

PROGRAM - AT A GLANCE

	MONDAY	TUESDAY
8:00 AM	REGISTRATION	
8:30 AM		PL4 • J. Perez-Ramirez
9:00 AM	OPENING REMARKS	OC2-1A • OC2-1B • OC2-2 • OC2-3 • OC2-5 • OC2-9
9:30 AM		
10:00 AM	PL1 • J. Warner	COFFEE
10:30 AM		
11:00 AM	PL2 • J.P. Lange	KN1-2 • KN1-1A • KN1-1B • KN1-8 • KN1-9 • KN1-4
11:30 AM		FC2-2 • FC2-1A • FC2-1B • FC2-8 • FC2-9 • FC2-4
12:00 AM		
12:30 AM	LUNCH	LUNCH
2:00 PM	PL3 • M. Poliakoff	PL5 • R. Palkovits
3:00 PM	OC1-1A • OC1-1B • OC1-2 • OC1-3 • OC1-4 • OC1-9	SAT event L'ORÉAL
4:00 PM	COFFEE	
4:30 PM	FC1-1A • FC1-1B • FC1-1C • FC1-2 • FC1-5	COFFEE
5:00 PM		
5:30 PM		PL6 • M. Beller
6:00 PM	POSTER SESSION PC 05/04	
7:00 PM	G2C2 AWARD • ISGC AWARD	
7:45 PM	WELCOME COCKTAIL	
8:00 PM		

PL
OC
KN
FC

PL: plenary lectures; KN: Keynotes; OC: Oral communications;
 FC: Flash communications; PC: Poster session

	WEDNESDAY	THURSDAY
8:00 AM	REGISTRATION	
8:30 AM	PL7 • M. Fontecave	PL9 • R. Rogers
9:30 AM	OC3-1A • OC3-1B • OC3-3 • OC3-6 • OC3-9A • OC3-9B	OC5-1A • OC5-1B • OC5-2 • OC5-5 • OC5-8 • OC5-9
10:30 AM	COFFEE	COFFEE
11:00 AM	KN2-5 • KN2-1A • KN2-1B • KN2-9 • KN2-4 • KN2-2	KN3-1A • KN3-1B • KN3-2 • KN3-3 • KN3-6 • KN3-4
11:30 AM	FC3-5 • FC3-1A • FC3-1B • FC3-9 • FC3-4 • FC3-2	FC5-1A • FC5-2 • FC5-3 • FC5-6 • FC5-4
12:30 AM	LUNCH	LUNCH
2:00 PM	PL8 • B. Han	PL10 • P. Seidl
3:00 PM	OC4-1A • OC4-1B • OC4-2 • OC4-4 OC4-5 • OC4-9	OC6-1A • OC6-1B • OC6-3 • OC6-5 • OC6-6 OC6-8
4:00 PM	COFFEE	CONCL. REMARKS: POSTER AWARD (Green chem)
4:30 PM	FC4-1A • FC4-1B • FC4-1C FC4-3 • FC4-7	INDUSTRIAL SESSION
5:30 PM	POSTER SESSION PC 05/06	
7:00 PM		
8:30 PM	GALA DINER CATERING ROOM	

SCIENTIFIC PROGRAM - MAY 4

10:00AM - 11:00AM	PL1 (Auditorium)	Molecular Mechanisms and Entrepreneurship in Green Chemistry Prof John Warner, Warner Babcock Institute for Green Chemistry LLC. Wilmington / USA
11:00AM - 12:00AM	PL2 (Auditorium)	Wood liquefaction to biocrude – a platform for biofuel manufacture Prof. Jean Paul Lange, Principal Research Scientist SHELL & University of Twente / Netherlands
2:00PM - 3:00PM	PL3 (Auditorium)	Self-optimizing and other continuous reactions Prof Martyn Poliakoff, University of Nottingham / UK

3:00PM - 4:00PM

OC1-1A (Auditorium)		OC1-1B (Room 5)		OC1-2 (Room 4)	
613	Complete conversion of biomass to sugars and lignin monomers using gamma-valerolactone as a solvent Jeremy Luterbacher	702	Development of the Molybdenum-Catalyzed Deoxydehydration of Polyols Peter Frstrup	682	Design of a microfluidic device for the continuous synthesis of poly(acrylic acid) in heterogeneous liquid water / supercritical CO ₂ medium. Emmanuel Mignard
442	Towards integrated biorefineries for the conversion of biomass into value-added chemicals Davide Esposito	74	Multistep Biomass Conversion Reactions catalyzed with Sn in a Partially Deaminated Beta Framework Bert Sels	555	Hide and Seek in Continuous Flow Emilia Streng
478	Waste biomass conversion into valuable chemicals via green catalysis Ning Yan	831	Ruthenium-catalyzed aerobic oxidative decarboxylation of amino acids: a green, zero-waste route for bio-based nitriles production Laurens Claes	708	Polymer-assisted development of new processes and materials in supercritical carbon dioxide Patrick Lacroix-Desmazes

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Nomenclature:

OC x-y / FC x-y / KN x-y

x = session number & y = topic number / See topic list p. 23

	OC1-3 (Room 2)	OC1-4 (Room 3)	OC1-9 (Room 1)
639	<p>Heterogeneous catalysis in synthesis of amines for life science applications: Hydrogen borrowing of 1-(2-aminophenyl)propan-2-ol to 2-methylindoline using supported metal catalysts Dmitry Murzin</p>	<p>277</p> <p>Advancing the catalysis of highly substituted oxiranes/CO₂ coupling reactions Giulia Fiorani</p>	<p>92</p> <p>Cationic and hybrid cationic/free radical photopolymerization of seed oil derivatives: experimental design for optimizing reactivity and performance Xavier Coqueret</p>
915	<p>Heterogeneous Catalytic Synthesis of Pharmaceuticals in the Pipeline Zacharias Amara</p>	<p>105</p> <p>Bioelectrochemical conversion of CO₂ to chemicals: Electrosynthesis via bacteria and enzymes Mohanakrishna Gunda</p>	<p>412</p> <p>Chemo-enzymatic syntheses and polymerizations of bio-based aromatic monomers derived from ferulic acid: an access to novel renewable copolyesters, polyurethanes, polyphenols, and poly(ester-olefin)s Florent Allais</p>
243	<p>Metal-organic framework-based materials for selective oxidation reactions Yingwei Li</p>	<p>429</p> <p>Novel silver-based electrocatalysts for carbon dioxide valorization Gastón O. Larrazábal</p>	<p>475</p> <p>Enzymatic synthesis of biobased polymers derived from furan monomers Carmen Boeriu</p>

4:30PM - 5:30PM

FC1-1A (Auditorium)		FC1-1B (Room 5)		FC1-1C (Room 2)	
444	Evaluation and development of biomass conversion processes for the chemical and biochemical valorization of lignin Chiara Francesca Carrozza	385	Chemicals production from biomass torrefaction: Elucidation of reaction mechanisms through solid ¹³ C Cross Polarization/Magic Angle Spinning Nuclear Magnetic Resonance and Thermogravimetric Analysis coupled with Gas Chromatography-Mass Spectrometry Elvira Rodriguez Alonso	786	Development of Ni/H-ZSM-5 zeolite catalyst for sustainable waste oil hydrodeoxygenation Natasa Novak Tusar
1035	On the methylation of monoaromatic lignin depolymerisation products Isabel Vicente	73	Lignocellulosic Biofuels Nikolaus Schwaiger	797	New one-pot syntheses of ketals and acetals from oleic acid Pascale De Caro
441	Selective nickel-catalyzed conversion of lignin-derived compounds to substituted-cyclohexanone as precursor for novel polymer building blocks Wouter Schutyser	516	Micellar extraction of chlorophylls from spinach leaves Ana Maria Ferreira	38	Synthesis of biomass based dendrimers for emerging pollutants encapsulation Bérengère Menot
720	TiO ₂ -lignin clusters for sunscreen applications Nicola d'Alessandro	303	The catalyst/biomass integration concept for the direct thermo-catalytic conversion of biomass into either syngas or added-value molecules Yohan Richardson	220	Synthesis of functionalized cyclopropanes from unsaturated fatty esters Clara I. Herreras
986	Towards the development of new bio-based aromatic building units from Lignin Olivia Condassamy	345	Two-step catalytic fractionation of lignocellulose towards lignin phenolics and sugar alcohols Sander Van den Bosch	719	Tandem catalytic reactions of methanol aqueous phase reforming-glycerol hydrodeoxygenation targeted to selective 1,2-propanediol formation Vasileia - Loukia Yfanti

5:30PM - 7:00PM

POSTER SESSION
(Poster area)

7:00PM - 7:45PM

AWARDS

G2C2 Presentation - Avtar Matharu (UK)
 NESSE Presentation - Jennifer Dodson (UK)
 G2C2 award given by Peter Seidl (Brasil) on the behalf of G2C2
 ISGC award given by Jean François Macaire (France)

FC1-2 (Room 4)

- 641 «On water» or «In Water»? From the Impact of Aqueous-Solubility of Reactants on the Reaction Rate of a Water-Promoted Reaction
Jin Qu
- 710 A magnetic resonance study of the removal of water and secondary metabolites from sapwood using supercritical carbon dioxide.
Andrew Parrott
- 870 CO₂-Expanded alkyl lactates: A physicochemical and Molecular modeling study
Yaocihuatl Medina-Gonzalez
- 387 Glycerol as alternative solvent in phenol oxidation catalyzed by macrocyclic metallocomplexes with hydrogen peroxide
Jan Poltowicz
- 647 Temperature dependent miscibility of non-fluorinated ionic liquids in water
Daphne Depuydt

FC1-5 (Room 1)

- 158 Dry separation of ground maize stems provides fractions with distinct enzymatic degradation patterns.
Fabienne Guillon
- 160 Highly accessible titanium dioxide nanoparticles embedded in silica for the photocatalytic degradation of pollutants under visible and UV radiation
Damiano Cani
- 812 On 'non-thermal microwave effects' on the acid-catalyzed hydrolysis of cellobiose
Michael Dierks
- 435 Solventless n- and c-protection of amino acids and esters in a ball-mill
Laure Konnert
- 66 Ultrasonic-assisted pre-treatment of lignocellulosic biomass in novel ionic liquid for improved hydrolysis.
Shekhar Sharma

SCIENTIFIC PROGRAM - MAY 5

8:30AM - 9:30AM

PL4
(Auditorium)

Glycerol to chemicals via chemocatalytic routes
Prof Javier Perez-Ramirez, ETH Zurich
Institute for Chemical and Bioengineering / Switzerland

9:30AM - 10:30PM

OC2-1A (Auditorium)		OC2-1B (Room 5)	OC2-2 (Room 4)		
655	Catalytic biorefining of lignocelluloses to useful lignin oils and hydrolysable holocelluloses Claudio Chesi	382	Combining Bio- and Chemo-catalysis for the Conversion of Bio-Renewable Alcohols. Andrew Marr	293	Designing Brønsted acid ionic liquid as a heterogeneous catalyst for organic reactions under solvent-free conditions Yanlong Gu
926	Deep eutectic solvents for biomass fractionation Sauli Vuoti	351	Formation of oxygenated products from ethylene glycol or glycerol over carbon supported Ni and Cu catalysts in aqueous alkaline media Harry Bitter	454	Novel aqueous biphasic systems composed of two ionic liquids Mara G. Freire
683	Highly Selective Production of Formic Acid From Complex, Water-Insoluble Biomass Using a Homogeneous Polyoxometalate Catalyst Jakob Albert	107	Glycolic acid synthesis from glycerol using silver-based catalysts Mickael Capron	716	Pervaporative transport mechanisms in phosphonium ionic liquid-based supported liquid membrane and its stability with actual fermentation broth feed Hercules Cascon

11:00AM - 11:30AM

KN1-2 (Room 4)	KN1-1A (Auditorium)	KN1-B (Room 5)
A survey of solvent selection guides Dr Denis Prat, Chemistry & Biotechnology Development - Sanofi / France	Plant-based chemistry: a corner stone for the growth of bio economy Dr Christophe Rupp-Dahlem, VP R&D Plant based Chemistry - Roquette / France	417 Algal biopolymers: a complete toolbox for biobased chemistry Jean-Francois Sassi, CEA

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	OC2-3 (Room 2)	OC2-5 (Room 3)	OC2-9 (Room 1)
129	<p>From biomass to fine chemistry: alginic acid aerogel as a heterogeneous Brønsted acid promoter for the direct Mannich reaction</p> <p>Asja Pettignano</p>	<p>773</p> <p>A Model Simulation of Lignin Degradation</p> <p>Timm Lankau</p>	<p>806</p> <p>Enabling green chemistry innovation through early stage process analysis and feedback</p> <p>Akshay Patel</p>
245	<p>Non-precious metal catalyzed selective hydrogenation of functionalized nitroaromatics in flow</p> <p>Hannes Alex</p>	<p>651</p> <p>Extraction of high-value molecules by a novel process based on reactive extrusion</p> <p>Cedric Dever</p>	<p>489</p> <p>PLA toughening using low Tg polyesters - A case study of the benefits of oleo-chemistry in industrial applications</p> <p>Thomas Lebarbé</p>
855	<p>Well-defined iron catalysts for reduction of carboxylic acid derivatives</p> <p>Christophe DARCEL</p>	<p>453</p> <p>Mechanical Enhancement of Lignocellulosic Fibers by Direct Cross Linking Reactions</p> <p>Guillaume Nourry</p>	<p>216</p> <p>Poly(HydroxyAlkanoate)s copolymers: from synthesis to nanoparticles for drug delivery</p> <p>Sophie Guillaume</p>

	KN1-8 (Room 3)	KN1-9 (Room 1)	KN1-4 (Room 2)
	<p>Hydrogen production from biomass</p> <p>Prof. Fábio Bellot Noronha, National Technology Institute / Brazil</p>	<p>Christian GARAFFA, Novamont</p>	<p>Chemicals from waste bio-oils</p> <p>Prof David J. Cole-Hamilton, School of Chemistry - University of St. Andrews / Scotland</p>

FC2-2 (Room 4)		FC2-1A (Auditorium)	FC2-1B (Room 5)		
875	Aqueous Biphasic Systems composed of Cholinium-based Ionic Liquids and Polyethylene Glycol: A complex but fascinating balance of hydrogen-bonding interactions Jorge F. B. Pereira	467	Activity and Selectivity of Mono and Bimetallic Pt-Based Nano-catalysts for Oxidation of Sugars and Polyols to Disaccharic Acids Raghunath Chaudhari	91	Catalytic hydroconversion of a wheat straw lignin: comprehensive analysis and reaction scheme Dorothee Laurenti
403	Characterization of aqueous biphasic systems composed of deep eutectic solvents Helena Passos	350	High Temperature hydrogen reduction of Titania-Supported Gold Nanoparticles: A method to improve the catalytic activity for the oxidation of cellobiose to organic acids. Prince Amaniampong	295	Convergent Reductive Depolymerization Of Lignin Into High Value Products Elias Feghali, CEA Saclay
456	Dissolution of Polysaccharides with Deep Eutectic Solvents Bernardo Dias Ribeiro	526	Metal Catalyzed Liquid Phase Oxidation of Glucose to Gluconic Acid Alessia Padovani	416	Lignin upgrading to aromatics by a heterogeneous gold catalyst in aqueous media Cédric Cabral Almada
193	Eutectic solvents from glycerol derivatives: synthesis, properties and applications. José Ignacio Garcia	1049	Palladium/Carbon Dioxide Cooperative Catalysis for the Production of Diketone Derivatives from Carbohydrates Maité Audemar	1048	New class of biodegradable ionic liquids for the dissolution of cellulose Florent Boissou
137	Sustainable catalytic processes in low melting mixtures based on cyclodextrin derivatives and N,N'-dimethylurea. Sébastien Tilloy	190	Sulfonated hydrothermal carbon: an efficient catalyst for transformations of glycerol and fatty acids José M. Fraile	314	The selective breaking of C-C and C-O bonds in lignin Changwei Hu

2:00PM - 3:00PM

PL5
(Auditorium)

Chemocatalytic valorization of cellulose – Dream or Reality
Prof Regina Palkovits, Institut für Technische und Makromolekulare Chemie, Aachen / Germany

3:00PM - 4:30PM

L'Oréal
Symposium
(Auditorium)

From renewable RMs and eco-respectful technologies to sustainable innovation
Prof. Robin D. Rogers (Mc Gill, Canada), Prof. Steve Howdle (University of Nottingham, UK), Prof. Marc Lemaire (Université Lyon 1, France), Dr Sébastien Duprat de Paule (Chimex), Dr Julien Hitce (L'Oréal), Dr Xavier Schultze (L'Oréal) and Dr Jinzhu Xu (L'Oréal).
Chairman :M. Kantam (IICT) and M. Dalko-Csiba (L'Oréal)

5:00PM - 6:00PM

PL6
(Auditorium)

Precious Catalysis with Non-Noble Metals
Prof Matthias Beller, Leibniz-Institut für Katalyse, Rostock / Germany

	FC2-8 (Room 3)	FC2-9 (Room 1)	FC2-4 (Room 2)		
574	Bioethanol from glucose: raw material for hydrogen production by steam reforming Nestor Sanchez	486	Activated Lipidic Cyclic Carbonates for Poly(hydroxyurethane)s synthesis. Océane Lamarzelle	396	Carbon dioxide Conversion Into Alternated Polycarbonates Catalyzed by a New Class of Catalyst: N-Heterocyclic Carbene Titanium(IV) Complexes. Coralie Quadri
559	Clean Hydrogen Production by Sorption Enhancement: Solid Adsorbents and Catalysts Diana Iruretagoyena Ferrer	663	Bioinspired sol-gel coating for biodegradable bioplastics Marie-Joëlle Menu	263	Fast carbon dioxide recycling by reaction with gamma-Mg(BH ₄) ₂ Jenny G. Vitillo
109	Six-flow reactor technology applied to catalyst screening for the autothermal reforming of model biogas Mathilde Luneau	360	Direct synthesis of Poly(lactic acid)/ metal-oxide nanocomposites by insitu polymerization using microwave synthesized nanoparticles as catalysts and their applications Harjinder Kaur	234	New efficient organocatalyst for the synthesis of bio-based cyclic carbonates from CO ₂ and vegetable oil Thierry Tassaing
1053	Small organic molecules oxidation for hydrogen production with high energy efficiency Stève Baranton	493	Functional and bioinspired materials from TEMPO-oxidized cellulose nanofibres Lucio Melone	672	Reaction between carbonates and amines, study of the reactivity and catalysis optimization Marine Blain
194	Towards hydrogen production at room temperature from bio-ethanol on nickel based nano-oxyhydrides Louise Jalowiecki-Duhamel	535	How does the processing affect the PHBV ageing ? Raphaël Crétois	772	Reduction of CO ₂ to liquid fuels using non-noble metal doped carbon catalysts in novel electrochemical devices Bhanu Chandra Marepally

SCIENTIFIC PROGRAM - MAY 6

8:30AM - 9:30AM

PL7
(Auditorium)

Catalysis from bioinspired chemistry to artificial photosynthesis
Prof Marc Fontecave, Collège de France / France

9:30AM - 10:30PM

OC3-1A (Auditorium)

OC3-1B (Room 5)

OC3-3 (Room 4)

596 Enzymatic Aqueous Extraction as a powerful green alternative to produce active vegetable ingredients from wastes
Lionel Muniglia

197 The Remarkable Role of Organosolv Lignins in Enhancing Enzymatic Hydrolysis of Lignocellulosic Biomass
Maobing Tu

749 Thermochemical fractionation/liquefaction of lignocellulosic biomass (LCB) in supercritical ethanol: Influence of the experimental parameters
Nadine Essayem

397 Lactic acid production from glycerol-derived dihydroxyacetone: catalyst design and process modeling
Pierre Dapsens

743 One-pot Glycerol Oxidehydration to Acrylic Acid on Hexagonal-Tungsten-Bronze-Derived Structures as Multifunctional Catalysts
Claudia Bandinelli

712 One-step Conversion of Glycerol to Acrylic Acid on Bifunctional Catalysts
Armando Borgna

480 Greener Catalytic Concepts For Emerging Feedstocks
Bala Subramaniam

192 Lipase-catalyzed Baeyer-Villiger Oxidation of Levoglucosenone into (S)-gamma-hydroxymethyl-alpha,beta-butenolide: Optimization by Response Surface Methodology
Andreia Teixeira

94 Soluble Stable Dinitrogen Trioxide Solutions as New Nitration Reagents
Kristopher Rosadiuk

11:00AM - 11:30AM

KN2-5 (Room 3)

KN2-1A (Auditorium)

KN2-1B (Room 5)

Process innovation focused on sustainable chemistry
Dr Guy-Noël Sauvion,
Fellow scientist - Solvay / France

The role of basic catalysts in renewables transformation. Fundamentals and applications.
Prof Fabrizio Cavani,
Dipartimento di Chimica Industriale - Università di Bologna / Italy

725 Development of catalysts for the conversion of biomass derived compounds into fuel additive and chemicals
Dr Mannepalli Lakshmi Kantam, Indian Institute of Chemical Technology

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	OC3-6 (Room 3)	OC3-9A (Room 1)	OC3-9B (Room 2)	
653	Bio-based materials and sustainability assessment Jim Philp	671	New functional materials from wood: grafting polymerization in the wood structure Etienne Cabane	
502	LCA and EATOS comparative analysis of the synthesis and the direct extraction of curcumin Roberto Rosa	161	New platform of biobased aromatic building blocks for polymers Maxence Fache	
151	Life Cycle Assessment of emulsion-templated carbon foams: comparison between bio-based and petrochemical systems Amandine Foulet	984	Synthesis and characterization of polymers from biobased monomers Saber Chatti	
			562	Crossing the biomass feed-stocks for novel bio-sourced polymers Henri Cramail
			541	Ionic liquids as processing aids for polysaccharide based materials Eric Leroy
			604	Towards more sustainable polycondensation reactions Bruno Andrioletti

	KN2-9 (Room 1)	KN2-4 (Room 2)	KN2-2 (Room 4)
	Symbiosis of Chemistry and Biology : BASF's Biodegradable and Renewable Polymer Prof. Dr. Andreas Kuenkel, Vice President Research Biopolymers - BASF / Germany	Biotech and Advanced Technologies; the Same Business & Technology Roadmap Dr. Serge Rebouillat, Central Research & Development Department - Dupont / USA	From sugar cane bagasse and corn cobs to renewable solvents derived from furfural Norbert Patouillard, Director Sales Europe & South America - Pennakem Europa SAS

FC3-5 (Room 3)		FC3-1A (Auditorium)	FC3-1B (Room 5)		
202	An environmentally benign access to C(pyrenyl)-N bond formation Guillaume de Robillard	165	Development of bioactive materials from lignocellulosic fibers Jean Kerim Nzambe Ta Keki	650	An efficient Ni/SiO ₂ catalyst for the production of -valerolactone by hydrogenation of biomass-derived levulinic acid without external hydrogen at atmospheric pressure Mohan Varkolu
629	Elaboration of bio-based encapsulating materials by twin-screw extrusion Natalia Castro	376	Functional metagenomics boosts enzyme discovery for complex polymer breakdown Lisa Ufarté	100	Catalytic Conversion of Ethanol to 1,3-Butadiene over wet-kneaded silica-magnesia Catalysts Sang-Ho Chung
735	Intensification of liquid-liquid extraction using capillary slug flow reactor: application to fructose dehydration to improve HMF yield Pascal Fongarland	844	Pretreatment of wheat straw for the biorefining process using both hydrophilic and hydrophobic, acidic ionic liquids. Eugene Carmichael	167	Chemo-enzymatic synthesis of key intermediate (S)-Gamma-hydroxymethyl-Alpha,Beta-butenolide via lipase-mediated Baeyer-Villiger oxidation of levoglucosenone Amandine Flourat
257	Microwave Assisted Green Protocol for the Stereoselective Synthesis of Highly Functionalized Spiro and Cage Systems in Ionic Liquid Suresh Kumar Raju	399	Structurally colored thin films composed of biopolymer as novel method for lignocellulosic hydrolytic enzymatic screening Bernard Cathala	301	Direct catalytic dehydration of 1,3-butanediol for 1,3-butadiene over ZSM-5 materials Sébastien PAUL
205	Toward green atom economy: the convenient marriage between multi-component reactions and flow photochemistry Andrea Basso	805	Transketolase and transaminase catalyzed upgrading of carbohydrates from sugar beet pulp Fabiana Subrizi	817	Gas phase concomitant dehydrations of ethanol and 1-butanol to alkenes mixture useful in a successive metathesis reaction to produce propylene Jean-Marc M. Millet

2:00PM - 3:00PM

PL8
(Auditorium)Properties of Green Solvents and Applications in Green Chemistry
Prof Buxing Han, Chinese Academy of Sciences, Beijing / China

	FC3-9 (Room 1)	FC3-4 (Room 2)	FC3-2 (Room 4)	
544	Bio-sourced microporous organogel materials as pesticide sensor. Jean-Christophe Garrigues	823	Optimised 2 steps enzymatic hydrolysis of sulphuric acid soaked newspaper Léo-Paul Vaurs	
411	Ionosilicas : new efficient heterogeneous Organocatalysts Ut Dong Thach	691	Physicochemical characterisations of Dendrigrift poly-L-lysine (DGL) / Copper(II) complexes, a potential tool for metal ion recovery and catalysis Jean Christophe Rossi	
440	Regioselective synthesis of renewable bisphenols from 2,3-pentanedione Steven-Friso Koelewijn	916	Rare-earth recycling using a functionalized ionic liquid for the selective dissolution and revalorization of Y ₂ O ₃ :Eu ³⁺ from lamp phosphor waste David Dupont	
846	Synthesis and characterization of carboxymethyl chitosan as eco-friendly adsorbent of heavy metal for water treatment Fernanda Guerra Lima Medeiros Borsagli	675	Separation and catalysis with anion exchange resins for the production of chemicals from organic waste Carlos Cabrera-Rodríguez	
642	"Metabolic engineering of Bacillus subtilis for the production of 3-Hydroxypropionic acid" Aida Kalantari	825	Understanding the limitation of newspaper as a feedstock for sugar production via enzymatic hydrolysis Léo-Paul Vaurs	
			800	Blending ionic liquids: anomalous diffusion of TFSI and FSI anions in the pure pyrrolidinium based ILs and their blends Andrea Mele
			425	Dissolution of Cellulose in Ionic Liquids Media Jean-Michel Andanson
			763	Efficient ionic liquid mediated technology for the synthesis of cellulose acetate Olatunde Jogunola
			458	Separation of Extracellular Polysaccharides using Ionic-Liquid-Based Aqueous Biphasic Systems Mara G. Freire
			652	Sponge-Like Ionic Liquids as a new platform for green biocatalytic processes Pedro Lozano

3:00PM - 4:00PM

OC4-1A (Auditorium)		OC4-1B (Room 5)		OC4-2 (Room 4)	
153	Selective one-pot conversion of cellulose into n-hexane over Ir-ReOx/SiO2 catalyst and HZSM-5 Sibao Liu	729	2-Methyltetrahydrofuran production from levulinic acid using non-noble metal catalysts and green solvents Iker Obregón	775	How do Deep Eutectic Solvents modify Lignocellulosic Biomass? Adriaan van den Bruinhorst
649	Simple, High-Yield Synthesis of Cellulosic Gasoline From Biomass-Derived Levulinic Acid Inaki Gandarias	501	Hydrogen transfer - a more sustainable perspective in biomass valorization Agnieszka Ruppert	564	Liquid-phase reforming of lignin: Catalyst development and in-situ monitoring of the conversion process by ATR-IR Pieter Bruijnincx
188	Synthesis of renewable diesel and jet fuel range alkanes with furfural and its derivatives Ning Li	270	Selective oxidation of furfural to maleic acid with aqueous H2O2 by using catalysts based on Ti silicates Manuel Lopez Granados	871	Sustainable chemical processes based on neoteric solvents and ILs-based materials. Eduardo Garcia-Verdugo

4:30PM - 5:30PM

FC4-1A (Auditorium)		FC4-1B (Room 5)		FC4-1C (Room 4)	
423	Fractionation and depolymerization of lignocellulosic biomass via organic solvents and heterogeneous catalysis Konstantinos Kalogiannis	884	Bifunctional nanoparticle-SILP catalysts (NP@SILP) for the selective deoxygenation of biomass substrates Kylie Luska	813	A Green and Highly Efficient Sulfur Functionalization of Chitosan for «in-field» Sensor Application Kalpana Chauhan
705	Fractionation of micro-algae and catalytic hydrodeoxygenation of green diesel Imane Hachemi	545	Development of bimetallic Pd nanoparticle based catalysts for aerobic oxidation of renewables Norbert Steinfeldt	511	High Performance Thin Layer Chromatography as Versatile Method for the Analysis of Biorefinery Streams Stefan Böhmendorfer
758	Instant catapult steam explosion: a new strategy before chemical pretreatment of lignocellulose Chen-Guang Liu	751	Heterogeneous catalytic valorization of aconitic acid produced from sugar cane W Hneine	111	L-Rhamnose-based Bolaform Surfactants with Original Properties Firmin Obounou Akong
853	Recycling and high value production of novel bio-hybrid polymers from cellulose and chitin Auriane Freyburger	776	On the development of continuous process for aldol condensation of furfural and acetone Oleg Kikhtyanin	217	Native hemicelluloses from fleshy fruit: a source of diverse structures Marc Lahaye
798	UK-based Biorefinery: from Sugar Beet Pulp to High Value Chemicals Max Cardenas-Fernandez	525	Polymer-based catalysts for the production of 2,5-furandicarboxylic acid from sugars Valentina Nese	664	Stability of various components of e-cigarettes tested by thermal analysis (TDA/TGA) Philippe Ayrault

5:30PM - 7:00PM

POSTER SESSION
(Poster area)

	OC4-4 (Room 2)	OC4-5 (Room 3)	OC4-9 (Room 1)		
447	<p>Biobased monomers from waste water, using polyhydroxybutyrate as intermediate. Elinor Scott</p>	668	<p>Greener oxidation reactions under non conventional conditions Micheline Draye</p>	485	<p>Glycolipids as a platform for the synthesis of biodegradable polymers Geoffrey Hibert</p>
338	<p>Hydrothermal carbonization (HTC) for valorization of food waste Michael Renz</p>	126	<p>Iron-containing N-doped composite carbon materials for the cogeneration of electricity and hydroxylamine in a NO-H₂ fuel cell. Nick Daems</p>	910	<p>ScCO₂-assisted melt polymerization: towards the precision synthesis of homo- and block copolymers by organocatalytic ring opening polymerization Bruno Grignard</p>
654	<p>Waste office paper comes to a sticky end - Microwave-assisted low-temperature pyrolysis of waste office paper and the application of bio-oil as an aluminium adhesive Zhanrong Zhang</p>	116	<p>Studies of products formation from electrochemical conversion of glycerol Ching Shya Lee</p>	460	<p>Toward Functional Polyester Building Blocks from Renewable Glycolaldehyde with Sn Cascade Catalysis Rik De Clercq</p>

	FC4-3 (Room 1)	FC4-7 (Room 2)	INDUSTRIAL SESSION (Room 6)	
407	<p>Enzymatic process for chiral polyols synthesis catalyzed by a thermostable transketolase Laurence Hecquet</p>	147	<p>Eco-friendly formulation of an aqueous thermoplastic sizing dispersion: optimisation by Quantitative Structure – Property Relationship Aurélie Malho Rodrigues</p>	<p>How Green Chemistry is integrated in a strategy of sustainable development ?</p>
723	<p>Hydroformylation - starting point for Highly Efficient Tandem Reactions Andreas Vorholt</p>	737	<p>Evolutionary de novo design of absorbents for CO₂ capture Vishwesh Venkatraman</p>	
191	<p>Improved Kinetic Resolution of Pentan-2-ol and Homochiral (Z)-Cyclooct-5-ene-1,2-diol using Lipases, by substrate engineering, imprinting effect, sol-gel entrapment, and microwave-heating. Lisianne Domon</p>	684	<p>The Selectivity Issue in Isopropanol Dehydration over Gamma-Alumina: A Combined Experimental and Multi-Scale Modelling Study Kim Larmier</p>	
212	<p>Lipase-catalyzed synthesis of novel nutraceuticals and bio-ingredients phenolic lipids in solvent-free medium Selim Kermasha</p>	969	<p>Theoretical Studies on the Mechanism for the Preparation of Prephenate from Chorismate Catalyzed by Isochorismate-Pyruvate Lyase XIE Liangxu</p>	
189	<p>Sodium hypophosphite: an alternative in reduction Estelle Metay</p>	967	<p>Theoretical Study on the Mechanism of Aqueous Synthesis of Formic Acid Catalyzed by Ru(III)-EDTA Complex Chen Zhe-Ning</p>	

SCIENTIFIC PROGRAM - MAY 7

8:30AM - 9:30AM

PL9
(Auditorium)

Are Alternative Solvent Systems such as Ionic Liquids Green or not Based on Toxicity, Chemical or Energy Use, or Utilization? (Hint: It Depends)
Prof Robin D. Rogers, McGill University/ Canada

9:30AM - 10:30PM

OC5-1A (Auditorium)

OC5-1B (Room 5)

OC5-2 (Room 4)

707 In-situ conversion of reactive intermediates in acid-catalyzed cleavage of lignin and model compounds: Towards simple aromatics
Johannes G. de Vries

452 Chemicals from Biomass: Direct Catalytic Synthesis of Furfuryl and Tetrahydro-furfuryl Ethers from Furfural
Marcelo E. Domine

227 Bio-based solvents: the first choice
Bas Verkuil

868 Oxidized lignin - A concrete superplasticizer
Anna Kalliola

121 Continuous-Flow Biocatalyzed Waste Valorization
Rodrigo de Souza

421 Radical Decarboxylation in Micellar Media for the Formulation of New Surfactants
Christophe Len

977 Ruthenium-Catalyzed C-C Bond Cleavage in Lignin Model Substrates
Tim den Hartog

266 Separation of biogenic platform chemicals by liquid phase adsorption
Marcus Rose

231 Tunable catalysts for solvent-free biphasic systems. Pickering Interfacial Catalysts over amphiphilic silica nanoparticles
Jean-Marc Clacens

11:00AM - 11:30AM

KN3-1A (Auditorium)

KN3-1B (Room 5)

KN3-2 (Room 4)

C- glycoside chemistry as source of innovation in cosmetics
Dr Maria Dalko, Director of Chemistry Department, L'Oréal Research & Innovation / France

Lecture of the ISGC green chemistry award

Valorization of biore-sources at IFP Energies nouvelles : focus on new catalytic systems converting cellulose into glycols
Dr Damien Delcroix, Research Engineer - Molecular Catalysis Department - IFPEN / France

PL: plenary lectures; KN: Keynotes; OC: Oral communications; FC: Flash communications; PC: Poster session

Nomenclature:

OC x-y / FC x-y / KN x-y

x = session number & y = topic number / See topic list p. 23

	OC5-5 (Room 2)	OC5-8 (Room 3)	OC5-9 (Room 1)
490	New Concept of Combined Production of Green Chemicals at Large Scale - Application to the Pulp and Paper Industry Alexis Métails	550	Bioplatforms for production of renewable biofuels Matti Karp
495	New metal nanoparticle photocatalysts: not only surface plasmon Sarina Sarina	89	Hydrogen Production by Dehydrogenation of Formic Acid using Iridium Complexes with N-N Bidentate Ligands Yuichiro Himeda
479	Visible Light Photocatalytic Process for Cross-Coupling Reactions at Green Mild Conditions Qi Xiao	326	The chemical-loop Bio-alcohol reforming for hydrogen production Olena Vozniuk
			900
			Biomass-derived Porous Carbonaceous Materials: Synthesis and Catalytic Applications Alina Mariana Balu
			747
			Biopolymer-supported ionic liquid phase catalytic materials Isabelle Dez
			576
			Spinning of composite fibers from renewable resources: towards new low cost carbon fibers Celia Mercader

	KN3-3 (Room 1)	KN3-6 (Room 3)	KN3-4 (Room 2)
	Catalytic materials for disassembling renewable lignocellulosic resources Dr Francesco Di Renzo, Advanced Materials for Catalysis and Health - Institut Charles Gerhardt / France	Life Cycle Analysis needs reliable data first of all from the Chemical Industry Dr. Jean-Michel Rossignol, Head of group Environment / Sustainable Development - Legrand / France	CO ₂ – Involved Green Synthesis Dr. Zhimin Liu, Beijing National Laboratory for Molecular Sciences, Chinese Academy of Sciences, China

FC5-1A (Auditorium)		FC5-2 (Room 4)	FC5-3 (Room 1)		
565	Eco-compatible synthesis of carbohydrate-derived ether surfactants Nicolas Duguet	659	Catalytic reforming of volatiles from cellulose pyrolysis using supported ionic liquid phase catalyst for productions of levoglucosone and its derivative Shinji Kudo	199	Catalytic strategies for eco-friendly synthesis: Combining Heterogeneous and homogeneous catalysis Prof. Armando Cordova
498	Efficient Conversion of Cellulose and Sugars to Furfurals using Calcium Phosphate Catalysts in Water Solvent Naoki Mimura	315	Ionic liquid stabilized ruthenium nanoparticle catalysts for the selective hydrogenation of alpha,beta-unsaturated aldehydes or ketones Yanhua Wang	279	Cu- and fe-catalyzed direct benzamide synthesis from alcohols and amines Xavier Bantreil
348	One-pot synthesis of 2,5-diformylfuran from biomass Quentin Girka	982	Nature-based ionic liquids as alternative plasticizers for poly(vinyl chloride) Ricardo Santos	678	Gold(II) Catalysed Asymmetric Hydroamination Of Alkenes In Mild and Wet Conditions. Francine Agbossou-Niedercom
842	Porous aluminosilicates as acid catalysts for glucose dehydration to 5-hydroxymethylfurfural Pedro Maireles-Torres	992	Surface active ionic liquids in micellar catalysis Alice Cognigni	431	Selective Pd/mesoporous carbon nanocatalysts for production of transportation fuels from waste fatty acids Vasile Parvulescu
728	Stannosilicates for Catalytic Conversion of Sugar: Alkali Ions Boost the Yield Søren Tolborg	824	Using ionic liquids for the recovery of metallic species Clotilde Gaillard	507	Towards a sustainable process for the aerobic peroxidation of alkylaromatics catalyzed by n-hydroxyphthalimides: reduced use of solvents, recovery of the catalyst, sunlight photoactivation Manuel Petroselli

	FC5-6 (Room 3)	FC5-4 (Room 2)
722	<p>Comprehensive Kinetic Analysis on Ion Liquids by Isothermal and Non-isothermal Calorimetric Technique Followed by a Green Approach to Validate Runaway Reaction Models Wei-Chun Chen</p>	<p>745 A green process to produce a bio-sourced nickel salt Baptiste Laubie</p>
106	<p>Green motion by Mane: Industrial application of a new sustainable assessment tool Tony Phan</p>	<p>265 Biosorption of metallic dyes by using Tunisian biomass « Phragmites Australis» Mongi Seffen</p>
626	<p>How "green" are hydroxymethylfurfural (HMF) and its derivatives? Paulo Morais</p>	<p>597 Characterization of metal resistant endophytic bacteria and their potential in facilitating phytoremediation by hyperaccumulator Sedum plumbizincicola Ying Ma</p>
127	<p>Multivariate statistics as assessment tool in green analytical chemistry Marek Tobiszewski</p>	<p>759 Recycling of nitrogen-rich waste streams to bio-based chemicals: decarboxylation of (pyro)glutamic acid to 2-pyrrolidone by solid transition metal catalysts Free De Schouwer</p>
228	<p>Testing correlations between genetic diversity and chemical pollution exposure in a bioaccumulating marine bivalve Amélia Viricel</p>	<p>288 Spatiotemporal variation in bacterial and methanogenic communities of ten full-scale anaerobic digesters treating swine wastewater Woong Kim</p>

3:00PM - 4:00PM

OC6-1A (Auditorium)		OC6-1B (Room 5)		OC6-3 (Room 1)	
229	Heterogeneous selective terminal C-C scission of C5-carbohydrates Harry Bitter	742	Algal biopolymers: a potential for biobased chemistry Maud Benoit	211	C-C bond formation strategy through eco-catalysis: insights from structural studies and synthetic potential Claire Garel
375	Hydrogenolysis of cellulose over supported ruthenium catalysts as an effective green process for production of valuable polyols Katarina Fabicovicova	328	Green synthesis of bioactive sulfated polysaccharides and triterpens from wood biomass Boris Kuznetsov	627	Development and Advances on Non-Isocyanate PolyUrethanes Vincent Besse
819	Non-acidic and metal-free polymers as catalyst for the conversion of fructose into HMF Marc-Philipp Ruby	200	Reductive Modification of Lignin Using Silicone Polymers Michael Brook	285	Menthol via heterogeneous catalysis: Highly selective menthol synthesis by one-pot transformation of citronellal Jutta Plößer

4:00PM - 4:30PM

CONCLUDING REMARKS

Poster award given by Green Chemistry journal

	OC6-5 (Room 2)	OC6-6 (Room 4)	OC6-8 (Room 3)
69	Green Chemistry for Bio-based and Sustainable Cosmetics Antoine Piccirilli	84	Connecting Green Chemistry, Ethics, and the Philosophy of Chemistry Jean-Pierre Llored
1050	In a Green Context: Potential Applications of Value-Added Products from Milk and Sustainable Valorization of By-products from the Dairy Industry? Salvadora Ortega-Requena	125	Do we need Green Analytical Chemistry Mihkel Koel
1047	In search for an heterogeneous aerobic catalytic epoxidation system based on in situ enzymatic production of H ₂ O ₂ Franck Launay	669	Glycerol as feedstock in the synthesis of chemicals: a life cycle analysis for acrolein production Daniele Cespi
			1005
			Electrochemical conversion of polyols for the cogeneration of hydrogen and value added chemicals C. Coutanceau
			583
			How to use QSPR type approaches to predict the properties of green chemicals Guillaume FAYET
			119
			Hydrogen production with a redox flow battery. Water splitting with junk electricity Pekka Peljo