

NEWS AND EVENTS DECEMBER 2017

Hermann Feise confirmed as new EFCE President

New Vice-Presidents and new trustees to join Executive Board in 2018



EFCE will begin 2018
with a new President,
new Executive and
Scientific VicePresidents, and an
influx of new trustees
to its Executive Board,
following elections held
at the Executive Board
meeting and General
Assembly during the

World Congress in Barcelona.

Dr. Hermann Feise (*pictured above*), manager for R&D Cooperations with BASF and a member of DECHEMA, was elected as the next President of EFCE. He will begin his two-year term on 1 January 2018. Feise first joined the EFCE Executive Board in 2008, serving as Scientific Vice-President from 2008 to 2012 and then as a co-opted member and trustee until now. His priorities for his Presidency are increasing the visibility and influence of EFCE outside the chemical engineering community, developing new activities in emerging chemical engineering trends, and improving the efficiency of EFCE's administration.

He said: "To prepare EFCE for the future, we have to find new ways of working together, such that the young generation of chemical engineers can cooperate throughout Europe in a manner, which suits their way of working."

EFCE's new Scientific Vice-President will be **Professor David Bogle**, professor of chemical engineering and Pro-Vice-Provost of the Doctoral School at University College London, as well as a Fellow of the Institution of Chemical Engineers and a Fellow of the Royal Academy of Engineering. Bogle is a long-serving member of the CAPE Working Party and was its deputy chair from 2003 to 2008. He is planning to use the vision and vigour of the Working Parties to strengthen EFCE's links with industry bodies such as CEFIC and SPIRE and will work towards strengthening EFCE's voice at European

Government level.

He commented: "I am looking forward to bringing Working Parties together to tackle Grand Challenges that confront society where Chemical Engineers can contribute. I am also keen to review how Europe's Universities have the capacity and staff to produce the skills that we need."

Giorgio Veronesi, who spent his career in the Engineering and Construction business and is currently Commercial Manager with Techint in Milan and member of the Executive Committee of AIDIC, was elected as the next Executive Vice-President of EFCE. Veronesi first joined the Executive Board in 2016 as a trustee. As the Executive VP role focuses primarily on ensuring the administration and policies of EFCE, Veronesi will in particular oversee budgeting and forecasting, general management and allocation of resources.

He sees EFCE's key challenges as promoting the cross-fertilization between academia and

Welcome to the final EFCE newsletter of 2017. If you have any comments on the newsletter please get in touch.

Rafiqul Gani EFCE President

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industry, adapting to a fast-moving society, facilitating the access to new job opportunities of students and young chemical engineers, and identifying and exploiting the opportunities that smart manufacturing will bring to EFCE members.

In addition to the presidential triumvirate, EFCE welcomes a number of **new trustees** to the Executive Board. Newly-elected Trustees are: Adisa Azapagic (University of Manchester/ IChemE), Antoon ten Kate (Akzo Nobel/KIVI & KNCV), Ferenc Friedler (Pázmány Péter Catholic University / Hungarian Chemical Society), Laure Helard (PROFLUID /SFGP), Michael Wilk (Merck/ DECHEMA), Patrick Piccione (Syngenta/SGVC) and Petr Kluson (Czech Academy of Sciences/ Czech Society of Chemical Engineering). They are joining Bent Sarup (Alfa Laval/ Ingeniørforeningen i Danmark), Carlos Negro (Complutense University of Madrid/Angue), Flavio Manenti (Politecnico di Milano/AIDIC), Michael Considine (University of Sheffield/ IChemE), Jerzy Baldyga (Warsaw University of Technology/Polish Association of Chemical Engineers), Willi Meier (DECHEMA), François Nicol (SFGP) and Claudia Flavell-While (IChemE).

Retiring from the Executive Board at the end of 2017 are: Bülent Atamer (Terralab/ Turkish Chamber of Chemical Engineers), Wridzer Bakker (Plantics/ KIVI & KNCV), Jiří Drahoš (Czech Academy of Sciences/Czech Society of Chemical Engineering), Emilia Kondili (Technological Educational Institute of Piraeus/ Technical Chamber of Greece), Jean-Marc Le Lann (Ensiacet/SFGP), Jean-Pierre Dal Pont (SFGP), Andreas Schreiner (Novartis/SGVC), Eva Sorensen (University College London/ IChemE), and Bruno Zelić (University of Zagreb/ Croatian Society of Chemical Engineers).

EFCE is very grateful for the hard work and the many hours of their time all members of the Executive Board have spent working on behalf of the Federation, and would like to thank them for their effort.

The out-going President, Professor Rafiqul Gani congratulated the new elected President, the Vice Presidents and the members of the Board of Trustees. He said: "I look forward to their ongoing efforts to ensure that EFCE serves the member societies, promotes industry-academia collaboration, motivates young engineers to participate more in EFCE activities and contributes to meeting the current and future challenges that confronts society."

Calls for Nominations

The following calls for nominations are still open:

2018 Young Researcher Award in Mixing

The Young Researcher Award was established in 2000 to recognise the work of a young researcher in his/her early career, which demonstrates an outstanding contribution to research and/or practice in mixing. Any researcher under the age of 35 who has completed his or her PhD in the field of mixing at a European university and is currently active in the mixing research is eligible for nomination.

The closing date for nominations is **20 March 2018.** For further information about the nomination procedure, eligibility, supporting documentation, etc., please refer to the EFCE website at

www.efce.info/YoungResearcherAward_ Mixing or the Working Party website at http://wp-mixing.inp-toulouse.fr/

in Recognition of an Outstanding PhD Thesis on CAPE 2018

This biennial award has been instituted to recognise a PhD thesis which demonstrates an outstanding contribution to research and/or practice in computer-aided process engineering (CAPE) or process systems engineering (PSE).

The closing date for nominations is **31 December 2017**.

Further information about the nomination procedure, eligibility, supporting documentation, etc., can be obtained from the EFCE website at www.efce.info/ExcellenceAwardCAPE.html

The Award is generously sponsored by Process Systems Enterprise Inc.



Calls for Nominations

2018 EFCE Distinguished Lecture in Thermodynamics and Transport Properties



For the third time, the European Federation of Chemical Engineering (EFCE) is pleased to announce call for nominations for its prestigious, biennial Distinguished Lecture in Thermodynamics and Transport Properties (TTP) to recognize an outstanding research career and achievements within the field.

A nominated candidate should have made significant contribution and/or achievements for the advancement of science and technology within Thermodynamics and Transport Properties (TTP) and has to be active in a European institution.

The award comprises a certificate and EFCE press communication, a travel/ accommodation grant (not exceeding EUR 500) and fee waiver to attend the 30th European Symposium on Applied Thermodynamics - ESAT in Prague, Czech Republic, on 10-13 June 2018 where the award will be presented.

Furthermore, the laureate will be invited to deliver a keynote lecture at the ESAT Symposium. The closing date for nominations is **1 February 2018**. The 2018 Distinguished Lecture is generously sponsored by IFP Energies nouvelles (IFPEN).

Further information about the nomination procedure, eligibility, and supporting documentation can be obtained from the EFCE Working Party on Thermodynamics and Transport Properties website at www.wp-ttp.dk or via EFCE's website at www.efce.info/Distinguished+Lecture+in+TTP.html

About IFPEN:

IFP Energies nouvelles (IFPEN) is a major research and training player in the field of energy, transport and the environment. From research to industry, technological innovation is central to all its activities, structured around three strategic priorities: sustainable mobility, new energies and responsible oil and gas.

As part of the public-interest mission with which it has been tasked by the public authorities, IFPEN focuses on:

 Providing solutions to take up the challenges facing society in terms of energy and climate, promoting the transition towards sustainable mobility and the emergence of a more diversified energy mix; Creating wealth and jobs by supporting French and European economic activity, and the competitiveness of related industrial sectors.

An integral part of IFPEN, its graduate engineering school – IFP School – prepares future generations to take up these challenges.

EFCE Excellence Award in Fluid Separations 2018

The European Federation of Chemical Engineering (EFCE) is pleased to present the call for nominations for the 2018 EFCE Excellence Award in Fluid Separations. This quadrennial award recognises a PhD thesis of a researcher or engineer which demonstrates an outstanding contribution to research and/or practice in fluid separations.

The award comprises a certificate and press communication, the sum of 1500 euros, a travel grant of up to 500 euros, and a fee waiver to attend the 11th International Conference on Distillation & Absorption - DA2018 to be held in Florence, Italy, on 16 to 19 September 2018, where the award will be presented (symposium website: www.aidic.it/da2018/).

Nominations may be submitted by any PhD supervisor at a PhD-awarding institution in an EFCE member country or by a member of an EFCE member society. The PhD thesis nominated must address a topic relevant to the field of Fluid Separations, such as distillation, absorption, extraction, membrane separation, chromatographic separation and similar, of any operating scale. Both theoretical and experimental work will be considered, as will work considering both chemical- and bio-separations. Only PhD theses published between 1 Janu-ary 2013 and 31 December 2017 are eligible for nomination.

Closing date for nominations: **14 March 2018.** Further information about the nomination procedure, eligibility, supporting documentation, etc. can be obtained from the EFCE website at **www.efce.info/ ExcellenceAwardFluidSeparations.html**

EFCE Working Party and Section News

The Federation is pleased to announce its new and upcoming Working Party and Section Chairs:

- At its business meeting in April 2017 in conjunction with Electrostatics 2017, the Working Party on Static Electricity in Industry elected Dr. Pedro Llovera Segovia, Instituto Tecnológico de la Energía, Paterna (Valencia), Spain, as the new Chair of the Working Party. He succeeded Prof. Istvan Berta, who held the position for 8 years.
- In October 2017, Professor Stefan Heinrich, Hamburg University of Technology, Germany, was appointed to take over the chairmanship of the Working Party on Agglomeration from Prof. Agba Salman.
- Also in October 2017, Professor Michael Schlüter, Hamburg University of Technology, Germany, took office as the new Chair of the Working Party on Multiphase Fluid Flow. He succeeded Prof. Alfredo Soldati, who held the position for 8 years and was honoured for having organised a very successful Conference on Multiphase Flow in Florence in 2016. At the same time, Prof. Alain Liné, INSA, Toulouse, France was elected as the new Vice-Chair.
- The Working Party on Chemical Reaction Engineering elected Professor Kai-Olaf Hinrichsen, Technische Universität München (TUM), Munich, Germany, to the position of Chair of the Working Party from 1 January 2018. He succeeds Prof. Guy Marin who held the position since 2012. Professor Michiel Kreutzer, Delft University of Technology, The Netherlands, was elected as the new Secretary of the Working Party.
- At its recent meeting in Barcelona in October 2017, the Section on Product Design and Engineering elected Dr. Stefan Kaufmann, Beiersdorf AG, Hamburg, Germany, to succeed Dr. Jens Uhlemann in the position of Chair of the Section from 2018.
- At its business meeting on 3 October 2017, the Working Party in Process Intensification elected Professor Georgios Stefanidis, Delft University of Technology, the Netherlands, as the new Vice-Chair. Professor Tom Van Gerven, KU Leuven, Belgium, was confirmed in the position of Chair of the Working Party for a second term of office.

EFCE Event Report

5th International Symposium on Reliable Flow of Particulate Solids ("RELPOWFLO V") EFCE Event No. 734
Skien, Telemark, Norway, 13-15 June 2017

The series of International Symposia of Reliable Flow of Particulate Solids; "RELPOWFLO" was started in 1985 in Bergen, Norway and organised by Powder Science Technology ("POSTEC") research group in cooperation with the Working Party on Mechanics of Particulate Solids (WPMPS) of the European Federation of Chemical Engineering (EFCE). There have been three symposia afterwards; in 1993 in Oslo, in 1999 in Porsgrunn and in 2008 in Tromsø. Following the footsteps of previous events, Tel-Tek arranged the latest symposium, RELPOWFLO V from 13th to 15th June 2017 in Skien, Telemark, Norway.

One hundred and ten participants representing twenty countries participated in the event. There were three parallel sessions covering sixty-nine oral presentations. Six keynote lectures were delivered by the prominent experts, sharing their knowledge on modern developments and long-term experiences of the field. There were seven posters, presented by experienced workers and newly arrivals in to the field of bulk solids handling, processing and characterisation. Parallel to the conference, an exhibition was arranged and several reputed companies exhibited their products and services to the participants.

RELPOWFLO series is well-known not only for its scientific and technological excellence, but also with friendly and warm social arrangements to enhance relationship with friends and establish new contacts. The welcome reception, the tour in Telemark canal and the conference dinner in "Brekkeparken" made excellent social occasions

to build-up and refresh networks among the participants.

As an international symposium, RELPOWFLO V able to bring together academics, scientists and industrialists to exchange ideas and experiences in established, new and emerging technologies of all topics of powder technology, both nationally and internationally. During RELPOWFLO V, the participants were updated and enriched with recent developments

and investigations in the field of powder technology, while providing excellent academic and industrial networking possibilities.

The organising committee of RELPOWFLO V would like to acknowledge the excellent support extended by WPMPS, EFCE and the international powder community in participating International Scientific and Advisory committees, encouraging paper submission and participation, finding the sponsors, etc., to make the event a success.

EFCE Events organised by/on behalf of EFCE

6th International Conference on Population Balance Modelling - PBM2018

Ghent, Belgium, 7-9 May 2018 (EFCE Event No. 749)

This 6th International Conference on Population Balance Modelling (PBM2018) aims at bringing together researches and practitioners with diverse backgrounds to allow exchange of ideas across various sub-fields that use population balances, and to provide opportunities for researchers to identify new domains to expand into and new tools to use. Ghent University and the Technical University of Denmark - DTU are joining forces to make PBM 2018 an open platform to share population balance model research with a high scientific quality, interesting applications and new significant developments.

PBM themes: Formulation and solution of PB Models; Identification and uncertainty of PB Models (Validation); Optimization and control using PB Models; Novel applications of PB Models (e.g. biological systems); PB Models and spatial heterogeneities

Silver Sponsor: Dr. M. Wulkow Computing in Technology GmbH (CiT); Conference partner: Processes Open Access Journal

Website: www.pbm2018.ugent.be/

ISCRE 25 – 25th International Symposium on Chemical Reaction Engineering

Florence, Italy, 20-23 May 2018 (EFCE Event No. 743)

Theme: Engineering the chemical transformation by bridging science and technology
The Conference will cover both the latest methodological developments as well as the many emerging applications of CRE to crucial technologies for energy conversion, environmental protection and sustainable chemicals production. The 2018 EFCE Excellence Award in Chemical Reaction Engineering is planned to presented.

Conference topics: Chemical Kinetics (a. Heterogeneous & homogeneous catalytic reactions; b. Homogeneous & heterogeneous non-catalytic reactions; c. Biotech reaction systems); Advances in Chemical Reactor Engineering and Design (a. Multiphase reactors; b. Multifunctional & non-conventional reactors; c. Structured catalysts & reactors; d. Safe operation of chemical reactors); Multiscale Approaches to Chemical Reaction Engineering (a. Homogeneous and multiphase CFD modeling; b. Analysis & design of porous media; b. Integration of the chemical reactor in plant layout); 4) Novel Materials in Reaction Engineering (a. Catalysts, sorbents; b. Novel porous materials; c. Membranes); 5) Gianni Astarita Young Investigator Award

Plenary Speakers: Dr. Domenico Elefante, Eni; Prof. Micheal P. Harold, University of Houston, USA; Prof. Guy Marin, Universiteit Gent, Belgium; Prof. Katharina Kohse-Höinghaus, niversität Bielefeld, Germany; Prof. Ning Yang, Chinese Academy of Sciences, PR China; Dr. Ted Calverley, Dow Chemicals, USA.

Registration opens in January 2018. Deadline for early registration: end of March 2018 Website: www.aidic.it/iscre25/

28th European Symposium on Computer Aided Process Engineering - ESCAPE-28

Graz, Austria, 10-13 June 2018 (EFCE Event No. 745)

Practitioners and academics working in the field of Computer Aided Process Engineering are invited to present up-to-date original research and developments to the 28th Edition of the European Symposium on Computer Aided Process Engineering (ESCAPE-28). The ESCAPE series is organised every year by the EFCE Working Party on Computer Aided Process Engineering (CAPE). During ESCAPE28, the biennial EFCE Excellence Award to recognise outstanding PhDs will be presented (for further information and submission of nominations, see www.efce.info/ExcellenceAwardCAPE.html).

Conference themes: Model Development and Simulation; Methods, Software and Tools; Open Science Movement and Education; Process Synthesis, Process Design and Life Cycle Modelling; Process Operation and Control; Bioresources, Bioprocesses and Biomedical Systems; Environment and Energy; Food, (Bio-)Pharma, and Fine Chemicals.

The call for abstracts is closed! Full paper submission deadline: 12 December 2017 Website: www.tugraz.at/events/escape28/

CHISA and PRES 2018 Prague, Czech Republic, 25-29 August 2018 (EFCE Event No. 752)

The 23rd International Congress of Chemical and Process Engineering - CHISA 2018 Prague and the 21st Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction - PRES 2018 will be jointly held in Prague on 25-29 August 2018, 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.

The programme covers invited plenary lectures and keynote lectures, parallel lecture sessions, and poster sessions. Some symposia will be coorganised with the corresponding EFCE Working Parties and/or other recognised international bodies.

CHISA 2018 Topics: Reaction engineering, catalysis and kinetics (reactors and transport phenomena, catalysis and particles, reforming and FT, 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; and a number of specialised symposia

PRES 2018 Topics: Process Integration for

sustainable development; Process analysis, modelling and optimisation; Total Site Integration; Heat transfer and heat exchangers; Energy saving and clean technologies; Sustainable processing and production; Renewable and high efficiency utility systems; Footprint minimisation and mitigation; Operations and supply chain management; Waste minimisation, processing and management; Batch process analysis and integration; Process network dynamics, flexibility and control; Industrial implementation and optimisation; Numerical fluid flow and heat transfer simulation; Sustainability and Process Integration teaching, learning and knowledge tools; and a number of special sessions.

The call for papers is still open! Abstract submission deadline: extended to 15 January 2018. After this date the papers will be accepted for poster presentation only. Website: http://2018.chisa.cz/

8th European Summer School on Electrochemical Engineering – ESSEE Toulouse, France, 27-31 August 2018

The 8th ESSEE is organised by the EFCE Working Party on Electrochemical Engineering and the l'Université Toulouse III - Paul Sabatier. It promotes the sharing of knowledge and the networking in the field of electrochemical engineering and applied electrochemistry, specifically the application of chemical engineering concepts and methodologies to electrochemical processes and related technologies.

Early registration rates will be available until 30 June 2018. For further information, please visit: https://8essee2018.sciencesconf.org/

16th European Conference on Mixing Toulouse, France, 9-12 September 2018 (EFCE Event No. 746)

The successful series of European Conferences on Mixing, which is organised by the EFCE Working Party on Mixing, has been running since 1974 and attracts academics and industrialists from all over the world to discuss progress on mixing technology, research and applications in the process industries.

Topics: The conference covers mixing in batch, semi-batch and continuous flows, as well as in novel equipment types, including those used for process intensification. It welcomes works employing experimental and/or numerical techniques (e.g. CFD) to explore challenges in the following mixing topics: Single phase mixing, from turbulent to laminar flow; Analysis of mixing using advanced measurement techniques; Gas-liquid mixing applications; Solid-liquid mixing; Liquid-liquid mixing; Mixing of products high viscosity

and complex rheology; Mixing in reactive flows; Mixing in novel equipment type; Simulations and Computational Fluid Dynamics; Heat transfer and mixing.

Keynote speakers: Prof. Giuseppina Montante, University of Bologna, Italy; Dr. Andrea Ducci, University College London, UK; Dr. Richard Grenville, Philadelphia Mixing Solutions Ltd., USA; Prof. Matthias Kraume, Technical University of Berlin, Germany; Prof. François Bertrand, École Polytechique de Montréal.

Save the date! The call for papers will open on 8 January 2018; Deadline for abstract submission: 1 April 2018. Website: http://inpact.inp-toulouse.fr/MIXING16/

Distillation & Absorption 2018 Florence, Italy, 16-19 September 2018 (EFCE Event No. 737)

The international conference Distillation & Absorption 2018, to be held in Florence, Italy, will showcase the newest and best in distillation & absorption technology and will cover a broad range of fundamental and applied aspects. The conference series is the leading international forum for research, development, standards and applications

related to this domain. The event is organised by AIDIC, in close collaboration with the EFCE Working Party on Fluid Separations. The conference will include plenary contributions by outstanding speakers from both industry and academia, oral and poster presentations. Other special events include vendor exhibits, the DA2018 poster award and the presentation of the EFCE Fluid Separations Excellence Award.

Topics: Basic data and fundamental principles; Carbon capture and absorption; Conceptual process design and Life Cycle Analysis; Modelling and simulation; Control, operation, troubleshooting and manufacturing excellence; Reactive and hybrid separations; Emerging separations and technologies; Fine chemicals, pharma and bio based processes; Equipment design; Energy efficiency and technology.

Plenary Speakers: Dr. Regina Benfer, BASF SE, Germany; Dr. Izak Nieuwoudt, Koch-Glitsch, USA; - Dr. Michele Viglianisi, ENI, Italy; Prof. Andrzej Gorak, University of Dortmund, Germany; Prof. Hanna Knuutila, NTNU, Norway.

The call for papers is closed! Manuscript submission deadline: 31 January 2018. Website: www.aidic.it/da2018/

EFCE Events in 2019/20

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

Loss Prevention 2019
Delft, The Netherlands, 16-19 June
2019 (EFCE Event No. 750)

Welcome to the Loss Prevention 2019! After 45 years, this most prestigious conference in the world in the field of risk and safety related to the chemical and process industries, organised by the EFCE Working Party on Loss Prevention, has returned to the Delft University of Technology in the Netherlands.

We are experiencing challenging times due to exciting technological advances and fast-developing societal developments which will require further research and applications for improvement in order to adequately cope with them. Exchanging information, disseminating data and stimulating the development of new methods to reduce the risk of incidents/accidents in the process industries, is indeed a must and a need.

Transfer to practice is as important as

development of know-how, and many challenges are still to be addressed in order to make further progress in safety, and process safety in particular.

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

Topics: Risk assessment and safety management; Human and organisational factors of risk and safety; Process safety engineering and technological innovations; Fires, explosions, and toxic releases; Simulation and modelling for safer processes; Physical security and cyber security in process plants; Learning from accidents and process safety education; Communication of risk and process safety information; Leadership, risk governance, and regulatory issues.

The call for papers is open. Deadline for abstract submission: 27 March 2018 Website: www.lp2019.org

EFCE Events in 2019/20

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

ECCE12/ECAB5 - 12th European Congress of Chemical Engineering & 5th European Congress on Applied Biotechnology Florence, Italy, 15-19 September 2019 (EFCE Event No. 744)

Save the date!

21st International Symposium on Industrial Crystallization - ISIC21 Potsdam, Germany, 8-11 September 2020 (EFCE Event No. 751)

Save the date!

The call for papers will open in September 2019.

Website: http://www.dechema.de/ISIC_21



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Ines Honndorf, e-mail: honndorf@dechema.de

Claudia Flavell-While, e-mail: claudia@icheme.org

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