



## Contribute to ECCE12 & ECAB5 now!

We are again pleased to invite you to participate to this year's major EFCE events **ECCE12 & ECAB5** in **Florence, Italy, from 15 to 19 of September 2019**, organized by AIDIC under the auspices of EFCE and ESBES.

It is an excellent place to meet with other colleagues and groups in Chemical Engineering and the EFCE, and of course to hear about recent research and development.

**Plenary Lectures:** The Conference team have assembled a great list of plenary speakers including **Scott Fogler**, Professor of Chemical Reaction Engineering of the University of Michigan, **Flavio Manenti**, Professor of Chemical Plants and Operations at Politecnico di Milano, **Immaculada Ortiz**, Professor in Chemical Engineering at the University of Cantabria, **Juergen Pleiss**, Professor of Bioinformatics at the University of Stuttgart, and **Marinke Wijngaard**, Managing Director of Circular Economy and Environment at TNO.

### Call for Abstracts:

**The abstracts inbox is still open for your contribution!** The deadline has been extended to **28 February 2019**.

### Exhibition & Sponsorship Opportunities:

AIDIC invites companies to participate as a sponsor and/or exhibitor of ECCE12 & ECAB5. The European Congress presents an opportunity for companies to showcase the very best of their innovation and

enterprises. Diverse sponsorship and exhibition opportunities are available that meet any requirement and budget.

For further information and the Sponsorship Registration Form, please visit the Congress website. Specific requests can be addressed to the dedicated e-mail address: [sponsorship@aidic.it](mailto:sponsorship@aidic.it).

### ECCE12 & ECAB5 website:

[www.ecce12-ecab5.org](http://www.ecce12-ecab5.org)

Welcome to this second issue of the EFCE News.

If you have any comments on the newsletter please get in touch.

*Hermann Feise*  
EFCE President

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## DIGITALISATION IN CHEMICAL ENGINEERING

1st March 2019  
Frankfurt - Germany

### JOIN US for the 2nd European Forum on New Technologies – Digitalisation in Chemical Engineering Frankfurt, Germany, 1 March 2019

Digitalisation has the potential to change the way we work in Chemical Engineering. In particular it is likely to change the way the process industries work with the potential of big data and its analysis making the operations and the supply chain much more responsive. It could also significantly change the innovation process in developing new products and processes. What are the potential effects on sustainability, quality, safety, predictive capability and of course profitability? What are the challenges and opportunities, and how can the EFCE and its Working Parties and Sections work together to address them? How can we engage the European Chemical Engineering community, both academic and industrial?

**Topics:** Vision for Digitalisation in the Process Industry; The potential of Digitalisation; The role of Digitalisation across the life cycle: in R&D, Design, and Operations; Round table discussions

and potential outcomes include proposals, challenges, workshop ideas.

**Speakers:** Hergen Schultze, BASF; Martin Winter, CEFIC; Sebastian Carsch, Fraunhofer IVV; Michel Dumontier, Maastricht University; Frode Brakstad, SINTEF; Maurizio Rovaglio, Siemens; François Marechal, EPFL and EFCE Energy Section Chair; Georgios Tetradis-Meris, Unilever; Costas Pantelides, PSE Ltd; Christoph Herwig, TU Wien and EFCE Quality by Design Working Party Chair; Nilay Shah, Imperial College London.

Download the preliminary programme here:  
[https://efce.info/European\\_Forum/\\_/program%20DIGITALISATION.pdf](https://efce.info/European_Forum/_/program%20DIGITALISATION.pdf)

**Registration fee: 190 Euros (including business lunch and coffee break)**  
**Register NOW!**

**Website:** [https://efce.info/European\\_Forum.html](https://efce.info/European_Forum.html)

## EFCE Calls for Nominations

The following calls for nominations/applications are still open:

- **Student Mobility Award 2019**  
Deadline for submission of applications:  
**1 March 2019**  
*Sponsored by BASF SE*  
**Website:** [www.efce.info/Student\\_Mobility\\_Award.html](http://www.efce.info/Student_Mobility_Award.html)
- **Excellence Award in Product Design and Engineering 2019**  
Deadline for submission of nominations:  
**1 March 2019**  
*Sponsored by Beiersdorf*  
**Website:** [www.efce.info/ExcellenceAwardProductDesign.html](http://www.efce.info/ExcellenceAwardProductDesign.html)
- **Excellence Award in Drying and Freeze-Drying 2019**  
Deadline for submission of nominations:  
**31 March 2019**  
*Sponsored by Criofarma s.a.s.*  
**Website:** [www.efce.info/ExcellenceAwardDrying.html](http://www.efce.info/ExcellenceAwardDrying.html)

# Working Party and Section News

## Changes of Chairmanship

On 1 January 2019, **Professor Karel Bouzek**, University of Chemistry and Technology Prague, Czech Republic, succeeded **Prof. Manuel Rodrigo**, in the position of Chair of the EFCE Working Party on Electrochemical Engineering. Manuel Rodrigo held this position for eight years. At the same time, **Dr. Claudia Weidlich**, DECHEMA-Forschungsinstitut, Frankfurt, Germany, was appointed as the Vice-Chair of the Working Party.

In November 2018, **Dr.-Ing. Volker Heinz**, German Institute of Food Technologies, Quakenbrück, Germany, was elected as the new Chair of the **EFCE Section on Food**. He succeeded **Prof. Dietrich Knorr**, TU Berlin, who held the position for eleven years.

## 13th PhD Workshop on Food Engineering and Technology Vienna, Austria, 14-15 May 2019

*Presentations of selected national PhD candidates in Food Engineering and Technology at European level*

This year's Workshop is organized by the Section on Food of the European Federation of Chemical Engineering (EFCE) in cooperation with the University of Natural Resources and Life Sciences (BOKU) Vienna. The event is supported by the Austrian Academy of Science (ÖAW) as well as by an Industry Board consisting of Nestlé, Bühler, Hipp, GNT and Elea.

The European Workshop on Food Engineering and Technology is organized every year with the best PhD students of Europe presenting their recent results. The first workshop took place in Germany in 2007 followed by events in France, Italy, Serbia, Spain and Switzerland. They were very successful events, of high quality and well received within the Food Engineering and Technology community.

**Website:** <https://efce.info/Sections/Food/European+Food+Workshop.html>

## 8th PhD-Student Workshop on Polymer Reaction Engineering Hamburg, Germany, 14-16 June 2019

The EFCE Working Party on Polymer Reaction Engineering (PRE) offers a possibility for PhD students from all around the world to deepen and intensify the exchange in the research area of polymer chemistry and polymer reaction engineering. Therefore, we would like to invite

you to the 8th PhD-Student Workshop on Polymer Reaction Engineering.

It is going to take place as a direct follow-up event to the direct follow-up event to the 13th International International Workshop on Polymer Reaction Engineering (PRE 2019) in Hamburg, Germany, on 14 to 16 June 2019.

This workshop is especially designed for PhD students, seeking contact to fellow students as well as polymer industry. They are encouraged to present their PhD topic to a professional audience and simultaneously meet industry representatives and potential employers personally. The course fee for PhD students is EUR 100 and covers attendance and course material as well as the participation in the social activities.

**The registration is open. Register online via the following URL:**

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

**Abstract Submission Deadline: 15 April 2019**

**Registration Deadline: 30 April 2019**

**Registration Fee Deadline: 15 May 2019**

**For further information, please visit:**

[www.efce.info/PhDStudent\\_Workshop\\_WPPRE](http://www.efce.info/PhDStudent_Workshop_WPPRE)



## In memoriam - Professor Geoffrey Hewitt (1934-2019)

Professor Geoffrey (Geoff) Hewitt, Imperial College London, esteemed colleague and long-standing member of the

EFCE Working Party on Multiphase Fluid Flow since 1996 passed away peacefully on the 18th of January 2019.

Geoff Hewitt was a world-leading expert in multiphase flows and his work has inspired generations of researchers. He dedicated much of his time and efforts to our community of multiphase flow, helping to build it up since the first years.

Forever we will remember his enthusiasm for science and extraordinary kindness!

*Michael Schlueter*

*Chairman - EFCE WP on Multiphase Fluid Flow*

**A more detailed obituary can be found at:**

[www.thechemicalengineer.com/news/geoffrey-hewitt-1934-2019](http://www.thechemicalengineer.com/news/geoffrey-hewitt-1934-2019)

# Events organised by or on behalf of EFCE in 2019/21

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

## 2nd European Forum on New Technologies

**Frankfurt am Main, Germany, 1 March 2019 (EFCE Event No. 763) – see above**

**Website:** [https://efce.info/European\\_Forum.html](https://efce.info/European_Forum.html)

## 17th European Meeting on Supercritical Fluids and 7th European Meeting on High Pressure Technology

**High Pressure Process Technology Ciudad Real, Spain, 8-11 April 2019 (EFCE Event No. 759)**

The International Society for Advancement of Supercritical Fluids (ISASF) and the Organizing Committee of the 17th European Meeting on Supercritical Fluids (EMSF), including the EFCE Working Party on High Pressure Technology, welcome you to Ciudad Real. This is the 17th of a fruitful serie of meetings, where Scientists, Students and Industry Partners discuss current developments and innovations based on the extraordinary properties of supercritical fluids. Plenary speakers: Dr. Gerd Brunner, Dr. María José Cocero, Dr. Jerry King, Dr. Thomas Müller

**Sponsors:** Mervilab, Pisa, Parker, Waters, UCLM, DIQ

**Register now!**

**Website:** <https://eventos.uclm.es/16387/detail/17th-european-meeting-on-supercritical-fluids-emsf-2019.html>

## 2nd International Process Intensification Conference – IPIC2 Leuven, Belgium, 27-29 May 2019 (EFCE Event No. 760)

Process intensification is transforming chemical engineering processes and plants. New targets replace traditional guidelines in process design: substantial improvement of the equipment size/production ratio and severe reduction of energy consumption and waste generation. IPIC2 will be an excellent opportunity to learn about recent implementations in industry, the latest advances in research, and the current offer from

technology providers. Furthermore, discussions on the state of the art and future perspective of process intensification will keep you updated on future trends. We specifically reach out to our colleagues in other continents to build a global PI community.

**Themes:** Batch to Continuous; Energy Activation for Processes and Materials; Multifunctional Reactors and Hybrid Separators; Modular Processes; Microreactors; 3D Printing and Process Intensification; Novel Process and Equipment Concepts; Modelling and Control of Intensified Processes; Scale up and Industrial Implementation.

**Register now. Deadline for early bird registration: 15 March 2019**

**Website:** <https://kuleuvencongres.be/ipic2019>

## 23rd Polish Conference of Chemical & Process Engineering

**Jachranka-Warszawa, Poland, 2-5 June 2019 (EFCE Event No. 753)**

**Theme:** Scientific and industrial progress for sustainable processes and products

The current 23rd edition of this conference, organised by the Faculty of Chemical and Process Engineering of the Warsaw University of Technology under auspices of the Committee of Chemical & Process Engineering of the Polish Academy of Sciences, will be held in Jachranka, the small resort located close to Warsaw on the shore of the artificial lake – Zalew Zegrzyński.

**Topics:** Advances in Chemical Engineering Fundamentals; Chemical reaction engineering – Novel Experimental Approach, Modelling and Optimization; Product Design and Novel materials application; Bioengineering and Biotechnology; Environmental & Sustainable Chemical Engineering; Chemical Industry 4.0.

**Register now!**

**Website:** <http://ichip2019.pl>

## **Loss Prevention 2019 – 16th International Symposium on Loss Prevention and Safety Promotion in the Process Industries and accompanying exhibition**

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

Loss Prevention 2019 is organised by the EFCE Working Party on Loss Prevention, has returned to the Delft University of Technology in the Netherlands.

**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.

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

**Sponsors:** Silber sponsors: OCI Nitrogen, DSM; Bronze Sponsors: Shell, Total, TÜV Süd.

**Register now! Deadline for early bird registration: 1 April 2019**

**Website:** [www.lossprevention2019.org](http://www.lossprevention2019.org)

## **29th European Symposium on Computer Aided Process Engineering - ESCAPE29**

***Eindhoven, The Netherlands, 16-19 June 2019 (EFCE Event No. 758)***

ESCAPE-29 is organised under the auspices of European Federation of Chemical Engineering, Nederland Procestechologie (NPT), and Process Systems Engineering NL (PSE-NL).

ESCAPE-29 aims to bring together researchers and practitioners of computer-aided process engineering (CAPE) community, and provide a forum to present and evaluate emerging research methods and concepts, and to learn from industrial case studies. The boundaries of CAPE have expanded and the research interests cover a wide range of interdisciplinary problems related to the current needs of the modern society and industry.

**Themes:** Process-product synthesis, design and integration; Methods, models and computational tools for PSE; Process control and operations; CAPE/PSE in sustainable

development and food industry; CAPE/PSE in energy transition; CAPE/PSE in hi-tech micro/nano-devices and processes; Education in CAPE/PSE & knowledge transfer.

**Plenary Lecturers:** Prof. Zoltan Nagy, Purdue University, USA; Prof. Megan Jobson, The University of Manchester, UK.

**Sponsors:** Shell, BASF, PSE, DOTX, Corbion.

**Register now! Deadline for early bird registration: 4 March 2019**

**Website:** <http://escape29.nl/>

## **3rd ANQUE-ICCE International Congress of Chemical Engineering Santander, Spain, 19-21 June 2019 (EFCE Event No. 757)**

**Theme:** Building Bridges in Chemical Engineering

ANQUE-ICCE 3 will be organised by ANQUE, the Spanish National Association of Chemists and Chemical Engineers, in collaboration with AQUIQÁN, the Association of Chemistry and Chemical Engineering of Cantabria. This international congress aims to be a reference in the field of chemical engineering and chemistry applied to the industry. All key areas for chemical engineers will be included in the program, providing ample opportunities to exchange up-to-date information and extend professional and personal networks. The congress incorporates the specific event "1er Congreso Iberoamericano de Ingeniería Química".

The "ICCE Student Conference", which is a unique opportunity to join together chemical engineering students, with a variety of activities and competitions that will be useful for their training, will be held on 17-18 June 2019

**General ICCE3 Topics:** Knowledge, Education & Training; Unit Operations & Separation Processes; Chemical Reaction Engineering; Process Systems Engineering; Product Engineering & Advanced Materials; Applied Biotechnology; Environmental & Sustainable Chemical Engineering.

**Symposia:** Lignocellulosic wastes valorization; Bioeconomy: renewable resources for energy and chemicals production; Sustainable Development Goals: a challenge for Chemical Engineering.

**Workshops:** Mitigation of the environmental impact of fluorinated gases; Renewable Hydrogen Energy World.

**The call for papers is open! Deadline for abstract submission: 29 March 2019**

**Website:** <https://anque.es/congresos/>

**7th European Drying Conference – EuroDrying'2019**  
**Torino, Italy, 10-12 July 2019 (EFCE Event No. 762)**

**Motto: Drying for better life: food, pharmacy and art**

The Politecnico di Torino is proud to host the 7th edition of the European Drying Conference. The Conference series is supported by the Working Party on Drying (WPD), within the framework of the EFCE. The Conference deals with cutting-edge research in drying field, enabling researchers and technicians to exchange ideas and innovation on drying methods, modeling and applications.

Main topics: Fundamentals of drying; Modelling and simulation; Physical properties; Chemical, ceramic, textile and polymer materials; Food and agricultural materials; Pharmaceutical and biomaterials; Measurements and process control; Industrial processes and equipment; Innovative technologies; Energy and environmental implications; Cultural heritage and art

Participants from Industry can also select the "Special industrial section" option.

The Conference proceedings will be published as ISBN book; in addition it is planned to publish the selected papers in Drying Technology Journal.

**Register now.**

**Website:** [www.eurodrying2019.com/](http://www.eurodrying2019.com/)

**16th European Congress on Comminution and Classification - ESCC 2019**

**Leeds, United Kingdom, 2-4 September 2019 (EFCE Event No. 761)**

The next European Symposium on Comminution & Classification (ESCC) will take place at the University of Leeds, UK, and is organised on behalf of the EFCE Working Party on Comminution and Classification.

The conference will cover themes on foods, pharmaceuticals, mineral processing, fine and ultrafine grinding in the chemical and allied industries, fundamentals of breakage and comminution models as well as new applications. We will have plenary and keynote lectures from leading comminution and classification experts from all over the world, poster sessions and exhibitions by instrument manufacturers. ESCC is a focussed forum in which you have the opportunity to discuss current trends in this area and learn from other industries and can transfer

knowledge to your own applications.

**The abstract submission is open.**

**Deadline: extended to 28 February 2019**

**Website:** <http://www.escc2019.com>

**ECCE12/ECAB5 – 12th European Congress of Chemical Engineering & 5th European Congress on Applied Biotechnology**

**Florence, Italy, 15-19 September 2019 (EFCE Event No. 744) – see above**

**Website:** [www.ecce12-ecab5.org](http://www.ecce12-ecab5.org)

**7th Symposium on Product Design and Engineering**

**Florence, Italy, 15-19 September 2019, in conjunction with ECCE12 & ECAB 5**

The EFCE Section on Product Design and Engineering ([www.efce.info/SectionPDE.html](http://www.efce.info/SectionPDE.html)) is pleased to announce the Call for Abstracts for its 7th Symposium on Product Design and Engineering. This symposium is held in the frame of the 12th European Congress of Chemical Engineering ([www.ecce12-ecab5.org/](http://www.ecce12-ecab5.org/)) in the city of Florence, Italy, from 15 to 19 September 2019.

Product design and engineering is considered a branch of the general chemical engineering discipline at the interface between the fields of chemical engineering, formulation science & technology and materials science & engineering. It is applied in many industrial areas such as pharmaceutical, biomedical, food and feed products, cosmetics, adhesives, coatings, composites, etc. as all require research into the physical, chemical and biological processes that create specific formulated product structures.

Topics: Structured product design and engineering methodology covering all elements in the product supply chain; Molecular design and engineering of properties; Understanding of molecular/micro-structure and product performance relationships; Insight into molecular/micro-structure and processing relationships

We very much welcome contributions both from industry and academia!

**Abstract Submission Deadline:**

**28 February 2019**

**Submission Web Page:** [www.aidic.it/ecce12/symposium5.php](http://www.aidic.it/ecce12/symposium5.php)

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

Crystallization occurs in many natural physical, biological, and chemical systems, and is exploited in numerous applications, ranging from novel environmental and purification technologies to the production of bulk and fine chemicals, as agrochemicals, pharmaceuticals, food ingredients and pigments. Active research is done on a broad range of subjects from fundamentals to industrial applications resulting in new findings, innovative processes and products. The ISIC meetings, taking place every three years, aim to provide a broad overview of the current science and technology of crystallization and, to bring together scientists and engineers of various disciplines, both academic and industrial, from all over the world to meet and exchange ideas. The symposium, initiated by Jaroslav Nývlt in 1960, is organized under the auspices

of the EFCE's Working Party on Crystallization since 1978 and, has become the premier international conference in the field of industrial crystallization.

**Key Topics:** Fundamentals of crystallization; Crystallization and precipitation in fine chemical, specialty & life-science industries; Developments in large scale industrial crystallization; Contributions of crystallization to sustainability; Integrated process design: Crystallization in the industrial process chain.

**The call for papers will open in September 2019.**

**Website:** [www.dechema.de/ISIC\\_21](http://www.dechema.de/ISIC_21)

## **ECCE13/ECAB6 - 13th European Congress of Chemical Engineering & 6th European Congress on Applied Biotechnology**

**Berlin, Germany, 19-23 September 2021 (EFCE Event)**

**Save the date!**



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