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CONFERENCE SECRETARIAT

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Please visit:

<http://www.icoscar4.com>

for more details (available very soon)

- to submit abstract and manuscript

- to register

- to read the program

- to find information about the venue

- to see the updates

Second Circular and Call for Papers

ICOSCAR-4



4th International Conference on STRUCTURED CATALYSTS

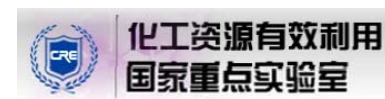
AND REACTORS

September 25-27, 2013 Beijing, China

Promoted and organised by

State Key Laboratory of Chemical Resource Engineering

Beijing University of Chemical Technology



<http://www.icoscar4.com>

SCOPE OF THE CONFERENCE

Following the previous success of ICOSCAR (International Conference on Structured Catalysts and Reactors) series where ICOSCAR-1 (2001) and ICOSCAR-2 (2005) were held in Delft, and ICOSCAR-3 (2009) was held in Ischia, ICOSCAR-4 will take place in Beijing, September 25 -27, 2013, aiming to bring together both academics and industrialists worldwide to exchange new ideas and applications in this field. This conference will cover all aspects of structured catalysts and reactors, including monoliths, cross-flow structures, foams, catalytic membranes, microreactors and many others. In line with its traditional format, the conference will be a three-day event comprising oral and poster presentations.

BACKGROUND

Structured catalysts and reactors have been becoming significant process intensification technologies in gas-solid and gas-liquid-solid reactions due to the unique advantages that they offer in hydrodynamics, transport phenomena, and reaction kinetics in comparison with traditional pellet packed-bed reactors. Because of this, a multi-disciplinary study on structured catalysts and reactors is emerging involving chemistry, chemical engineering, environmental engineering, energy engineering and powder engineering. This is rarely encountered in other research fields.

In practice, monolith structures have been widely used to deal with automobile exhaust gases, flue gas from power plants, catalytic combustion, etc., while open cross-flow structures were the earliest in the family of structured catalysts and reactors to be used in chemical engineering for catalytic distillation at large scale, which, of course, can be extended to other countercurrent or concurrent operations, coupling reaction and separation. In addition, structured microreactors can be used to produce nanoparticles as well as fine chemicals. We anticipate that more applications will be exploited in this exciting field. From the scientific viewpoint, it is still required for chemists to explore the structure-performance relationship at microscopic scale so

as to find new catalytically active species and substrates. On the other hand, also the structure-performance relationship at macroscopic scale should be considered from an engineering viewpoint due to the regular arrangement of structured catalysts/reactors in nature. The study on the design, operation and optimization of structured catalysts and reactors is also necessary to develop mature technology for future applications.

TOPICS

Contributions are now invited on, but not limited to, the areas listed below:

1. *New developments in geometrical configurations, materials and manufacturing technologies of structured substrates*
2. *Preparation and characterization of structured catalysts*
3. *Kinetics and transport phenomena in structured catalysts*
4. *Modeling and scale-up of structured reactors and microreactors*
5. *Structured catalysts and reactors for innovative environmental, automotive and energy applications*
6. *Design, operation and control of structured catalysts and reactors*
7. *Structured catalysts and reactors in intensification of industrial processes*
8. *Scaling-up technology matching with structured catalysts and reactors*
9. *Other innovative developments related to structured catalysts and reactors*

PUBLICATION POLICY

Accepted papers will be published by Elsevier in a special issue of *Catalysis Today*, which will be distributed to the Conference participants.

ABSTRACTS SUBMISSION

Authors wishing to present a contribution are asked to prepare a two page abstract, and submit through e-mail to icoscar4@126.com

The deadline is October 31, 2012

The abstract must indicate the complete addresses and e-mail of each

author. Authors are also requested to indicate the topic to which the abstract belongs. The conference presentation language will be English.

KEY DATES

October 1, 2012 (*postponed October 31, 2012*)

Abstract submission

October 31, 2012 (*postponed November 30, 2012*)

Notification of acceptance of abstract and format of presentation

February 28, 2013 (*postponed March 15, 2013*)

Full paper submission deadline

May 1, 2013

Information to Authors on paper acceptance

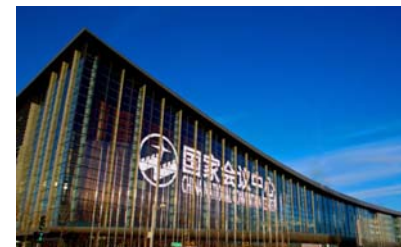
June 1, 2013

Final deadline for receipt of revised camera ready manuscripts.

Registration deadline for authors to have the paper included in the special issue.

VENUE

ICOSCAR-4 Conference will be held at China National Conventional Center, Beijing, China.



Beijing is the nation's political, economic, cultural and educational center in China. The best season is late spring and autumn. Beijing is home to the biggest central square in the world - Tian'an men Square; the Forbidden City, which is the largest and best-preserved imperial palace complex; a superbly preserved section of the Great Wall, as well as the largest sacrificial altar complex in the world – the Temple of Heaven. Beijing attracts both domestic and foreign visitors to come to wonder at its century-old history and unique cultural relics.