



## 5th EUROPEAN FORUM ON NEW TECHNOLOGIES

*An event series of the European Federation of Chemical Engineering*ARTIFICIAL INTELLIGENCE  
in  
CHEMICAL ENGINEERING

## European Forum on New Technologies: Artificial Intelligence in Chemical Engineering

### Paris, France, 13 December 2024

Artificial Intelligence and Machine Learning have had in the recent past a tremendous impact on chemical engineering. On the long run they can radically change the way in which we perform research on chemical processes, we design, scale-up and optimize chemical reactors and pieces of equipment and they can potentially introduce new paradigms on chemical process control and operation.

Many are the challenges ahead for our community that can be addressed by the EFCE and its Working Parties and Sections. These can be a successful journey only if the European Chemical Engineering community, both academic and industrial, is fully engaged.

In this meeting we will bring together some visionary speakers to set out the potential and the challenges. There will be the opportunity to discuss

Dear Readers,

Welcome you to the 2024 summer issue of the EFCE News. This issue contains information about various upcoming EFCE events, calls for EFCE awards, EFCE Working Party/Section and European Commission news, and the journal update. If you have any comments/suggestions, please contact us.

With kind regards

*Giorgio Veronesi*  
EFCE President

### In this issue:

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- Safe and Sustainable by Design (SSbD) for chemical and materials - give feedback on the framework
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- Working Party and Section News: Fluid Separations, Polymer Reaction Engineering
- ECCE15 & ECAB8 Update
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the fundamentals of artificial intelligence, deep learning and machine learning, as well as their applications to process modelling, control and the building of digital twins.

### Listen & interact

Listen to the invited speakers and interact in discussions related the artificial intelligence and chemical engineering.

### Take part in the round table

Share your point of view on

- What are the industrialists expectations on AI and how could academia help develop in this direction?
- What should be taught at academia?

### Preliminary Programme

#### Venue

Hotel MERCURE Montparnasse  
40 rue du Commandant Mouchotte,  
75014 Paris, France  
Metro 4, 6, 12, 13 - Stop : Montparnasse-Bienvenue

#### Register NOW!

Registration fees: 160 €  
Registration fees (SFGP members): 120 €  
Lunch and coffee breaks are included.

#### Click here to register

The event is organised on behalf of the Federation by SFGP.

**Website:** <https://efce.info/5th European Forum on New Technologies.html>

## Working Party and Section News

### Change of Chairmanship – Working Party on Fluid Separations

At their business meeting on 24 June, the Working Party on Fluid Separations elected **Professor Jens-Uwe Repke**, TU Berlin, Germany, as its new Chair for the next term of office. He succeeds Professor Harry Kooijman who held the position for six years. At the same time, **Assistant Professor Igor Dejanovic**, University of Zagreb, Croatia, has been elected as the new Vice-Chair of the Working Party.

### 12th PhD-Student Workshop on Polymer Reaction Engineering Lyon, France, 30-31 October 2024

We are looking forward to the next – and meanwhile 12th – PhD-Student Workshop on Polymer Reaction Engineering. We would like to invite you to join us in Lyon, France, from 30-31 October 2024.

The workshop is specifically designed for Ph.D. students seeking contact with fellow students and the polymer industry. They are encouraged to present their Ph.D. topic to a professional audience and at the same time meet industry representatives and potential employers in person.

**Registration fee:** 100 EUR for PhD students (depending on sponsoring conditions first dinner 50,- EUR).

**The call for abstracts and the registration are open:**

Deadline for abstract submission: **9 September 2024**

Deadline for registration: **16 September 2024**

[FLYER](#)

**Abstract submission details and registration:** [https://www.chemie.tu-darmstadt.de/busch/forschung\\_akbusch/wppre/formular.en.jsp](https://www.chemie.tu-darmstadt.de/busch/forschung_akbusch/wppre/formular.en.jsp)

If you have any questions in this regard or are interested in becoming a sponsor, please do not hesitate to contact us at [wppre@pre.tu-darmstadt.de](mailto:wppre@pre.tu-darmstadt.de)

# EFCE Awards – calls for nominations and applications

## EFCE Travel Grant 2024

The EFCE Travel Grant provides support to early career members of EFCE or member societies to enable them to present their work at various EFCE events and to develop important networks to further their careers. The grant applications will be evaluated by the EFCE Early Career Section and it will also provide further opportunities to early career colleagues to engage in spreading the awareness of these events through social media. Note: *Early Career Chemical Engineers* are defined as those who are working towards or have obtained at least a bachelor's degree in chemical engineering and have less than approx. 8 years of relevant professional experience in case of a master's degree or less than approx. 4 years of relevant professional experience in the case of a Ph.D. title.

The Grant shall be used to cover part or all of travel and accommodation costs for ECCE conferences and other significant EFCE events and will be paid only on production of relevant receipts. Only the nominated applicant is the Grant holder. Nominated Grants cannot be transferred to a third person.

The Grant is to be spent for the attendance to the EFCE event it was awarded for. The Grant cannot be delayed or put on hold.

**The Call for applications 2024** is open (for EFCE events held until the end of July 2025)

The call for applications for the Travel Grant of up to 600 EUR each is open.

Applications should include:

- application form
- a **2 min (max!) video** from the applicants, telling in a few words why he/she should be selected

All documents must be sent to [ines.honndorf@dechema.de](mailto:ines.honndorf@dechema.de) AND [efce.earlycareerchemeng@gmail.com](mailto:efce.earlycareerchemeng@gmail.com).

**Deadline for submission of applications:**

**10 September 2024 for:**

- [Global Congress of Chemical Engineering 2024](#)
- [5th European Forum on New Technologies: Artificial Intelligence in Chemical Engineering](#)

**10 December 2024 for:**

- [Loss Prevention 2025](#)
- [17th Chemical and Process Engineering Conference - ICheP17](#)
- [Eurodrying 2025](#)

For eligibility details and the application form, visit the EFCE website at: <https://efce.info/EarlyCareerCE.html#AwardsandGrants>

## EFCE calls for nominations in Process Safety

The European Federation of Chemical Engineering and its Working Party on Loss Prevention and Safety Promotion in the Process Industries (website: <https://www.lossprevention-wp.eu>) call for nominations for two prestigious Awards in the field of Process Safety: The **2025 Excellence Award in Process Safety** and the **3rd Lifetime Recognition LPS Award**.

Both awards will be presented at the 18th International Symposium on Loss Prevention and Safety Promotion in the Process Industries - Loss Prevention 2025 which will be held in Bologna, Italy, on 6-11 June 2025 (website: <https://www.aidic.it/lp2025/>).

### 2025 Excellence Award in Process Safety

The triennial Excellence Award in Process Safety recognises a PhD thesis published in the preceding three-year period, which demonstrates an outstanding contribution to research and/or practice in the field. It consists of a certificate, a cash prize of EUR 1,500, and a travel grant (not exceeding EUR 500) to attend the Loss

Prevention Symposium, where the award will be presented.

Nominations may be submitted by PhD supervisors at a PhD-awarding institution in an EFCE member country or Members of a national or regional member association of EFCE. The nominated PhD thesis must address a topic

relevant to the field of Process Safety and must have been accepted, defended and the degree awarded between January 2022 and December 2024.

The closing date for nominations is **31 December 2024**.

Further information about the nomination procedure, eligibility, and supporting documentation and the online submission form can be obtained from the EFCE website at <https://www.efce.info/ExcellenceAwardProcessSafety.html>



*The Excellence Award is generously sponsored by the European Process Safety Centre – EPSC*

#### **About the sponsor**

*The European Process Safety Centre IVZW (EPSC) is an international not-for-profit network of major hazard operators in the pharmaceutical, chemical, oil and gas*

*industries (and consulting companies serving these industries) dedicated to the development and promotion of process safety. The association aims to promote and to share technical & managerial best practice in process safety in Europe.*

*EPSC provides a platform to learn as an industry, to improve together and facilitate the elimination of process safety incidents. The beneficiaries are our member companies and all process safety professionals in general. Our members benefit from (confidential) meetings & an active network where experiences are shared and latest developments discussed. To the general public we offer high quality, reliable information on process safety through our website [www.epsc.be](http://www.epsc.be) (e.g. our EPSC Learning Sheets) and our annual EPSC conferences. In 2024 the EPSC [European Conference on Plant & Process Safety](#) will take place on 2 & 3 December in Barcelona, Spain.*

## **Lifetime Recognition LPS (Loss Prevention Symposium) Award**

Secondly, the call for nominations is open for the 3rd edition of the **Lifetime Recognition LPS Award**. The Award was established in 2018 in recognition of outstanding contribution to safety and loss prevention research and practice to a senior researcher, academic or industrial engineer belonging to one of the EFCE member countries throughout his/her career.

The award which is sponsored by the local organiser of Loss Prevention Symposium consists

of a plaque or trophy, an EFCE certificate and an invitation to the Loss Prevention Symposium where the award is officially presented to the winner.

The closing date for nominations is **30 November 2024**.

Further information about the nomination procedure, eligibility, and supporting documentation and the online submission form can be obtained from the EFCE website at <https://www.efce.info/LifetimeRecognitionLPSAward.html>

## **Safe and Sustainable by Design (SSBD) for chemical and materials – give feedback on the framework**

The European Commission is promoting 'Safe and Sustainable by Design (SSbD) for chemicals and materials' as part of the European Green Deal and the transition of the Chemical Industry. They have developed and are testing the SSbD framework and are consulting on it via their attached website. They are keen to have as wide a consultation as possible and it would be good to have members of the EFCE community have input, whether or not you have experience of their particular framework. We are all concerned with safe and sustainable design of products and processes so I believe we have a well informed set of views to contribute.

**You are invited to give us feedback on the framework!**

The second feedback collection is open until **30 August 2024**.

**Website:** [https://research-and-innovation.ec.europa.eu/research-area/industrial-research-and-innovation/key-enabling-technologies/chemicals-and-advanced-materials/safe-and-sustainable-design\\_en](https://research-and-innovation.ec.europa.eu/research-area/industrial-research-and-innovation/key-enabling-technologies/chemicals-and-advanced-materials/safe-and-sustainable-design_en)

*David Bogle (EFCE Trustee and SusChem Board member)*



Paradigm Shifting in Chemical Engineering for Global Challenges

12th World Congress of Chemical Engineering and

21st Asian Pacific Confederation of Chemical Engineering Congress 2025

## 12th World Congress of Chemical Engineering and 21st Asian Pacific Confederation of Chemical Engineering congress 2025 (WCCE12 & APCChE 2025)

Beijing, PR China, 14–18 July 2025

**Motto: Paradigm Shifting in Chemical Engineering for Global Challenges**

WCCE12 & APCChE 2025 is organised under the auspices of World Chemical Engineering Council (WCEC) and Asian Pacific Confederation of Chemical Engineering (APCChE). The conference is hosted by The Chemical Industry and Engineering Society of China (CIESC), and jointly organised by the China National Petroleum Corporation, China Petrochemical Corporation, and Beijing University of Chemical Technology, guided by the China Association for Science and Technology (CAST), the Chinese Academy of Engineering (CAE), and the Chinese Academy of Sciences (CAS).

The World Congress of Chemical Engineering (WCCE) is the most important academic conference organised by WCEC, held every four years and rotating between Europe, Asia, and the Americas.

The WCCE's comprehensive program includes keynote speeches, technical sessions, panel discussions, and numerous networking

opportunities, making it a cornerstone event for anyone involved in chemical engineering.

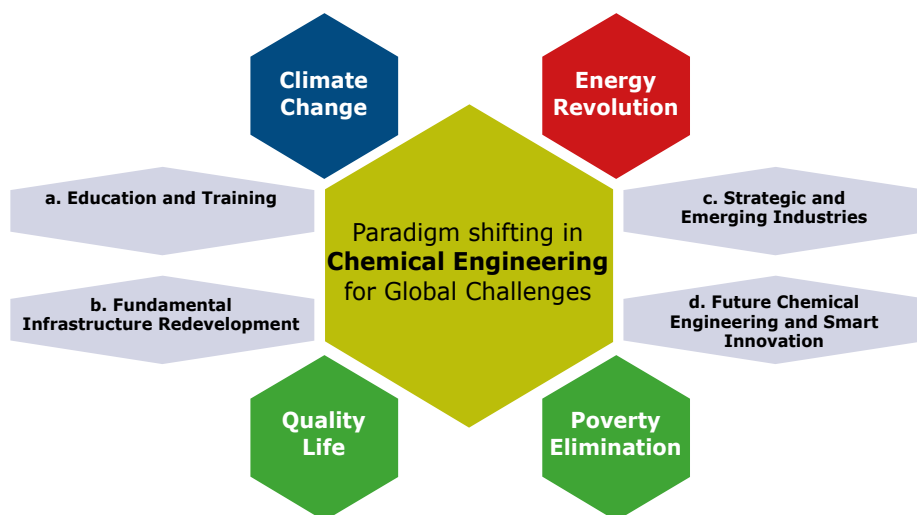
**Main topics:** Education and Training; Fundamental infrastructure redevelopment; Strategic and emerging industries; Future chemical engineering and smart innovation.

**For the detailed list of topics, see <https://www.wcce12.com/en/95/list.html>**

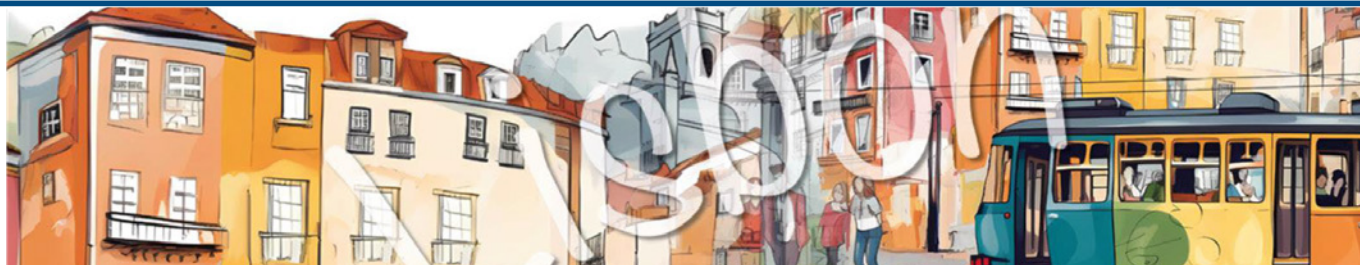
**Plenary speakers** (as of July 2024): Bernard L. Feringa, University of Groningen, NL, 2016 Nobel Prize Laureate; Benjamin List, Max Planck Institute for Coal Research, DE, 2021 Nobel Prize Laureate; Raffaella Ocone, Heriot-Watt University, UK, Fellow of the Royal Academy of Engineering.

**The authors' registration and call for papers are open. Deadline for abstract submission: 1 November 2024.**

**Website: <https://www.wcce12.com/en>**



**Sustainable Development Goals**



## Save the date!

# 15th European Congress of Chemical Engineering (ECCE) & 8th European Congress of Applied Biotechnology (ECAB) in September 2025.

8–10 September 2025, Lisbon, Portugal

*Motto: engineering for a sustainable world: summit for clean technologies & brighter legacy*

Chemical engineering, biotechnology and bioprocessing are the key to providing innovative solutions for food supply, mobility, energy, health and well-being while striving for a sustainable economy. At ECCE15 & ECAB8, scientists from industry, universities and research institutions from Europe and beyond will meet in Lisbon to discuss the latest research and industrial applications in all fields of chemistry, process engineering, biotechnology and related fields.

This year's conference will be held in conjunction with the **3rd CIBIQ - Iberoamerican Congress on Chemical Engineering**.

The congress will include high-profile international plenary and keynote speakers, an industry exhibition, poster exhibition and plenty of networking opportunities.

ECCE15 & ECAB8 & CIBIQ3 is organized by [DECHEMA e.V.](#) in cooperation with the [European Federation of Chemical Engineering \(EFCE\)](#), the [European Society of Biochemical Engineering Sciences \(ESBES\)](#), the [Portuguese Society of Biotechnology \(SPBT\)](#) and the [Ordem dos Engenheiros/Colégio de Engenharia](#) and will take place at the [Lisbon Congress Center](#).

**Topics and paper submission:** The paper submission will open in September 2024. Abstracts on the following topics can be submitted: Digital Transition, Artificial Intelligence – Applications, Impacts and Implications on Biochemical and Chemical Engineering; Education and Training next Generations (ESBES & EFCE legacy for Climate Neutrality); Energy Transition and Circular (Bio-)

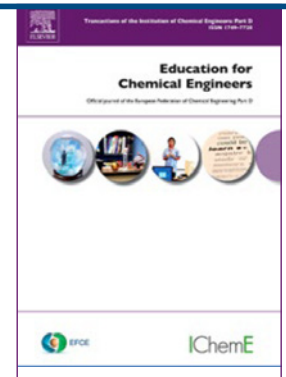
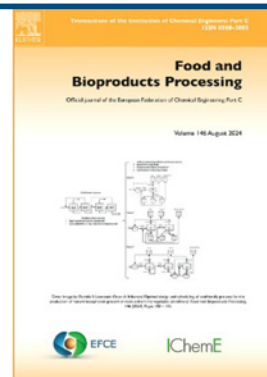
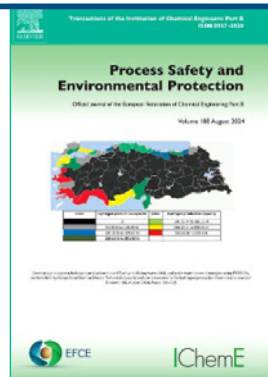
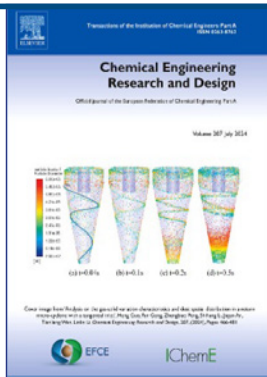
Economy; Health and (Bio-)Pharma; Novel Foods and Food Processing; Towards Net Zero and Climate Neutrality; Plus CIBIQ topics.

**For details see:** <https://ecce-ecab2025.eu/Topics.html>

**Sponsoring and exhibition opportunities:** The exhibition is an integral part of ECCE & ECAB 2025 and offers a unique opportunity to promote your technologies, products and services in the broad field of chemical engineering and biotechnology. We offer a range of sponsorship and exhibition options that can be tailored to your requirements and to suit your budget. See [Sponsoring and Exhibition Opportunities](#)

Save the date in your calendar and look forward with us to interesting presentations, interactive exchange with colleagues, the diverse range of exhibitors and sponsors as well as a supporting programme that offers plenty of time for networking.

**Website:** <https://ecce-ecab2025.eu>



## News about the official EFCE journals

**For the latest updates on published papers, freely available content and editor and author interviews please follow the journals on LinkedIn:**

*Chemical Engineering Research and Design*  
<https://www.linkedin.com/company/chemical-engineering-research-and-design/>

*Food and Bioproducts Processing*

<https://www.linkedin.com/company/food-and-bioproducts-processing>

*Education for Chemical Engineers*  
<https://www.linkedin.com/company/education-for-chemical-engineers/>

*Sustainable Production and Consumption*  
<https://www.linkedin.com/company/sustainable-production-and-consumption/>

*Carbon Capture Science & Technology*  
<https://www.linkedin.com/in/ccst-journal-a084a9212/>

**NEW** *Digital Chemical Engineering* is now on LinkedIn. Follow the journal at <https://www.linkedin.com/company/digital-chemical-engineering>

**NEW** *Process Safety and Environmental Protection* is now on LinkedIn. Follow the journal at <https://www.linkedin.com/company/process-safety-and-environmental-protection>

## Read journal papers for free

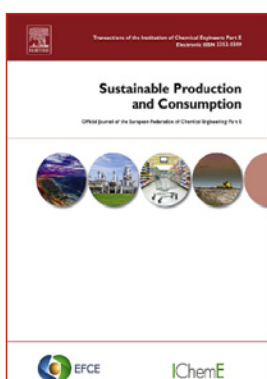
The following articles / issues are set for free access periods. In addition to these, articles that are published via the open access route in the journal are also freely available to all. These are identified in ScienceDirect by a green dot. It is possible sign up to an RSS alert specifically to inform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

- **NEW** 10th International Granulation Workshop  
<https://www.sciencedirect.com/special-issue/10F8492ZP8Z>
- **NEW** Challenges and Opportunities in Advanced Processes based on Distillation for Sustainable Processes  
<https://www.sciencedirect.com/special-issue/107KGGG3059>
- **NEW** 10 highly cited ChERD articles from 2022/2023:  
Recent advances in hydrochar application for the adsorptive removal of wastewater pollutants



- Current perspective of nano-engineered metal oxide based photocatalysts in advanced oxidation processes for degradation of organic pollutants in wastewater
- Progress of artificial neural networks applications in hydrogen production
- Updated review on emerging technologies for PFAS contaminated water treatment
- Exploring the potential of time-series transformers for process modeling and control in chemical systems: An inevitable paradigm shift?
- Biosorption of Congo Red dye from aqueous solutions using pristine biochar and ZnO biochar from green pea peels
- Physics-informed neural networks for hybrid modeling of lab-scale batch fermentation for  $\beta$ -carotene production using *Saccharomyces cerevisiae*
- Process intensification from conventional to advanced distillations: Past, present, and future
- A comprehensive review of recent advances in nanofiltration membranes for heavy metal removal from wastewater
- NaY zeolite-polyethersulfone-modified membranes for the removal of cesium-137 from liquid radioactive waste
- The article providing the winning ChERD cover image of the year, 2023 "Harnessing *Prunella vulgaris* L. residues for enhanced biosorption of dyes in wastewater"  
<https://doi.org/10.1016/j.cherd.2023.10.053>
- January 2024 issue (volume 201)  
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/>

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

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

Freely available content:

- Advanced Techniques in Leachate Management  
<https://www.sciencedirect.com/special-issue/10G1SX1C2B2>
- The article providing the winning PSEP cover image of 2023 "Study on flame propagation of H<sub>2</sub>/LPG premixed gas in a tube"  
<https://doi.org/10.1016/j.psep.2022.11.078>
- January 2024 issue (Volume 181)

<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/vol/181/suppl/C>

### **Food and Bioproducts Processing**

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

Freely available content:

- The article providing the winning FBP cover image of 2023 "Numerical calculation of sugarcane crushing process based on Smooth Particle Hydrodynamics"  
<https://doi.org/10.1016/j.fbp.2023.07.008>
- January 2024 issue (Volume 143)  
<https://www.sciencedirect.com/journal/food-and-bioproducts-processing/vol/143/suppl/C>

### **Education for Chemical Engineers**

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

Freely available content:

- January 2024 issue (Volume 46)  
<https://www.sciencedirect.com/journal/education-for-chemical-engineers/vol/46/suppl/C>

### **Sustainable Production and Consumption**

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

Freely available content:

- January 2024 issue (Volume 44)  
<https://www.sciencedirect.com/journal/sustainable-production-and-consumption/vol/44/suppl/C>

### **Digital Chemical Engineering**

**Gold Open Access – Our publishing partner, Elsevier, has established open access agreements with a large number of institutions across the globe supporting authors affiliated with participating institutions to publish open access without having to pay an article processing charge (APC). See <https://www.elsevier.com/open-access/agreements> for details.**

Freely available content:

- **NEW** All content freely available at:  
<https://www.sciencedirect.com/journal/digital-chemical-engineering>



Including the following special issues:

- **NEW In progress:** Emerging Stars in Digital Chemical Engineering II  
<https://www.sciencedirect.com/special-issue/100T2QF9KP2>
- **NEW In progress:** Role of Digitalization in Chemical Engineering  
<https://www.sciencedirect.com/special-issue/10XBND734XC>
- Emerging Stars in Digital Chemical Engineering  
<https://www.sciencedirect.com/journal/digital-chemical-engineering/special-issue/1045SC7FJ9L>
- AI for intelligent decision making of process and energy systems  
<https://www.sciencedirect.com/journal/digital-chemical-engineering/special-issue/10P8R7DS3GC>
- Modeling, Control and Monitoring of Process Systems in the Era of Big Data  
<https://www.sciencedirect.com/journal/digital-chemical-engineering/special-issue/10B8F6PFXLX>
- Machine Learning for Chemical Processes  
<https://www.sciencedirect.com/journal/digital-chemical-engineering/special-issue/10JTPTKD9LS>
- Autonomy, Safety, and Security for Cyber-Physical Systems in the Process Industries  
<https://www.sciencedirect.com/journal/digital-chemical-engineering/special-issue/10SFQ3846W0>

### ***Carbon Capture Science & Technology***

**Gold Open Access – Our publishing partner, Elsevier, has established open access agreements with a large number of institutions across the globe supporting authors affiliated with participating institutions to publish open access without having to pay an article processing charge (APC). See <https://www.elsevier.com/open-access/agreements> for details.**

Freely available content:

- **NEW** All content freely available at:  
<https://www.sciencedirect.com/journal/carbon-capture-science-and-technology>

Including the following special issues:

- The 12th Trondheim Conference on CO<sub>2</sub> Capture, Transport and Storage  
<https://www.sciencedirect.com/journal/>

[carbon-capture-science-and-technology/special-issue/10XQQ59GVBR](https://www.sciencedirect.com/journal/carbon-capture-science-and-technology/special-issue/10XQQ59GVBR)

- Accounts of Carbon Capture Research  
<https://www.sciencedirect.com/journal/carbon-capture-science-and-technology/special-issue/10Q72SV6132>
- Solid Sorbents for Carbon Capture  
<https://www.sciencedirect.com/journal/carbon-capture-science-and-technology/special-issue/109X8MPMPLL>
- Nanomaterials Tailored for CO<sub>2</sub> Science  
<https://www.sciencedirect.com/journal/carbon-capture-science-and-technology/special-issue/105Q772XQ5P>

### **Invitation to submit papers**

We have a number of special issues planned that are currently open for submission. Submissions from all welcome! Details as follows:

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

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

**Special Issue:** Adsorption for Water Purification and Wastewater Treatment – Technical Issues and Troubleshooting (Manuscript submission deadline **30 September 2024**)

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

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

**Special Issue:** Smart energy storage systems for better resilience, safety, and the environment (Manuscript submission deadline **1 October 2024**)

**Special Issue:** Explosion mechanism and its impact in engineering systems (Manuscript submission deadline **31 August 2024**)

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

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

**NEW Special Issue:** Latest pedagogical developments in chemical engineering education in Africa: innovative approaches inside and outside the classroom

(Corresponding authors must be affiliated to an African University, Manuscript submission deadline **31 December 2024**)

**NEW Special Issue:** Accreditation (Manuscript submission deadline 31 August 2024)

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

<https://www.sciencedirect.com/journal/sustainable-production-and-consumption/about/call-for-papers>

**NEW Special Issue:** Circular Economy Models for Sustainable Production and Consumption (Manuscript submission deadline **31 March 2025**)

**Special Issue:** Circular Bioeconomy in the Global South: Sustainable Solutions for Socioeconomic Development (Manuscript submission deadline **30 November 2024**)

**Special Issue:** Planetary boundaries in sustainable production and consumption systems (Manuscript submission deadline **31 October 2024**)

**Special issue:** Complex Systems Modelling Approaches to Sustainable Production and Consumption (Manuscript submission deadline **31 August 2024**)

**Special issue:** Sustainable Economic and Financial Solutions to Climate Change: The Role of Artificial Intelligence, Big Data and Machine Learning (Manuscript submission deadline **31 August 2024**)

### ***Digital Chemical Engineering***

<https://www.sciencedirect.com/journal/digital-chemical-engineering/about/call-for-papers>

**NEW Special Issue:** Emerging Stars in Digital Chemical Engineering II (Deadline for Early Career Researchers to self-nominate or be nominated extended to **30 September 2024**)

**Special Issue:** Role of Digitalization in Chemical Engineering (Manuscript submission deadline **30 June 2024**)

# EFCE Events in 2024/25

## Organised by or on behalf of EFCE

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

### CHISA 2024 – the 27th International Congress of Chemical and Process Engineering

**Prague, Czech Republic, 25-29 August 2024 (EFCE Event No. 800)**

CHISA 2024 is organised by the Czech Society of Chemical Engineering (CSCHE) in the very beautiful city of Prague. The society celebrates 62 years of CHISA Congresses under the motto "The place, where people meet people and science meets culture"

Topics: I. GLOBAL THOUGHTS; II. ENERGY; III. MATTER IN MOTION; IV. NOT ONLY FASTER;

V. PARTICLES; VI. GREEN ISSUES; VII. YOU MUST KNOW; VIII. COLLEGE; XI. Poster Session. For details see <https://2024.chisa.cz/scientific-program/#main-topics>

Plenary speakers: Prof. Ayofe M. Foley, Queen's University Belfast, UK; Prof. Markus Gahleitner, Borealis Polyolefine GmbH, Linz, AU; Prof. Raffaella Ocone, Heriot-Watt University, Edinburgh, UK; Prof. Bert M. Weckhuysen, Utrecht University, Utrecht, NL.

Attractive social programme "Where science meets culture": <https://2024.chisa.cz/social-programme/>

Final scientific programme see <https://secure.confis.cz/chisa2024/Programme/>

**Register NOW!**

**Website:** <https://2024.chisa.cz/>

### International Conference on Environmental Monitoring of Odours and VOCs - NOSE2024

**Naples, Italy, 15-18 September 2024 (EFCE Event No. 805)**

NOSE2024 is organized by AIDIC, The Italian Association of Chemical Engineering. The field of odour measurement and assessment is of growing interest in many sectors. The NOSE conference series, since its first edition in 2008, focuses on the most recent developments regarding environmental odour monitoring and control. However, in recent years, the conference

has widened its scope by including also other fields in which odour evaluation and measurement by means of different, sensorial and/or instrumental techniques, is becoming particularly interesting, such as product development, medical diagnosis, indoor air quality.

**Topics:** Odour regulation & relevant standards; Sources sampling and characterization; Chemical characterization of odours; Sensorial measurements; Odour & gas sensing; Community participation; Toxicity and health; Dispersion modelling; Odour emission control.

**Exhibition and Sponsorship:** NOSE2024 is expected to be organised under the auspices of different sponsors and exhibitors. If you wish to participate to the Sponsorship Programme of the Congress, please contact the Secretariat for details.

**Register NOW!**

**Website:** <https://www.aidic.it/nose2024>

### International Conference on Safety & Environment in Process & Power Industry - CISAP11

**Naples, Italy, 15-19 September 2024 (EFCE Event No. 803)**

CISAP11 is organized by AIDIC, The Italian Association of Chemical Engineering.

The main aim of CISAP 11 is to provide an extensive international panorama of the latest contributions concerning Process and Environmental Safety.

**Topics:** Risk governance and safety management; Multi-risk assessment and resilience of complex systems; Human factors and safety culture; Safety 4.0 and digitalization; Chemical and process hazards; Fires, explosions and toxic releases; Safety of hydrogen and decarbonization technologies; Safety and security of energy and transportation systems; Atypical scenarios and high events; Physical and cyber-security of industrial processes; Environmental safety and climate-related risks.

**Plenary speakers:** Prof. Paolo Gardoni, University of Illinois, USA; Prof. Iunio Iervolino, Universi-

tà degli Studi di Napoli Federico II, Italy; Dr. Francesco Del Litto, ENI

The provisional technical programme is available!

**Registration NOW!**

**Website:** <https://www.aidic.it/cisap11/>

## **Global Congress of Chemical Engineering 2024** **Cape Town, South Africa,** **6–11 October 2024**

The Global Congress of Chemical Engineering 2024 is an intermediate Congress of the World Chemical Engineering Council (WCEC), organised by the South African Institution of Chemical Engineers (SAIChE), a member of the WCEC and Institutional Member of EFCE.

*Motto: To sustainability and beyond*

The Global Congress of Chemical Engineering is a platform for individuals, groups, governments and companies to showcase their sustainability and regenerative initiatives, and where they can talk about, how they are moving away from “business as usual” by thinking more smartly and differently about processes, products, energy and water consumption, along with waste generation.

Individuals can also earn continuous professional development points (CPD) through Congress participation and workshop attendance contributing to Environment, Social and Governance (ESG) skills development for company employees and individuals.

**Topics:** <https://gcce2024.co.za/topics/>

**Register NOW!**

**Website:** <https://www.gcce2024.co.za>

## **12th PhD-Student Workshop on Polymer Reaction Engineering** **Lyon, France, 30-31 October 2024** **(EFCE Student event)**

**Details see above**

**Website:** [https://efce.info/WP\\_PRE.html](https://efce.info/WP_PRE.html)

## **European Forum on New Technologies: Artificial Intelligence in Chemical Engineering** **Paris, France, 13 December 2024**

**Details see above**

**Website:** [https://efce.info/5th European Forum on New Technologies.html](https://efce.info/5th_European_Forum_on_New_Technologies.html)

## **Save the date!**

### **7th Spotlight Talks Series** **Online, 5–8 and 12–14 November 2024**

**Website:** [https://efce.info/Spotlight\\_Talks.html](https://efce.info/Spotlight_Talks.html)

## **18th EFCE International Symposium on Loss Prevention and Safety Promotion in the Process Industries – Loss Prevention 2025** **Bologna, Italy, 8-11 June 2025** **(EFCE Event No. 809)**

Loss Prevention 2025 is organised by the EFCE Working Party on Loss Prevention and Safety Promotion in the Process Industries in cooperation with AIDIC.

This event is an opportunity to exchange up-to-the-minute information on industrial needs, new technology developments, and research opportunities. The previous events attracted leading Industrialists and Academics from all over the world and provided a state-of-the-art chemical and process engineering.

**Topics:** Safety 4.0, AI and digital transformation of industrial processes; Safety in relation to sustainability and resilience in process industry; Safety of decarbonization and energy transition processes; Safety of new materials and technologies; Safety and security of chemical and energy infrastructures; Conventional risk assessment and management approaches; Other process safety topics.

### **The call for papers is open. Deadline for full paper submission: 15 October 2024**

The full set of final selected papers will be published in the Chemical Engineering Transactions Journal, indexed by SCOPUS and SCHOLAR.

**Exhibition and Sponsorship:** Loss Prevention is expected to be organised under the auspices of different sponsors and exhibitors. If you wish to participate to the Sponsorship Programme of the Congress, please contact the Secretariat: [lp2025@aidic.it](mailto:lp2025@aidic.it)

**Website:** <https://www.aidic.it/lp2025/>

**17th International Conference  
on CHEMICAL AND PROCESS  
ENGINEERING – ICheaP17**  
*Florence, Italy, 29 June -2 July  
2025 (EFCE Event No. 812)*

ICheaP17 is as an opportunity to exchange up-to-the minute information on industrial needs, new technology developments and research opportunities. The previous events attracted leading Industrialists and Academics from all over the world and provided a state of the art on Chemical and Process Engineering. The Conference will be structured in Plenary lectures by invited speakers, in selected Lecture presentations and in the Poster sessions.

**Topics:** Biomass and bioprocess engineering; environment, quality and management of natural resources; energy, safety, and process intensification; electrochemical engineering; particle technology; reaction engineering; separation technology and thermodynamics; fluid mechanics and transport phenomena; product design and materials; process systems engineering and digitalization; pharmaceutical engineering and chemical engineering applied to medicine; education and public perception

**The call for papers is open. Deadline for abstract submission: 15 August 2024**

The full set of final selected papers will be published into Chemical Engineering Transactions Journal, indexed by SCOPUS and SCHOLAR.

**Plenary speakers:** Prof. Chiara Galletti, University of Pisa, Italy; Ing. Vincenzo Guida P&G R&D department, Belgium; prof. Maria Papathanasiou, Imperial College London, UK.

**Website:** <https://www.aidic.it/icheap17>

**9th European Drying Conference –  
Eurodrying 2025**  
*Wageningen, The Netherlands, 6-9  
July 2025 (EFCE Event No. 810)*

Wageningen University & Research and the EFCE Working Party on Drying are proud to announce Eurodrying 2025. Already being the 9th edition, Eurodrying aims to expand on the positive interaction within the drying community and continue the dialogue between drying experts in academia, as well as industry. Together we can advance knowledge, solve problems, and innovate solutions for drying and dewatering applications.

**Topics:** New dewatering & drying technologies; Industrial processes and equipment; Sensing and process control; Data-driven strategies; Environmental assessment of dewatering & drying processes; Air & gas dehumidification; Fluidized bed & Spray drying; Drying of biobased materials & foods; Drying of pharmaceutical & biological materials; Drying of chemicals, wood & paper; Mathematical modelling of drying processes; Characterisation of physical properties & product quality.

**The call for papers will open soon. Deadline for abstract submission: 30 December 2024**

**Website:** <https://www.eurodrying2025.nl/home>

**12th World Congress of Chemical  
Engineering and 21st Asian  
Pacific Confederation of Chemical  
Engineering congress 2025  
(WCCE12 & APCCHE 2025)**  
*Beijing, PR China, 14-18 July 2025*

**Motto: Paradigm Shifting in Chemical  
Engineering for Global Challenges**

WCCE12 & APCCHE 2025 is organised under the auspices of World Chemical Engineering Council (WCEC) and Asian Pacific Confederation of Chemical Engineering (APCCHE). The conference is hosted by the Chinese Chemical Society, and jointly organised by the China National Petroleum Corporation, China Petrochemical Corporation, and Beijing University of Chemical Technology.

**Details see above**

**Website:** <https://www.wcce12.com/>

**15th European Congress of  
Chemical Engineering & 8th  
European Congress of Applied  
Biotechnology (ECCE15 & ECAB8)**  
*Lisbon, Portugal, 8-10 September  
2025 (EFCE Event No. 783)*

**Motto: Engineering for a Sustainable World:  
Summit for Clean Technologies & Brighter  
Legacy**

**To stay up-to-date subscribe to the event  
newsletter.**

**Details see above**

**Website:** <https://ECCE-ECAB2025.eu>

### **3rd International Conference on Energy, Environment & Digital Transition - E2DT 2025**

**Palermo, Italy, 12-15 October 2025 (EFCE Event No. 811)**

E2DT aims to bring together researchers, engineers, executives, representatives of the institutions to map the transition towards net zero carbon and fully renewable energy, driven by the recognition that global CO<sub>2</sub> emissions must be drastically reduced to keep global warming below the 1.5 °C target.

The objective is to provide up-to-date evidence on positive and negative environmental effects of the energy transition and on new technologies to drive/accelerate it.

The energy and environmental evolution will be enabled by policy frameworks and market instruments, accelerated by digitalization. Digital technologies will in fact make energy systems more connected, intelligent, efficient, reliable and sustainable. Conversely, digitalization is also changing markets, businesses and employment: new models are emerging, and conventional ones are phasing out.

**The call for papers is open. Deadline for abstract submission: 15 September 2024**

The full set of final selected papers will be published into Chemical Engineering Transactions Journal, indexed by SCOPUS and SCHOLAR.

**All participants are invited to the EFCE Forum on 15 October 2025.**

**Website:** <https://www.aidic.it/e2dt2025>

### **International Conference on Electrostatics – Electrostatics 2025** **Bologna, Italy, 9-12 November 2025 (EFCE Event No. 8)**

Electrostatics 2025 is organised by the EFCE Working Party on Static Electricity in Industry in cooperation with AIDIC.

The objective of the conference is to encourage interaction between academic and industrial workers and to provide an opportunity for discussions of the various topics at all levels of interest. The conference will also provide a forum for the exchange of latest knowledge and new ideas in the science and technology of electrostatics, as well as for discussion of electrostatics hazards and problems.

The conference has been collaborating with the Journal of Electrostatics (Elsevier) for publication of the proceedings since 1981.

The Conference topics will be treated in invited plenary lectures, selected lecture presentations and poster sessions. Posters will stay on for the whole Conference promoting Author presentation and spontaneous discussion.

**Topics:** Applications and Industry; ESD; Fundamentals; Hazards; Liquids; Solid and Powders; Gases; Measuring Techniques; Standard; History of Electrostatics

**For details see** <https://www.aidic.it/electrostatics2025/page.php?pipe=testotopics>

**The call for papers is open. Deadline for abstract submission: 1 December 2024**

**Website:** <https://www.aidic.it/electrostatics2025/>

## **Contact**

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