



# EFCE Early Career Engineers' Forum

22 APRIL 2021, ONLINE

## Call for papers

Young professionals or early career engineers in chemical engineering are confronted with specific challenges ranging from the need to form a professional network to the wish to understand the unwritten rules of the workplace to the desire to identify the opportunities ahead of them. Professional organisations representing chemical engineering are tasked to support their members in these activities. The European Federation of Chemical Engineering (EFCE) will organize an EFCE Forum event, specifically tailored to these subjects. The **EFCE Early Career Engineers' Forum** will feature networking opportunities as well as best practice exchange on activities targeting engineers at the start of their careers.

The EFCE Early Career Engineers' Forum will contain a plenary style webinar showcasing activities by EFCE or its EFCE Member Societies targeting young professionals, e.g. *Young AIDIC in Italy* or the *ChemCar-Competition* in Germany. In addition, a workshop style web event on opportunities for (local) young professional events and a workshop targeting the formation of an EFCE Early Career Engineers' initiative on sustainability will be held.

Member Societies, universities, young professional groups and individuals are invited to contribute to the webinar and the workshops with short presentations.

The event will feature three sessions:

- European Early Career Activities (Plenary Presentation)

- Early Career Round Table Discussion (Workshop)
- Global Perspectives on Sustainability (Workshop)

### Submit your abstract now!

Abstract submission is open until **26 February 2021.**

We look forward to a truly exciting event!

For further details and the submission form, go to: <http://www.efce.info/EarlyCareerEngineersForum>

Welcome to the first 2021 issue of the EFCE News. If you have any comments on the newsletter please get in touch.

*Hermann Feise*  
EFCE President

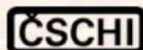
### In this issue:

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**CHISA 2021** | 15 - 18 MARCH 2021  
VIRTUALLY

Organized by:



Menu

# CHISA 2021 Virtually

15-18 March 2021

The Czech Society of Chemical Engineering (CSCHE) invites you to the upcoming International Congress of Chemical and Process Engineering CHISA, which will be held virtually from 15 to 18 March 2021. As all the CHISA Congresses in the past, also this one will cover a range of attractive topics and will offer many interdisciplinary links. However, this time, all the matter will be available on-line!

Join CHISA 2021 VIRTUALLY and cooperate with others to bring the highest level of the chemical engineering science to the congress on-line auditory.

**Topics:** I. We Think Global; II. Energy First; III. Continuous Processing and Miniaturisation, Mixing; IV. Industry 4.0; V. Advanced Functional Materials, Structures and Components; VI. The Green Square; VII. The Essentials; VIII. Hand in Hand; VIII. The Wiley-VCH Poster Session. For details see: <https://2020.chisa.cz/scientific-program/#main-topics>

**Plenary Speakers (in alphabetical order):** David Bogle, Timothy Noël, Julian Thiele, Edwin Zondervan

**Concert:** In spite of the upcoming CHISA will be carried out completely in the virtually space, the traditional classical music concert will not be missing. The highly prestigious ensemble of ancient and baroque music Collegium 1704 (<https://www.collegium1704.com/en/>) is going to perform Mozart, Bach and Myslivecek exclusively for the CHISA Virtually audience. Do not miss this great opportunity!

**The call for papers is still open for your contribution to CHISA 2021 VIRTUALLY.**

**Deadline for poster contributions:**  
**15 February 2021**

**Register NOW at <https://virtually.chisa.cz/general-information/#registration>.**

**Early bird registration deadline:**  
**15 February 2021**

**Join CHISA 2021 VIRTUALLY for keeping the chemical engineering community alive!**

**Website:** <https://virtually.chisa.cz/welcome/>

## News in Brief

- At the last business meeting, the **EFCE Working Party on Computer Aided Process Engineering - CAPE** decided to assign its Long Term Achievements Award to Prof. Lorenz Biegler, Covestro University Professor in the Chemical Engineering Department at Carnegie Mellon University. The Award will be presented at ESCAPE-31 in June 2021.
- The **EFCE Working Party on Electrochemical Engineering** in a fresh new look: see its new Logo!

**wpee+**

WORKING PARTY  
ON ELECTROCHEMICAL ENGINEERING

# ECCE21 AB

Engineering the Future

virtual event

20 - 23 September 2021

<https://ecce-ecab2021.eu>

## ECCE13 & ECAB6 go virtual

20–23 September 2021 (EFCE Event No. 767)

### **Motto: Engineering the Future**

Chemical engineering, biotechnology and bioprocessing are more important than ever to meet current challenges thus as climate change, circular economy or pharmaceutical production. To enable an international scientific exchange despite restrictions that are expected to be still in place in September 2021, the **13th European Congress of Chemical Engineering and 6th European Congress of Applied Biotechnology from 20–23 September 2021 will go virtual!**

ECCE and ECAB cover the whole range of relevant topics from laboratory research via process development and chemical reaction engineering to challenges from industrial practice and overarching topics such as quality management and education. A virtual poster exhibition with opportunities for discussion, interactive workshops and panel discussions as well as high-ranking plenary presentations complement the scientific program.

### **Call for Papers – deadline extended**

With the decision made, planning will be much easier for all of you as well and while some may have hesitated to submit a contribution for a physical event, you haven't missed out yet: The submission deadline has been extended.

The submission deadline for lectures has been extended to **1 March 2021**

Posters can be submitted until **31 March 2021**.

Abstracts are welcome on all topics of process and chemical engineering as well as biotechnology.

Please consult the website for further details:  
<https://ecce-ecab2021.eu/Topics.html>

### **Become a sponsor**

ECCE and ECAB offer attractive sponsoring packages for companies and institutions! Present your services and technologies to c. 2,000 expected attendants and use your virtual exhibition booth to reach out to students, young professionals and potential cooperation partners. Book your virtual booth now.

### **Exhibition**

We offer two packages of virtual company booths.

**Website:** <http://ecce-ecab2021.eu/>

**Twitter:** #ecceecab21

# EFCE awards – calls for nominations

## EFCE calls for nominations in the field of mixing

### 2021 Young Researcher Award in Mixing

The European Federation of Chemical Engineering (EFCE) and its Working Party on Mixing are pleased to present the calls for nominations for the **2021 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.

Previous Award winners are Giorgio Micale (2000), Joëlle Aubin (2003), Giuseppina Montante (2006), Andrea Ducci (2009), Sebastian Maaß (2012), Claudio Antonio Pereira da Fonte (2015), and Federico Alberini (2018).

The award consists of a certificate, a cash prize of 1,500 euros, and an invitation to the **17th European Conference on Mixing**.

Any young researcher (less than 35 years old) who has completed his/her PhD in the field of mixing at a European university and is currently active in the mixing research is eligible for nomination.

Closing date for nominations:  
**Monday, 15 March 2021**

For further information about the nomination procedure, eligibility, supporting documentation, etc., please refer to the EFCE website at [https://www.efce.info/YoungResearcherAward\\_Mixing](https://www.efce.info/YoungResearcherAward_Mixing)

**EKATO** The Award is generously sponsored by EKATO.

#### About Ekato

*In the past 85 years EKATO has developed to world market leader in stirring and mixing technology for all process-oriented industries.*

*The EKATO GROUP companies offer optimized mixing technology, from molecular, robust and rapidly available industrial agitators over industrial solutions for reactor agitators on sophisticated mixing processes up to complete process plants including automation.*

*EKATO has been family-owned since its foundation in 1933 and is represented worldwide with subsidiaries in Europe, Asia, Australia, South America, South Africa and the USA as well as a network of trading partners. At the state-of-the-art research and development center in Schopfheim, EKATO offers engineering services from process development to process optimization to make*

*customer processes and mixing procedures more reliable and efficient.*

### 2021 Nienow Lifetime Recognition Award in Mixing

The European Federation of Chemical Engineering (EFCE) and its Working Party on Mixing are pleased to present the calls for nominations for the **2021 Nienow Lifetime Recognition Award in Mixing**.

The Lifetime Recognition Award was established in 2000 in recognition of outstanding contribution to mixing research and practice to a senior researcher or industrial engineer belonging to one of the EFCE member countries throughout his/her career.

Previous Award winners were John Smith (2000), Alvin Nienow (2003), John Bourne and Ivan Fort (2006), Joël Bertrand (2009) Franco Magelli (2012), Harry van den Akker (2015), and Michael Yianneskis (2018).

The award consists of a plaque, a certificate, a cash prize of 1,000 euros, and an invitation to the 17th European Conference on Mixing.

Nominations must be submitted by members of a national or regional member association of EFCE.

Closing date for nominations:  
**Monday, 15 March 2021**

For further information about the nomination procedure, eligibility, supporting documentation, etc., please refer to the EFCE website at [https://efce.info/Nienow\\_LifetimeRecognitionAward\\_Mixing](https://efce.info/Nienow_LifetimeRecognitionAward_Mixing)

The Award is generously sponsored by **Alvin and Helen Nienow**.

#### About Alvin and Helen Nienow

*Professor Alvin W Nienow, DSc, FIChemE, FREng was a member of the Organizing Committee of the First European Mixing Conference in 1974. Since that time, he has been on the Organizing or Scientific Committee and contributed technically to the Conference series and to mixing research and practice as such. He was also a winner of the 2nd LRA in 2003 when it was sponsored by Ekato. He and his wife Helen count many people in Europe and world-wide working in mixing as their friends. Alvin and Helen are sponsoring this prize starting from the 2021 edition in recognition of the contribution that mixing in general and the European mixing community in particular has made to enhance the quality of their lives.*

## The following calls for nominations are still open:

- **EFCE Student Mobility Award 2021**

Closing date for applications: **1 March 2021**

*The Award is generously sponsored by **BASF SE**.*

Further information: [https://www.efce.info/Student\\_Mobility\\_Award.html](https://www.efce.info/Student_Mobility_Award.html)

- **EFCE Process Intensification Award for Industrial Innovation 2021**

Closing date for nominations: **15 March 2021**

*The Award is generously sponsored by the European Process Intensification Centre – **Europic**.*

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

- **Excellence Award in Product Design and Engineering 2021**

Closing date for nominations: **1 March 2021**

*The Excellence Award is generously sponsored by **Beiersdorf AG**.*

Further information: <http://www.efce.info/ExcellenceAwardProductDesign.html>

- **EFCE Excellence Award in Process Intensification 2021**

Closing date for nominations: **15 March 2021**

*The Excellence Award is generously sponsored by **Microinnova**.*

Further information: <http://www.efce.info/ExcellenceAwardProcessIntensification.html>

- **EFCE-EMS Joint Excellence Award in Membrane Engineering**

Closing date for nominations: **15 March 2021**

*The Excellence Award is generously sponsored by the **European Membrane Society (EMS)**.*

Further information: <http://www.efce.info/ExcellenceAwardMembraneEngineering>

- **EFCE Excellence Award in Fluid Separations 2022**

Closing date for nominations: **7 March 2022**

*The Excellence Award is generously sponsored by **Evonik***

Further information: <http://www.efce.info/ExcellenceAwardFluidSeparations.html>

## EFCE Bologna recommendations update 2020

In 2020, the EFCE Working Party on Education updated its Bologna Recommendations. Hermann Feise, the president of EFCE, and Eric Schaer, the chairman of the WP on Education, explain the background for the project and the recent update.

**Q: The WP Education has published the Bologna Recommendations since 2005, and previously updated them in 2010. Why did the WP produce this document originally?**

A: The European Union's Bologna Declaration in 1999 was designed to modernise European higher education systems. The process was designed to promote students exchanges between EU countries and to ensure the quality of higher education across Europe. EFCE welcomed and supported the aims of the Bologna Declaration, including an easily readable and comparable system of higher education based on two cycles of study, as well as the development

of comparable criteria and methodologies regarding curricula development, inter-institution cooperation and mobility. This statement was followed by an update of the core curriculum requirements for first and second cycles in chemical engineering studies, developed by the members of the WPE. It was first published in 2005 as the WPE Bologna Recommendations, taking into account recent development in study organization and in curricula accreditation guidelines. The document was well received and became a much-used guide for shaping chemical engineering degree programmes.

**Q: What prompted you to update it for 2020?**

A: In 2010 the recommendations were updated in order to strengthen the outcome orientation and to include the third cycle (PhD degrees). Since then, the harmonization and accreditation of higher education degrees have seen

many changes and therefore EFCE's recommendations had to be updated to remain a point of reference when assessing the quality of a degree programme or developing new provisions in chemical engineering. Since the beginning of the Bologna Process, many new subjects have been introduced into the academic curricula, new institutions – public and private – joined the education field, the balance between various types of higher education has shifted and new modes of delivery forced their way into the higher education landscape. One can expect that the use of online teaching in particular will see an unprecedented rise due to the 2020 Covid-19 pandemic and the subsequent demand for social distancing whilst nevertheless keeping teaching alive. All of these changes require diligent consideration when trying to accommodate them while ensuring quality education programmes for the next generation.

**Q: What are the key changes?**

A: The main purpose of the EFCE's recommendations is to ensure that graduates who have completed a chemical engineering degree possess the skills required for chemical engineering practice. This includes not only knowledge of the fundamentals, such as thermodynamics, reaction engineering or separation technology, but also competences in and beyond engineering and science, such as working in teams and across borders, making judgments or improve their knowledge and skills during their careers. Higher education teachers and programme designers are challenged to accommodate new knowledge (e.g. digitalization) in the curriculum while ensuring enough time and energy is devoted to students achieving the competence levels required to practice chemical engineering. Therefore, the EFCE recommends that chemical engineering programmes include international experience, industrial practice and acquisition of transferable skills, which complement classroom and laboratory work, digital exercises and (group) projects at the university or other higher education institutions. The document also continues advice about teaching delivery methodologies, assessments, ethics or quality assurance.

**Q: What can I expect to find in the document? Who should read it?**

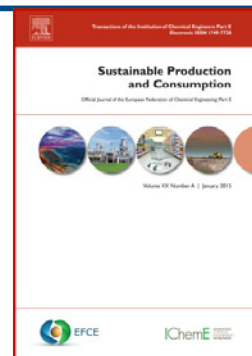
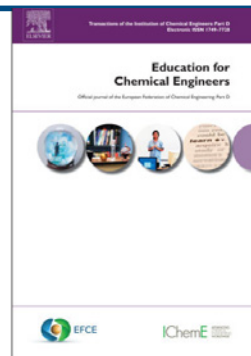
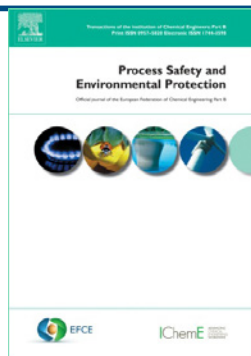
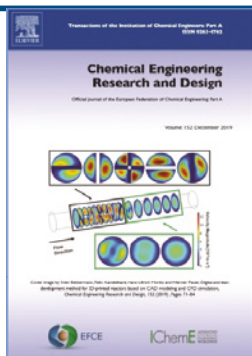
A: While the European Federation of Chemical Engineering has no mandate and no desire to enforce any ready-made teaching programmes on the institutions of higher learning, or to

hinder the development of new concepts of study, it should be of interest to people who are developing new chemical engineering courses or updating existing ones. It sets out some of the fundamentals we think degree programmes in chemical engineering should include – such as thermodynamics, fluid mechanics, transport phenomena, separation techniques or reaction engineering, as well as transferable skills, putting the emphasis on learning outcomes. Tables of course content and credits are given as exemplars, not requirements, and in any case, they only amount to two-thirds of the study time. However, the EFCE does not believe there is much that could be omitted from this core without bringing into question the validity of the course as a chemical engineering qualification. Similarly, a proper second cycle degree in chemical engineering, which has become the standard in many countries in Europe, cannot be achieved with much less than 300 ECTS credits spent on relevant subjects. In this respect, this document may also serve as a reference for students wishing to transfer from cognate disciplines to chemical engineering to indicate knowledge and skills they may be missing from their previous studies.

**Q: Do you get any feedback from universities or individuals about the document? Has it been 'used', and if so, how?**

Yes, we have had some informal feedback. Colleagues from different universities, or chemical engineering departments, used or still use this document to introduce some new courses, develop some others, intensify internships, complete the curricula in terms of learning outcomes and competencies, or develop new teaching methodologies. This is only anecdotal evidence, but it's encouraging.

**The updated Bologna Recommendations document can be found at**  
[https://efce.info/Scientific+groups/  
Education/Publications/\\_/EFCE\\_Bologna  
Recommendations\\_2020.pdf](https://efce.info/Scientific+groups/Education/Publications/_/EFCE_Bologna_Recommendations_2020.pdf)



## News about the official EFCE journals

### Read journal papers for free

The following articles / issues are set for free access periods. In addition to these, articles that are published via the open access route in the journal are also freely available to all. These are identified in ScienceDirect by a green dot. It is possible to sign up to an RSS alert specifically to inform when a new open access article is published in the journal – see individual journal pages to set this up.

#### **Chemical Engineering Research and Design**

<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design>

Freely available content:

- January 2021 issue (Volume 165) (Available for free until the end of 2021) <https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/vol/165/suppl/C>

#### **Process Safety and Environmental Protection**

<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection>

Freely available content:

- **NEW Special Issue** – Novel Technologies and Methods for Plastics Recycling <https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/special-issue/105M8QPBJRZ>
- **NEW Special Issue** – Advanced Oxidations Technologies for Environmental Protection <https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/special-issue/10DL0VF9M3K>
- **Special Issue** – Catalysis Engineering for Environmental Applications <https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/special-issue/10P3L90VKQW>

- January 2021 issue (Volume 145) <https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/vol/145/suppl/C>

#### **Food and Bioproducts Processing**

<https://www.sciencedirect.com/journal/food-and-bioproducts-processing>

Freely available content:

- January 2021 issue (Volume 125) <https://www.sciencedirect.com/journal/food-and-bioproducts-processing/vol/125/suppl/C>

#### **Education for Chemical Engineers**

<https://www.sciencedirect.com/journal/education-for-chemical-engineers>

Freely available content:

- **NEW Special Issue** – Special Issue on Current Trends in Industry Linked Education <https://www.sciencedirect.com/journal/education-for-chemical-engineers/special-issue/10GQRX2VGBV>
- January 2021 issue (Volume 35) <https://www.sciencedirect.com/journal/education-for-chemical-engineers/vol/34/suppl/C>

#### **Sustainable Production and Consumption**

<https://www.sciencedirect.com/journal/sustainable-production-and-consumption>

Freely available content:

- January 2021 issue (Volume 25) <https://www.sciencedirect.com/journal/sustainable-production-and-consumption/vol/25/suppl/C>

## Invitation to submit papers

We have a number of special issues planned that are currently open for submission. Submissions from all welcome! If you require any further information then please contact Managing Editor Catherine Cliffe [ccliffe@icheme.org](mailto:ccliffe@icheme.org)

Details as follows:

### **Chemical Engineering Research and Design**

**Special Issue:** Multi-scale Approaches in Bubble Column Fluid Dynamics (Manuscript submission deadline **31 March 2021**)

<https://www.journals.elsevier.com/chemical-engineering-research-and-design/call-for-papers/multi-scale-approaches-in-bubble-column-fluid-dynamics>

**Special Issue:** Recent Advances in Continuous Crystallization (Manuscript submission deadline **30 June 2021**)

<https://www.journals.elsevier.com/chemical-engineering-research-and-design/call-for-papers/special-issue-recent-advances-in-continuous-crystallization>

### **Process Safety and Environmental Protection**

**Special issue:** Safety and Risk Analysis in Digitalized Process Operations (Manuscript submission deadline **31 March 2021**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-safety-and-risk-analysis-in-digitalized-process>

**Special issue:** Safety, environmental and risk management related to Covid-19 (Manuscript submission deadline **31 March 2021**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/safety-environmental-and-risk-management-related-to-covid-19>

**Special issue:** Air Pollution Prevention and Identification of Pollution Sources from Chemical Industrial Parks (Manuscript submission deadline **31 March 2021**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/air-pollution-prevention-and-identification-of-pollution>

**Special issue:** Emerging Trends in Thermocatalytic, Photocatalytic, Electrocatalytic, Photoelectrocatalytic and Biological Conversion of Harmful Gases into Benign Compounds for Environmental Protection (Manuscript submission deadline **31 March 2021**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/emerging-trends-in-thermocatalytic-photocatalytic>

**Special issue:** Industry 4.0 and Digitization for Environmental Protection and Processes Safety (Manuscript submission deadline **31 March 2021**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-on-industry-40-and-digitization>

**Special issue:** Data Analytics in Process Safety (Manuscript submission deadline 30 June 2021)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-data-analytics-in-process-safety>

### **Sustainable Production and Consumption**

**Special issue:** Strategies for Resilient and Sustainable Supply Chains in an Uncertain Business Environment (Manuscript submission deadline 30 April 2021)

<https://www.journals.elsevier.com/sustainable-production-and-consumption/call-for-papers/strategies-for-resilient-and-sustainable-supply-chains>

**Special issue:** International Trade and Climate Change (Manuscript submission deadline **10 June 2021**)

<https://www.journals.elsevier.com/sustainable-production-and-consumption/call-for-papers/international-trade-and-climate-change>

**Special issue:** Sustainable Production and Consumption of Non-durable Goods in the Era of Industry 4.0 (Manuscript submission deadline **30 June 2021**)

<https://www.journals.elsevier.com/sustainable-production-and-consumption/call-for-papers/sustainable-production-and-consumption-spc>



## Events organised by or on behalf of EFCE in 2021/22

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

### CHISA 2021 Virtually – 24th International Congress of Chemical and Process Engineering

*Online, 15–18 March 2021  
(EFCE Event No. 772)*

See 'CHISA 2021 Virtually'.

### EEM21 - 7th International Congress Engineering, Environment and Materials in Processing Industry Jahorina Mountain, East Sarajevo, Bosnia and Herzegovina, 17-19 March 2021 (EFCE Event No. 777)

For the 7th time, the International Congress on Engineering, Environment and Materials in Processing Industry is organised by the Faculty of Technology, University of East Sarajevo. This year, EEM21 is going to be held as a hybrid event. EEM21 will continue to bring together leaders from industry and academia to exchange and share their experiences, present research results, explore collaborations and to spark new ideas, with the aim of developing new projects and exploiting new technology for sustainable applications.

**Topics:** Chemical and Electrochemical Engineering; Food Engineering and Biotechnology; Environmental Engineering; Materials and Material Characterization; Nanotechnology; Inorganic Chemistry and Technology; Organic Chemistry and Technology, Polymers; Plasma Technology; Energy Efficiency and Renewable Energy Sources; Textile Engineering; Corrosion and Protection of Materials and Thermal Power Plants; Metallurgy; Management in the Processing Industry; General Sections. The deadline for abstract submission has been extended until **1 March 2021**.

**Register NOW!**

**Website:** <https://eem.tfzv.ues.rs.ba/>

### ESCAPE-31 – 31st European Symposium on Computer Aided Process Engineering Istanbul, Turkey, 6-9 June 2021

### (EFCE Event No. 776)

ESCAPE-31 event is organized under the auspices of the EFCE Working Party on Computer Aided Process Engineering (CAPE-WP), the Chamber of Chemical Engineers of Turkey (KMO), and Koc University, Istanbul. ESCAPE-31 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.

#### Themes:

(1) Process-product synthesis, design and integration; (2) Methods, models and computational tools for PSE; (3) Process control and operations; (4) CAPE/PSE in energy/water/food nexus and sustainability; (5) Process operations and supply chains; (6) PSE in biological systems and processes; (7) Education in CAPE/PSE & knowledge transfer.

**Plenary speakers:** Marc-Olivier Coppens, University College London; Stratos Pistikopoulos, Texas A&M University; Gintaras V. (Rex) Reklaitis, Purdue University.

**Register NOW!**

**Website:** <https://www.escape31.org/>

### 12th European Symposium on Electrochemical Engineering – ESEE 2021

*Leeuwarden, The Netherlands,  
New date: 13-17 June 2021  
(EFCE Event No. 766)*

**Motto: Electrochemistry for electrification and energy transition toward a sustainable future**

The 12th European Symposium on Electrochemical Engineering - ESEE 2021 is organised by the EFCE Working Party on Electrochemical Engineering in cooperation with Wetsus.

**Topics:** Electrocatalysis and electrochemical technologies; Safe water and air; Corrosion science for durable materials; Water electrolysis and fuel cells; Novel energy storage devices,

batteries, and electrochemical capacitors; Bioelectrochemistry for energy conversion and resource recovery; Green capture and conversion of CO<sub>2</sub>; Electrochemical recovery of raw materials; Advanced membranes and electrodes for selective ion removal; General session.

**Invited speakers:** Matthias Wessling; Menachem Elimelech; Martin Z Bazant; Elif Karatay; Geoff Kelsall; Matthew Suss; Manuel Andres Rodrigo; Xiao Su.

On the occasion of the ESEE2021 the EFCE Working Party will present its prestigious **Carl Wagner Medal of Excellence in Electrochemical Engineering.**

**The ESEE 2021 will be a hybrid conference with live streaming of all sessions for registered participants. All presenting authors are expected to physically attend the event. In the case of pandemic constraints, the conference will be fully held online.**

**Register NOW!** Early-bird registration deadline: **31 March 2021**

**Website:** <http://www.electrochemical-engineering.eu/2021/>

### **21st International Symposium on Industrial Crystallization-ISIC 21** **Online, new date:** **30 August–2 September 2021** **(EFCE Event No. 751)**

The symposium is organised under the auspices of the EFCE's Working Party on Crystallization and has become the premier international conference in the field of industrial crystallization.

The 21st ISIC provides a meeting and a discussion forum for scientists and engineers from academia and industry as well as suppliers of crystallization and related analytical equipment.

**Main 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.

**Plenary and Evening speakers:** Prof. Beatrice Biscans, France; Prof. Richard Braatz, USA; Prof. Helmut Cölfen, Germany; Prof. Juanma Garcia-Ruiz, Spain; Dr. Daniel Green, USA; Dipl.-Ing. Christian Melches, Germany.

**Register NOW for virtual ISIC 2021! Early-**

## **Save the date!**

### **ESCAPE-32 – 32nd European Symposium on Computer Aided Process Engineering** **Toulouse, France, 12-15 June 2022 (EFCE Event No. 778)**

ESCAPE-32 is organised by INP Toulouse in co-operation with the EFCE Working Party on Computer Aided Process Engineering.

**Website:** coming soon

**bird registration deadline: 15 June 2021**

**Website:** [https://dechema.de/en/ISIC\\_2021](https://dechema.de/en/ISIC_2021)

### **XXIV International Conference on Chemical Reactors – CHEMREACTOR-24** **Milan, Italy, New date:** **12–17 September 2021** **(EFCE Event No. 769)**

The XXIV International Conference on Chemical Reactors – CHEMREACTOR-24 is organised by the Borekov Institute of Catalysis, Russia jointly with the world famous Politecnico di Milano, Italy.

**Main topics:** Advances in Chemical Reactor Fundamentals; Chemical Reaction Engineering and Reactor Design – Novel Experimental Approaches, Modeling, Scale-Up and Optimisation; Chemical Reactors and Technologies for Targeted Applications; Advanced Processing of Conventional and Unconventional Hydrocarbon Feedstocks.

**Plenary speakers:** Prof. Guy Marin; Prof. Annemie Bogaerts; Prof. Ib Chorkendorff; Prof. Fausto Gallucci; Prof. Freek Kapteijn; Dr. Carlo Perego.

**Register NOW!**

**Website:** <http://conf.nsc.ru/CR-24/en/>

### **ECCE13 & ECAB6– 13th European Congress of Chemical Engineering & 6th European Congress on Applied Biotechnology** **Online, 20–23 September 2021** **(EFCE Event No. 767)**

**Motto: Engineering the Future**

See ECCE13 & ECAB6 Call for papers above

**Website:** <http://ecce-ecab2021.eu/>

**Twitter:** #eccecab21

## Electrostatics 2022

*Wroclaw, Poland,*

**New date: 28 March – 1 April 2022  
(EFCE Event No. 774)**

Electrostatics 2021 has become Electrostatics 2022. The Conference is organised by the Wroclaw University of Science and Technology in co-operation with the EFCE Working Party on Static Electricity in Industry.

Electrostatics 2022 provides a unique interdisciplinary forum for discussion about the electrostatic phenomena and its industrial applications. Fundamentals, hazards, applications, measuring techniques, standards and other related topics are within the scope of the conference.

### Topics:

1. Applications and Industry; 2. ESD; 3. Fundamentals; 4. Hazards; 5. Liquids; 6. Solid and Powders; 7. Gases; 8. Measuring Techniques; 9. Standards; 10. History of Electrostatics.

**All steps of the conference have been started again including a new call for papers.**

Please check the conference website for details.

**Website:** <http://www.electrostatics2021.pwr.edu.pl/wp/>

## ACHEMA 2022

*Frankfurt am Main, Germany,*

**New date: 4-8 April 2022 (EFCE Event No. 775)**

Feel the heartbeat of our industry! The process industry is the innovation driver of the world economy and the pacemaker for numerous industrial sectors

Practically all global value chains profit in one way or another from the achievements of chemistry, biotechnology and process engineering. ACHEMA is the central arena of the process industry.

Take this opportunity to forge new contacts, to build up business relations and find solutions for your current projects!

At the ACHEMA Congress, researchers, developers and users get together to discuss what's needed, what's possible and what will be the next big thing in the process industries.

**Website:** <https://www.achema.de/en/>

## Call for Papers

**17th International Symposium  
on Loss Prevention and Safety  
Promotion in the Process Industries  
– Loss Prevention 2022**

**Prague, Czech Republic, 5-8 June  
2022 (EFCE Event No. 765)**

The 17th International Symposium on Loss Prevention and Safety Promotion in the Process Industries and accompanying exhibition is organised by the Faculty of Safety Engineering - VSB Technical University of Ostrava and the EFCE Working Party on Loss Prevention.

**Topics:** The topic matrix is available at: <https://on-line-form.eu/lossprevention2022/abstracts/index.php?coo=1>

The call for papers is open. Abstract submission deadline: **15 May 2021**

**Website:** <http://www.lossprevention2022.org>

## Contact

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