

CALL for PAPERS

AIDIC

The Italian Association of Chemical Engineering

Invites you to join



ICheaP-11

2-5 June 2013-Milan, Italy

11th International Conference on
Chemical & Process Engineering



Acknowledgment



Politecnico di Milano

VENUE

ICheaP-11 International Conference will be held at

ATAHOTEL EXECUTIVE

Viale Don Luigi Sturzo, 45
20154 Milano - Italy

Located in a strategic and privileged position, close to the Porta Garibaldi Railway Station, the Viale Certosa highway exit and in the heart of Milan's nightlife (Corso Como and Brera area), the Atahotel Executive is a modern and comfortable 4 star hotel. The hotel offers many amenities either for business travellers or for people wishing to explore the city while staying in a cozy environment. Well connected to public transport, the underground station (green line MM2) is only 50 meters from the hotel. Guests staying at the Atahotel Executive may therefore easily have access to main points of interest in Milan and at the same time enjoy Milan's nightlife.

There are many services you can benefit from: wi-fi, car rental, restaurant and business center with 18 conference rooms (which can accommodate up to 800 persons) equipped with all facilities. The Hall's fine interiors and elegant design and the 420 modern and spacious rooms offer a pleasant experience for those visiting Milan for business or pleasure.

Distances summary

- Green line subway - Garibaldi stop: 0,1 km
- Milano Porta Garibaldi railway station: 0,1 km
- Central railway station: 1,8 km (from here you can take the bus which connects Milan to Malpensa or to Orio al Serio)
- Linate Airport: 9 km
- Malpensa Airport (from P.le Cadorna, green line subway, you can take the shuttle Malpensa Express which connects Milan to the hub): 50 km

KEY DATES

- | | |
|--------------------------------------|---|
| October 15th, 2012 | Abstract submission |
| October 31st, 2012 | Information to Authors on abstract acceptance |
| February 8th, 2013 | Full manuscript submission for refereeing |
| March 15th, 2013 | Information to Authors on paper acceptance and format of presentation (poster / lecture) |
| April 8th, 2013 | Final revised manuscript submission and Registration deadline for Authors to have the paper included in the program and proceedings |
| May 8th, 2012 | Technical program |

SPONSOR

Companies and organisations willing to support the Conference are invited to contact the Secretariat for further information. Participants from industry are welcome.

INTERNATIONAL SCIENTIFIC COMMITTEE

Chairman Pierucci, S. (Politecnico di Milano, AIDIC)

Members

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ORGANIZING COMMITTEE

Chairman: Del Rosso, R. (AIDIC vp; Politecnico di Milano)

Members: Damerio R. (AIDIC); Licciardello M. (AIDIC); Mino U. (AIDIC); Pierucci S. (AIDIC; Politecnico di Milano)

CONFERENCE SECRETARIAT

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ABOUT THE CONFERENCE

ICheaP-11 is the eleventh event in a series of biannual events started in 1993 with "the first Italian Conference on Chemical and Process Engineering" organized by AIDIC, the Italian Association of Chemical Engineering.

However since the very beginning the non Italian participation was higher than the Italian one. The move to "International" corresponds, therefore, to a real status matured in all the previous events. It is expected, then, that the continuous participation of the past years will be maintained and enhanced also in this event. AIDIC however continues to invite all the Italian specialists to see this event as an opportunity to exchange up-to-the minute information on industrial needs, new technology developments and research opportunities. The previous events attracted leading Industrialists and Academics from all over the world and provided a state of the art on Chemical and Process Engineering. Conference Participation confirmed the International character and appeal reached by ICheaP-Series and demonstrated the need for having a permanent forum and record of International R&D activities.

CONFERENCE TOPICS

The major aim of **ICheaP-11** is to review the latest development, needs and issues on the thematic areas covered in general by emerging references of Chemical Engineering Science. Technical program is structured in parallel sessions; conference topics will be treated in invited plenary lectures, selected oral presentations and poster sessions.

Topic I REACTION ENGINEERING

- Chemical Reaction Engineering
- Chemical Engineering in the Application of Catalysis
- Polymer Reaction Engineering
- Biochemical Reaction Engineering

Topic II PARTICLE TECHNOLOGY

- Filtration and Separation
- Crystallization
- Mechanics and Particulate Solids
- Drying
- Comminution and Classification
- Characterization of Particulate Systems
- Agglomeration

Topic III ENVIRONMENT, SAFETY, ENERGY, QUALITY

- Loss Prevention, Risk Assessment, HSE Management Systems
- Process Development for Sustainable Environment
- Environmental Impact Assessment and Environmental Protection
- Green House Gases, Emission Trading

- Environmental Remediation
- Energy Saving in the Process Industries
- Quality Assurance, Quality Control, Quality Management Systems
- Carbon Dioxide as a valuable source of carbon for the chemical industry
- Waste processing and waste-to-energy systems

Topic IV NANOTECHNOLOGY

- Composites: Nanoparticles, Nanofillers, Nanoclays
- Coatings: Thin films, Surface characterization, Pigments
- Biomaterials: Drug delivery, medical imaging materials, implants, nanosensors
- Biofuel production trends and processes

Topic V FOOD

- Advances in food preservation technologies
- Emerging process technologies and equipments
- New technologies for improving food quality and safety
- Novel and functional products
- Structure properties relationships
- Sustainable food packaging
- Sustainable food production and distribution systems

Topic VI BIOTECHNOLOGY

- Biorefinery: Unit operations and Processing systems.
- Micro/minibioreactor design: Operation and relevance to Scale-up.
- Cell Manipulation and Process Operation: The impact of cellular changes on fermentation and downstream processing.
- Advances in Scaleup/scale down processes
- Stem Cell processing
- Biodegradable polymers production and processing
- Biomass as source of energy
- Anaerobic digestion processes
- Algae production and processing

Topic VII PROCESS SYSTEM ENGINEERING

- Off-Line Systems
- On-Line Systems
- Computational & Numerical Solutions Strategies
- Integrated and Multiscale Modelling and Simulation
- Computer Aided Process Engineering for the users, society and education

Topic VIII SEPARATION TECHNOLOGY AND TRANSFER

- Fluid separations
- High pressure technology
- Membrane separations
- Separation challenges in future fuels
- Green solvents, ionic liquids, biofuels
- CO2 capture
- Integrated, hybrid and novel separations
- Equipment design and revamp
- Process troubleshooting and handling operational problems

Topic IX FLUID MECHANICS AND TRANSPORT PHENOMENA

- Fundamentals - Multiphase Flows
- Microfluidics and nanofluidics
- Industrial Applications

Topic X CAPE-OPEN standards

- Process Modelling Components development and use
- Process Modelling Environments development and use
- Software issues

Topic XI PROCESS INDUSTRY

- Petrochemical and Refining Industry
- Fine Chemical and Pharmaceuticals
- Thermo-electrical Industry

Topic XII PRODUCTION AND PROPERTIES OF MATERIALS

- Polymers – Ceramics – Metals - Composites

Topic XIII THERMODYNAMICS AND INTERFACIAL PHENOMENA

- New Approaches, needs and trends
- Industrial Applications

ABSTRACT SUBMISSION

The official language of the conference is English.

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/icheap11> The deadline is **October 15th, 2012**

For each accepted abstracts the submission of a full paper is required.

PROCEEDINGS & PUBLICATION POLICY

The full set of accepted papers of ICheaP-11 Conference (in the form of short papers of 6 pages) will be published into **CET "Chemical Engineering Transactions"**, Vol. 32.

The quality of this publication is valued by ISBN & ISSN numbers, referenced by SCOPUS and THOMSON REUTERS (ISI Web of Knowledge, conference proceedings) citation indexes.



Each Paper in the volume is covered by a copyright assigned to AIDIC Servizi S.r.l. Each Paper is evaluated for acceptance by at least two Peer Reviewers.

Furthermore, registration to the Conference is mandatory for paper acceptance (one registration per paper).

Tentative registration fee is in the range of Euro 500/600, with discounts for PhD students.

POST CONFERENCE PUBLICATION

AIDIC also offers to ICheaP-11 registered Authors the opportunity to submit a full-length version (10-12 pages) of their paper for publication in a post conference volume included into **ACOS - AIDIC Conference Series** (ISBN & ISSN; DOI identification)

Selected papers will be notified after the Conference.

A copy of the volume will be sent for free only to the registered author of the selected paper.