



TENTATIVE PROGRAM OF CATBIOR 2013

- **Plenary lecture (PL)** takes 45 minutes, which includes 40 minutes presentation and 5 minutes discussion.
- **Keynote lecture (KL)** takes 30 minutes, which includes 25 minutes presentation and 5 minutes discussion.
- **Oral Communication (OC)** takes 20 minutes, which includes 15 minutes presentation and 5 minutes discussion.

September 22: Opening registration (Bayshore Hotel Dalian)

Reception dinner: 18:00-21:00 at the cafeteria of Bayshore Hotel

September 23 (Monday)

Time	Chair: Aiqin Wang
08:10-08:25	Opening remarks Tao Zhang , Dalian Institute of Chemical Physics, CAS M. López Granados , Institute of Catalysis and Petrochemistry-CSIC, Spain Feixue Gao , Natural Science Foundation of China Xinhe Bao , The Catalysis Society of China
Time	Chair: S. T. Oyama, Can Li
08:25-09:10	PL1: From understanding elementary steps to designing multifunctional catalysts Johannes A. Lercher TU München, Germany
09:10-9:40	KL1: Advanced catalytic materials for a resource- and energy-efficient biorefinery Gabriele Centi University of Messina, Italy
09:40-10:05	PHOTO + COFFEE BREAK
Time	Chair: Johannes A. Lercher, Jie Xu
10:05-10:35	KL2: One-pot conversion of cellulose to ethylene glycol: insights from the mechanism study Tao Zhang Dalian Institute of Chemical Physics, CAS, China
10:35-10:55	OC1: Hydrodeoxygenation of Biomass Model Compounds on Transition Metal Phosphides S. T. Oyama , A. Iino , A. Cho , P. Bui , P. Yang , A. Takagaki , R. Kikuchi

10:55-11:15	The University of Tokyo, Japan/ Virginia Tech, USA OC2: Fractional conversion of Raw Biomass Changwei Hu , Jia Luo , Yong Xu , Libin Hu , Zhicheng Jiang Sichuan University, China
11:15-11:35	OC3: Influence of the nature of the base and promoter effect of bismuth in the Pt-catalysed aerobic oxidation of 2,5-hydroxymethylfurfural to 2,5-furandicarboxylic acid in aqueous medium H. Ait Rass , M. Besson , N. Essayem IRCELYON, Institut de recherches sur la catalyse et l'environnement de Lyon, UMR5256 CNRS-Université Lyon1, France
11:35-11:55	OC4: Transformation of the renewable furfural to maleic acid and its alternatives by catalytic oxidation Huajun Guo , Jihong Lan , Zhuqi Chen , Guochuan Yin Huazhong University of Science and Technology, China
11:55-12:15	OC5: Aerobic oxidations of bio-alcohols with metal nanoparticle catalysts M. Melián , E. K. Bjoern , Y. Y. Gorbanev , A. Riisager , S. Kegnaes Technical University of Denmark, Denmark
12:15-12:35	OC6: Emerging technologies for cellulosic fuels and chemicals Z. Conrad Zhang Dalian Institute of Chemical Physics, CAS, China
12:35-13:30	LUNCH & POSTER TIME
Time	Chair: Victor Teixeira da Silva, Boqing Xu
13:30-14:15	PL2: Design of Catalysts for Hydrodeoxygenation of Biomass George W. Huber , Ning Li , Yong Tae Kim University of Wisconsin, USA
14:15-14:45	KL3: Routes for production of value-added chemicals from cellulose Bert F. Sels Katholieke Universiteit Leuven, Belgium
14:45-15:05	OC7: Poly-(styrene sulphonic acid): an acid catalyst from waste polystyrene for biomass conversion into biofuels and chemicals A. C. Alba-Rubio , M. Orfila , R. Mariscal , M. Mengibar , A. Heras , M. López Granados Insitute of Catalysis and Petrochemistry (CSIC), Spain
15:05-15:25	OC8: Tailored Inorganic-Organic Nanoreactors as Catalysts for Continuous Carbohydrate Processing A. J. Crisci , R. Alamillo , M. H. Tucker , J. M. Gallo , J.P. Zhang , J. A. Dumesic , S. L. Scott University of California, USA
15:25-15:45	OC9: Red Mud as a catalyst for the deoxygenation of biomass Marcel Schlaf University of Guelph, Canada
15:45-16:00	COFFEE BREAK
Time	Chair: Marcel Schlaf, Z. Conrad Zhang
16:00-16:30	KL4: Controllable conversion of cellulose into specific polyols on a Ru catalyst promoted by tungsten trioxide

	Yue Liu , Haichao Liu Perkin University, China
16:30-16:50	OC10: Continuous catalytic conversion of water soluble oligomers into valuable chemicals: A step closer towards industrial application Abhijit Shrotri , Lynette Lambert , Jorge Beltramini and Akshat Tanksale University of Queensland, Australia
16:50-17:10	OC11: Connecting Lignocellulosic Biomass and Advanced Biofuels with Catalytic Aqueous Phase Partial Oxidation Hongfei Lin , Ying Liu , Jason Strull , Lisha Yang University of Nevada Reno, USA
17:10-17:30	OC12: Two-step hydrogenolysis of biomass-derived glucose to polyols over CuCr catalysts Z. H. Xiao , S. H. Jin , C. H. Liang Dalian University of Technology, China
17:30-17:50	OC13: Single reactor conversion of lignocellulosic biomass to furanic biocrude oils using Brønsted acidic ionic liquid catalysts Ananda S. Amarasekara , Bernard Wiredu Prairie View A&M University, USA
17:50-18:10	OC14: Efficient transformation of lignocelluloses in the presence of ionic liquids Jinxing Long , Hao Ma , Xuehui Li South China University of Technology, China
18:10-18:30	OC15: Development of recyclable ionic liquids for biomass processing A. W. T. King , A. J. Holding , A. Parviainen , I. Kilpeläinen University of Helsinki, Finland
18:30-19:00	TRANSFER TO HONGJI THEATER
19:00-21:00	DINNER & CHINESE TRADITIONAL CULTURE EVENING

September 24 (Tuesday)

Time	Chair: Susannah Scott , Yongdan Li
08:10-08:55	PL3: Depolymerization of cellulose by Activated Carbon Atsushi Fukuoka Hokkaido University, Japan
08:55-09:25	KL5: Recent advances in furfural production by catalytic dehydration of biomass-derived sugars P. L. Arias , I. Agirrezabal-Telleria , M. B. Güemez University of the Basque Country, Spain
09:25-09:45	OC16: Efficient production and upgrading of 5-hydroxymethylfurfural into liquid biofuels J.J. Wang , Y.H. Zu , J.W. Ren , X.H. Liu , Y. Q. Wang East China University of Science and Technology, China
09:45-10:05	OC17: Direct Transformation of Cellulose to Platform Chemicals by Coupling Catalysis Longlong Ma , Qiyang Liu , Ning Shi , Yuhe Liao , Tiejun Wang Guangzhou Institute of Energy Conversion, CAS, China

10:05-10:20 COFFEE BREAK	
Time	Chair: Rafael Mariscal López , Runcang Sun
10:20-10:50	KL6: Production of biomass-based chemicals Keiichi Tomishige Tohoku University, Japan
10:50-11:10	OC18: Complete valorization of Kraft lignin in an environmentally benign solvent with heterogeneous catalysts Yongdan Li Tianjin University, China
11:10-11:30	OC19: Aerobic Oxidation Catalysis for Selective Conversion of Lignin Models and Extracts to Aromatic Chemicals R. Tom Baker University of Ottawa, Canada
11:30-11:50	OC20: Hydrogenolysis of lignin and lignosulfonate over nickel-based catalysis Qi Song , Feng Wang , and Jie Xu Dalian Institute of Chemical Physics, CAS, China
11:50-12:10	OC21: Catalytic De-polymerization, De-oxygenation and De-sulfurization of Kraft Lignin for Fuels, Chemicals and Materials Zhongshun Yuan , Shuna Cheng , Gang Wang , Chunbao (Charles) Xu Western University, Canada
12:10-12:30	OC22: High-selectively catalytic conversion of lignin-based cresols into p-xylene with methanol over Pt/HZSM-5 Guozhu Liu , Jinhua Guo , Li Wang , Xiangwen Zhang Tianjin University, China
12:30-13:30 LUNCH & POSTER TIME	
Time	Chair: Eric Gaigneaux, Xindong Mu
13:30-14:00	KL7: Bio-glycerol for Sustainable Production of Acrolein: A Challenge to Acid-Base Catalysis Boqing Xu Tsinghua University, China
14:00-14:20	OC23: Sorbitol hydrogenolysis to obtain glycols by using of ruthenium supported catalysis R. Mariscal , I. Murillo Leo , M. López Granados , J. L. G. Fierro Institute of Catalysis and Petrochemistry (ICP-CSIC), Spain
14:20-14:40	OC24: GALAC: From Glycerol to Acrylic acid through LACTic acid N. Villandier , E. Blanco , J. Ftouni , P. Delichère , C. Lorentz , S. Loridant , J.M.M. Millet , M. Besson , C. Pinel Institut de Recherches sur la Catalyse et l'Environnement de Lyon, IRCELYON, CNRS-Université Claude Bernard Lyon 1, France
14:40-15:00	OC25: Reaction Network Analysis and Continuous Production of Isosorbide tert-Butyl Ethers M. Rose , R. Pfütznerreuter , K. Thenert , M. Helmin , R. Palkovits RWTH Aachen University, Germany
15:00-15:20	OC26: Valorization of humin based by-products formed during biomass processing via gasification/synthesis gas route

15:20-15:40	<p>T.M.C. Hoang, L. Lefferts and K. Seshan University of Twente, The Netherlands</p> <p>OC27: Acid catalysts from rice husk ash: Catalytic activity in dehydration of pentoses</p> <p>Ana Campos Rosario Universidad de Bogotá Jorge Tadeo Lozano, Colombia</p>
15:40-19:00	POSTER SESSION WITH LOCAL BEER (POSTER AWARD SELECTION)
19:00-19:30	TRANSFER TO FURAMA HOTEL
19:30-21:00	BANQUET IN FURAMA HOTEL, DALIAN

September 25 (Wednesday)

Time	Chair: Pedro Jesús Maireles Torres, Yao Fu
08:10-08:55	<p>PL4: Mechanocatalytic Depolymerization of cellulose and raw biomass and downstream processing of the products</p> <p>F. Schüth, R. Rinaldi, N. Meine, M. Käldestrom, J. Hilgert, M. D. Kaufman Rechulski Max-Planck-Institut für Kohlenforschung, Germany</p>
08:55-09:25	<p>KL8: Heterogeneously acid-catalyzed hydrolysis of cellulose to glucose contribution of recent pre-treatment methods</p> <p>François Jérôme, Maud Benoit, Karine De Oliveira Vigier, Qinghua Zhang Université de Poitiers, France</p>
09:25-09:45	<p>OC28: Restructuring the Crystalline and Chemical Structures of (Ligno)cellulose by Cheap Electrolytes Solution Enhances Their Subsequent Conversion</p> <p>Haibo Xie, Zhilian Wu, Ying Zhang, Xue Yu, Zongbao Kent Zhao Dalian Institute of Chemical Physics, CAS, China</p>
09:45-10:05	<p>OC29: Deep Eutectic solvent (DES) in the synthesis of 5-hydroxymethylfurfural</p> <p>Karine De Oliveira Vigier, Fei Liu, A. Benguerba, François Jérôme Université de Poitiers, France</p>
10:05-10:20	COFFEE BREAK
Time	Chair: François Jérôme, Mo Xian
10:20-10:50	<p>KL9: Polyoxometalate-supported Ru and Au nanoparticles for efficient transformations of cellulose and related biomasses</p> <p>Ye Wang Xiamen University, China</p>
10:50-11:10	<p>OC30: From Algae to Diesel and Kerosene-Tailored Fuels via Selective Catalysis</p> <p>Chen Zhao, Johannes A. Lercher East China Normal University, China</p>
11:10-11:30	<p>OC31: Designing solid acids and bases for biofuel synthesis</p> <p>K. Wilson, J-P. Dacquin, V.C. Eze, A.P Harvey, A.F. Lee, A.N. Phan, C. Pirez and J.J. Woodford Cardiff University, UK</p>
11:30-11:50	OC32: Agglomerated Zr-SBA-15: Biodiesel production from low-grade oils and

	<p>fats in a continuous packed bed reactor Jose Iglesias, Juan A. Melero, L. Fernando Bautista, Gabriel Morales and Rebeca Sánchez-Vázquez Universidad Rey Juan Carlos.C, Spain</p>
11:50-12:10	<p>OC33: Niobium supported on silica as catalyst for biodiesel production from acid oils G. Carotenuto, R. Vitiello, S. Mallardo, C. Garcia Sancho, A.Vergara, R.Tesser, E. Santacesaria, P.Maireles Torres, M. Di Serio University of Naples 'Federico II', Italy</p>
12:10-12:30	<p>OC34: Bio-based chemicals as invaluable sustainable solvents and catalysts for synthesis and catalysis Yanlong Gu Huazhong University of Sciences and Technology, China</p>
12:30-13:30	LUNCH IN DICP CAFETERIA
Time	Chair: Karen Wilson, Chen Zhao
13:30-13:50	<p>OC35: Syngas production from biomass gasification: Catalyst integration strategies for process intensification Y. Richardson, J. Blin, S. T. Tanoh, Anne Julbe International Institute for Water and Environmental Engineering, Burkina Faso</p>
13:50-14:10	<p>OC36: Selective oxidation of glycerol over carbon nanofibers supported Pt catalysts in a base-free aqueous solution M.Y. Zhang, R.F. Nie, S.X. Xia, L.P. Zheng, X.Y. Lu, P. Chen, Z.Y. Hou Zhejiang University, China</p>
14:10-14:30	<p>OC37: Catalytic hydrotreatment of fast pyrolysis oil over Picula™ Cat G and Ru/C W. Yin, R. H. Venderbosch, H. J. Heeres University of Groningen, The Netherlands</p>
14:30-14:50	<p>OC38: Catalytic fast pyrolysis of sugarcane bagasse using Mo₂C/Al₂O₃ M. Patel, A. V. Bridgwater, V. Teixeira da Silva Aston University, UK/ Universidade Federal do Rio de Janeiro, Brazil</p>
14:50-15:10	<p>OC39: Catalytic conversions of guaiacol in ethanol over supported Pt-Ni catalysts Wen Chen, Zhongyang Luo, Yi Yang, Jixiang Zhang, Guoxiang Li Zhejiang University, China</p>
15:10-15:30	<p>OC40: Raney Ni catalyzed H-transfer reactions for upgrade of phenolic streams in biorefinery X. Wang, R. Rinaldi Max-Planck-Institut für Kohlenforschung, Germany</p>
15:30-15:50	<p>OC41: Dehydration of ethyl lactate: who makes the job, acid or basic sites? C. Poupin, C. Alié, S. Douven, P. Leboutte, J.P. Pirard, E. M. Gaigneaux Université catholique de Louvain, Belgium</p>
15:50-16:05	COFFEE BREAK
Time	Chair: F. Schüth, Zhongmin Liu
16:05-16:50	<p>PL5: Main catalytic challenges in the bioethanol integrated biorefinery Eduardo Falabella Petrobras Research Centre / Federal University of Rio de Janeiro, Brazil</p>

16:50-17:35	PL6: Converting biomass into fuels and chemicals by heterogeneous catalytic process Avelino Corma Universidad Politécnica de Valencia, Spain
17:35-18:00	CLOSE CEREMONY poster award announcement, conference summary and next venue notification
18:10-19:00	BUFFET IN DICP CAFETERIA