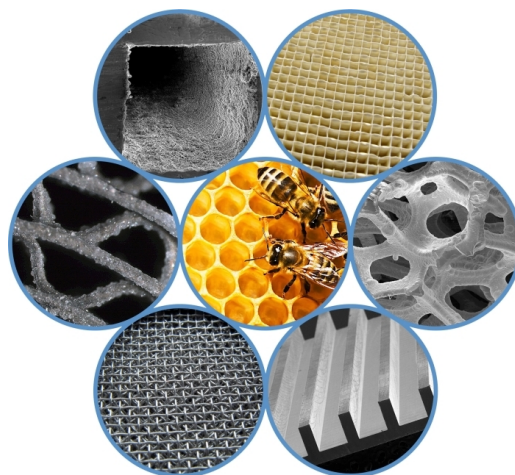




ICOSCAR5. 5th International Conference on Structured Catalysts and Reactors



21.Jun - 24.Jun 2016

Cód. 095-16

Mod.:

Presencial

Edición

2016

Tipo de actividad

Workshop

Fecha

21.Jun - 24.Jun 2016

Ubicación

Palacio Miramar

Idiomas

Inglés

Validez académica

40 horas

Web

<http://icoscar5.weebly.com/>

DIRECCIÓN

Mario Montes Ramírez

Comité Organizador



Descripción

Structured catalysts and reactors have become significant process intensification technology in catalytic gas and gas-liquid reactions due to the unique advantages that they offer for heat and mass transfer, and reaction kinetics in comparison with more conventional reactors. Due to this, a multi-disciplinary study on structured catalysts and reactors is emerging involving chemistry, chemical engineering, environmental engineering, energy engineering and materials engineering. This is rarely encountered in other research fields. In practice, monolithic 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 counter-current or co-current operations, coupling reaction and separation. Moreover, structured microreactors can be used in fuel processors as well as to produce fine chemicals, but exciting new applications can be expected in this field. From the scientific point of view, it is still required to explore the microscopic relationship between catalytic active phases, carriers and structural substrates in order to understand the catalytic performance. New catalytic coating methods adapted to complex substrate geometries and novel manufacturing technologies, as additive manufacturing should be explored to improve current processes and offer new solutions to new challenges of the chemical and energy sectors. Modeling and simulation of structured systems remains a great need for effective control of these processes and to explore new geometries that will be possible with the new manufacturing methods of production, guiding the process optimization of complex systems.

Objetivos

In 2001, the first International Conference on Structured Catalysts and Reactors, was held in Delft, Netherlands. Fifteen years later, we celebrate ICOSCAR once again, bringing together both academics and industrialists worldwide to cover the most advanced research topics in the field. The exchange of ideas and applications will set the basis for present and future research challenges.

We welcome a wide representation of both chemists and chemical engineers carrying out research in the field. Different types of structured catalytic systems will be covered from monoliths, cross-flow structures, foams or meshes to microreactors or membrane reactors, and from preparation techniques to catalytic tests, modeling and simulation. The three-day format will include keynote lectures, oral presentations and poster sessions.

We hope to make ICOSCAR5 a memorable conference and we look forward to seeing you all in 2016 in Donostia-San Sebastian, Spain, the 2016 European Capital of Culture.

Website of the congress: <http://icoscar5.weebly.com/>

Colaboradores específicos del curso



Universidad del País Vasco
Euskal Herriko Unibertsitatea
The University of the Basque Country

Dirigido por:



Mario Montes Ramírez

Precios matrícula

MATRÍCULA	HASTA 04-04-2016	HASTA 23-06-2016
Miembro del Comité Organizador	0 EUR	0 EUR
Matrícula (1 día)	250,00 EUR	300,00 EUR
Estudiante	300,00 EUR	350,00 EUR
Delegado Académico y de la Industria	500,00 EUR	550,00 EUR

Lugar

Palacio Miramar

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa