surface Acid Characteristics of Rhenium-Based Metathesis Catalysts for Propylene Production from Various Olefins <i>Siriporn Vorakitkanvasin (Thailand)</i> (O-06) Catalytic dehydrochlorination of 1,2-dichloroethane to produce vinyl chloride over N-doped activated carbon <i>Wei Li China</i></p> <p>Chair: Kongkiat Suriye</p>
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14.30-15.00				<p>(O-03) Entrapped Single Tungstate Site in Zeolite for Cooperative Catalysis of Olefin Metathesis with Brønsted Acid Site <i>Pu Zhao (UK)</i> (O-01) Effect of Pretreatment Atmosphere on the Properties of WO₃/SiO₂ Catalysts in Metathesis of Ethylene and 2-Butene to Propylene <i>Kritidech Gavapan (Thailand)</i> (O2-37) Alternative synthesis of WO₃-based olefin metathesis catalysts: approach for an efficient W utilization <i>Surasak Maksasithorn (Thailand)</i> SMOM Catalyst for Isomerization and Dehydrogenation <i>Antonio J. Martinez-Martinez</i> (O-02) In Situ-DRIFTS Study: Influence of Non-Reducible and Reducible Oxides on Lewis Acid Transformation in The Presence of Hydrogen <i>Adisak Guntida (Thailand)</i> (O2-36) In Situ-DRIFTS Study: Important Surface Acid Characteristics of Rhenium-Based Metathesis Catalysts for Propylene Production from Various Olefins <i>Siriporn Vorakitkanvasin (Thailand)</i> (O-06) Catalytic dehydrochlorination of 1,2-dichloroethane to produce vinyl chloride over N-doped activated carbon <i>Wei Li China</i></p> <p>Chair: Kongkiat Suriye</p>
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15.30-16.00	<p>(O-03) Entrapped Single Tungstate Site in Zeolite for Cooperative Catalysis of Olefin Metathesis with Brønsted Acid Site <i>Pu Zhao (UK)</i> (O-01) Effect of Pretreatment Atmosphere on the Properties of WO₃/SiO₂ Catalysts in Metathesis of Ethylene and 2-Butene to Propylene <i>Kritidech Gavapan (Thailand)</i> (O2-37) Alternative synthesis of WO₃-based olefin metathesis catalysts: approach for an efficient W utilization <i>Surasak Maksasithorn (Thailand)</i> SMOM Catalyst for Isomerization and Dehydrogenation <i>Antonio J. Martinez-Martinez</i> (O-02) In Situ-DRIFTS Study: Influence of Non-Reducible and Reducible Oxides on Lewis Acid Transformation in The Presence of Hydrogen <i>Adisak Guntida (Thailand)</i> (O2-36) In Situ-DRIFTS Study: Important Surface Acid Characteristics of Rhenium-Based Metathesis Catalysts for Propylene Production from Various Olefins <i>Siriporn Vorakitkanvasin (Thailand)</i> (O-06) Catalytic dehydrochlorination of 1,2-dichloroethane to produce vinyl chloride over N-doped activated carbon <i>Wei Li China</i></p> <p>Chair: Kongkiat Suriye</p>			

The 8th IUPAC International Conference on Green Chemistry

Time/Date	Thursday 13 th September 2018			
Venue	Shangri-La Hotel, Bangkok			
Room	Ballroom 1	Ballroom 2	Ballroom 3	The Study room
08.30-09.00	Registration			
09.00-09.30	<p>(PL-03) Conversion of Biomass and CO₂ into Value-Added Chemicals and Fuels <i>Buxing Han (China)</i> Chair: Vudhichai Parasuk</p>			
09.30-10.00				
10.00-10.30	BREAK			
10.30-11.00	<p>(KN-06) Green Catalytic Conversion of Biomass Platform Molecules to Useful Products <i>S. C. Edman Tsang</i> Chair: Kongkiat Surive</p>		<p>(KN-10) How Avantium Drive Technology into Commercialization Phase <i>Gert-Jan Gruter (Netherlands)</i></p>	
11.00-11.30	<p>Topic I. Green Chemicals, Polymers, and Materials (IN-22) Polymer- and Nanomaterial-Modified Electrodes using Deep Eutectic Solvents <i>Christopher Brett (Portugal)</i></p>	<p>Topic II. Green Synthesis, Manufacturing, and Engineering Processes (IN-24) Catalytic Reactions at The Liquid/Metal-Oxide Interface: First-Principle Molecular Dynamics Simulation <i>Akira Nakayama (Japan)</i></p>		
	<p>(IN-23) Catalysts to the Rescue for Destroying and Monitoring Agrochemicals: from Waste to Nanomaterials <i>Elisa Souza Orth (Brazil)</i></p>	<p>(IN-25) Facet Dependent Catalytic Performances of Anatase-TiO₂ Toward Selective Catalytic Reduction of NO with NH₃: A DFT-D Study <i>Supawadee Namuangruk (Thailand)</i></p>		
12.00-12.30	<p>Oral presentation (O1-40) Sustainable Hydrophobic Terpene-Based Eutectic Solvents for the Extraction and Separation of Metals <i>Mónia A.R. Martins (Portugal)</i> (O1-43) Ultrafine Co or Ni-based Nanoparticle@Polyaniline-Derived N-doped Mesoporous Carbon toward High-Performance Supercapacitors <i>Chaitrat Ponghiransmith (Thailand)</i> (O1-44) Fabrication of in Situ Synthesized Economical Tungsten Dioxide Imbedded in N-Doped Hierarchical Hollow Mesoporous Carbon for High-Performance Supercapacitors <i>Zikkavus Pasom (Thailand)</i> Chair: Pramoch Rangsunvigit Co-chair: Pongtanawat Khemtong</p>	<p>Oral presentation (O2-21) New Insights into Water-Induced Zeolite Dealumination <i>Katarina Stancikova (Netherlands)</i> (O2-22) Study of the Mass Transfer at the Wall of the Dual Impeller Agitated Vessel <i>Yehia M. ElShazly (Egypt)</i> (O-04) Examining Poisoning Metals Effect on Zeolite Degradation in an Individual Fluid Catalytic Cracking Catalyst Particle by X-Ray Fluorescence and X-Ray Diffraction Tomography <i>Marianna Gambino (Netherlands)</i> Chair: Xin Xu Co-chair: Supawadee Namuangruk</p>	<p>GREEN TECH STARTUP 11.00-12.30: Panel Discussion (VC, Startup and NIA)</p>	<p>SCG Catalysis Advancement Symposium (Closed section)</p>
12.30-13.30	LUNCH			
13.30-14.00	<p>(KN-07) Catalysis for the Production of Chemicals and Fuels from Biomass <i>Bert M. Weckhuysen (Netherlands)</i> Chair: Chalitta Ratanatawanate</p>	<p>(KN-08) Towards the Accurate and Efficient Microkinetic Modelling in Heterogeneous Catalysis <i>Xin Xu (China)</i> Chair: Supawadee Namuangruk</p>	<p>GREEN TECH STARTUP 13.30-14.30: Startup Pitching</p>	
14.00-14.30	<p>Topic III. Green Fossil Energy, Biomass, and Future fuels (IN-26) Green and Viable Natural Gas Storage with Hydrate Technology <i>Pramoch Rangsunvigit (Thailand)</i></p>	<p>Topic II. Green Synthesis, Manufacturing, and Engineering Processes (IN-27) Hydrodeoxygenation of Water-Insoluble Bio-Oil to Alkanes using a Highly Dispersed Pd-Mo Catalyst <i>Dermot O'Hare (UK)</i></p>		
14.30-15.00	<p>Oral presentation (O3-14) Visible-Light Driven Carboxylation with CO₂ in the Hybrid System of Biocatalyst and Photocatalytic Dye <i>Yutaka Amao (Japan)</i> (O3-15) Selective Conversion of Glycerol to 1,2-Propanediol Production Over Various Metal Oxide Supported Cu Catalysts <i>Smita Mondal (India)</i> (O3-17) Selective Xylose Transformation to Lactic Acid Over Metal Oxide Supported Catalysts <i>Pongtanawat Khemthong (Thailand)</i> (O3-19) The Catalytic Behavior of Ni and Cu Mono/Bimetallic Catalysts in Hydrogenation of Methyl levulinate to Gamma-valerolactone <i>Chaitanon Pansakdanon (Thailand)</i> (O3-22) Catalytic Upgrading of Biomass Compounds into Transportation Fuel by using Ti-MCM-41 Based Catalyst <i>Hwei Voon Lee (Malaysia)</i> Chair: Christopher Brett Co-Chair: Chalitta Ratanatawanate</p>	<p>(IN-28) Integration of Biorefinery Concept for Development of Sustainable Process for Pulp and Paper Industry <i>Suttichai Assabumrungrat (Thailand)</i></p>	<p>National Innovation Agency (public organization), NIA section Agricultural Transforming terrain through Biorefinery: Trends & Opportunities <i>Suwabun Chirachanchai (Thailand)</i></p>	<p>SCG Catalysis Advancement Symposium (Closed section)</p>
15.00-15.30	<p>(O2-33) Microwave Assisted Extraction and Phytochemical Analysis of Acacia Arabica Bark: Greener Perspective <i>Varsha Saxena (India)</i> (O2-34) Qualitative and Quantitative Phytochemical Estimation of Flower Extract of Spathodea Campanulata in Different Solvents <i>Kiran Shanidhya (India)</i> (O2-35) Treatment of Municipal Waste Water from Drainage, Mandalay, Myanmar <i>Khin Nam Nyunt Swe (Myanmar)</i> (O2-29) A Green and Convenient Protocol for the Synthesis of Novel Quinolonyl-Diaryl Urea Derivatives Via a One-Pot, Three-Component Reaction Under Solvent-Free Conditions <i>Pourya Zarshenas (Iran)</i> Chair: Duangamol Tungasmita</p>			
15.30-16.00				
16.00-16.30	BREAK			
16.30-18.00	POSTER SESSION			

The 8th IUPAC International Conference on Green Chemistry

Time/Date	Friday 14 th September 2018
Venue	Shangri-La Hotel, Bangkok
Room	Ballroom 3
08.30-09.00	Registration
08.50-09.00	Awarding 2018 IUPAC CHEMRAWN VII PRIZE for Green Chemistry
09.00-09.30	(KN-09) Mixed-Anion Visible-Light-Active Photocatalysts for Green Energy Conversion and Environmental Remediation <i>Mirabbos Hojamberdiyev (Uzbekistan)</i> Chair: Christopher Brett
09.30-10.00	BREAK
10.00-10.30	Panel Discussion "Green and Sustainable Material and Its Impact to Humanity" <i>Loganathan (Log) Ravisanker</i> (Dow R&D Director, South East Asia) <i>Jordi Bacardit</i> (Senior Applied R&D Specialist, Dow Chemical Iberica) <i>Mary Kirchhoff</i> (Director of Green Chemistry Institute, ACS) <i>Elisa Souza Orth</i> (Department of Chemistry- Federal University of Paraná)
10.30-11.00	
11.00-11.30	Moderator: Supawan Tantayanon (Department of Chemistry, Chulalongkorn University)
11.30-12.00	CLOSING CEREMONY AND POSTER PRESENTATION AWARDS