



Issue 2/2015, November 2015

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EDITORIAL

ECCE10+ECAB3+EPIC5 report



There can be no doubt; the most important congress on chemical and biochemical engineering this year was held in Nice at the end of September 2015.

The 10th European Congress of Chemical Engineering (ECCE10) was held in conjunction with the 3rd European Congress of Applied Biotechnology (ECAB3) and the 5th EPIC European Process Intensification Conference (EPIC5). It also included the 15th Congress of the French Society of Chemical Engineering (SFGP).

These events were organised by the SFGP and Live! By GL under the auspices of the European Federation of Chemical Engineering (EFCE) and the European Society of Biochemical Engineering Sciences (ESBES). Approximately 1800 people from all around the world (67 nationalities) attended the conference. The participation of industrialists (25%) and students (31%) was highly remarkable. The scientific program was impressive, being composed of 5 symposia, 4 workshops, 6 plenary lectures, 82 keynotes and more than 700 oral communications organised in 202 sessions and 900 poster communications. These covered vast chemical and biochemical engineering topics, which reflected the latest scientific trends in their field. For the first time in the history of this congress, a number of novel student events, including a student quiz, a thesis competition, a jobs forum and a breakfast meeting with senior researchers, was organised over the five days. These were greatly appreciated by the students, leaving them with unforgettable memories.

The exhibition area welcomed 39 companies in a very beautiful and pleasant space that was highly favourable for fruitful exchanges.

The next "rendez-vous" is in two years time in Barcelona!

Martine POUX – general coordinator
Nicolas ROCHE - coordinator

WHO'S WHO

At its recent meeting in Nice, France, the General Assembly of the Federation re-elected its current President, **Professor Rafiqul Gani**, Lyngby, Denmark, and the two Vice-Presidents, **Professor Jean-Marc Le Lann**, Toulouse, France; and **Professor Mike Considine**, Sheffield, United Kingdom, for a second two-year term with effect from 1 January 2016.

The newly elected members of the EFCE Executive Board from 1 January 2016 are:

Dr. Wridzer Bakker, Arnhem, The Netherlands
Prof. Jerzy Baldyga, Warsaw, Poland
Prof. Ing. Jiri Drahos, Prague, Czech Republic
Dr.-Ing. Hermann J. Feise, Ludwigshafen, Germany
Prof. Flavio Manenti, Milan, Italy
Prof. Carlos Manuel Negro Alvarez, Madrid, Spain
Mr. Francois Nicol, Limay, France
Dr. Bent Sarup, Søborg, Denmark
Prof. Eva Sorensen, London, United Kingdom
Dr.-Ing. Andreas Schreiner, Stein, Switzerland
Mr. Giorgio Veronesi, Milan, Italy
Prof. Bruno Zelic, Zagreb, Croatia

EFCE AWARDS

Jacques Villermaux Medal 2015

Professor Joachim Werther from the Institute of Solids Process Engineering and Particle Technology at Hamburg University of Technology (TUHH), Germany, has been named as the 2015 winner of the Jacques Villermaux Medal by EFCE. He has been recognised for his outstanding scientific achievements in particle technology, with a career spanning more than 40 years in the field.

The medal was presented to Professor Werther at ECCE10+ECAB3+EPIC5 on 28 September in Nice, France. During the ceremony, Professor Werther delivered a presentation on 'Flow sheet simulation of solids processes'. [▶ more...](#)

EFCE Student Mobility Award 2015

The winners of the Student Mobility Award 2015 are:

1st Prize: **Jose Francisco Perez Calvo, MSc.**

2nd Prize: **Alberto Lozano Rivas, MSc.**

3rd Prize: **Canan Dombayci, MSc.**

[▶ more...](#)

The Federation has great pleasure in announcing its **2015 Excellence Award winners:**

- **Dr. Bjorn Maribo-Mogensen** has been awarded the **2015 EFCE Excellence Award in Thermodynamics and Transport Properties**. The award was presented at the European Symposium on Applied Thermodynamics (ESAT) in Athens, Greece, on 14 June 2015. [▶ more...](#)
- The Federation has announced **Dr. Claudio Antonio Pereira da Fonte** as the latest winner of the **Young Researcher Award in Mixing**. The Award was presented at the 15th European Conference on Mixing in Saint-Petersburg, Russia, on 30 June 2015. [▶ more...](#)
- **Dr. David A. Vermaas** has been awarded the **2015 EFCE Excellence Award in Membrane Engineering**. The Award was presented at the Euromembrane Conference 2015 in Aachen, Germany, on 10 September 2015. [▶ more...](#)
- **Dr. Miguel Andre Abreu Teixeira** is the winner of the **2015 EFCE Excellence Award in Product Design and Engineering**. The award was presented in Nice, France, on 28 September 2015 at the 5th European Symposium on Product Design and Engineering held in conjunction with ECCE10+ECAB3+EPIC5. [▶ more...](#)

- EFCE has announced **Dr. Danilo Alberto Cantero Sposetti** as the latest winner of its **Excellence Award in Process Intensification**. The Award was presented on 28 September 2015 at the 5th European Process Intensification Conference (EPIC5) jointly held with ECCE10+ECAB3 in Nice, France. [▶ more...](#)
- **Dr. Luis Carlos Pereira de Oliveira** has been awarded the **2015 EFCE Excellence Award in Chemical Reaction Engineering**. The Award was presented at the European Symposium on Chemical Reaction Engineering – ESCRE 2015 in Fuerstenfeldbruck, Germany, on 28 October 2015. [▶ more...](#)

Delft Professor honoured with lifetime award in mixing

Professor Harry Van den Akker is the recipient of the **Lifetime Achievements Award in Mixing**. The Award was presented at the 15th European Conference on Mixing in Saint-Petersburg, Russia, on 30 June 2015. [▶ more...](#)

EFCE is pleased to announce that the first **EFCE Process Intensification Award for Industrial Innovation 2015** has been awarded to the innovation "**Flow Miniplant, a Toolbox that boosts Process Performance to a new Level**" developed by MICROINNOVA, Austria, in co-operation with Fraunhofer ICT-IMM, Germany. [▶ more...](#)

At PSE-2015/ESCAPE-25 held in Copenhagen, Denmark, in June 2015, the **EFCE Life-Time Achievements Award** was presented to **Professor Jiri J. Klemes**. Prof. Klemes has been recognized for the role he has played for almost forty years as a representative of the Czech and Hungarian EFCE Member Societies, as an active member and chairman of the EFCE Working Party on Computer Aided Process Engineering (CAPE) and for his substantial services to chemical engineering education and qualifications. The Award also acknowledges his contribution to the organization of numerous meetings, workshops and courses related to CAPE, process integration and modeling, and sustainability, including the ESCAPE and PRES series of events.

Distinguished Lecture in Thermodynamics and Transport Properties 2016

The third Distinguished Lecture of the EFCE Working Party on Thermodynamics and Transport Properties will be delivered by **Professor Cornelis Peters** during the 14th International Conference on Properties and Phase Equilibria for Product and Process Design (PPEPPD 2016), which will be held in Porto, Portugal, from 22 to 26 May 2016. Prof. Peters was elected unanimously by the Selection Committee, which thereby recognizes his 40 years of research contributions to the fundamental understanding of phase theory.

Calls for Nominations

The following calls for nominations are open:

- [EFCE Excellence Award in Mechanics of Particulate Solids 2016](#)
Deadline for submission of nominations: **30 November 2015**
- [EFCE Excellence Award in Recognition of Outstanding PhD Thesis on CAPE 2016](#)
Deadline for submission of nominations: **31 December 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, 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 EVENTS

SPECIALISED EVENTS ORGANIZED BY/ON BEHALF OF EFCE:

15th International Symposium on Loss Prevention and Safety Promotion in the Process Industries

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

The Loss Prevention Symposia series aims to stimulate and share 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.

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.

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.

Topics: 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.

Sponsors: Diamond Sponsor: Bayer AG; Platinum Sponsors: BASF SE, TÜV SÜD Chemie Service GmbH; Gold Sponsors: consilab, Linde AG; Silver Sponsor: Chilworth; Bronze Sponsor: REMBE GmbH Safety+Control.

Exhibitors: AKTS AG; Berufsgenossenschaft Rohstoffe und chemische Industrie; Chilworth; consilab Gesellschaft für Anlagensicherheit mbH; EcoIntense GmbH; EPSC - European process safety centre; Fraunhofer Institute for High-Speed Dynamics - Ernst-Mach-Institute (EMI); Gexcon AS; HIMA Paul Hildebrandt GmbH; horst weyer und partner gmbh; INERIS; REMBE GmbH Safety + Control; Siemens AG; Stöcklin Logistics Ltd.; TÜV Nord; TÜV Süd.

Registration is now open!

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

26th European Symposium on Computer-Aided Process Engineering (ESCAPE'26)

Portoroz, Slovenia, 12–15 June 2016 (EFCE Event No. 734)

ESCAPE'26 is co-organised by the Faculty of Chemistry and Chemical Engineering, University of Maribor, Slovenia, and the EFCE Working Party on Computer Aided Process Engineering (CAPE). The organising committee is gearing up for an exciting and informative conference programme including plenary and keynote sessions, oral and poster presentations on a variety of topics, and not forgetting an exciting social programme for participants from all around the world.

Themes: Process-product Synthesis, Design and Integration; Modelling, Numerical analysis, Simulation and Optimization; Process Operations and Control; Green Bioprocess Engineering and Advances in Biomedical Engineering; CAPE/PSE in Environmental Engineering; CAPE/PSE in Sustainable Energy Applications; CAPE Applications; Education in CAPE/PSE

Plenary speakers: Adisa AZAPAGIC, UK; Ana BARBOSA POVAO, Portugal; Hermann FEISE, Germany; Rafiqul GANI, Denmark; Jiri J. KLEMES, Hungary; Nick SAHINDIS, USA; Jean-Marc LE LANN, France.

Exhibition and Sponsorship: ESCAPE'26 will be accompanied by an exhibition of instrumentation, columns, software, accessories and literature on various techniques in connection with the conference. The different sponsorship, advertisement and exhibition options are provided at:

<http://escape26.um.si/exhibition-sponsorship/>

Visit the Symposium website here: <http://escape26.um.si/>

CHISA and PRES 2016

Prague, Czech Republic, 28-31 August 2016

The 22nd International Congress of Chemical and Process Engineering - CHISA 2016 Prague and the 19th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction - PRES 2016 will be jointly held in Prague on 28-31 August 2016, organised by the Czech Society of Chemical Engineering and the EFCE. The objective of this joint event is to provide engineers, scientists, researchers, technologists, students and others with a platform to present their latest results, to interchange ideas, to make new contacts, to establish new collaborations, and many more.

Both the Congress CHISA and PRES Conference address the full spectrum of chemical and process engineering practice including current trends and future challenges.

CHISA Congress Topics: Reaction engineering, catalysis and kinetics (reactors and transport phenomena, catalysis and particles, reforming and Fischer-Tropsch, kinetics, petrochemistry); Distillation

and absorption; Extraction and leaching; Membrane separations (gas and vapour separation, pressure separation, other membrane processes, chemical reaction); Solid-liquid separations; Fluid flow and multiphase systems (bubble/ drop mechanics, interfaces and capillarity, foams, emulsions and slurries, gas-liquid(-solid) flows, surfactants, fluidization); Mixing; Computer aided process engineering (synthesis and control, modelling and design, optimisation, process system engineering); Particulate solids; Pharmaceutical engineering; Chemical engineering education.

CHISA Specialised Symposia: Symposium on environmental engineering; Symposium on safety in chemical industry; Symposium on supercritical fluid applications (sub- and supercritical water; micronization, thermodynamic data and modelling, natural products); Symposium on thermodynamics and transport properties; Symposium on novel food processes and technologies; Symposium on porous materials, nanostructures and nanocomposites; Symposium on progress in chemical technology and biotechnology (biofiltration, bioreactor applications, biotechnology, chemical technology; Symposium on process intensification and miniaturisation; Commercial and technical impact from EU project.

The Call for Papers is open: The deadline for the submission of application for oral presentation is **30 November 2015**.

Later applications for oral presentation will be considered exceptionally. Posters may be accepted up to the beginning of the Congress, however only contributions received before 31 May 2016 will be included in the final program.

Congress website: <http://www.chisa.cz/2016>

International Symposium Reliable Flow of Particulate Solids V - RELPOWFLO V

Skien, Norway, 13-15 June 2017 (EFCE Event No. 734)

The first announcement/call for papers for the International Symposium Reliable Flow of Particulate Solids V (RELPOWFLO V) will be distributed during this Autumn/Winter.

The **preliminary scope of the symposium** will include the following major issues: Drying of Particulate Materials; Environmental Aspects; Industrial Case Studies; Measurements, Controls & Online monitoring; Mechanical Conveyor & Feeders; Modelling and Fundamentals of Powder Systems; Particle & Bulk Characterization; Pneumatic, Hydraulic & Capsule Conveying; Powder Coating; Process Analytical Technology in Powder Applications; Production & Handling of Nanoparticles; Production of Particulate Solids (crystallization, precipitation, etc.); Sample Taking/Sampling in Powder Systems; Segregation & Mixing; Separation & Classification; Size Enlargement; Size reduction (crushing, grinding, milling); Solids Processing; Storage of Bulk Solids.

The previous symposiums in this series have been very successful in providing a forum for discussion and for the exchange of ideas and experiences between researchers in academic community and practitioners in industry.

[Preliminary announcement](#)

10th World Congress of Chemical Engineering – WCCE10

Barcelona, Spain, 1-5 October 2017

The 10th World Congress of Chemical Engineering will be held in FIRA of Barcelona, Spain, October 1st – 5th, 2017, in conjunction with the 11th European Congress of Chemical Engineering and the 4th European Congress of Applied Biotechnology and coinciding with EXPOQUIMIA (Chemical Industry Exhibition held every three years in Spain).

The World Chemical Engineering Council (WCEC), EFCE and the European Society of Biochemical Engineering Sciences (ESBES) promote this “three in one” congress. The EFCE-Spain Group, formed by four Spanish societies: ANQUE, Enginyers, SEQUI and AIQS, hosts this congress.

Further to the success of previous events held in Korea (2013) and in Canada (2009), more than 3,000 participants from all around the world are expected. The organizers are paying very special attention to young chemical engineers and future talents with knowledge, education and training as the first congress topic.

The Congress will take place simultaneously and at the same venue with EXPOQUIMIA - the largest trade fair dedicated to chemistry in southern Europe, ensuring the best context in terms of affluence and opportunities. This group of events will be a unique opportunity for your company to meet with researchers and specialists in all areas of chemical engineering and to improve your strategy for the development of innovative processes that will be vital for the industry of tomorrow. The World Congress in

2017 will see Spain as the host country, presenting an opportunity for the world, European and Spanish industry to highlight the very best of its innovation and enterprises in a unique context. The venue adds an important attraction to the congresses. Spain is a beautiful country with an excellent climate and unparalleled hospitality. It is the fourth European economy and a vibrant society in all respects. Barcelona is one of the world's most visited cities. Its privileged position in the Mediterranean shore, gateway and home of several ancient cultures has always represented the essence of art, culture and progress in Spain. Barcelona is the flagship city of the wealthiest region of Spain, leader in art, design, industry and lifestyle, a must visit for travellers and an endless source of inspiration.

Join us in Barcelona!

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

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

SCIENCE AND TECHNOLOGY

The "Distillation" set won PROSE AWARD 2015 in Chemistry & Physics

The most comprehensive three-volume textbook on "Distillation" edited by Andrzej Gorak, Zarko Olujic, Hartmut Schoenmakers and Eva Sorensen, won the PROSE award in Chemistry & Physics in Washington, DC, in February 2015.

The three textbooks, namely: Fundamentals and Principles; Operations and Applications; and Equipment and Processes; published by Elsevier, represents a wealth of knowledge put together by 42 top researchers and company representatives. The PROSE Awards annually recognize the very best in professional and scholarly publishing by bringing attention to distinguished books, journals, and electronic content in over 40 categories. The award is widely known as the "Oscar" in specialised literature and has been granted since 1976 by the Professional and Scholarly Publishing Division of the Association of American Publishers.

More info at: <https://proseawards.com/winners/2015-award-winners/>

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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.

LEGAL NOTICE

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