



3rd International Congress on Catalysis for Biorefineries

Promoted and Supported:



SEPTEMBER 28 TO 30, 2015

HOTEL WINDSOR ATLÂNTICA | RIO DE JANEIRO - RJ | BRAZIL

A CATALYZING
EVENT FOR
INNOVATIVE
IDEAS



FINAL PROGRAM

Gold Sponsorship

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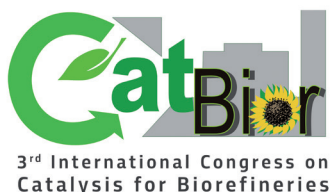


**3rd International Congress on
Catalysis for Biorefineries**

Promoted and Supported:



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Promoted and Supported:



Committees

Executive Committee

Members:

- > **Adriano do Couto Fraga** – Petrobras
- > **Ana Guedes** – IBP
- > **Antonio Morschbaker** – Braskem
- > **Carlos Rene Klotz Rabello** – Petrobras
- > **Celmy Barbosa** – UFPE
- > **Claudio J. A. Mota** – IQ/UFRJ
- > **Dalmo Mantelli** – UFABC
- > **Eduardo Falabella Sousa-Aguiar** – UFRJ
- > **Eledir Vitor Sorinho** – UFRN
- > **Felipe Pereira** – BNDES
- > **Isabela Brito Santos** – Petrobras
- > **Lucia Appel** – INT
- > **Manoel Teixeira de Souza Jr.** – Embrapa Agroenergia
- > **Paulo Coutinho** – Braskem
- > **Paulo Suarez** – UnB
- > **Pedro Arroyo** – UEM
- > **Robson Monteiro** – Catalysis Consultoria
- > **Rochel Lago** – UFMG

Organizing Committee

Members:

- > **Ana Guedes** – Consultora
- > **Carlos Rene Klotz Rabello** – Petrobras
- > **Claudio J. A. Mota** – IQ/UFRJ
- > **Eduardo Falabella Sousa-Aguiar** – UFRJ
- > **Ernani Filgueiras** – IBP
- > **João Monnert** – EQ/UFRJ
- > **Lucia Appel** – INT
- > **Pedro Romano** – EQ/UFRJ
- > **Yuri Carvalho** – EQ/UFRJ

Scientific Committee

Members:

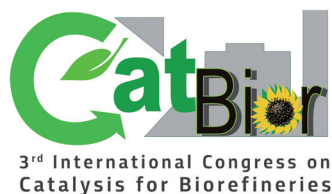
- > **Atsushi Fukuoka** – Hokkaido University (Japan)
- > **Avelino Corma** – Universidad Politécnica de Valencia (Spain)
- > **Bert F. Sels** – Katholieke Universiteit Leuven (Belgium)
- > **Bert M. Weckhuysen** – Utrecht University (Netherlands)
- > **Boqing Xu** – Tsinghua University (China)
- > **Claudio J. A. Mota** – IQ/UFRJ (Brazil)
- > **Donato Alexandre Gomes Aranda** – UFRJ (Brazil)
- > **Dr. Francois Jérôme** – University of Poitiers (France)
- > **Eduardo Falabella Sousa-Aguiar** – UFRJ (Brazil)
- > **Eric Gaigneaux** – Université Catholique de Louvain (Belgium)
- > **Ferdi Schüth** – Max-Planck-Institut für Kohlenforschung (Germany)
- > **Gabriele Centi** – University of Messina (Italy)
- > **Jairton Dupont** – Universidade Federal do Rio Grande do Sul (Brazil)
- > **Johannes A. Lercher** – TU München (Germany); PNNL (USA)
- > **Juan Antonio Melero** – Universidad Rey Juan Carlos de Madrid (Spain)
- > **Karen Wilson** – Aston University (UK)
- > **Keiichi Tomishige** – Tohoku University (Japan)
- > **Lucia Gorenstin Appel** – INT (Brazil)
- > **M. López Granados** – Institute of Catalysis and Petrochemistry-CSIC (Spain)
- > **Marcel Schlaf** – University of Guelph (Canada)
- > **Michikazu Hara** – Tokyo Institute of Technology (Japan)
- > **Mireya Goldwasser** – Central University of Venezuela (Venezuela)
- > **Rafael Mariscal López** – Institute of Catalysis and Petrochemistry-CSIC (Spain)
- > **S. Ted Oyama** – The University of Tokyo (Japan); Virginia Polytechnic Institute (USA)
- > **Silvio Vaz** – Embrapa Agroenergia (Brazil)
- > **Susannah Scott** – University of California-Santa Barbara (USA)
- > **Tao Zhang** – Dalian Institute of Chemical Physics, CAS (China)
- > **ULF Schuchardt** – UNICAMP (Brazil)
- > **Victor Teixeira da Silva** – NUCAT/PEQ/COPPE/UFRJ (Brazil)
- > **Yugen Zhang** – Institute of Bioengineering and Nanotechnology (Singapore)
- > **Z. Conrad Zhang** – Dalian Institute of Chemical Physics, CAS (China); KiOR Inc. (USA)

Technical Program

September, 28th • Monday

7h30/9h	Registration
9h/9h30	OPENING CEREMONY
9h30/10h10	PLENARY LECTURE CATALYSIS CHALLENGES TO MOVE TO NEW MODELS OF BIOREFINERIES FOR A LOW-CARBON ECONOMY AND SOCIETY
Chair:	• E. Falabella Souza-Aguiar - EQ/UFRJ
Speaker:	• Gabriele Centi (Italy) - Professor of Industrial Chemistry - Department of Electronic Engineering, Chemistry and Industrial Engineering - DIECI & CASPE (INSTM Laboratory of Catalysis for Sustainable Production and Energy), University of Messina
10h10/10h40	Break
10h40/11h20	PLENARY LECTURE THERMOCHEMICAL AND CATALYTIC ROUTES FOR THE PRODUCTION OF HYDROCARBONS AND VALUABLE CHEMICALS FROM LIGNOCELLULOSIC BIOMASS
Chair:	• T. Oyama - Virginia Tech N. Essayem - IRCELYON
Speaker:	• Fabio Ribeiro, PhD (Brazil/USA) - Professor of Chemical Engineering - School of Chemical Engineering, Purdue University
11h20/12h	ORAL TECHNICAL SESSION
Chair:	T. Oyama - Virginia Tech N. Essayem - IRCELYON
11h20/11h40	IBP1773_15 SYNTHESIS OF HYBRID MATERIALS USED AS HETEROGENEOUS CATALYSTS FOR BIODIESEL PRODUCTION Ana Lúcia de Lima - Universidade Federal do Rio de Janeiro, Cláudio José de Araújo Mota - Universidade Federal do Rio de Janeiro, Célia Machado Ronconi - Universidade Federal Fluminense, Jose Sebastiao Cidreira Vieira - Universidade Federal do Rio de Janeiro
11h40/12h	IBP1793_15 KINETIC STUDY OF GLYCEROL HYDROGENOLYSIS TO 1,2-PROPYLENE GLICOL IN VAPOR PHASE: IMPACT OF CAPILLARY CONDENSATION Agustin Brondino, Adrian Bonivardi, Miguel Baltanás - INTEC-UNL/CONICET
12h/14h	Lunch Break
14h/14h30	KEYNOTE LECTURE DIVIDE AND CONQUER. REACTION AND SEPARATION STRATEGIES FOR BIOMASS CONVERSION
Chair:	• V. Teixeira - UFRJ/NUCAT A. Fukuoka - Hokkaido University
Speaker:	• Prof. Rochel Monteiro Lago (Brazil) - UFMG

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Promoted and Supported:



September, 28th • Monday

14h30/16h30

ORAL TECHNICAL SESSION

Chair:

• **V. Teixeira** - UFRJ/NUCAT | **W. Ueda** - Kanagawa University

14h30/14h50

IBP1657_15

CONFINEMENT EFFECTS IN LEWIS ACID CATALYZED SUGAR CONVERSION: STEERING TOWARD FUNCTIONAL POLYESTER BUILDING BLOCKS

Rik De Clercq - Katholieke Universiteit Leuven, Michiel Dusselier - Katholieke Universiteit Leuven and California Institute of Technology, Bert Sels - KU Leuven

14h50/15h10

IBP1605_15

ACID-, WATER- AND HIGH-TEMPERATURE-STABLE HOMOGENEOUS CATALYSTS FOR THE HYDRODEOXYGENATION OF BIOMASS DERIVED SUGAR CONDENSATES TO VALUE-ADDED DIOLS, ETHERS AND ALKANES

Ryan Sullivan, Elnaz Latifi, Benjamin Chung, Dmitriy Soldatov, Christopher Oswin, Thomas Minard, Benjamin Scott, Fraser Waldie, Jennifer Howell, Marcel Schlaf - University of Guelph

15h10/15h30

IBP1671_15

DIRECT CONVERSION OF CELLULOSE TO GLYCOLS OVER NICKEL SUPPORTED ON SILICA CATALYSTS: ACID PROMOTERS, ACTIVE PHASE AND STABILITY

Inmaculada Murillo Leo, Manuel López Granados, Jose Luis Garcia Fierro, Rafael Mariscal - ICP-CSIC

15h30/15h50

IBP1687_15

CATALYTIC AEROBIC OXIDATION OF SUGARS TO ALDARIC ACIDS IN HEMICELLULOSE HYDROLYSATES

Elie Derrien, Jialu Li - IRCELYON, Philippe Marion - SOLVAY, Catherine Pinel, Michèle Besson - IRCELYON

15h50/16h10

IBP1636_15

HYDROLYSIS OF WOODY BIOMASS BY BIOMASS-DERIVED ENZYME-MIMICKING CARBON CATALYST

Atsushi Fukuoka, Hirokazu Kobayashi - Hokkaido University

16h10/16h30

IBP1609_15

BIODIESEL FROM MICROALGAE BIOMASS USING HETEROGENEOUS CATALYSTS

Gisel Chenard Díaz - Univ. Federal do Rio de Janeiro, Yordanka Reyes Cruz - Univ. Federal do Rio de Janeiro, Angel Almarales Arceo - CATEDES, Donato Alexandre Gomes Aranda - Univ. Federal do Rio de Janeiro

16h30/17h30

Coffee Break

16h30/17h30

POSTER TECHNICAL SESSION | See page 13

17h30/18h

KEYNOTE LECTURE | NEW STRATEGIES FOR CATALYTIC VALORIZATION OF LIGNIN

Chair:

• **T. Zhang** - Dalian Institute

Speaker:

• **Roberto Rinaldi, PhD (UK)** - Senior Lecturer - Dep. of Chemical Engineering at Imperial College London

18h/18h30

KEYNOTE LECTURE

UNCONVENTIONAL ROUTES TO UPGRADE BIOMASS USING MICROWAVES AND PHOTOCATALYSIS

Chair:

• **T. Zhang** - Dalian Institute

Speaker:

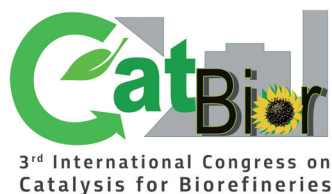
• **José Antonio López-Sánchez, PhD (UK)** - Senior Lecturer and MicroBioRefinery Director - Stephenson Institute for Renewable Energy - Chemistry Department, University of Liverpool

Technical Program

September, 29th • Tuesday

8h30/9h10	PLENARY LECTURE CATALYTIC TRANSFORMATION OF LIGNOCELLULOSE TO CHEMICALS AND FUELS: OPPORTUNITIES AND CHALLENGES
Chair:	• L. Appel - INT M. Schlaf - University of Guelph
Speaker:	• Tao Zhang, PhD (China) - Professor Director - Dalian Institute of Chemical Physics Chinese Academy of Sciences
9h10/10h10	ORAL TECHNICAL SESSION
Chair:	• L. Appel - INT M. Schlaf - University of Guelph
9h10/9h30	IBP1676_15 CATALYTIC CONVERSION OF FURFURAL TO FURFURYL ALCOHOL IN THE PRESENCE OF A CO/SBA-15 CATALYST De Oliveira Vigier, Maité Audemar - IC2MP Université de Poitiers-CNRS, Carmen Ciotonea - Faculty of Chemical Engineering and Environmental Protection Gheorghe Asachi, Adrian Ungureanu - Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Sébastien Royer, François Jérôme - IC2MP Université de Poitiers - CNRS
9h30/9h50	IBP1675_15 BATCH-WISE AND CONTINUOUS CONVERSION OF BIO-DERIVED PLATFORM CHEMICALS: AQUEOUS PHASE HYDROGENOLYSIS OF FURFURYL ALCOHOL TO 1,2-PENTANEDIOL Dominik Götz, Martin Lucas, Peter Claus - Technical University Darmstadt
9h50/10h10	IBP1660_15 DEHYDRATION OF XYLOSE TO FURFURAL IN ALCOHOL MEDIA: INFLUENCE OF THE SOLVENT & CATALYST SCREENING Jose Iglesias, Blanca Hernández, Marta Paniagua, Juan Antonio Melero, Gabriel Morales, Sergio Arribas Laina - Universidad Rey Juan Carlos
10h10/10h40	Break
10h40/12h	ORAL TECHNICAL SESSION
Chair:	• R. Monteiro - Catalysis Consultoria R. Mariscal - ICP-CSIC
10h40/11h	IBP1631_15 HYDROGENATION OF FURFURAL ON PLATINUM BASED CATALYSTS: IMPACT OF SYNTHESIS TECHNIQUE AND ADDITIONAL METAL SELECTION ON FURFURYL ALCOHOL PRODUCTION Áine O'Driscoll, JJ Leahy, Teresa Curtin - University of Limerick
11h/11h20	IBP1758_15 ALTERNATIVE EFFICIENT FORMATION OF 2,5-FURANDICARBOXYLIC ACID (FDCA) FROM C5 SUGARS SOURCE Hicham Ait Rass, Michèle Besson, Nadine Essayem - IRCELYON
11h20/11h40	IBP1689_15 NATURE OF REACTIVE SITES IN THE ETHERIFICATION OF HMF TO BIODIESEL ADDITIVES Siglinda Perathoner, Katia Barbera, Paola Lanzafame, Gabriele Centi - University of Messina

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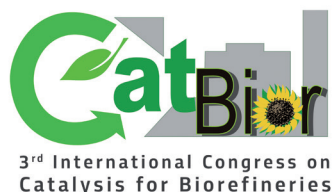
September, 29th • Tuesday

11h40/12h	IBP1780_15 ONE POT CONVERSION OF CELLOBIOSE INTO SORBITOL OVER BIFUNCTIONAL CATALYSTS Joao Monnerat Araujo Ribeiro de Almeida, Pedro Nothhaft Romano, Yuri Carvalho - TPQB/UFRJ, Piera Demma Carà, Jose Olivares Peña, Louise Smith - SIRE/UOL, Eduardo Falabella Sousa-Aguar - Petrobras and Federal University of Rio de Janeiro, Jose Antonio Lopez Sanchez - SIRE/UOL
12h/12h30	KEYNOTE LECTURE BIOMASS CONVERSION WITH STRUCTURAL SOLID CATALYSTS BASED ON ABUNDANT MATERIALS
Chair:	• R. Monteiro - Catalysis Consultoria R. Mariscal - ICP-CSIC
Speaker:	• Wataru Ueda, PhD (Japan) - Professor - Faculty of Engineering, Kanagawa University
12h30/14h	Lunch Break
14h/16h	ORAL TECHNICAL SESSION
Chair:	• R. Lago - UFMG M. Lopez Granado - CSIC
14h/14h20	IBP1655_15 ETHANOL TO CHEMICALS: A FINAL UNDERSTANDING OF THE MECHANISM FOR LEBEDEV AND GUERBET REACTIONS Juliana Velasquez Ochoa, Alessandro Chieragato, Claudia Bandinelli, Giuseppe Fornasari, Fabrizio Cavani - Università di Bologna, Massimo Mella - Università degli Studi dell'Insubria
14h20/14h40	IBP1667_15 EFFECT OF THE COPPER ELECTRONIC PROPERTIES IN THE ETHANOL OXIDATION IN INERT ATMOSPHERE Isabel Cristina de Freitas, Jean Marcel Ribeiro Gallo, Jose Maria Correa Bueno, Clelia Mara de Paula Marques - Federal University of São Carlos
14h40/15h	IBP1623_15 CONVERSION OF BIOMASS INTO HIGH OCTANE NUMBER GASOLINE WITH AN IONIC LIQUID AS THE CATALYST Jiayu Xin, Suojiang Zhang, Chunyan Shi - Institute of Process Engineering, Chinese Academy of Sciences
15h/15h20	IBP1607_15 DIRECT CATALYTIC DEHYDRATION OF 1,3-BUTANEDIOL FOR 1,3-BUTADIENE OVER ZSM-5 MATERIALS Fangli Jing - Université Lille Nord de France, Benjamin Katryniok, Marcia Araque - Université Lille Nord de France and Ecole Centrale de Lille, Franck Dumeignil - Université Lille Nord de France and Institut Universitaire de France, Sébastien Paul - Université Lille Nord de France and Ecole Centrale de Lille, Marc Pera-Titus, Jean-Marc Clacens, Floryan De Campo - E2P2L

Technical Program

September, 29th • Tuesday

15h20/15h40	IBP1672_15 HIGH-RESOLUTION SOLUTION-STATE NMR OF WOOD BIOPOLYMERS IN IONIC LIQUID ELECTROLYTES, FOR UNDERSTANDING CATALYTIC PROCESSES Ashley Holding, Valtteri Mäkelä, Jussi Helminen, Evangelos Sklavounos - University of Helsinki, Stephanie Kedzior, Emily Cranston - McMaster University, Ilkka Kilpeläinen, Alistair King - University of Helsinki
15h40/16h	IBP1647_15 CATALYTIC HYDROCONVERSION OF LIGNIN IN AROMATICS Vallon Emmanuel, Nguyen Thanson, Laurenti Dorothée, Fongarland Pascal, Tayakout-Fayolle Melaz, Geantet Christophe - CNRS IRCELYON
16h/17h	Coffee Break
16h/17h	POSTER TECHNICAL SESSION See page 15
17h/17h30	KEYNOTE LECTURE USE OF TRANSITION METAL CARBIDES IN RESIDUAL BIOMASS TRANSFORMATION
Chair:	• B. Sels - Centre for Surface Chemistry and Catalysis J. Barrault - Poitiers University
Speaker:	• Victor Teixeira da Silva (Brazil) - Professor - Chemical Engineering Program - Universidade Federal do Rio de Janeiro, NUCAT
17h30/17h50	ORAL TECHNICAL SESSION
Chair:	B. Sels - Centre for Surface Chemistry and Catalysis J. Barrault - Poitiers University
17h30/17h50	IBP1738_15 HYDRODEOXYGENATION OF GUAIACOL OVER Nb₂O₅- AND Al₂O₃-SUPPORTED Pt CATALYSTS Nathacha Kare Gonçalves Silva, Eduardo Henrique Tozatti Piola - Federal University of Uberlândia, Rogério Marques Ribas - Companhia Brasileira de Metalurgia e Mineração, Robson Souza Monteiro - CBMM and Catalysis Consultoria Ltda, Ricardo Reis Soares - Universidade Federal de Uberlândia
17h50/18h30	KEYNOTE LECTURE RENEWABLE CHEMICALS: CATALYSIS AND BIOTECHNOLOGY
Chair:	• B. Sels - Centre for Surface Chemistry and Catalysis J. Barrault - Poitiers University
Speaker:	• Roberto Werneck, M. Sc. (Brazil) - Manager of Renewable Process Development - Renewable Technologies, Braskem S.A.



Promoted and Supported:



September, 30th • Wednesday

8h30/9h10

PLENARY LECTURE

SUSTAINABLE CHEMISTRY FROM RENEWABLE RESOURCES VIA CATALYSIS

Chair:

• **R. Rinaldi** - Imperial College London | **G. Centi** - University of Messina

Speaker:

• **Joel Barrault (France)** - Research Manager CNRS / National Center for Scientific Research - Institute of Chemistry, Materials and Natural Resources - Poitiers University

9h10/10h10

ORAL TECHNICAL SESSION

Chair:

• **R. Rinaldi** - Imperial College London | **G. Centi** - University of Messina

9h10/9h30

IBP1812_15

THE FIRST STEP OF THE PROPYLENE GENERATION FROM RENEWABLE RAW MATERIAL: ACETONE FROM ETHANOL EMPLOYING CEO₂ DOPED BY AG

Adriana Fernandes Felix de Lima Araujo - Instituto Nacional de Tecnologia, Priscila da Costa Zonetti - Instituto Nacional de Tecnologia, Clarissa Perdomo Rodrigues - Instituto Nacional de Tecnologia, Lucia Gorenstin Appel - Instituto Nacional de Tecnologia

9h30/9h50

IBP1788_15

CATALYTIC FAST PYROLYSIS OF SUGARCANE BAGASSE AND PINWOOD IN A PILOT SCALE UNIT

Fabio Leal Mendes, Vitor Loureiro Xinenes, Marlon Brando Bezerra de Almeida - Petrobras, Debora de Almeida Azevedo, Nathalia Tessarolo - Universidade Federal do Rio de Janeiro, Andrea de Rezende Pinho - Petrobras

9h50/10h10

IBP1784_15

DIELS-ALDER CYCLOADDITION OF 2,5-DIMETHYLFURAN AND ETHYLENE OVER HIERARCHICAL ZSM-5 FOR THE PRODUCTION OF RENEWABLE P-XYLENE

Peter Priece, Joel McGlone, Jose Antonio Lopez-Sanchez - University of Liverpool

10h10/10h40

Break

10h40/11h40

ORAL TECHNICAL SESSION

Chair:

• **R. R. Soares** - UFU | **J. A. Lopez-Sanchez** - SIRE/UOL

10h40/11h

IBP1680_15

REGIOSELECTIVE SYNTHESIS OF RENEWABLE BISPHENOLS FROM CELLULOSE-DERIVED 2,3-PENTANEDIONE

Steven Friso Koelewijn, Wouter Schutyser, Bert Sels - KU Leuven

11h/11h20

IBP1621_15

LACTIC ACID FORMATION FROM 1,3-DIHYDROXYACETONE IN WATER OVER PHOSPHATE/TiO₂ WITH WATER-TOLERANT LEWIS ACID SITES

Kiyotaka Nakajima - Hokkaido University and Japan Science and Technology Agency, Michikazu Hara - Tokyo Institute of Technology and Japan Science and Technology Agency

11h20/11h40

IBP1674_15

GOLD CATALYSTS SCREENING IN THE SELECTIVE AEROBIC OXIDATION OF GLUCOSE

Cristina Megías Sayago, Svetlana Ivanova, Miguel Ángel Centeno Gallego, José Antonio Odriozola Gordón - Instituto de Ciencia de Materiales de Sevilla (CSIC-US)

Technical Program

September, 30th • Wednesday

11h40/12h10	KEYNOTE LECTURE CATALYTIC ROUTES TO RENEWABLE MALEIC ANHYDRIDE
Chair:	• R. R. Soares - UFU J. A. Lopez-Sanchez - SIRE/UOL
Speaker:	• Manuel López Granados, PhD (Spain) - Scientific Researcher - Sustainable Energy and Chemistry Group - Catalysis and Petrochemical Institute (CSIC)
12h10/14h	Lunch Break
14h/16h20	ORAL TECHNICAL SESSION
Chair:	• A. Fukuoka - Hokkaido University R. Werneck - Braskem S.A.
14h/14h20	IBP1644_15 POTENTIAL OF SUSTAINABLE HIERARCHICAL ZEOLITES IN THE VALORIZATION OF A-PINENE Nicolas Nuttens, Danny Verboekend, Aron Deneyer, Joost Van Aelst, Bert Sels - KU Leuven
14h20/14h40	IBP1634_15 DMF PRODUCTION THROUGH HYDROGENATION OF REAL AND SYNTHETIC HMF OVER CU/ZRO2 CATALYST Aitziber Iriondo, Jesús Requies, Arrate Mendiguren, Iker Obregón, María Belén Güemez, José Francisco Cambra - University of Basque Country
14h40/15h	IBP1763_15 BASE-METAL-CATALYZED AEROBIC OXIDATION OF LIGNIN MODELS/EXTRACTS AND LIGNIN-DERIVED BIO-OILS Tom Baker, Christian Díaz-Urrutia, Jennifer Daccache - University of Ottawa, Paul Fleurat-Lessard - École Normale Supérieure de Lyon
15h/15h20	IBP1653_15 PROMISING APPLICATIONS OF SN-BETA ZEOLITE IN SUGAR INDUSTRY: PRODUCTION OF BIO-BASED MONOMERS Irantzu Sádaba, Søren Tolborg - Haldor Topsoe A/S and Technical University of Denmark, Esben Taarning - Haldor Topsoe A/S
15h20/15h40	IBP1624_15 AN ALTERNATIVE ROUTE TO SYNTHESIZE ACRYLIC ACID: DEHYDRATION OF LACTIC ACID AND LACTATES OVER ALKALINE EARTH PHOSPHATES Elodie Blanco, Chantal Lorentz, Pierre Delichere, Jean Marc Millet, Stephane Loridant - IRCELYON, CNRS- Université Claude Bernard Lyon 1
15h40/16h	IBP1808_15 THE EFFECT OF COPPER ON THE PROPERTIES OF NICKEL-BASED CATALYSTS IN ETHANOL STEAM REFORMING Leonardo Alves Silva, André Rosa Martins - Univ. Federal da Bahia, Vivian Thyssen, Elisabete Moreira Assaf - Univ. de São Paulo, Adriana Ballarini - INCAPE, Maria do Carmo Rangel - Univ. Federal da Bahia
16h/16h20	IBP1664_15 A GREEN AND HIGHLY EFFICIENT CONVERSION OF CELLULOSE TO SORBITOL Lucília Sousa Ribeiro, José Joaquim de Melo Órfão, Manuel Fernando Ribeiro Pereira - University of Porto

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Technical Program

September, 30th • Wednesday

16h20/17h20	Coffee Break
16h20/17h20	POSTER TECHNICAL SESSION See page 17
17h20/18h	PLENARY LECTURE KINETIC AND SPECTROSCOPIC STUDIES OF CATALYTIC MECHANISMS: HYDRODEOXYGENATION OF BIOMASS FEEDSTOCKS ON TRANSITION METAL PHOSPHIDES
Chair:	• C. Mota - UFRJ F. Ribeiro - Purdue University
Speaker:	• Ted Oyama (Japan) - Professor - Department of Chemical Systems Engineering, University of Tokyo / Director of the Environmental Catalysis and Nanomaterials Laboratory, Department of Chemical Engineering, Virginia Tech
18h/18h40	PLENARY LECTURE A LIGNOCELLULOSIC BIOREFINERY FOR CHEMICALS PRODUCTION
Chair:	• C. Mota - UFRJ F. Ribeiro - Purdue University
Speaker:	• Prof. Dr. ir. Bert F. Sels (Belgium) - Professor - Centre for Surface Chemistry and Catalysis
18h40	CLOSING CEREMONY

September, 28th • Monday

16h30/17h30

IBP1616_15	HYDROGENOLYSIS OF GLYCEROL TO 1,2 PROPANEDIOL, AT ATMOSPHERIC PRESSURE, OVER CU/AL₂O₃ CATALYSTS Maria Laura Dieuzeide - UBA-CONICET, Matias Jobbagy - INQUIMAE, Norma Amadeo - UBA-CONICET
IBP1816_15	CATALYTIC HYDRODEOXYGENATION OF GUAIACOL BY CARBON SUPPORTED MOLYBDENUM DISULPHIDE BASED CATALYST Swathi Mukundan, Jorge Beltrami - The University of Queensland
IBP1695_15	SELECTIVE CONVERSION OF SUGARS TO LEVULINATE OR HMF ETHERS USING NOVEL ACIDIC MESOSTRUCTURED SILICA-CARBON NANOCOMPOSITE CATALYSTS Ruyi Zhong, Bert Sels, De Clippel, Jacobs Jacobs, Peng Peng - KU Leuven
IBP1678_15	USE OF SOLID ACID CATALYSTS IN GLYCEROL CONVERSION INTO PRODUCTS OF COMMERCIAL INTEREST Paula Moraes Veiga - UERJ, Alexandre de Castro Leiras Gomes - UFRJ, Claudia de Oliveira Veloso - UERJ, Cristiane Assumpção Henriques - UERJ
IBP1681_15	HYDROGENATION OF LEVULINIC ACID TO GAMMA-VALEROLATONE CATALYZED BY MOLYBDENUM CARBIDE SUPPORTED ON HOLLOW CARBON NANOSPHERES Jhon Quiroz - UFRJ/COPPE/NUCAT, Victor Teixeira da Silva - NUCAT/PEQ/COPPE/UFRJ
IBP1745_15	GLYCEROL OLIGOMERIZATION USING CALCINED EGGSHELL AS CATALYST Fernando José Soares Barros, Francisco Murilo Tavares de Luna, Rodrigo Silveira Vieira - Universidade Federal do Ceará
IBP1748_15	THERMODYNAMIC STUDY OF GLYCEROL OXIDATION TO PRODUCE VALUE-ADDED PRODUCTS. Franciel Aureliano Bezerra, Marco Aurelio de Sousa - Federal University of Uberlândia, Ana Paula Alves de Melo Guedes - Federal University of Rio Grande do Norte, Ricardo Reis Soares - Universidade Federal de Uberlândia
IBP1749_15	EVALUATION OF PALLADIUM SUPPORTED ON ACTIVATED CARBON AS CATALYST FOR GLYCEROL CONVERSION INTO LACTIC ACID Maria Rosiene Antunes Arcanjo, Ivanildo José da Silvas Junior - Universidade Federal do Cear, Enrique Rodríguez-Castellón - Universidad de Málaga, Antonia Infantes Molina - Universidade de Málaga, Rodrigo Silveira Vieira - Universidade Federal do Ceará
IBP1750_15	ESTERIFICATION OF ACIDIFIED ZIRCONIUM OXIDE Ulisses Alberto Rodrigues da Silva - Universidade Federal de Uberlândia, Franciel Aureliano Bezerra, Marco Aurelio Sousa, Eduardo Piola, Ricardo Reis Soares - Universidade Federal de Uberlândia, Cesário Francisco das Virgens - Universidade do Estado da Bahia
IBP1757_15	CONVERSION OF ETHANOL INTO AROMATICS ON MOLYBDENUM CARBIDE SUPPORTED ON HZSM-5 Zilacleide Sousa - NUCAT/PEQ/COPPE/UFRJ, Cristiane Assumpção Henriques - UERJ, Victor Teixeira da Silva - NUCAT/PEQ/COPPE/UFRJ
IBP1760_15	HOMOGENEOUS ACID CATALYSIS TO OBTAIN CELLULOSE ACETATE SUGAR CANE BAGASSE Valdic Luiz da Silva, Eledir Vitor Sobrinho, José Carlos Florêncio de Andrade, Luciene Santos de Carvalho, Jose Alberto Batista da Silva - Universidade Federal do Rio Grande do Norte, Leila Maria Aguilera Campos - Universidade Salvador
IBP1777_15	KETALIZATION OF ETHYL LEVULINATE WITH ETHYLENE GLYCOL CATALYSED BY SOLID ACIDS Elizabeth Roditi Lachter, Flavio Freitas - Universidade Federal do Rio de Janeiro, Licursi Licursi, Claudia Antonetti - Dipartimento di Chimica e Chimica Industriale, AMR Galletti - Dipartimento di Chimica e Chimica Industriale, Collares Collares - Universidade Federal do Rio de Janeiro, RSV Nascimento - Universidade Federal do Rio de Janeiro
IBP1804_15	A COMPARISON AMONG CATALYSTS OBTAINED FROM DIFFERENT PRECURSORS FOR STEAM REFORMING OF GLYCEROL Juliane Lima - Universidade Federal da Bahia, Vivian Thyssen, Elisabete Moreira Assaf - Universidade de São Paulo, Maria do Carmo Rangel - Universidade Federal da Bahia
IBP1811_15	THE SELECTIVE OXIDATION OF ETHANOL TO ACETIC ACID OVER PDO/ZRO₂ Sonia Letichevsky - INT, Priscila da Costa Zonetti - Instituto Nacional de Tecnologia, Philipe Pires Pereira Reis, Johnatan Celnik - INT, Carlos René Klotz Rabello - Petrobras, Lucia Gorenstin Appel, Alexandre Barros Gaspar - INT

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16h30/17h30

IBP1814_15	OBTAINING ORGANIC ACIDS FROM BIODIESEL INDUSTRY: ACETOL OXIDATION IN WATER BY FECL₃/H₂O₂ Marcos Lopes de Araújo - Federal University of ABC (UFABC), Georgiy Borisovich Shulpin - Semenov Institute of Chemical Physics, Wagner Alves Carvalho, Dalmo Mandelli - Federal University of ABC (UFABC)
IBP1662_15	SELECTIVE HYDRODEOXYGENATION OF LIGNIN MODEL COMPOUNDS OVER CARBON NANOFIBER-SUPPORTED REDUCIBLE RE OXIDE CATALYSTS Isaac Tyrone Ghampson, Rafael García, Catherine Sepúlveda, Nestor Escalona - Universidad de Concepción
IBP1792_15	HYDROGENOLYSIS OF GLYCEROL OVER CU/P-SIO₂ CATALYSTS Catherine Sepúlveda, Luna Delgado, Nestor Escalona, Rafael García, Isaac Tyrone Ghampson - Universidad de Concepción
IBP1767_15	AN EFFICIENT ONE POT CONVERSION OF GLYCEROL TO LACTIC ACID USING SILVER-EXCHANGED PHOSPHOMOLYBDIC ACID AS A CATALYST Xiaohong Wang, Dan Zhang, Xiaohong Wang - Northeast Normal University
IBP1779_15	ORGANOSULFONIC ACID AND PHENYLSILANE BIFUNCTIONALIZED ORGANOSILICA HOLLOW NANOTUBES FOR SYNTHESIS OF BIOMASS-DERIVED ALKYL LEVULINATES Daiyu Song, Yihang Guo - School of Environment, Northeast Normal University
IBP1610_15	SOLID-ACID CATALYSTS IN THE SYNTHESIS OF LEVULINIC ACID FROM FURFURYL ALCOHOL. Jesús Requies - University of Basque Country, Illian Guzmán, Arkaitz Heras, Belen Güemez - UPV/EHU, José Francisco Cambra - University of Basque Country
IBP1645_15	REVIEWING THE INFLUENCE OF THE SOLVENT ON BIOREFINERY CATALYTIC HYDROGENATION PROCESSES Pedro Luis Arias, Inaki Gandarias, Sara Garcia Fernandez - Universidad del País Vasco, Iker Obregón - University of Basque Country, Iker Aguirrezabal-Telleria - Universidad del País Vasco
IBP1650_15	GAS PHASE SELECTIVE HYDROGENATION OF FURFURAL TO FURFURYL ALCOHOL AND 2-METHYLFURAN OVER CU-CEO₂ COPRECIPITATED CATALYSTS Imanol Márquez Rodríguez, Ramón Moreno Tost, Carmen Pilar Jiménez Gómez, Juan Antonio Cecilia Buenestado, Josefa Mérida Robles, José Santamaría-González, Maireles Torres - Universidad de Málaga
IBP1661_15	DEHYDRATION OF SORBITOL TO ISOSORBIDE OVER SULFONIC ACID-MODIFIED SBA-15 CATALYSTS Gabriel Morales, Jose Iglesias, Juan Antonio Melero, Rebeca Sánchez-Vázquez, Alberto Cubo, Jovita Moreno - Universidad Rey Juan Carlos
IBP1791_15	VALORIZATION OF CARBOHYDRATES: DEHYDRATION OF SORBITOL TO ISOSORBIDE IN THE PRESENCE OF ACIDIC ZEOLITES Jose Santamaría Gonzalez, Lereña Gil, Ginés Molina, Mérida Robles, Ramón Moreno Tost, Maireles Torres - Univ. de Málaga
IBP1762_15	HETEROGENEOUS CATALYTIC VALORIZATION OF ACONITIC ACID PRODUCED FROM SUGAR CANE Wael Hneine, Marion Eternot - IRCELYON, William Hoareau - eRCANE, Laurence Massin, Lorraine Christ - IRCELYON, Emma Caderby - eRCANE, Nadine Essayem - IRCELYON
IBP1628_15	CONVERSION OF D-GLUCOSE TO 5-HYDROXYMETHYLFURFURAL USING AL₂O₃-PROMOTED SULFATED TIN OXIDE AS CATALYST Marystela Lopes, Karla Dussan, James Leahy - University of Limerick, Victor Teixeira da Silva - NUCAT/PEQ/COPPE/UFRJ
IBP1677_15	INFLUENCE OF CHARACTERISTICS AND PREPARATION OF ENHANCED CATALYSTS FOR AQUEOUS PHASE REFORMING OF GLYCEROL Francesco Basile, Erica Lombardi, Rodolfo Mafessanti - University of Bologna
IBP1782_15	SELECTIVE HYDROGENATION OF BIOMASS DERIVED FURFURAL TO 2-METHYLFURAN: A PROMISING BIOFUEL CANDIDATE Pedro Nothaft Romano, Joao Monnerat Araujo Ribeiro de Almeida, Yuri Carvalho - TPQB/UFRJ, Peter Priece - University of Liverpool, Eduardo Falabella Sousa-Aguiar - Petrobras and Federal University of Rio de Janeiro, Jose Antonio Lopez Sanchez - SIRE/UOL
IBP1697_15	CATALYTIC ASSESSMENT OF A NILASN TRIMETALLIC SYSTEM IN THE STEAM REFORMING OF ETHANOL Mauricio Musso - Facultad de Química, Udelar, Juan Bussi - Facultad de Química, Udelar
IBP1698_15	GLYCEROL PHOTOREFORMING FOR H₂ PRODUCTION UNDER UV AND VISIBLE LIGHT Mauricio Musso, Udelar, Santiago Veiga, Udelar, Andrea De León - Facultad de Química, Udelar, Orlando Alfano - INTEC - CONICET, Juan Bussi - Facultad de Química, Udelar
IBP1739_15	HYDROGEN-RICH GAS PRODUCTION VIA STEAM REFORMING OF CRUDE GLYCEROL OVER NI-LA-TI CATALYSTS Santiago Veiga - Facultad de Química, Udelar, Juan Bussi - Facultad de Química, Udelar

Poster Session

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IBP1673_15	PRODUCTION OF VALUABLE POLYOLS OVER SUPPORTED RUTHENIUM-TUNGSTEN CATALYSTS FROM CELLULOSE AND LIGNOCELLULOSIC BIOMASS IN A BIOREFINERY Katarina Fabicovicova, Martin Lucas, Peter Claus - Technical University Darmstadt
IBP1682_15	STUDIES ON THE HYDRODEOXYGENATION OF LIGNIN MODEL COMPOUNDS THROUGH H-TRANSFER REACTIONS CATALYSED BY RANEY®-NI Ilton Barros Daltro de Castro - Max-Planck-Institut für Kohlenforschung, Roberto Rinaldi - Imperial College London
IBP1755_15	DOWNSTREAM PROCESSING OF LIGNIN OIL STREAMS OBTAINED FROM THE CATALYTIC UPSTREAM BIOREFINING OF LIGNOCELLULOSES Gaetano Calvaruso - Max-Planck-Institut für Kohlenforschung, Roberto Rinaldi - Imperial College London
IBP1796_15	PYROLYSIS OF SUNFLOWER SEED HULLS EMPLOYING DIATOMACEOUS EARTH BASED CATALYSTS Andres Casoni, Romain Dutoit - Plapiqui, Gabriel Radivoy - INQUISUR, María Alicia Volpe - Plapiqui
IBP1815_15	5-HYDROXYMETHYLFURFURAL PRODUCTION FROM CATALYTIC TRANSFORMATION OF CARBOHYDRATES IN A BIPHASIC SYSTEM Lugman Atanda - The University of Queensland, Abhijit Shrotri - Hokkaido University, Jorge Beltramini, Qing Ma - The University of Queensland
IBP1646_15	REDUCTIVE LIGNOCELLULOSE FRACTIONATION INTO SOLUBLE LIGNIN-DERIVED PHENOLIC MONO- AND DIMERS AND PROCESSABLE CARBOHYDRATE PULPS Van den Bosch Sander, Schutyser Wouter -, Sels Bert - KU Leuven
IBP1768_15	THE ROLE OF ACTIVE SITE ACCESSIBILITY IN BIOMASS DERIVED CATALYSTS FOR HYDROLYSIS APPLICATIONS Adriano do Couto Fraga - Petrobras, Eduardo Falabella Sousa-Aguar - Petrobras and Federal University of Rio de Janeiro, Isabel Fonseca - Universidade Nova de Lisboa, Ana Rego - University of Lisbon, Vitor Loureiro Ximenes - Petrobras, Cristina Pontes Bittencourt Quitete - Petrobras
IBP1787_15	GLUCOSE PRODUCTION EFFICIENCY EVALUATION FROM PRETREATED BAGASSE ENZYMATIC HYDROLYSIS WITH H₂SO₄/H₂O₂ IN A ALKALINE MEDIUM Samira Maria Nonato Assumpção - Universidade Federal da Bahia, Leila Maria Aguilera de Campos - Universidade Federal da Bahia e Universidade Salvador, Gabrielle das Virgens Fraga - Univ. Salvador, Luiz Antônio Magalhães Pontes - Univ. Federal da Bahia e Universidade Salvador, Luciene Santos de Carvalho - Univ. Federal do Rio Grande do Norte
IBP1614_15	THE Z-BOND INTERACTION AND MECHANISM OF CELLULOSE DISSOLUTION PROCESS IN IONIC LIQUIDS Feng Huo - Chinese Academy of Sciences, Suojang Zhang - Institute of Process Engineering, Chinese Academy of Sciences
IBP1620_15	CO-PRODUCTION OF SORBITOL AND XYLITOL BY HYDROLYTIC HYDROGENATION OF RAW LIGNOCELLULOSIC BIOMASS OVER SOLID COMBINED CATALYSTS Qiyang Liu - Guangzhou Institute of Energy Conversion, Yuhe Liao - Guangzhou Institute of Energy Conversion, University of Chinese Academy of Science, Jin Tan, Longlong Ma, Lungang Chen, Tiejun Wang - Guangzhou Institute of Energy Conversion
IBP1652_15	DEPOLYMERIZATION OF LIGNIN MODEL COMPOUNDS AND ORGANOSOLV LIGNIN OVER METHYLTRIOXORHENIUM IN IONIC LIQUIDS Bo Zhang, Chang-Zhi Li, Ai-Qin Wang, Tao Zhang - Dalian Institute of Chemical Physics, Chinese Academy of Sciences
IBP1754_15	CATALYTIC TRANSFORMATION OF LIGNOCELLULOSE TO CHEMICALS AND FUELS: OPPORTUNITIES AND CHALLENGES Tao Zhang - Dalian Institute of Chemical Physics, CAS
IBP1786_15	CONVERSION OF CELLULOSE TO LACTIC ACID CATALYZED BY ERBIUM-EXCHANGED MONTMORILLONITE K10 Fen-Fen Wang, Jie Liu, Hao Li, Chun-Ling Liu, We-Sheng Dong - Shaanxi Normal University
IBP1630_15	TUNING THE SELECTIVITY OF CELLULOSE CONVERSION TO GLYCOLS BY USING NI-SN CATALYSTS Ruiyan Sun - Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Mingyuan Zheng, Jifeng Pang, Aiqin Wang, Tao Zhang - Dalian Institute of Chemical Physics, CAS
IBP1613_15	KINETIC AND SPECTROSCOPIC STUDIES OF CATALYTIC MECHANISMS: HYDRODEOXYGENATION OF BIOMASS FEEDSTOCKS ON TRANSITION METAL PHOSPHIDES Ted Oyama - The Univ. of Tokyo and Virginia Tech, Ayako Iino - Virginia Tech, Ara Cho - Virginia Tech, Phuong Bui - The Univ. of Tokyo and Virginia Tech, Atsushi Takagaki - Virginia Tech, Ryuji Kikuchi - Virginia Tech, Ryuji Bando - Nanosystem Research Institute
IBP1783_15	ORGANIC SMALL ACIDS REMOVAL FROM THE AQUEOUS BIO-OIL FRACTION USING THE MONTMORILLONITE CLAY: PRELIMINARY RESULTS Mariela Alejandra Fernández - CETMIC, Rosa Maria Torres Sánchez - CETMIC, Fernanda Gomes de Mendonça, Rochel Montero Lago - Universidade Federal de Minas Gerais

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16h/17h

IBP1633_15	USE OF BIO-OIL AQUEOUS ACID FRACTION TO RECOVER IRON FROM WASTES AND TO PRODUCE FUELS Fernanda Gomes de Mendonça, Jamerson Peixoto de Matos Gomes - Universidade Federal de Minas Gerais, Juliana Cristina Tristão - Universidade Federal de Viçosa, Ricardo Reis Soares - Universidade Federal de Uberlândia, Rochel Montero Lago - Universidade Federal de Minas Gerais
IBP1663_15	HYDRODEOXYGENATION OF PHENOL OVER PD CATALYSTS. EFFECT OF SUPPORT Priscilla Magalhães de Souza - INT and IME, Raimundo Crisostomo Rabelo Neto - Instituto Nacional de Tecnologia, Luiz Eduardo Pizarro Borges - Instituto Militar de Engenharia, Gary Jacobs, Burtron Davis - University of Kentucky, Daniel Resasco - University of Oklahoma, Fabio Bellot Noronha - INT and IME
IBP1666_15	LOWERING SYNTHESIS TEMPERATURE OF NI₂P/C BY PALLADIUM ADDITION: EFFECT OF PALLADIUM SOURCE AND APPLICATION TO GUAIACOL HDO Leon Fagner Feitosa - NUCAT/PEQ/COPPE/UFRJ, Gilles Berhault - IRCELYON/CNRS/UCBL, Dorothée Laurenti - IRCELYON/CNRS/UCBL, Thomas Davies - Stephenson Inst. for Renewable Energy, Victor Teixeira da Silva - NUCAT/PEQ/COPPE/UFRJ
IBP1720_15	STUDY OF AL-MCM-41 CATALYST IN THE FAST PYROLYSIS OF SISAL RESIDUE Camila Ribeiro de Oliveira Félix - UFBA / IFBA, Aroldo Félix de Azevedo Júnior - UFBA/UFRB, Carolina Costa Freitas - UFBA, Carlos Augusto de Moraes Pires - UFBA, Victor Teixeira da Silva - NUCAT/PEQ/COPPE/UFRJ, Soraia Teixeira Brandão - UFBA
IBP1759_15	CATALYTIC PYROLYSIS OF ELEPHANT GRASS USING WO₃ SUPPORTED IN RHA AND RHA-MCM-41 Renata Martins Braga - Federal Univ. of Rio Grande do Norte, Dulce Maria de Araujo Melo, Eledir Vitor Sobrinho - Univ. Federal do Rio Grande do Norte, Joana Maria de Farias Barros - Univ. Federal de Campina Grande, Marcus Antonio de Freitas Melo, Júlio Cezar de Oliveira Freitas, Alexandre Fontes Melo Carvalho, Maria do Socorro Braga Fontes - Federal Univ. of Rio Grande do Norte
IBP1761_15	PRODUCTION OF OXYGENATED COMPOUNDS THROUGH CATALYTIC PYROLYSIS OF ELEPHANT GRASS USING TI-MCM-41 Maria do Socorro Braga Fontes, Dulce Maria de Araujo Melo, Renata Martins Braga, Marcus Antonio de Freitas Melo, Cíntia de Castro Costa, Vitor Rodrigo Melo e Melo - Federal University of Rio Grande do Norte
IBP1790_15	EGGSHELL CATALYSTS: STRATEGIES TO CONTROL FRACTIONAL PENETRATION Isabela Brito dos Santos - Petrobras, Eduardo Falabella Sousa-Aguiar - Petrobras and Federal University of Rio de Janeiro, Adriano do Couto Fraga - Petrobras
IBP1706_15	HYDRODEOXYGENATION OF PHENOL OVER COMO/AL₂O₃-TiO₂ CATALYSTS Jesus Andres Tavizon Pozos, Víctor Alejandro Suarez Toriello, Jose Antonio de los Reyes Heredia - UAM-I
IBP1686_15	DOPED CERIA SUPPORTED NICKEL CATALYSTS FOR LOW TEMPERATURE STEAM METHANE REFORMING Ignacio Iglesias - ITHES (CONICET-UBA), Luis Alemany - UMA, DIQ-Facultad de Ciencias, Graciela Baronetti - ITHES (CONICET-UBA), Fernando Mariño - ITHES (CONICET-UBA)
IBP1807_15	MIXED OXIDES TUNED WITH ALKALINE METALS TO IMPROVE GLYCEROLYSIS FOR BIODIESEL SUSTAINABLE PRODUCTION Nancy Florentina Balsamo, Victor Santiago Sarmiento, Eduardo Renato Herrero, Griselda Alejandra Eimer, Mónica Elsie Crivello - CITEQ, UTN-CONICET
IBP1637_15	ACTIVATED CARBON OBTAINED FROM SUGAR CANE STRAW: A COMPARATIVE STUDY WITH COMMERCIAL MATERIALS Fabiana Magalhães Teixeira Mendes, Alexandre Barros Gaspar, Aline Carneiro Correa Marques, Izabela Dantas Barcelos Greyc - Inst. Nacional de Tecnologia, Viridiana Santana Ferreira Leitao - Inst. Nacional de Tecnologia e Univ. Federal do Rio de Janeiro
IBP1770_15	DRY REFORMING OF METHANE OVER NI/AL₂O₃ AND NI/MCM-41 CATALYSTS: EFFECT OF MG ADDITION Rodolfo Andrade Schaffner, Carine Aline Schwengber, Vanessa Rossato Bach, Fernanda Bernardo Cripa - UFPR/LabCatProBio, Fernando Alves da Silva, Nádia Regina Camargo Fernandes Machado - State University of Maringá, Helton José Alves - UFPR/LabCatProBio
IBP1774_15	A NEW ROUTE BASED ON NA⁺ CARBOXYLATE INTERMEDIATE TO CONVERT FATTY ACID WASTES INTO HYDROCARBON FUELS Deise Morone Perígolo, Fabiano Gomes Ferreira de Paula - Universidade Federal de Minas Gerais, Patterson Patrício de Souza - CEFET, Rochel Monteiro Lago, Maria Helena Araújo - Universidade Federal de Minas Gerais
IBP1817_15	GLYCEROL HYDROGENOLYSIS OVER IR-NI BIMETALLIC CATALYSTS Aracelis Pamphile-Adrian, Pedro Florez-Rodriguez, Fabio Barboza Passos - Universidade Federal Fluminense
IBP1819_15	AQUEOUS OXIDATION OF ALCOHOLS CATALYZED BY GOLD NANOPARTICLES: HOW ALKALINE CONDITIONS AFFECT THE PRODUCTION OF ACID? Camila P. Ferraz and Liane M. Rossi - Universidade de São Paulo

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IBP1752_15	GLYCEROL AS A RAW MATERIAL TO THE BIORREFINERY Raúl Alberto COMELLI - Instituto de Investigaciones en Catálisis y Petroquímica - INCAPE (FIQ-UNL, CONICET)
IBP1619_15	PRODUCTION OF BIODIESEL USING HZSM-5 ZEOLITES MODIFIED WITH CITRIC ACID AND SO₄²⁻/LA2O₃ Sara Silveira Vieira, Zuy Maria Magriotis - Universidade Federal de Lavras, Maria Filipa Ribeiro - Universidade de Lisboa, Inês Graça, Auguste Fernandes, Jose Manuel Madeira Lopes - Universidade de Lisboa, Sabrina Mesquita Coelho, Nadiene Aparecida do Vale Santos, Adelir Aparecida Saczk - Universidade Federal de Lavras
IBP1669_15	CTA-MCM-41: A NEW CATALYST FOR BIODIESEL FORMATION Juliana Pereira Barbosa - Federal University of São Carlos, Jhosiannada Vilela da Silva - Federal University of Alagoas, Simoni Plentz Meneghetti - Federal University of Alagoas, Dilson Cardoso - Universidade Federal de São Carlos
IBP1670_15	SYNTHESIS OF CMIM-MCM-41 AND ITS USE AS CATALYST FOR THE TRANSESTERIFICATION REACTION Pedro Paulo Modesto Neto, Iago William Zapelini, Aurelia RO Ferreira, Ana Flavia Pinheiro de Campos, Dilson Cardoso - Universidade Federal de São Carlos
IBP1679_15	BIODIESEL PRODUCTION FROM NON-EDIBLE FEEDSTOCK USING ZN/LA-CATALYSTS Paula Moraes Veiga, Claudia de Oliveira Veloso, Cristiane Assumpção Henriques - UERJ
IBP1694_15	ASSESSMENT OF COMMERCIAL RESINS IN THE SYNTHETIC ESTERS PRODUCTION FROM FREE FATTY ACIDS OF THE CASTOR OIL Rosana Maria Alves Saboya - Universidade Federal do Ceará, Juan Antonio Cecilia, Cristina García-Sancho - Universidad de Málaga, Francisco Murilo Tavares de Luna - Universidade Federal do Ceará, Enrique Rodríguez-Castellón - Universidad de Málaga, Celio Loureiro Cavalcante Junior - Universidade Federal de Ceará
IBP1712_15	BIOMASS CONVERSION INTO SOLUBLE CARBOHYDRATES AND CATALYTIC HYDROGENATION FOR POLYOLS PRODUCTION Cláudio César Barros de Oliveira, Frederico Augusto Dantas de Araújo, Rafael Caldas, Jornandes Dias da Silva, Cesar Andrade Moraes de Abreu - Federal University of Pernambuco
IBP1740_15	KINETICS OF THE JATROPHA OIL CRACKING ON MOO3/HZSM-5 CATALYSTS Camila Maria Teixeira de Almeida, Marília Ramalho Figueiredo dos Santos, Ênio Dikran Vasconcelos Bruce, Celmy Maria Bezerra de Menezes Barbosa, Roger Thomas François Frety, Jose Geraldo Andrade Pacheco - Federal University of Pernambuco
IBP1741_15	KINETICS OF THERMOCATALYTIC CRACKING OF MYRISTIC ACID AS A MODEL COMPOUND FOR THE PRODUCTION OF BIOFUELS Ênio Dikran V. Bruce, Camila Maria Teixeira de Almeida, Marília Ramalho de F. dos Santos, Celmy Maria Bezerra de Menezes Barbosa, Roger Thomas François Frety, José Geraldo de Andrade Pacheco - Federal Univ. of Pernambuco
IBP1747_15	LITHIUM AND CALCIUM BASED PEROVSKITE TYPE OXIDES FOR ETHYLIC TRANSESTERIFICATION Alexandra Mary Goncalves, Renata de Aquino Brito Lima Corrêa, Jose Mansur Assaf - Universidade Federal de São Carlos, Ana Rita Araujo Nogueira - Embrapa Pecuária Sudeste
IBP1751_15	CATALYTIC CRACKING OF SOYBEAN OIL USING ZSM5 ZEOLITE Erick Yuki Emori, Fabio Heidi Hirashima, Mara Heloisa Neves Olsen Scaliante, Nádia Regina Camargo Fernandes Machado, Cassio Henrique Zandonai - Universidade Estadual de Maringá
IBP1764_15	NEW BIODIESEL CATALYST BASED ON SUPPORTED MGO/K⁺ OBTAINED FROM SERPENTINITE MG₃Si₂O₅(OH)₄ Fabiane Carvalho Ballotin, Eleonice Moreira Santos, Therese Cibaka, Ana Paula Carvalho Teixeira, Rochel Montero Lago - Universidade Federal de Minas Gerais
IBP1769_15	GLASS POWDER TREATMENT WITH KF TO OBTAIN BASIC CATALYST AND APPLICATION IN SOYBEAN OIL TRANSESTERIFICATION Eliane Soares da Silva, Vanessa Rossato Bach, Rodolfo de Andrade Shaffner, Angela Maria Wiest, Monica Vieceli, Maria Cristina Milinsk, Helton José Alves - UFPR/LabCatProBio
IBP1772_15	CATALYTIC TRANSESTERIFICATION FOLLOWED BY DISTILLATION TO OBTAIN BIOKEROSENE BABASSU (ORBIGNYA PHALERATA) Carolline Rodrigues Ranucci - Universidade Estadual do Oeste do Paraná, Vanessa Rossato Bach - UFPR/LabCatProBio, Marcos Roberto Monteiro, Cristie Luis Kugelmeier - Universidade Federal de São Carlos, Reinaldo Aparecido Bariccatti, Edson Antonio da Silva - Universidade Estadual do Oeste do Paraná, Helton José Alves - UFPR/LabCatProBio

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16h20/17h20

IBP1776_15	THERMAL CATALYTIC CRACKING OF BURITI OIL (MAURITIA FLEXUOSA L.) OVER LASBA-15 MESOPOROUS MATERIALS Antonio Souza Araujo - Federal University of Rio Grande do Norte, Geraldo Eduardo Luz Jr - State University of Piauí, Ana Catarina Fernandes Coriolano - Potiguar University, Anne Gabriella Dias Santos - State University of Rio Grande do Norte, Vinicius Patricio Silva Caldeira, Valter Jose Fernandes Jr - Federal University of Rio Grande do Norte
IBP1794_15	BIOKEROSENE FROM CATALYTIC DEOXYGENATION OF BIODIESEL Pedro Henrique Moraes de Araújo, Raul Rosenhaim, Ary da Silva Maia, Ieda Maria Garcia dos Santos, Antonio Gouveia de Souza, Nataly Albuquerque dos Santos - Federal University of Paraíba
IBP1797_15	TIN-BASED CATALYSTS IN ORDER TO PRODUCE BIODIESEL Camila de Oliveira Pereira, Fatima Maria Zanon Zotin, Cristiane Assumpção Henriques - UERJ
IBP1800_15	A NEW CONTINUOUS FLOW REACTOR WITH HIGH-INTENSITY ULTRASOUND IRRADIATION FOR BASE-CATALYSED TRANSESTERIFICATION OF SOYBEAN OIL Alex Nogueira Brasil - Universidade Federal de Minas Gerais, André Nogueira Brasil - Universidade de Itaúna, Leandro Soares de Oliveira - Universidade Federal de Minas Gerais, Jéssica Nogueira Fraga - Universidade de Itaúna
IBP1801_15	BIOMINAS PLANT FOR BIODIESEL PRODUCTION FROM WASTE OILS BY ULTRASOUND IRRADIATION Alex Nogueira Brasil - Universidade Federal de Minas Gerais, André Nogueira Brasil - Universidade de Itaúna, Moisés Martins de Oliveira - Biominas Engenharia de Energias, Leandro Soares de Oliveira - Universidade Federal de Minas Gerais
IBP1802_15	IN SITU TRANSESTERIFICATION OF MICROALGAE SCENEDESMUS ACCUMINATUS FOR METHYL AND ETHYL ESTERS SYNTHESIS USING ACID CATALYSIS Kemely Bruna Zandonadi Ferriani Branco, Elias Trevisan - State University of Maringa, Eduardo Falabella Sousa-Aguiar - Petrobras and Federal University of Rio de Janeiro, Pedro Augusto Arroyo - State University of Maringa
IBP1803_15	SIMULTANEOUS ESTERIFICATION AND TRANSESTERIFICATION OF JATROPHA CURCAS L. OIL USING SULFATED ZIRCONIA AS CATALYST Rodrigo Zunta Raia - State University of Maringa, Eduardo Falabella Sousa-Aguiar - Petrobras and Federal University of Rio de Janeiro, Pedro Augusto Arroyo - State University of Maringa
IBP1805_15	SYNTHESIS OF ETHYL ESTERS FROM RAW OIL OF ACROCOMIA ACULEATA (MACAÚBA) USING ACID CATALYSIS Gredson Keiff Souza, Mariana Passos Souza, Fabiano Bisinella Scheufele - State Univ. of Maringa, Eduardo Falabella Sousa-Aguiar - Petrobras and Federal Univ. of Rio de Janeiro, Nehemias Curvelo Pereira, Pedro Augusto Arroyo - State Univ. of Maringa
IBP1806_15	BIODIESEL FROM BERTHOLLETIA EXCELSA USING MESOPOROUS CATALYST FUNCTIONALIZED WITH GUANIDINE-DERIVATIVE José Sebastião Vieira, Ana Lúcia de Lima - Universidade Federal do Rio de Janeiro, Célia Machado Ronconi - Universidade Federal Fluminense, Claudio Mota - Universidade Federal do Rio de Janeiro
IBP1781_15	SILICA-POLY(STYRENESULPHONIC ACID) NANOCOMPOSITES AS PROMISING ACID CATALYSTS FOR THE ESTERIFICATION OF FREE FATTY ACIDS TO BIODIESEL María José Campos Molina, Juan José Corral-Pérez, Rafael Mariscal, Manuel López Granados - ICP-CSIC
IBP1809_15	SULFONATED HYDROTHERMAL CARBON AS AN EFFICIENT CATALYST IN ESTERIFICATION REACTIONS OF FATTY ACIDS AND GLYCEROL Elisabet Pires - Universidad de Zaragoza, Enrique García Bordejé - ICB-CSIC, Laura Roldán - ICB-CSIC, José Maria Fraile - Universidad de Zaragoza
IBP1606_15	SUSTAINABLE TEMPLATES FOR MICRO- MESOPOROUS MATERIALS - SYNTHESIS AND APPLICATION OF OLEIC ACID DERIVED MOLECULES FOR THE PREPARATION OF STRUCTURED SILICA MATERIALS Cyril Pirez - Université Lille Nord de France, Benjamin Katryniok - Université Lille Nord de France and Ecole Centrale de Lille, Franck Dumeignil - Université Lille Nord de France and Institut Universitaire de France, Simon Desset - Université Lille Nord de France
IBP1665_15	SYNTHESIS OF 5-HYDROXYMETHYLFURFURAL FROM FRUCTOSE CATALYSED BY PHOSPHOTUNGSTIC ACID Filipe Nery Dutra Cabral Gomes - Federal University of Rio De Janeiro - UFRJ, Fabiana Magalhães Teixeira Mendes - National Institute of Technology, Mariana de Mattos Vieira Mello Souza - National Institute of Technology
IBP1683_15	SIMULATION OF 5-HYDROXYMETHYLFURFURAL PRODUCTION FROM FRUCTOSE USING NIOBIUM CATALYSTS Everton Geraldo Ladeira de Carvalho - Universidade Federal de Viçosa, Rogério Marques Ribas - Companhia Brasileira de Metalurgia e Mineração, Robson Souza Monteiro - CBMM and Catalysis Consultoria Ltda, Fábio de Ávila Rodrigues - Universidade Federal de Viçosa

Poster Session

September, 30th • Wednesday

16h20/17h20

IBP1683_15	SIMULATION OF 5-HYDROXYMETHYLFURFURAL PRODUCTION FROM FRUCTOSE USING NIOBIUM CATALYSTS Everton Geraldo Ladeira de Carvalho - Universidade Federal de Viçosa, Rogério Marques Ribas - Companhia Brasileira de Metalurgia e Mineração, Robson Souza Monteiro - CBMM and Catalysis Consultoria Ltda, Fábio de Ávila Rodrigues - Universidade Federal de Viçosa
IBP1693_15	HIGH SURFACE AREA TiO₂ AS AN EFFICIENT CATALYST FOR CONVERSION OF GLUCOSE TO HMF Carlos Alberto Sepulveda Lanziano - LNLS/CNPEM; FEQ/UNICAMP, Guilherme Pessoa Nogueira - LNLS/CNPEM; FEQ/UNICAMP, Dean Howard Barrett - LNLS/CNPEM, Silvia Fernanda Moya - LNLS/CNPEM, Reginaldo Guirardello - FEQ/UNICAMP, Cristiane Barbieri Rodella - LNLS/CNPEM
IBP1742_15	USE OF EXPERIMENTAL DESIGN FOR THE STUDY OF GLUCOSE DEHYDRATION TO 5-HYDROXYMETHYLFURFURAL AND LEVULINIC ACID USING SOLID CATALYST NIOBIUM Larissa Rocha Terra - UFV, Reinaldo Francisco Teófilo - UFV, Jussara Valente Roque - UFV, Gabriela Dias Cerqueira - UFV, Mariana Neves Catrinck - UFV, Rogério Marques Ribas - Companhia Brasileira de Metalurgia e Mineração, Robson de Souza Monteiro - Catalysis Consultoria Ltda
IBP1756_15	CONVERSION OF HEMICELLULOSE-DERIVED PENTOSE ON NOBLE METAL-DECORATED MULTI WALLED CARBON NANOTUBES Rafael Farias Perez - Instituto Nacional de Tecnologia, Salome Soares - Universidade do Porto, Andrea Maria Duarte de Farias - Instituto Nacional de Tecnologia, Manuel Fernando Ribeiro Pereira - Universidade do Porto, Marco Andre Fraga - Instituto Nacional de Tecnologia Federal do Rio de Janeiro
IBP1771_15	SUSTAINABLE PRODUCTION OF GAMMA-VALEROLACTONE (GVL) USING NI-MO SUPPORTED CATALYST Bianca Peres Pinto, Cláudio José de Araújo Mota, Christiano Passoni, Ana Luisa Lobo Fortuna - UFRJ
IBP1622_15	EFFECTS OF IONIC LIQUIDS ON THE PRODUCTION OF 5-HYDROXYMETHYLFURFURAL FROM FRUCTOSE IN BIPHASIC SYSTEM Chunyan Shi, Jiayu Xin, Xingmei Lu, Suojing Zhang - Institute of Process Engineering, Chinese Academy of Sciences
IBP1651_15	TAILORED ONE-POT PRODUCTION OF FURAN-BASED FUELS FROM FRUCTOSE IN IONIC LIQUID-CONTAINING BIPHASIC SOLVENT SYSTEM Changzhi Li, Tao Zhang, Hai-Le Cai, Bo Zhang, Tao Dai, Ai-Qin Wang - Dalian Institute of Chemical Physics, CAS
IBP1649_15	Y-AL₂O₃ AS ACID CATALYST FOR DEHYDRATION OF GLUCOSE TO 5-HYDROXYMETHYLFURFURAL Jose Santamaría Gonzalez, Inmaculada Fúnez Núñez, Josefa Mérida Robles, Ramón Moreno Tost, Maireles Torres - Universidad de Málaga
IBP1658_15	EFFICIENT PRODUCTION OF 5-ETHOXYMETHYLFURFURAL FROM FRUCTOSE BY SULFONIC MESOSTRUCTURED SILICA USING DMSO AS CO-SOLVENT Gabriel Morales, Marta Paniagua, Juan Antonio Melero, Jose Iglesias, Marta Campos Vara, Esparragoza Esparragoza - Universidad Rey Juan Carlos
IBP1625_15	CATALYTIC CONVERSION AND VALORISATION OF HEMICELLULOSE SUGARS USING FORMIC ACID AFTER LIGNOCELLULOSIC BIOMASS FRACTIONATION Karla Dussan - University of Limerick, Buana Girisuta - Institute of Chemical and Engineering Sciences, Singapore, Marystela Lopes - University of Limerick, James Leahy - University of Limerick, Michael Hayes - University of Limerick



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