



Issue 1/2015, March 2015

<http://www.efce.info>

Welcome to the first 2015 issue of the EFCE e-newsletter. If you have any comments on the newsletter please get in touch.

With kind regards

*Rafiqul Gani*  
EFCE President

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## **EFCE OFFICIALLY REGISTERED AS A CHARITABLE INCORPORATED ORGANISATION**

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The European Federation of Chemical Engineering (EFCE) was officially set up and registered as a Charitable Incorporated Organisation (CIO) in the UK in December 2014. Formally registering EFCE as a legal entity within the EU was not only essential for administrative reasons but will also allow EFCE to participate with other organisations, such as the European Association SPIRE – a public-private partnership launched as part of EU's Horizon 2020 research framework.

## **EFCE AWARDS**

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### **Calls for Nominations**

The following calls for nominations are open:

- [EFCE Excellence Award in Product Design and Engineering 2015](#)  
Deadline for submission of nominations: **extended to 20 March 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**

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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### **CONTRIBUTE NOW TO ECCE10+ ECAB3 + EPIC5**

**The CALL FOR PAPERS is still open for your contribution!**

Deadline for abstract submission extended to **13 March 2015**



**Plenary Lectures:** The following plenary speakers have been confirmed: François KALAYDIJAN – Director of the Technologies for the Sustainable Development at IFPEN, France; Wilfried SEYFERT - Senior Vice-President Chemical & Process Engineering at BASF SE, Germany; Gerhard WAGNER - Director of Biotechnology Center at DSM, The Netherlands; Philippe CHARREAU - Vice President of Industrial Development, Launches and Support at Sanofi, France.

**Student Events:** Special student events will be organised during the Congress.

**[Sign up for the student events here](#)**

For any further information, please contact the organising secretariat: [info@ecce2015.eu](mailto:info@ecce2015.eu)

**Exhibition and sponsorship:** Take advantage of this opportunity to showcase your company's / organisation's products, services and expertise. Partnering with ECCE10/ECAB3/EPIC5 will guarantee your business' success attracting pertinent partakers in and around the Congress.

**[Download the sponsorship and exhibition prospectus here](#)**

**Sponsors:** The first sponsors are: ifp Energies nouvelles, ingredia, LIST, TOTAL SA

**Exhibitors:** Bronkhorst, CD-adapco, De Gruyner, Eppendorf, Fraunhofer ICT-IMM, HNP Mikrosysteme, m2plabs, ProSim, Vito.

Deadline for early registration: **28 May 2015**

Website: <http://www.ecce2015.eu/>

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## **SPECIALISED EVENTS ORGANIZED BY/ON BEHALF OF EFCE:**

### **2015 International Congress on Sustainability Science & Engineering - ICOSSE '15**

Balatonfüred, Hungary, 26-29 May 2015 (EFCE Event No. 732)

The Symposium is co-organised by the University of Pannonia, the American Institute of Chemical Engineers (AIChE), and the Sustainability Section of the European Federation of Chemical Engineering (EFCE). As the premier sustainability forum for engineers and scientists from industry, academia and other organisations around the globe, this year's congress promises to be a source of scientific and engineering knowledge that will allow you to steer your organization in new directions.

**The purpose of the Congress** is to exchange emerging ideas about ways and means of protecting the environment and its resources, so that we can achieve sustainable development and societal benefits throughout generations. The Congress will provide a common platform for researchers and practitioners of various physical and ecological sciences, engineering fields, economics, and social sciences.

**ICOSSE '15 will focus** on managing natural resources, industrial sustainability from a systems perspective using scientific and engineering innovations, and the considerations of social and economic aspects of sustainability.

**ICOSSE '15 Key Themes:** Sustainable Water Management; Sustainable Manufacturing; Energy Sustainability; Sustainability Issues in the Food-Energy-Water Nexus; Sustainability Education and Societal

Issues.

If you are engaged in scientific endeavors that impact the state of sustainability implementation through providing products and services needed by society, consider submitting an abstract. Authors of the highest quality presented papers will be invited to develop full-size manuscripts for publication in suitable journals, subject to scientific peer review.

**Call for Abstracts Deadline: 15 March 2015**

Symposium website: <http://icosse.org/>

### **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. It will be chaired by Professor Rufat Abiev. The conference provides a forum for presentations and interesting debates on the latest advances in the 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 run 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.

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

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

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

PSE2015/ESCAPE25 unites two conferences, the 12<sup>th</sup> PSE (PSE - Process Systems Engineering conference) and the 25<sup>th</sup> ESCAPE (ESCAPE - European Symposium on Computer Aided Process Engineering).

#### **PSE2015/ESCAPE25 offers:**

- A 4 day of conference
- 4 internationally renowned plenary speakers
- Keynotes presentations representing industry and academia
- Approximately 175 oral presentations
- 3 poster sessions containing more than 210 presentations
- Over 50 countries
- Nearly 400 manuscript submissions, excl. Plenary and Keynote presentations
- Peer-reviewed book of conference proceedings to be published

Read more about the exciting programme at: <http://www.pse2015escape25.dk/symposium-structure>

**Sponsors:** Gold Sponsors: BASF SE, COWIfonden, Hempel, and MAERSKoil; Silver Sponsors: Bayer AG, Elsevier, Process Systems Enterprise, and SCG; Bronze Sponsors: syngenta, and Alfa Laval. Please register before **15 May 2015** through the Symposium website:

[www.pse2015escape25.dk/](http://www.pse2015escape25.dk/)

### **7<sup>th</sup> European Summer School on Electrochemical Engineering**

Leeuwarden, The Netherlands, 22-26 June 2015 (EFCE Event No. 729)

The 7<sup>th</sup> European Summer School on Electrochemical Engineering (ESSEE 2015) is organised once every three years under the auspices of the EFCE and its Working Party on Electrochemical Engineering. During the Summer School, PhD students and other young researchers meet to learn about advanced conceptual topics within electrochemical engineering that will help them with current and future research. The diverse programme includes lectures delivered by renowned scientists from across Europe, Asia and USA, as well as a student poster session (with award), non-technical presentations on the effectiveness as a PhD student, presentation skills, a hands-on lab tour at Wetsus, and many social activities.

**The Summer School is limited to 60 participants, so please register in time at:**

<http://www.essee2015.org>

### **14<sup>th</sup> European Symposium on Comminution and Classification – ESCC 2015**

Gothenborg, Sweden, 7-10 October 2015 (EFCE Event No. 731)

The European Symposium on Comminution and Classification (ESCC 2015) is arranged for the 14th time in 53 years, and will be hosted for the second time in Sweden. The organisers, Chalmers University of Technology, have a long tradition of research within coarse comminution and classification. The university is also a member of the Global Comminution Collaborative (GCC). ESCC is initialized by EFCE and its Working Party on Comminution and Classification.

Unifying theme: *Sustainability and energy efficiency*

**Conference topics:** (A) Comminution and classification of minerals and ores; (B) Grinding, dispersion and classification of fine particles; (C) Fundamentals, modelling and simulation; (D) Innovation and new technologies; (E) Industrial operation perspectives. The topic "Industrial operations perspective" has been included to bridge the gap between academia and industry through discussion and presentations on industrial case studies and implementations.

**Call for Abstracts is still open!**

There is a few spots left to fill, therefore submit your abstract for ESCC2015 as soon as possible.

**Deadline for early registration at a reduced rate: 30 June 2015.**

Symposium website: <http://www.escc2015.org>

### **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 held biannually in Europe, America and Asia. 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) in meeting future challenges, particularly in energy sciences and technology.

**Plenary speakers:** Rakesh AGRAWAL, West Lafayette, USA; Olaf DEUTSCHMANN, Karlsruhe Germany; John C. HEMMINGER, Irvine, USA; Johan HOORN, Geleen, Netherlands; Dmitry Yu. MURZIN, Turku/Åbo, Finland; Kim B. MC AULEY, Kingston, Canada; Suojiang ZHANG, 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.

**Sponsors** (as of February 2015): Silver Sponsors: Clariant Produkte (Deutschland) GmbH, DSM Chemical Technology R&D B.V, Evonik Industries AG, SABIC; Bronze Sponsor: Micromeritics GmbH

**Exhibitors** (as of February 2015): Clariant Produkte (Deutschland) GmbH, Ehrfeld Mikrotechnik BTS GmbH, Fink Chem+Tech GmbH & Co.KG, Fluitec mixing + reaction solutions AG, HNP Mikrosysteme GmbH, Micromeritics GmbH, Parr Instrument (Deutschland) GmbH, Zinsser Analytic GmbH

**Online registration will be available from April 2015**

Symposium website: <http://www.dechema.de/escre2015.html>

### **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)

For more than 40 years, safety professionals, scientists and practitioners have been meeting on a triennial basis at EFCE's Loss Prevention Symposia. In this period, the Loss Prevention Symposia series has been successful in stimulating and sharing both theoretical and practical knowledge among the Loss Prevention community, with considerable progress achieved in the field of safety in the process industries. Besides the chemical industry, the latter also includes oil and gas, energy, pharmaceutical, food and other industries, plus related service industries.

Over this 40 year period, there has been great advances in knowledge relating to process safety, but at

the same time, plant complexity and economic pressures have also increased. In addition, innovations in technologies and societal developments are emerging, which will require further work for improvement in order to cope with these new challenges. Innovation is leading to new processes under yet unknown conditions and introducing potential new hazards from novel or emerging technologies, and materials. Therefore, there is a continuous need for further research and development to identify and manage the risks from these innovations.

Exchanging information, disseminating data and stimulating the development of new methods to reduce the risk of incidents/accidents in the process industries, is a must and a need.

To foster new ideas, the third "EFCE Excellence Award for Process Safety" for outstanding PhD research work will be presented at this conference.

Transfer to practice is as important as development of know-how. Many challenges are still to be addressed in order to make further progress in safety and process safety in particular. To name a few: closing the loop from operational experience back to design; development of sufficiently detailed models for emergency response planning; development of the resilience engineering approach; involvement of all levels of management and in particular the operational management level and safety culture implementation.

#### **The Call for Papers is open**

Abstracts will be accepted on the following **themes**: Management and Communication of Risk and Safety; Human and Organizational Factors; Learning from Accidents and Knowledge Transfer; Fires and Explosions; Simulation and Modeling; Process Safety Engineering; Regulatory Issues.

**Deadline for abstract submission: 15 March 2015**

**Sponsors:** Diamond Sponsor: Bayer AG; Platinum Sponsors: BASF SE, TÜV SÜD Chemie Service GmbH; Gold Sponsors: consilab, Linde AG.

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

### ***Note in your diary – EFCE Events in 2017!***

- **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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### **EFCE PhD-Student Workshop on Polymer Reaction Engineering**

Fürstfeldbruck, Germany 31 October - 1 November 2015

*organized by the EFCE Working Party on Polymer Reaction Engineering*

The 4<sup>th</sup> PhD-Student Workshop on Polymer Reaction Engineering, is going to be held as a direct follow-up event to the first European Symposium on Chemical Reaction Engineering - ESCRE 2015 (website: <http://www.dechema.de/escre2015.html>). The Workshop represents an international platform where young researchers in the field of polymer reaction engineering can build up valuable networks. It is an opportunity to meet fellow PhD-students and to get into contact with interesting companies and potential employers. Moreover, the students can benefit from useful feedback on their work and improve their soft skills by practicing the presentation of complex scientific topics.

Registration fee: 100 €

Register online via the following URL:

<http://www.chemie.tu-darmstadt.de/busch/akbusch/wppre/registration.en.jsp>

### **New EFCE journal to focus on Sustainability**

A new journal to be published by the EFCE and IChemE, in partnership with Elsevier, will provide a leading platform for publishing high-quality interdisciplinary research related to sustainability. *Sustainability*

*Production and Consumption (SPC)* will focus on the importance of sustainability in sectors as diverse as retail, tourism, transport, health, food, energy, construction and the chemical and process industries. The new journal will be launched at the 10<sup>th</sup> European Congress of Chemical Engineering (ECCE 10) in Nice, France, September 2015, with Adisa Azapagic, Professor of Sustainable Chemical Engineering at the University of Manchester, UK, and co-chair of EFCE's Sustainability Section, as Editor-in-chief. The first issue will be titled: Sustainability issues in the energy-food-water-nexus. For more information on SPC, including its next special issue '*Sustainable Production and Consumption in Emerging Economies*', visit: [Sustainability Production and Consumption](#)

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## Follow us on Social Media:

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**Facebook:** <https://www.facebook.com/theEFCE>

## NEWS FROM EFCE MEMBER SOCIETIES

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### ACHEMA 2015

Frankfurt am Main, Germany, 15-19 June 2015 (EFCE Event No. 730)

The countdown is on: from 15 to 19 June 2015 the doors will open on **ACHEMA 2015**. Around 3,500 exhibitors have already registered but, as in 2012, the organisers anticipate around 3,800. Moreover, the congress programme has been recently published. Already a clear trend is emerging: besides the three **cross-sectoral focal themes** *BiobasedWorld*, *Innovative Process Analytical Technology (PAT)* and *Industrial Water Management*, the hot topics of the world forum of the process industry are energy efficiency, materials and materials testing, and safety technology.

ACHEMA reflects the overall trends in its core sectors, like machinery and plant engineering, and the chemical industry which, despite a turbulent international business environment, are proving to be surprisingly resilient. Particularly on an international level, these sectors are hard-wired for growth; the shale gas bonanza in the USA and the unwaning industrial growth of India and China are reflected in the number of exhibitors. On the other hand, many exhibitors from European countries like Spain and Great Britain are set to benefit from the opportunity to present themselves to an international audience. To promote the exchange of views between users and suppliers, the organisers have devised a range of new formats: the ACHEMA **PRAXISforums**, addressing topics such as Single-Use Technologies, Pharmaceutical Production, Components and Equipment, Mixing and Separation, Safety and Plant Control. New developments from practice will be introduced in mini-presentations within direct vicinity of the exhibition halls concerned. This effectively shortens the distance between lecture areas and exhibition stands, enabling visitors with special interests to plan their visit to optimum advantage.

The **Congress programme** has been drawn up with a view to avoid scheduling thematically related sessions in parallel. [The congress planner is available here](#). Participants will be struck by the large number of guest and partner events. And last but not least, on four out of the five days of the event, there will be a panel discussion or plenary lecture on key themes like the implications of the shale-gas boom for the bioeconomy, future trends in chemical production, the impact of the energy turnaround, and developments in industrial water use.

Regular updated information is available at <http://www.achema.de>.

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## CONTACT

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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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