

13th Mediterranean Congress in Chemical Engineering (13MCCE) will take place in Barcelona, Spain, in the frame of the international fair of the Chemical Industry EXPOQUIMIA from 30th September to 3rd October, 2014. The Congress will cover all aspects and results related to Chemical Engineering, from application in areas as Sustainable Development and Environmental Engineering,

Food and Biochemical Engineering and Process and Product Engineering and in classic areas as Separation Technologies, Chemical Reactors and Processes. Besides, present and future of the academic and professional career will be considered as main discussion subject, regarding to the new education and economic paradigms the sector is facing in Europe and all over the world.

## **CONGRESS COMMITTEES**

#### **ORGANIZING COMMITTEE**

#### Chairpersons

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Vocals

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SEQUI

de Catalunya

Universitat de Barcelona

Col.legi de Químics - ANQUE

Col·legi Oficial d'Enginyers Industrials

#### **SCIENTIFIC COMMITTEE**

#### Chairpersons

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Universitat de Barcelona Universidad Complutense de Madrid

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Irabien, Ángel Lema, Juan Lora, Jaime Marcilla, Antonio Martin Belloso, Olga Martín del Valle, Eva Ortiz, Inmaculada Plesu, Valentín Puigjaner, Luís Rodrigo Rodrigo, Manuel Andrés Rodríguez, Juan José Sales, Diego Santamaría, Jesús Santos, Aurora Sastre, Ana María Sotelo, Jose Luis Van Grieken, Rafael Vicente, Manuel

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Universidad de Cantabria

## **SCIENTIFIC PROGRAM**

#### **INAUGURAL LECTURE**

Achieving more sustainable solutions through process intensification

Rafiqul Gani (Technical University of Denmark)

## **PLENARY LECTURES**

**Process Systems Engineering: Current and Future Contributions** to Chemical Engineering

Gintaras V. Reklaitis (Purdue University)

Iron as an electron acceptor for biogeochemical transformations of pollutants in groundwater and soils

Peter Jaffe (Princeton University)

Nanoparticle-Stabilized Emulsions for Catalytic upgrading of bio-oil

Daniel Resasco (University of Oklahoma)

La ingeniería del futuro

José Antonio Garrido (Bilbao Metropoli-30)

Chemical Engineering and Sustainable Development: Shaping our Future

Adisa Azapagic (University of Manchester)

## **ROUND TABLES**

Participants:

El Papel de la Ingeniería Química en el Modelo Productivo

Eva Martín del Valle (Universidad de Salamanca) Chairperson:

Participants: Ricardo Bravo (Aerisnet) Jesús Arauzo (Abengoa)

José Antonio Garrido (Bilbao Metropoli-30)

**Sustainable Chemical Engineering: Resources Optimization** 

Juan José Rodríguez (Universidad Autónoma de Madrid) Chairperson: Ángel Irabien (Universidad de Cantabria)

Adisa Azapagic (University of Manchester)

Acciona Representative (Resource Water) Sener Representative (Resource Energy)

Situation of Chemical Engineering Education

Jaume Giménez (Universidad de Barcelona) Chairperson:

Arturo Romero (Universidad Complutense de Madrid) Participants:

Rafael Van Grieken (ANECA) Juan Andrés Legarreta (UNIBASO)

Rosa Nomen (IOS)

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## PRESENTATION OF THE COMMUNICATIONS

The communications will be presented mainly as poster. Around 200 communications will be selected to be presented in oral form as 12 minutes keynotes. The classification of communications will be accordingly the congress topics.

#### **TOPICS**

#### 1. Chemical Engineering Fundamentals

- 1.1 Applied Thermodynamics, Fluid Dynamics, Heat Transfer
  - Thermodynamics and Transport Properties
  - Mixing, Rheology, Multiphase Flow and Fluid Flow Modelling
- 1.2 Separation Techniques
  - Distillation, Absorption, Extraction
  - Membrane Separation, Molecular Separation, Chromatography
- 1.3 Chemical Reaction Engineering
  - Kinetics
  - Catalysis
  - Chemical Reactors

#### 2. Chemical Engineering for Sustainable Development

- 2.1 Natural Resources Sustainability
  - Energy, water and materials
  - Green Chemistry and Engineering
  - Life Cycle Assessment
  - Renewable Raw Materials and Waste Valorization
- 2.2 Environmental Technology and Risk Analysis
  - Process Safety Management
  - Waste Minimization and Treatment
  - Advanced Techniques for Effluent Treatment
  - Hazardous wastes and Soil Remediation

#### 3. Applied Chemical Engineering

- 3.1. Food Engineering
  - Food Technologies. Innovations in Food Processing
  - Food Packaging Technologies and Food Storage
  - Food Safety
- 3.2 Process and Product Engineering
  - Molecular and Process Modelling, Simulation and Optimization, CAPE
  - Process Intensification
  - · Supply chain management & business decision support
  - Product Design and Development
  - Polymer and Solid Processing
- 3.3. Chemical Engineering Education
  - New competences demanded from chemical engineers
  - Education for entrepreneurship
  - New Tools in Chemical Engineering Education

#### 4. Emerging Technologies in Chemical Engineering

- 4.1 Materials and Particle Technology
  - Carbon Materials Ceramics and Composites
    - Emulsions
  - Encapsulation. Materials for Packaging
- 4.2. Biotechnology and Biochemical Engineering
  - · Applied Biocatalysis
  - Bioreactors, Separation Processes, Integrated Bioprocesses
  - Biomedical Applications, Bioinformatics, Biomolecular
- 4.3. Biomedical and Pharmaceutical Engineering • Design of Pharmaceutical Products and Processes
  - Personal care products
- 4.1 Materials and Particle Technology
  - Nanomaterials processing
  - · Nanomedicine and drug delivery Microdevices and microreactors
  - Plant on a chip

#### **ABSTRACT INSTRUCTIONS**

The selection of the submitted communications will be made as a basis of the DIN A4 one-page abstract of the work. We strongly recommend submitting the abstract in English.

Each abstract has to be sent in electronic format as a separated file, in Microsoft Word format, before 30th April 2014, through the Congress website http://www.ub.edu/congmedit. Authors interested in presenting their works are asked to strictly observe the

presentation deadlines in order to lighten the program selection and elaboration tasks of the Scientific Committee.

All authors presenting papers should register when submitting the abstract via internet through the Congress website.

#### **GUIDELINES**

The abstract must follow the guidelines:

- Abstract title in bold capital letters Times New Roman, 12 points.
- Line feed (single space).
- Name of authors and address, including telephone, fax and e-mail of the author presenting the communication - Times New Roman, 12 points.
- Line feed (single space).
- Scientific topic of the work, according to the Scientific Programme Time New Roman, 12 points.
- Line feed (single space).
- Text allowing the evaluation of the scientific and technical interest of the communication. The abstract may contain figures and bibliography. Graphical resolution for figures may not exceed 300 dpi with captions in Times New Roman, 10 points.

## PRACTICAL INFORMATION

#### CONGRESS SCIENTIFIC SECRETARIAT

All requests concerning to the scientific program or organization will be addressed to:

Ms. Núria Basset, Ms. Mireia Marcé or Ms. Ana Justo 13th Mediterranean Congress on Chemical Engineering

Chemical Engineering Department Faculty of Chemistry -University of Barcelona-

Martí i Franquès 1, planta 6

08028 Barcelona, Spain +34 600 045 629; +34 600 045 637

Tel +34 93 402 1291 Fax congmedit@ub.edu E-mail

NOTE: During EXPOQUIMIA, the secretariat office will be located in the Gran Via M2 premises, where the congress will take place. Contact telephone will remain the same.

#### **RECEPTION AND INFORMATION**

The Congress will take place at Gran Vía Venue, Pavillion 3. These facilities are part of Fira Bcn and are located at L'Hospitalet de Llobregat, connected to Barcelona in a few minutes by FGC trains.

In order to get the access card to EXPOQUIMIA and to the Congress premises (Gran Via 2, Pavilion 3), participants should enter Gran Via Venue by Europa Entrance, just next to FGC Station. Your name and the payment receipt will be required. Congress documentation will be delivered at Pavilion 3, were a specific desk of the Organizing Committee will be set next to conference rooms.

#### **INSTRUCTIONS FOR REGISTRATION**

Presenting authors should register before 1st June 2014 by filling the form available at the Congress website http://www.ub.edu/congmedit. The payment could be by bank transfer accordingly to the instructions that will be provided at this Congress website (paying deadline for presenting authors 1st September 2014).

Regular registration should be paid before 26th September 2014 by bank transfer, like in the previous case.

For further information concerning registration, you can address your questions to Ms. Núria Basset: Ms. Mireia Marcé or Ms. Ana Justo (Tel: +34 600 045 629; +34 600 045 637; email: congmedit@ub.edu)

All authors presenting papers should register when submitting the abstract via internet through the Congress website. Each registered author may present a maximum of two abstracts. Full registration for presenting authors must be paid before 1st September 2014.

#### REGISTRATION FEES\*

	Until 31/07/14	01/08/14
General Rate	525€	600€
SEQUI Associates and Expoquimia Exhibitors	395€	475€
Students (Reduced Rate)**	195€	235€

The inscription fee includes:

- · Access to Congress Sessions: conferences, communications,
- Congress Documentation: Book of Proceedings, final
- program and list of participants Cold meals for days 1st and 2nd October 2014 (available vegetarian menu, please, contact organization committee)
- · Closure cocktail
- Free admission to EXPOQUIMIA

The inscription fees do not include:

Gala Dinner **50€** (inscription through the Congress registration procedure)

- VAT included
- \*\* The reduced rate is addressed to the PhD Students and young researchers. To benefit from it, they should submit by fax (+34 93  $402\ 1291)$  or ordinary email (congmedit@ub.edu) a Certification issued by the Department Head indicating the student's situation.

#### **PAYMENT OPTIONS**

Bank transfer: Payments can be made by bank transfer according to this data.

Bank name: Banc Sabadell

Account Number 0081 0900 81 0003775686 SWIFT / BIC: BSABESBB

IBAN: ES27 0081 0900 8100 0377 5686 Reference: Congmedit - name and last name

## Any transaction cost should be covered by the attendant.

A scanned payment proof by e-mail to congmedit@ub.edu or by Fax +34 93 402 1291 is required.

#### **NEW INFORMATION**

Any new and change will be immediately updated in the Congress website:

http://www.ub.edu/congmedit

#### **CONGRESS LANGUAGES**

The official Congress Languages are Spanish, Catalan and English. Translation support will be not available.

### CONGRESS PROCEEDINGS

Digital Proceedings will be published and distributed to the registered participants in a flash memory stick.

#### **IMPORTANT DEADLINES**

#### 30/04/2014

Abstract submission through the Congress website http://www.ub.edu/congmedit

# 01/06/2014

End of registration period for authors presenting communications

#### 15/07/2014

Communication of the abstract acceptance to the authors

#### 31/07/2014 End of reduced registration fees period

01/09/2014

## Payment deadline (only presenting authors)

26/09/2014 Registration and payment deadline

## 30/09/2014 - 3/10/2014

13th Mediterranean Congress of Chemical Engineering

