



Issue 3/2014, October 2014

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## CONTRIBUTE NOW TO ECCE10+ ECAB3 + EPIC5

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**ECCE10** will focus on new advances and opportunities within the core chemical and biochemical engineering disciplines, with emphasis on four main societal challenges:

- Energy: new and unconventional resources, conservation and management
- Water Management and Treatment
- Biotechnology and Food
- Industrial ecosystems

**ECCE10 will cover the following topics:** Bulk materials handling & processing; Chemical reaction engineering; Computer-aided engineering /Process systems engineering; Chemical reaction engineering; Education (workshop); Electrochemical engineering (workshop); Energy: conservation and management; Fluid separations processes and technologies; High pressure and high temperature process technology; Industrial systems; Industrial use of thermodynamics (symposium); Innovation; Membrane engineering; Mixing / Multiphase flow; New and unconventional resources; Particulate solids/solids processing; Polymer reaction engineering; Process safety and loss prevention (workshop); Product design and engineering (symposium); Sustainable management of natural resources (symposium); Soil remediation; Technological innovation for water management in the urban and industrial context (workshop); Waste sludges treatment and disposal.

**ECAB3 will cover the following topics:**

**Symposium of the European Academy of Food Engineering:** Sustainable food engineering, safety, packaging and preservation; Food processing, food structure; The cell factory, using bio active agents to renew operations and processes; Emerging sustainable technologies and combination of technologies; New biosynthetic strategies; Bioenergy - green chemistry - bio-based materials.

**Biochemical Engineering:** Biorefineries; Bioenergy, biofuels & renewable; bioproducts (or bio-based products); Biopharmaceuticals; Agro-food biotechnology; Marine biotechnology, algae and photobiotechnology; PAT; Systems biotechnology and metabolic engineering; Biocatalysis and biotransformation; Protein and enzyme stability; Downstream processing; Bioreactor engineering; Modelling and control; Biosensors; Cell and tissue engineering; Nanobiotechnology.

**Nine main themes have been retained for EPIC5:** Batch to continuous; Hybrid and multifunctional process; Energy activation; Plant intensification; Modular process; Scale-up & industrial implementation of intensified technologies; Modelling and control of intensified processes; Sustainability and safety; Dissemination and teaching of Process Intensification.

#### Key dates

- [Call for papers](#) - September 2014 to **27 February 2015**
- **Early bird registration:** November 2014 to May 2015
- **Author notification (abstract acceptance):** from December 2014 to April 2015
- **Author notification (poster or oral presentation or keynote lecture):** May 2015
- **Program on line:** June 2015

Website : [www.ecce2015.eu](http://www.ecce2015.eu)

## EFCE AWARDS

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### **Student Mobility Award 2015 - APPLY NOW!**

The EFCE is pleased to announce the **EFCE Student Mobility Award 2015**. The award is presented every two years to the best European students who have spent one or more semesters (< 30 ECTU) studying abroad.

The deadline for submission of applications is **28 February 2015**.

For further details, please visit the EFCE website at [http://www.efce.info/Student\\_Mobility\\_Award.html](http://www.efce.info/Student_Mobility_Award.html)

### **Calls for Nominations**

The following calls for nominations are open:

- [Young Researcher's Award in Mixing 2015](#)  
Deadline for submission of nominations: **20 January 2015**
- [Lifetime Recognition Award in Mixing 2015](#)  
Deadline for submission of nominations: **20 January 2015**
- [EFCE Excellence Award in Thermodynamics and Transport Properties 2015](#)  
Deadline for submission of nominations: **31 January 2015**
- [EFCE Excellence Award in Product Design and Engineering 2015](#)  
Deadline for submission of nominations: **28 February 2015**
- [EFCE Excellence Award in Membrane Engineering 2015](#)  
Deadline for submission of nominations: **31 March 2015**
- [EFCE Excellence Award in Chemical Reaction Engineering 2015](#)  
Deadline for submission of nominations: **31 March 2015**
- [EFCE Excellence Award in Process Intensification 2015](#)  
Deadline for submission of nominations: **1 May 2015**

The EFCE Excellence Awards recognise PhD theses (or papers), which demonstrate an outstanding contribution to research and/or practice. Each award consists of a certificate, a cash prize of EUR 1,500, a travel grant and fee waiver to attend the event where the award will be presented. The nominated PhD theses (or papers) must address a topic relevant to the respective field.

### **EFCE calls for Industrial Innovations in Process Intensification**

The European Federation of Chemical Engineering (EFCE) is pleased to announce the first **EFCE Process Intensification Award for Industrial Innovation** to be awarded for an outstanding example of industrial application in the field of process intensification.

The deadline for submission of nominations is **1 May 2015**.

For further details, please visit the EFCE website at

[http://www.efce.info/PI\\_Award\\_Industrial\\_Innovation.html](http://www.efce.info/PI_Award_Industrial_Innovation.html)

## EFCE EVENTS

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### **4<sup>th</sup> International Gas Processing Symposium**

Doha, Qatar, 26-27 October 2014 (EFCE Event No. 724)

Main theme: *Natural Gas and the World's Energy Mix*

The symposium aims to bring together key academicians and industrial experts to address the various challenges related to accessing, utilizing and processing of natural gas. The symposium will include oral and poster presentations, keynote lectures, workshops and an exhibition.

**Topics:** Energy Mix ; Environmental Challenges; Process Operations; Environmental sustainability including greenhouse gases (GHGs), VOC emissions, Flaring; Clean production and efficient use of natural resources and energy applications; Sustainable technologies for carbon sequestration and utilization; Efficient utilization of natural resources (Feedstock, Energy, H<sub>2</sub>O, etc.); Assessment of sustainability and life cycle analysis.

Symposium website: [http://www.qu.edu.qa/gpc\\_symposium/](http://www.qu.edu.qa/gpc_symposium/)

### **15<sup>th</sup> European Conference on Mixing**

St. Petersburg, Russia, 28 June - 3 July 2015 (EFCE Event No. 728)

The 15<sup>th</sup> European Conferences on Mixing, held in Saint Petersburg on 28 June to 3 July 2015, will be organised by the EFCE Working Party on Mixing and the Department of optimization of chemical and biotechnological apparatuses, Saint Petersburg State Institute of Technology, and chaired by Professor Rufat Abiev.

The conference provides a forum for presentations and interesting debates on the latest advances in theory and practice of mixing. Many new ideas, new applications and opinions of the world leading specialists will be subject to discussion.

**Conference sessions** will be on fluid mechanical fundamentals of mixing processes, chemically reactive flows and precipitation, single- and multi-phase mixing, mixing of complex fluids, suspensions and dispersions, mixing in process intensification, mixing in biotechnological applications, and advances in numerical simulation of mixing.

The Call for Papers is open. Deadline for abstract submission: **15 November 2014**

Conference website: <http://mixing15.eu>

### **PSE2015/ESCAPE-25**

Copenhagen, Denmark, 31 May - 4 June 2015 (EFCE Event No. 727)

12<sup>th</sup> PSE (PSE - Process Systems Engineering conference) and 25<sup>th</sup> ESCAPE (ESCAPE - European Symposium on Computer Aided Process Engineering) Joint Event would like to highlight the contributions of the PSE/CAPE community to the sustainability of the modern society. The event is aimed to establish the core products of PSE/CAPE, define the new and changing scope of our results, and the future challenges we face. During the conference the 25<sup>th</sup> anniversary of the ESCAPE-series, the 12<sup>th</sup> PSE conference and the 40<sup>th</sup> year of the Computers and Chemical Engineering journal will be celebrated. PSE2015/ESCAPE25 will provide a platform to anybody who has a good story, high scientific quality, interesting application and new significant development to tell. To achieve all this, a package of measures is envisaged including flexible registration fee; attractive scientific programme; world-wide participation; high industrial participation; and incentives for young researchers.

Three **plenary speakers** representing the regions of Asia, Europe and North America: Prof. Ignacio E. GROSSMANN, Carnegie Mellon University, Pittsburgh, USA; Prof. Ka Ming NG, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong; Prof. Kai SUNDMACHER, Max Planck Institute for Dynamics of Complex Technical Systems, Magdeburg, Germany.

**Topical areas:** Modelling, numerical analysis and simulation; Mathematical programming (optimization); Cyber-infrastructure, informatics and intelligent systems; Process and product synthesis/design; Process dynamics, control and monitoring; Abnormal events management and process safety; Plant operations, integration, planning/scheduling and supply chain; Enterprise-wide management and technology-driven policy making; Domain applications (molecular, biological, pharmaceutical, food, energy, and environmental systems engineering).

A special session on education with participation from EURECHA and CACHE will be organised as well.  
Symposium website: <http://www.pse2015escape25.dk/>

### **European Symposium on Chemical Reaction Engineering - ESCRE 2015**

Fuerstenfeldbruck near Munich, Germany, 27-30 October 2015 (EFCE Event No. 721)

Fifty-six years ago the first European Symposium on Chemical Reaction Engineering (ESCRE) was held in Amsterdam. After four symposia this conference series turned into the international symposium ISCRE, which is held biannually in Europe, America and Asia. So it was decided to start a renewal of ESCRE in 2015 in Germany (including the Annual Meeting of the ProcessNet subject division Reaction Engineering). The theme of the conference *CRE Proving Tomorrow's Solutions* emphasizes the necessity of Chemical Reaction Engineering - CRE to meet the future challenges, particularly in energy sciences and technology.

**Plenary speakers:** Rakesh AGRAWAL, Forney Hall of Chemical Engineering, West Lafayette, USA; Olaf DEUTSCHMANN, Karlsruhe Institute of Technology (KIT), Germany; John C. HEMMINGER, University of California, Irvine, USA; Johan HOORN, DSM, Geleen, Netherlands; Dmitry Yu. MURZIN, Åbo Akademi University, Turku/Åbo, Finland; Kim B. MC AULEY, Queen's University, Kingston, Canada; Suojiang ZHANG, Chinese Academy of Sciences, Beijing, China

**Topics:** Reaction engineering fundamentals; Multiphase systems; Catalytic engineering; Micro reaction engineering; Polymer reaction engineering; Reaction engineering of fossil fuels; Photo- and electrochemical engineering; Reactor engineering; CO<sub>2</sub> utilization; Biomass conversion; Industrial frontiers.

**The Call for Papers will open soon.** Deadline for abstract submission: **14 January 2015**

Symposium website: <http://www.dechema.de/escres2015.html>

### *Note in your diary - EFCE Events in 2016 and 2017!*

#### **15<sup>th</sup> International Symposium Loss Prevention and Safety Promotion in the Process Industries**

Freiburg, Germany, 5-8 June 2016 (EFCE Event No. 718)

Symposium website: <http://www.lp2016.eu>

#### **10<sup>th</sup> World Congress of Chemical Engineering - WCCE10**

Barcelona, Spain, 1-5 October 2017

Congress website: <http://www.wcce10.org/>

An extended list of events is available at <http://www.efce.info/events.html>.

## **SCIENCE AND TECHNOLOGY**

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### **CAPE Forum - Computer Aided Process Engineering**

Paderborn, Germany, 27-29 April 2015

The CAPE Forum 2015 will provide a discussion platform for young and experienced scientists, with the aim to employ Computer Aided Process Engineering (CAPE) as a key approach towards economically and ecologically benign technologies. The event is organised under auspices of the EFCE Working Party on CAPE and with the support of the EU-project EFENIS. Organisation and coordination is taken over by the Chair of Fluid Process Engineering of the University of Paderborn.

**Key topics:** Process data acquisition; Optimization methods; CFD - Computational Fluid Dynamics; Process integration; Further CAPE-related topics are welcome.

**The Call for Papers is open.** Deadlines for paper submission: **31 October 2014**

For detailed information, please visit the website <http://www.upb.de/cape2015>

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## News from EFCE Member Societies

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### IChemE Medals 2014

The 2014 round of IChemE's medals programme is now open for nominations.

This year, IChemE has significantly expanded the range of its medals with the addition of seven new medals that recognise academic and research achievements.

IChemE's new and current medals are now listed:

- The Career Achievement medal - recognises sustained outstanding research contributions in chemical engineering across an individual's career
- The Early Careers medal - recognises up and coming researchers active in any research area within chemical and process engineering
- The Research in Particle Technology medal - significant recent contribution to research in particle technology
- The Research in Separations medal - awarded to one or more individuals from academia or industry that have made a significant, recent contribution to research in the area of separation
- The Research in Thermodynamics and Complex Fluids medal - significant recent contribution to research in thermodynamics and/ or complex fluids
- The Research in Transport Phenomena medal - major contribution to research in the area of transport phenomena
- The Research in Computer Aided Product and Process Engineering medal - significant recent contribution to research in computer-aided product and process engineering
- The Council medal - recognises exceptional service on an IChemE special project
- The Arnold Greene medal - awarded for long term contribution to the progress of IChemE
- The Macnab-Lacey prize - awarded to the best student design project that shows how chemical engineering practice can contribute to a more sustainable world
- The Hanson medal - awarded to best contributor to the Institution's magazine tce (the chemical engineer)
- The Warner medal - awarded to an individual that shows exceptional promise in the field of sustainable chemical process technology, nuclear technology or in making chemical engineering more accessible to a wider scientific community
- The Ambassador prize - awarded to an IChemE member who has made an exceptional contribution to the Institution
- The Senior Moulton medal - recognises the most outstanding journal paper published by IChemE over the last year
- The Junior Moulton medal - recognises the most outstanding journal paper published by IChemE over the last year by an author, or co-author who has graduated within the last ten years at time of submission
- The Hutchison medal - awarded for practical and wide-ranging, philosophical or thought-provoking published papers
- The Brennan medal - awarded to author(s) of the best book published by IChemE
- The Collier medal - awarded in energy and public understanding
- The Andrew medal - recognises a major contribution in the field of heterogeneous catalysts
- The Donald medal - awarded for outstanding services in biochemical engineering
- The Hinchley medal - awarded by Imperial College London to the best student in their graduating class
- The Hebden medal - outstanding service in the field of gasification research, development and commercialisation
- The George E Davis medal - recognises an eminent individual within the profession
- The Franklin medal - recognises outstanding service in occupational health, safety, loss prevention and care for the environment

- The Jack Loftus medal - awarded for outstanding contribution in the field of project management
- The Frank Lees medal - awarded for the most outstanding journal article on safety and loss prevention in an IChemE publication

For full details of the medals programme, deadlines and requirements for the various categories, visit <http://www.icheme.org/medals>

IChemE expects to see strong support for both the new and the existing medals. If you wish to nominate anyone for any of the medals, get in touch. IChemE welcomes nominations from around the world and across the chemical engineering community. Nominations are open to members of IChemE as well as non-members. IChemE also accepts self-nominations.

To nominate, [click here](#)

The deadline for nominations is **31 October 2014**

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Every effort is made to ensure the factual accuracy of the content of this e-newsletter, but EFCE cannot accept any responsibility for errors.

## IMPRINT

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## UNSUBSCRIBE

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