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CONFERENCE SECRETARIAT

All correspondence should be addressed to AIDIC Secretariat
Attn. Manuela LICCIARDELLO
Via Giuseppe Colombo 81/A
20133 Milano (Italy)
Phone: +39-02-70608276
Fax: +39-02-59610042
e-mail: icoscar3@aidic.it

Please visit:

<http://www.aidic.it/icoscar3>

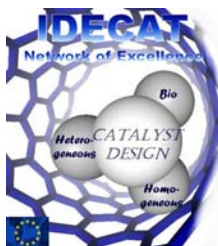
- to submit abstract and manuscript
- to register
- to read the program
- to find information about the venue
- to see the updates



PARTNERSHIPS



Gruppo Interdivisionale di Catalisi



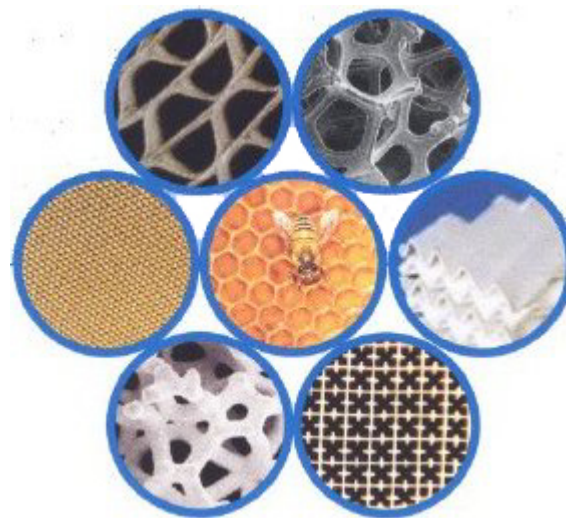
Integrated Design of Catalytic Nanomaterials for a Sustainable Production

AIDIC

Promoted and organised by
The Italian Association of Chemical Engineering

Second Circular and Call for Papers

ICOSCAR-3



3rd International Conference on STRUCTURED CATALYSTS AND REACTORS

September 27-30, 2009 Ischia, Naples Italy

Supported by



Politecnico di Milano

<http://www.aidic.it/icoscar3>

SCOPE OF THE CONFERENCE

Following two earlier workshops on monolithic catalysts organized by the Boreskov Institute of Catalysis in Novosibirsk and two previous ICOSCAR editions held in Delft, the aim of ICOSCAR-3 is to bring together again both academics and industrialists who take interest in structured catalysts and reactors. We hope to welcome a wide representation of both chemists and chemical engineers carrying out research in the field. Various types of structured catalysts, including monoliths, open cross-flow structures, foams, catalytic membranes and many others, will be presented and discussed during the conference. In line with its traditional format, the conference will be a three-day event consisting of oral presentations and poster sessions. In addition, several keynote lectures are envisaged.

BACKGROUND

Spatially structured systems, extensively represented in biology, play a significant growing role also in chemistry, catalysis and chemical technology. From the scientific viewpoint the ability to replace the random structures and processes with the ordered ones presents a highly challenging issue, with application potential extending from material engineering and precision technology to the life sciences and medicine.

Structured catalysts and reactors appear to be one of the most significant and promising developments in the field of heterogeneous catalysis and chemical engineering of the recent years.

They have already found numerous applications ranging from car afterburners (this way monolithic converters became the most widespread type of catalytic reactors) to large-scale chemical technologies for environmental protection. In order to comply with the current and upcoming polluting emissions regulations for Diesel vehicles, the automotive industry nowadays relies on innovative oxidative and deNO_x structured catalytic converters, integrated with particulate filters.

Structured catalysts can also greatly intensify chemical processes, resulting in smaller, safer, cleaner and more energy efficient technologies. Multifunctional reactors, in which chemical conversion is advantageously integrated with

another unit operation, are largely based on structured catalytic systems, such as open crossflow catalysts for reactive distillation units or catalytic membranes for membrane reactors. Microreactors are another area of growing interest which relies on structuring of catalysts.

TOPICS

We anticipate contributions primarily in the areas listed below, but would also like to encourage novel developments not explicitly covered in this list:

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. *Structured catalysts and reactors in intensification of industrial processes*

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 maximum one page abstract to be submitted **ONLY** by web-page to the Conference Secretariat
<http://www.aidic.it/icoscar3>

The deadline is January 15th 2009

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.

KEY DATES

January 15th, 2009

Abstract submission

February 15th, 2009

Information to Authors on abstract acceptance and format of presentation

March 30th, 2009

Submission of camera ready manuscripts

May 15th, 2009

Information to Authors on paper acceptance

June 1st, 2009

Final deadline for receipt of revised camera ready manuscripts. Registration deadline for authors to have the paper included in the programme and proceedings

VENUE

ICOSCAR-3 Conference will be held at

Hotel Continental Terme****

Via Michele Mazzella, 74

80077 Ischia, Naples, Italy



Ischia is famous all over the world and doesn't need presentations.

This island has many thermo-mineral springs, known for their curative effects since the VII century b. C., because of its volcanic origin.

An interesting thermal water basin is situated on the axis connecting the extinct volcano of Fiaiano with the "Fishermen's Beach" at Ischia Ponte. Right in this area, in the locality known as "FONDO BOSSO", is Hotel Continental Terme.

The unusual fascinating architecture expressed in Mediterranean style buildings, the 30,000 sqm large surrounding park, the spacious interiors, the boutiques and an uncommon range of services make the HOTEL CONTINENTAL TERME an island of comfort and beauty nestling in the heart of Ischia.