

COMMITTEES

International Scientific Committee

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Klemes, J. (University of Pannonia, Hungary)

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Kondili E.; *Greece*/Kraslawski A.; *Finland*/
Kravanja Z.; *Slovenia*/ Lang P.; *Hungary*/Le Lann J. M.; *France*/
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/Srinivasan R.; *Singapore*/ Stephanopoulos G.; *U.S.A.*/
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Organizing Committee

Chairman Del Rosso, R. (AIDIC vp, Politecnico di
Milano) **Members** Damerio R. (AIDIC); Licciardello M.
(AIDIC)

SECRETARIAT

All the correspondence should be addressed to:

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KEY DATES

2010 September 14th, first Abstract Submission

2010 October 30th, Information to Authors on abstract
acceptance

2010 December 14th, Submission of camera ready
manuscript for refereeing

2011 February 14th, Information to Authors on final paper
acceptance and format of presentation

2011 March 14th, Registration deadline for Authors to
have the paper included in the program and proceedings

2011 March 14th, Last day for submission of eventually
revised manuscript

VENUE

ICheaP-10 & PRES'11 will be held at

Palazzo degli Affari

Piazza Adua 1, 50123 Firenze

www.firenzefiera.it



The exhibition and congress facilities of Firenze Fiera spa
are among the most important and best equipped in Italy
and they are located in the historical center of Florence.

Florence International Airport "Amerigo Vespucci" is
located 4 km from Florence city center.

Santa Maria Novella Central Station: 80/100 metres from
Palazzo degli Affari.



The Italian Association of
Chemical Engineering



ICheaP-10

The tenth International Conference on
Chemical and Process Engineering



8-11 May 2011
Florence, Italy



www.aidic.it/icheap10



The two conferences will be

COMMON IN:

Date and venue
Organizational items
Registration fee
Social programs

SEPARATE IN:

Scientific Committees
Acceptance of papers
Conference sessions
Proceedings

ABOUT THE CONFERENCE

ICheaP-10 is the tenth 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.

FORMAT AND TOPICS

The major aim of **ICheaP-10** 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

Topic IV NANOTECHNOLOGY

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

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 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
- Membranes
- Separation challenges in future fuels
- Green solvents, ionic liquids, biofuels
- CO2 capture
- Integrated, hybrid and multifunctional separations
- Equipment design and operation
- 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

Authors wishing to present a contribution are asked to prepare maximum one page abstract to be submitted online www.aidic.it/icheap10

First deadline is September 14th, 2010

PUBLICATION POLICY

The full set of accepted papers will be published as Proceedings into *Chemical Engineering Transactions*, and distributed at the Conference desk.

The quality of this publication is valued by ISBN & ISSN numbers, reference by SCOPUS and THOMSON REUTERS (ISI Web of Knowledge, conference proceedings) citation indexes. A DOI number is also assigned to each published paper.

The opportunity for publication in a post conference volume (*AIDIC Conference Series*) will be notified after the Conference.

The quality of this publication is valued by ISBN & ISSN numbers; a DOI number is also assigned to each published paper.