

June 3-6, 2010, Dalian, China

Invited Lectures

About 40 invited lectures will be presented by the leading scientists in worldwide catalytic communities. Some distinguished scientists and representatives from leading industry are also invited.

Confirmed Speakers

Prof. Ajay K. Dalai	University of Saskatchewan, Canada
Prof. Andras Erdohelyi	Institute of Solid State and Radiochemistry, Hungary
Prof. Avelino Corma	Universidad Politecnica de Valencia, Spain
Dr. B. M. Reddy	Indian Institute of Chemical Technology, India
Prof. Bert Weckhuysen	Utrecht University, The Netherlands
Prof. Eduardo A. Lombardo	Universidad Nacional del Litoral, Argentina
Prof. Ferruccio Trifirò	Università degli Studi di Bologna, Italy
Prof. Francine Agbossou-Niedercorn	University of Lille 1, France
Dr. François Garin	LMSPC - UMR 7515 CNRS - ECPM - UdS, France
Prof. Jack Fletcher	University of Cape Town, South Africa
Prof. Javier Gil Llambias	Universidad de Santiago de Chile, Chile
Dr. Jeff Bricker	UOP LLC, A Honeywell Company, USA
Prof. Johannes Lercher	Technische Universitaet Muenchen, Germany
Prof. José Manuel López Nieto	Instituto de Tecnología Química UPV-CSIC, Spain
Prof. Justin Hargreaves	University of Glasgow, UK
Prof. Kazunari Domen	The University of Tokyo, Japan
Prof. Lazechar A. Petrov	Institute of Catalysis, BAS, Bulgaria
Prof. Martin Muhler	Ruhr-Universitaet Bochum, Germany
Prof. Michael Bowker	Cardiff University, UK
Prof. Michael Claeys	University of Cape Town, South Africa
Prof. Michael Stockenhuber	The University of Newcastle, Australia
Prof. S. Damyanova	Institute of Catalysis, BAS, Bulgaria
Prof. Seong-Ihl Woo	Korea Advanced Institute of Science & Technology, Korea
Dr. Sergio Fuentes Moyado	Universidad Nacional de Mexico, Mexico
Prof. Thomas Maschmeyer	The University of Sydney, Australia
Prof. Valentin N. Parmon	Boriskov Institute of Catalysis, RAS, Russia
Prof. Wha-Seung Ahn	Inha University, Korea

International Conference on the Frontiers of Catalytic Science and Technology for the 21st Century

Organized by

International Association of Catalysis Societies (IACS)
Dalian Institute of Chemical Physics (DICP)
Chinese Academy of Sciences (CAS)



Sponsored by

National Natural Science Foundation of China

Invitation

The organization committee takes pleasure to invite you to participate in the major event-The International Conference on the Frontiers of Catalytic Science and Technology for the 21st Century (CFCST2010) to be held in June 3-6, 2010, Dalian, China. The purposes of the conference are to provide a platform for the IACS Council members to meet each other, to discuss the IACS work with emphasis on the fostering of the international collaboration, and to promote the development of global catalysis science and technology to meet the challenges of the global issues. The themes of the conference will focus on the following topics: recent advances in catalysis science and technology; the frontiers of catalysis science and technology in the 21st century; the role and opportunities of catalysis in global sustainable development, particularly in challenging the problems of energy, environment, CO₂ emission and human health, etc.; cooperation between (a) academia and industry, (b) catalysis and other disciplinary, (c) developing and developed countries; the role of IACS in promoting the development of catalysis science and technology, international collaborations, and so on.

Venue

The conference will be held at the Conference Center of Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China.

Accommodation

The organization committee will make hotel reservation in Bayshore Hotel Dalian, a five star deluxe hotel located at Xinghai Bay, along the golden coast of Dalian, overlooking the vast sea and backing on luxuriant mountain.

Local Organizing Committee

Prof. Can Li (Chairman)

Prof. Wenjie Shen (Secretary-General)

Mr. Zhenyu Wang

Prof. Hongxian Han

Mr. Gang Xu

Mr. Songhua Yu

Dr. Fengtao Fan

Ms. Kun Fang

Ms. Ran Bi

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International Association of Catalysis Societies

Executive Committee

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Vice President

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Prof. S. Damyanova (Institute of Catalysis, BAS, Bulgaria)

Prof. Lazechar A. Petrov (Institute of Catalysis, BAS, Bulgaria)

Dr. Jacques Monnier (Natural Resources Canada, Canada)

Prof. Flora Ng (University of Waterloo, Canada)

Prof. Can Li (Dalian Institute of Chemical Physics, CAS, China)

Prof. Mingyuan He (Research Institute of Petroleum Processing, SINOPEC, China)

Dr. Bohumil Bernauer (Institute of Chemical Technology, Prague (ICT), Czech Republic)

Dr. Daniel Duprez (Universite de Poitiers, France)

Dr. Slavik Kasztelan (Institut Francais du Petrole, France)

Prof. Johannes Lercher (Technische Universitaet Muenchen, Germany)

Prof. Martin Muhler (Ruhr-Universitaet Bochum, Germany)

Prof. Andras Erdohelyi (Institute of Solid State and Radiochemistry, Hungary)

Prof. Zoltan Paal (Institute of Isotope, HAS, Hungary)

Dr. Sergio Fuentes Moyado (Universidad Nacional de Mexico, Mexico)

Prof. Javier Gil Llambias (Universidad de Santiago de Chile, Chile)

Dr. B. M. Reddy (Indian Institute of Chemical Technology, India)

Prof. B. Viswanathan (Indian Institute of Technology, India)

Dr. Domenico Sanfilippo (Snamprogetti S.P.A., Italy)

Prof. Ferruccio Trifirò (Università degli Studi di Bologna, Italy)

Prof. Kazunari Domen (The University of Tokyo, Japan)

Prof. Koichi Eguchi (Kyoto University, Japan)

Prof. Wha-Seung Ahn (Inha University, Korea)

Prof. Seong-Ihl Woo (Korea Advanced Institute of Science & Technology, Korea)

Dr. Harry Bitter (Utrecht University, The Netherlands)

Dr. Matthijs Ruitenbeek (DOW Benelux BV, The Netherlands)

Prof. Anders Holmen (Norwegian University of Science and Technology, Norway)

Prof. Tapio Salmi (Laboratory of Industrial Chemistry, Finland)

Prof. M. Farinha Portela (Instituto Superior Technico, Portugal)

Prof. F. Ramoa Ribeiro (Instituto Superior Technico, Portugal)

Prof. Valentin N. Parmon (Boreskov Institute of Catalysis, RAS, Russia)

Prof. Milan Hronec (Slovak Technical University, Slovakia)

Prof. José Manuel López Nieto (Instituto de Tecnología Química UPV-CSIC, Spain)

Prof. Jose L. Garcia Fierro (Instituto de Catalisis y Petroleoquímica, CSIC, Spain)

Prof. Jack Fletcher (University of Cape Town, South Africa)

Prof. Michael Claeys (University of Cape Town, South Africa)

Prof. Michael Bowker (Cardiff University, UK)

Dr. Justin Hargreaves (University of Glasgow, UK)

Dr. Bruce R. Cook (BP Products NA, Inc., USA)

Prof. Enrique Iglesia (University of California at Berkeley, USA)

Prof. Mireya Goldwasser (Universidad Central de Venezuela, Venezuela)

** New nominations of Poland will follow*



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June 3-6, 2010, Dalian, China

Time Schedule

June 3 (Thursday)	June 4 (Friday)		June 5 (Saturday)		June 6 (Sunday)	
	08:30-09:00	Opening ceremony	08:30-09:00	Michael Bowker	08:30-09:00	Kazunari Domen
	09:00-09:30	Jeffery C. Bricker	09:00-09:30	Sergio Fuentes Moyado	09:00-09:30	Eduardo A. Lombardo
	09:30-10:00	Ajay K. Dalai	09:30-10:00	Can Li	09:30-10:00	François Garin
	10:00-10:30	Coffee Break				
	10:30-11:00	Valentin N. Parmon	10:30-11:00	Thomas Maschmeyer	10:30-11:00	Johannes A. Lercher
	11:00-11:30	Wha-Seung Ahn	11:00-11:30	Seong-Ihl Woo	11:00-11:30	Sonia Damyanova
	11:30-12:00	Michael Stockenhuber	11:30-12:00	Xinhe Bao	11:30-12:00	András Erdőhelyi
	12:00-14:00	Lunch				
13:00-18:00 Registration 18:00 Reception	14:00-14:30	Vernon Gibson	14:00-14:30	Bert Weckhuysen	14:00-14:30	Martin Muhler
	14:30-15:00	José M. López Nieto	14:30-15:00	Michael Claeys	14:30-15:00	Benjaram M. Reddy
	15:00-17:30	IACS Meeting / Labs Tour	15:00-15:30	Francine Agbossou-Niedercorn	15:00-15:30	Closing ceremony
			15:30-16:00	Coffee Break		
			16:00-16:30	Mingyuan He		
			16:30-17:00	Lazechar A. Petrov		
			17:00-17:30	Justin Hargreaves		
18:00-19:30	Dialogue Forum	18:30	Banquet			

All lectures are invited keynote lectures. Each lecture is for 30 min, including 5 min for discussion.

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Scientific Program

Thursday, June 3, 2010

13:00-18:00 Registration

18:00 Reception

Friday, June 4, 2010

08:30-09:00 Opening Ceremony

09:00-09:30 **Jeffery C. Bricker** (UOP LLC, A Honeywell Company, USA)
Recent Advances in Science and Technology for Petrochemicals & Refining

09:30-10:00 **Ajay K. Dalai** (University of Saskatchewan, Canada)
Novel Catalysis for Meeting Climate Change Issues in 21st Century

10:00-10:30 **Coffee Break**

10:30-11:00 **Valentin N. Parmon** (Boreskov Institute of Catalysis SB RAS, Russia)
Modern Problems of Catalysis: A Glance from Russia

11:00-11:30 **Wha-Seung Ahn** (Inha University, Korea)
Carbon Dioxide Capture Using Nanoporous Materials

11:30-12:00 **Michael Stockenhuber** (University of Newcastle, Australia)
Characterisation and Reactions over a Novel Basic Microporous Catalyst

12:00-14:00 **Lunch**

14:00-14:30 **Vernon Gibson** (BP International Ltd, UK)
Catalysis Science and Technology, Some Challenges from the Fuels Market

14:30-15:00	José M. López Nieto (Instituto de Tecnología Química, UPV-CSIC, Spain) Oxidative Dehydrogenation of Short Chain Alkanes. New aspects in the Development of Effective Catalysts
15:00-17:30	IACS Meeting / Labs Tour
18:00-19:30	Dialogue Forum

Saturday, June 5, 2010

08:30-09:00	Michael Bowker (Cardiff University, UK) Adventures in Catalytic Nanospace: Fabrication, Imaging and Reactivity of Nanoparticles
09:00-09:30	Sergio Fuentes Moyado (Universidad Nacional de Mexico, Mexico) Overview of Catalysis in Iberoamerican Countries
09:30-10:00	Can Li (Dalian Institute of Chemical Physics, CAS, China) Photocatalytic Production of Solar Fuels: Challenges and Opportunities
10:00-10:30	Coffee Break
10:30-11:00	Thomas Maschmeyer (University of Sydney, Australia) Syntheses of MoS ₂ Nanostructures in Ionic Liquid Media and their Application as Hydrogen Evolution Reaction Electrocatalysts
11:00-11:30	Seong Ihl Woo (Korea Advanced Institute of Science & Technology, Korea) One Step Synthesis of N-doped-CNTs Grafted on Fe/C Catalyst through Pyrolysis of Dicyandiamide on Fe ₂ O ₃ /C for Electrochemical Oxygen Reduction Reaction
11:30-12:00	Xinhe Bao (Dalian Institute of Chemical Physics, CAS, China) Catalysis of Interface-Confined Active Sites
12:00-14:00	Lunch
14:00-14:30	Bert Weckhuysen (Utrecht University, The Netherlands) Playing the Catalysis Murder Mystery Game: Whodunit?
14:30-15:00	Michael Claeys (University of Cape Town, South Africa) Development of a Magnetometer for Operando Catalyst Characterization
15:00-15:30	Francine Agbossou-Niedercorn (Université Lille 1, France) Recent Developments in Green Molecular Chemistry in France
15:30-16:00	Coffee Break

16:00-16:30	Mingyuan He (SINOPEC; East China Normal University, China) Progress of Zeolite Catalysis in Green and Sustainable Refining and Petrochemical Technology
16:30-17:00	Lazechar A. Petrov (King Abdulaziz University, Kingdom of Saudi Arabia) Catalyst for Selective CO Oxidation in Hydrogen Stream
17:00-17:30	Justin Hargreaves (University of Glasgow, UK) Interstitial Nitrides – Reservoirs of Activated Nitrogen?
18:30	Banquet

Sunday, June 6, 2010

08:30-09:00	Kazunari Domen (University of Tokyo, Japan) Visible Light Induced Overall Water Splitting on Heterogeneous Photocatalysts
09:00-09:30	Eduardo A. Lombardo (Universidad Nacional del Litoral, Argentina) Breakthroughs in Catalysts and Membrane Materials Play Central Roles in Hydrogen Production and Purification
09:30-10:00	François Garin (LMSPC– UMR 7515 CNRS – ECPM – UDS, France) Perspectives in Catalysis: to Find Substitutes to Noble Metals for Various Reactions
10:00-10:30	Coffee Break
10:30-11:00	Johannes A. Lercher (Technische Universitaet Muenchen, Germany) Elementary Steps of Bifunctional Catalytic Conversion of Lignocellulose in Aqueous Phase
11:00-11:30	Sonia Damyanova (Institute of Catalysis, Bulgarian Academy of Sciences, Bulgaria) Production of Alternative Fuels from Renewable Carbon-Containing Feedstocks: Biogas Reforming
11:30-12:00	András Erdőhelyi (University of Szeged, Hungary) Steam Reforming of Ethanol
12:00-14:00	Lunch
14:00-14:30	Martin Muhler (Ruhr-University Bochum, Germany) What Can Heterogeneous Catalysis Contribute to Electrocatalysis?
14:30-15:00	Benjaram M. Reddy (Indian Institute of Chemical Technology, India) Design of Novel Nanosized Ceria-Based Mixed Oxides for Catalytic Applications
15:00-15:30	Closing ceremony