



EFCE

European Federation of Chemical Engineering  
Europäische Föderation für Chemie-Ingenieur-Wesen  
Fédération Européenne de Génie Chimique

NEWS AND EVENTS FEBRUARY 2024

# EFCE SpotLight Talks

15-28 March  
2024

by the Working Parties  
and Sections

11 webinars



EFCE  
European Federation of Chemical Engineering

## Welcome to the sixth Spotlight Talks series

This year we have gathered eleven sessions of spotlight talks from eleven of the working parties and sections of the EFCE (Working Parties on Chemical Reaction Engineering, Crystallization, Drying, Education, Fluid Separations, Loss Prevention and Safety Promotion in the Process Industries, Process Intensification, Static Electricity in Industry, and Thermodynamics and Transport Properties, and the Sections on Food, and Membrane Engineering). While the organization of this series of online events

has found its origin in the times of the Covid pandemic, also now that we are able to travel again, these sessions offer a valuable opportunity to learn more about very specific topics, without having to travel. We consider these Spotlight Talks as a low-barrier opportunity to get involved (or stay involved) in EFCE activities. Covering a wide range of working parties and sections, there will likely be one or more sessions with topics of your interest.

*For details of sessions see over >>*

Dear Readers,

Welcome you to first EFCE News of 2024! This issue contains information forthcoming EFCE Spotlight Talks and other events, EFCE awards, Working Party and Section news, and journal news. If you have any comments/suggestions, please contact us.

With kind regards

*Giorgio Veronesi*  
EFCE President

### In this issue:

- EFCE Spotlight Talks March 2024
- EFCE Awards – calls for nominations still open: Excellence Awards in Membrane Engineering 2024 and in Comminution & Classification 2024
- Invitation to CHISA 2024 and call for papers
- Working Party and Section News
- News about the official EFCE Journals
- EFCE Events in 2024/25

## We hope that you enjoy some of this year's Sessions!

<b>15 March 13:00 CET</b>	How industry is using applied thermodynamics
<b>18 March 9:30 CET</b>	Challenges and opportunities in desalination
<b>18 March 12:00 CET</b>	Digitalization in chemical engineering education
<b>20 March 10:00 CET</b>	Protection of electrostatic charges and discharges: material web charging and lightning
<b>20 March 14:30 CET</b>	Electrically-driven dewatering and drying
<b>21 March 14:00 CET</b>	Optimal design and operation of next generation distillation processes
<b>22 March 14:00 CET</b>	Adaptation to climate change and impact on the process industry
<b>25 March 10:00 CET</b>	Machine learning and artificial intelligence applications in industrial crystallization
<b>25 March 16:00 CET</b>	Application of artificial intelligence to chemical reaction engineering and processes intensification
<b>26 March 14:00 CET</b>	Trays, packings, and dividing walls in distillation columns – design, innovation, construction and operation
<b>28 March 14:00 CET</b>	Electro-based processing technologies for high quality and sustainable foods

## Full Programme

For the detailed programme and registration (free of charge), please visit the event website at: [https://efce.info/Spotlight\\_Talks.html](https://efce.info/Spotlight_Talks.html)

# EFCE Awards – Calls for Nominations

*The following calls for nomination are still open:*

## 2024 EFCE-EMS Joint Excellence Award in Membrane Engineering



The Award has been established to recognise a PhD thesis or paper(s) of a young researcher which demonstrates the most outstanding contribution to research and/or practice in membrane engineering in the process industries.

In 2024, for the third time the Award is jointly presented by the EFCE and the **European Membrane Society (EMS)**.

The award comprises a certificate, a travel grant of up to EUR 500 and complimentary registration to attend the International Conference EuroMembrane 2024 (conference website: <https://euromembrane2024.cz/>) which will be held in Prague, Czech Republic, on 8-12 September 2024. The award will be presented during a special session, where the winner will also be invited to present the research.

Nominations may be submitted by any PhD supervisor at a PhD-awarding institution in an EFCE Member Country or by an individual member of a Member Society of EFCE/EMS. Only PhD theses or papers published between 1 January 2021 and 31 December 2023 are eligible for nomination. A nominated PhD thesis must have been completed and published and the PhD degree examined and awarded.

**Closing date for nominations: 31 March 2024**

For further information about the nomination procedure, eligibility and supporting documentation, please refer to the EFCE website:

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

## 2024 Excellence Award in Comminution and Classification



The Award has been instituted to recognise a PhD thesis or paper(s) of a researcher or engineer which demonstrate(s) an outstanding contribution to research and/or practice in the field.

The Award is generously sponsored by **NETZSCH Grinding & Dispersing**

The award consists of a certificate, a cash prize of 1,500 EUR, and a travel grant and fee waiver to attend the 18th European Symposium of Comminution & Classification - ESCC 2023 (website: (<https://esc2024.mke.org.hu/>)) where the award will be presented. The Symposium will be held in Miskolc, Hungary, on 24 to 26 June 2024. Furthermore, the successful candidate will be invited to make a presentation at ESCC 2024.

Nominations may be submitted by any PhD supervisor at a PhD-awarding institution in an EFCE member country or by a member of an EFCE member society. Only PhD theses or paper(s) published between 1 January 2020 and 31 December 2023 are eligible for nomination.

**The closing date for nominations is 26 February 2024.**

Further information about the nomination procedure, eligibility, supporting documentation and the online submission can be obtained from the EFCE website at:

<https://www.efce.info/ExcellenceAwardComminutionClassification>



**CHISA 2024** | 25-29 AUGUST 2024  
PRAGUE, CZECH REPUBLIC

Organised by:



## Invitation to CHISA 2024 and call for papers

The Czech Society of Chemical Engineering (CSCHE) invites you to **CHISA 2024 – the 27th International Congress of Chemical and Process Engineering** in the very beautiful city of Prague on **25-29 August 2024** (EFCE Event No. 800) to celebrate 62 years of CHISA Congresses under the motto "The place, where people meet people and science meets culture"

Researchers, academics, professionals, and enthusiasts in the field of chemical and process engineering are invited to contribute their expertise and share their insights at the upcoming congress. This is a unique opportunity to showcase your research, engage with peers, and contribute to the advancement of our field.

**The call for papers is open. Extended submission deadline for lectures: 29 February 2024 (for posters remains 31 May 2024).**

**Submission Guidelines:** <https://2024.chisa.cz/general-information/#paper-submission>

**Topics: I. GLOBAL THOUGHTS:** Low to zero emission technologies; Carbon dioxide economy; Water supply, management, reuse, purification; Food in the focus; Sustainability and circularity; Healthcare, hygiene, medicine and pharmacology;

**II. ENERGY:** Energy to carbon footprint ratio; Low energy cost processes; Renewable energy and energy storage, hydrogen as a fuel; Energy self-sufficiency; Clean energy; Photochemistry, solar cells and solar powered technologies, fuel cells; Energy saving processes and technologies; Batteries;

**III. MATTER IN MOTION:** Continuous process design and optimization (batch to continuous, flow chemistry); Process intensification and miniaturisation; Fluid flow and microfluidics, multiphase flow; Microreactors for real-life products and scaled-up technologies; Mixing; Separation processes; Scale up of electrified reactors;

**IV. NOT ONLY FASTER:** Reaction engineering and kinetics; Homogeneous and heterogeneous catalysis; Catalytic processes; Design, preparation and characterisation of catalysts; Catalytic reactors;

**V. PARTICLES:** Advanced functional materials; Designed, printed, integrated, used materials, 3D printing; Particulate and microporous solids, low-risk advanced materials; Biomimetics; Functional films and nanostructures; Sensors and sensing objects and nano-objects; Hierarchical structures and nanoparticles; Polymers and polymer technologies, conductive polymers;

**VI. GREEN ISSUES:** No waste technologies and zero waste plants; Production-trade-customer zero waste chains; Urban mining, waste management; Microplastics and endocrine disruptors; Biotechnologies, biomass and biomass processing; Membrane processes, adsorption; Air, soil and water pollution, pollution control; Green and supercritical chemistry, VOC reduction, ionic liquids; Processes for environment;

**VII. YOU MUST KNOW:** Chemical reactors – all aspects; Transport phenomena; Distillation, extraction, SCF extraction, S-L separation, crystallisation; Thermodynamics, phase equilibria, multiphase processes; Chemical engineering computations and modelling, molecular dynamics, ab-initio calculations, mathematical predictions, neural networks; New and improved technologies; Chemical engineering and safety, prevention and loss control; Elimination of health and environmental hazards;

**VIII. COLLEGE:** Educated chemical engineers; Teaching chemical engineering, new strategies, opportunities; Jobs in chemical engineering; Choosing chemical engineering as the field of studies – right or wrong?; Competitiveness of chemical engineers on the job market;

### **XI. Poster Session.**

**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.

**For details see** <https://2024.chisa.cz/scientific-program/#main-topics>

### Publication Opportunity Highlights:

- **Chemical Engineering Research and Design (IF 3.9)** Special Issue covering a broad spectrum of chemical engineering disciplines.
- **Separation and Purification Technology (IF 8.6)** Special Issue dedicated to novel methods for separation and purification in chemical and environmental engineering.

**Express Your Interest:** Upon completing your CHISA 2024 registration at [www.chisa.cz/2024](http://www.chisa.cz/2024),

you will be prompted to express your intention to submit a contribution for consideration in these special issues.

Don't miss the chance to be part of CHISA 2024, where innovative ideas converge, and collaborations thrive. Share your expertise and contribute to the collective knowledge of our community.

**For more details and to submit your paper, please visit [www.chisa.cz/2024](http://www.chisa.cz/2024)**

## Working Party and Section News

### Change of Chairmanship

**Professor Maarten Schutyser**, Wageningen University & Research, The Netherlands, has been elected as the new Chair of the Working Party on Drying. His 3-year term of office started on the 1st of January 2024. He succeeded Professor Angélique Léonard who held the position for 8 years.

At their last business meeting, the Working Party on Chemical Reaction Engineering elected **Professor Kevin Van Geem**, Ghent University, Belgium, as its new Chair for the next term of office which started on the 1st of January 2024. He succeeds Professor Olaf Hinrichsen who held the position for six years. At the same time, **Professor Luís Miguel Madeira**, University of Porto, Portugal, has been elected as the new Secretary of the Working Party.

### 17th European PhD Workshop on Food Engineering and Technology

The EFCE Section on Food is pleased to announce the **17th European PhD Workshop on Food Engineering and Technology** that will take place on **23 – 24 April 2024** in **Aachen, Germany**. This is a unique opportunity for your highly qualified PhD students and recently graduated Postdocs to present and discuss their projects and to strengthen their network in academia and industry.

More information about the event and the application procedure can be found on the website: <https://european-phd-workshop.com/>

We urge you to select and inform potential candidates and to submit the relevant documents via the website before the deadline of **February 15, 2024**.

We are looking forward to your nominations and to welcoming you personally to the workshop!

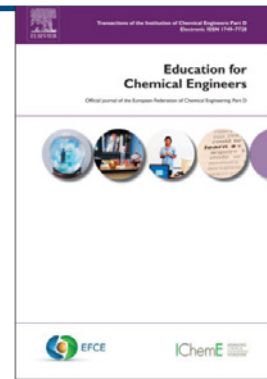
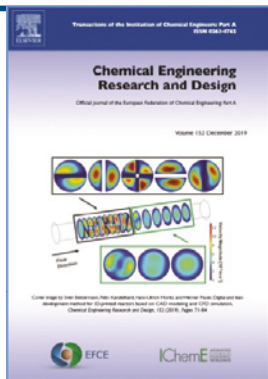
### One-day Scientific Conference: CHEME-MED 2024 - Chemical Engineering as Applied to Medicine

The one-day event is organised by the EFCE Section on Chemical Engineering as Applied to Medicine in Salerno, Italy on 20 May 2024. The main goal of the conference is to provide a forum for discussing the use of the scientific basis and methods of chemical and process engineering to solve various problems in physiology, medical diagnosis and therapy, health care, toxicology, etc.

Four oral sections are scheduled during the full-day event. In addition, there will be an opportunity for poster presentations.

**The call for papers is open. Deadline for abstract submission: 20 February 2024**

**Visit the event website for further details: <https://www.aidic.it/cheme24/index.php>**



## 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 Twitter and LinkedIn:

### LinkedIn

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

<https://www.linkedin.com/company/chemical-engineering-research-and-design/>

**Food and Bioproducts Processing** is now on LinkedIn. Follow the journal at <https://www.linkedin.com/company/food-and-bioproducts-processing>

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

<https://www.linkedin.com/company/sustainable-production-and-consumption/>

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

<https://www.linkedin.com/company/education-for-chemical-engineers/>

### Twitter

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

<https://twitter.com/ChemEngResDes>

#### **Digital Chemical Engineering**

<https://twitter.com/DChEJournal>

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

<https://twitter.com/CCSTJournal>

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

<https://twitter.com/ECEJournal>

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

<https://twitter.com/PSEPJournal>

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

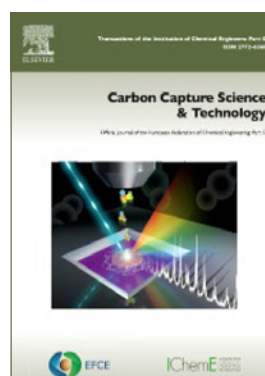
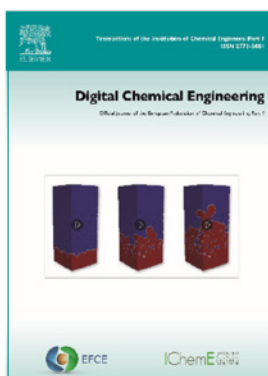
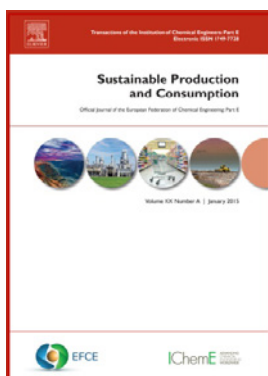
<https://twitter.com/FBPJournal>

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

<https://twitter.com/SustProdCons>

## 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:

- January 2024 issue (Volume 201)  
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/vol/201/suppl/C>
- Distillation & Absorption 2022 - 12th International Conference on Distillation and Absorption  
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/10CTHJPH5JK>
- Enabling Technologies for Biopharmaceutical Process Development and Manufacturing  
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/104RHBHZ21X>

## **Process Safety and Environmental Protection**

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

Freely available content:

- **NEW** January 2024 issue (Volume 181)  
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/vol/181/suppl/C>
- 17th EFCE International Symposium on Loss Prevention and Safety Promotion in Process Industries  
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/special-issue/101VZQSXMRK>
- Resilience Assessment and Management  
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/special-issue/10J9DK2919B>

## **Food and Bioproducts Processing**

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

Freely available content:

- 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:

- Latest pedagogical developments in chemical engineering education in Latin America: innovative approaches inside and outside the classroom  
<https://www.sciencedirect.com/journal/education-for-chemical-engineers/special-issue/10G9D5NTTWS>
- 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:

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

## **Digital Chemical Engineering**

**Gold Open Access – APC (Author Processing Charge) fully waived on all submissions received before 30 June 2024**

Freely available content:

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

Including the following special issues:

- 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 – APC (Author Processing Charge) fully waived on all submissions received before 30 June 2023**

Freely available content:

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

Including the following special issues:

- 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:** Chemical Engineering in the Middle East – Challenges and Opportunities (Manuscript submission deadline **30 April 2024**)

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

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

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

**Special Issue:** Progress and Critical Challenges in Biogas and Biohydrogen Production Processes (Manuscript submission deadline **15 February 2024**)

**Special Issue:** Resource Recovery from Waste Biomass: Unveiling Cutting-Edge Conversion Technologies and Integrated Bio-refineries (Manuscript submission deadline **28 February 2024**)

**Special Issue:** Advances in Renewable & Thermal Energy Systems (RTES) Development and their Applications (Manuscript submission deadline **5 April 2024**)

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

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

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

**Special issue:** Circular Economy as a Driver for Achieving Sustainable Production and Consumption (II) (Manuscript submission deadline **29 February 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 May 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>

### EFCE Spotlight Talks

*Online, 18-28 April 2024*

11 Webinars organised by the EFCE Working Parties and Sections. Details see above.

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

### 17th European PhD Workshop on Food Engineering and Technology

*Aachen, Germany, 23-24 April 2024*

Details see above.

**Website:** <https://european-phd-workshop.com>

### International conference on BIOMASS - ICONBM2024

*Palermo, Italy, 19-22 May 2024 (EFCE Event No. 804)*

ICONBM2024, organised by AIDIC, 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 on Biomass.

**Topics:** BIOMASS RESOURCES (Residue from agriculture and harvesting; Algae cultivation and supply chain; Biomasses from dedicated bioenergy crops; Agricultural global planning and intensification; Innovative use of municipal and industrial wastes); BIOFUELS PRODUCTION PROCESSES (Technologies for feedstock supply: chipping, pelletising, briquetting; Production of solid biofuels and feedstock characterization; Biodiesel, jet fuels production from oil-based fuels and chemicals from Syngas; Innovative processes from waste); BIOMASS CONVERSION FOR BIOENERGY AND BIO-BASED PRODUCTS (Solid biofuel Combustion; Bioliquids combustion; Biofuel kinetics and pollutant formation; Anaerobic digestion for biogas and biomethane production; Gasification for Syngas production and Power; Biomass conversion to intermediate bioenergy carriers, sustainable biofuels and bio-based products; Torrefaction, Carbonisation,

Pyrolysis and Char production; Lignocellulosic ethanol, biomass fermentation; Biorefineries; Biobased chemicals and materials); SUSTAINABLE BIOMASS PRODUCTION AND UTILIZATION: IMPACTS AND POLICIES: Environmental impacts; Climate impacts and GHG performances; Life cycle assessment and carbon footprint; Circular bioeconomy and cascading use of biomass; Support programmes and strategic goals); BIOENERGY INTEGRATION INTO ENERGY SYSTEMS (Energy Storage System; Wind Energy and Photovoltaic Energy; Engines and Fuel Cells; Alternative renewable fuels and hydrogen).

**Exhibition and Sponsorship:** IConBM2024 is expected to be organized 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.

**Registration:** Registration will open on 1 March 2024.

**Website:** <https://www.aidic.it/iconbm2024>

### ESCAPE 34 - PSE24

*Florence, Italy, 2-6 June 2024 (EFCE Event No. 799)*

The joint Symposium combining the 34th European Symposium on Computer -Aided Process Engineering and the 15th International Symposium on Process Systems Engineering (PSE) is organised by AIDIC. The keynotes, presentations and discussions will extend over 4 stimulating days and will cover the progress made in the broad range of the methodologies of the PSE toolkit, including AI, data analytics and digitalization, as well as impactful applications in the energy, food, healthcare, materials and sustainability domains. The venue in Florence, one of the premier cultural centers of Europe, will also provide the opportunity for participants to further enrich their understanding, appreciation and enjoyment of the fine arts and cuisine of Italy.

**Topics:** Modelling and simulation; Synthesis and Design; Process control and operations; CAPE in sustainable energy applications; Bioresources, bioprocesses and biomedical

systems; Digitalization and machine learning; Concepts, methods and tools; Education in CAPE and knowledge transfer. See details on the conference website.

**Plenary speakers:** Professor Selen Cremaschi (Auburn University, US), Professor Antonio Florez Tlacuahuac (Instituto Tecnológico de Estudios Superiores de Monterrey, Mexico); Professor Rajagopalan Srinivasan (Indian Institute of Technology Madras, India); Professor Fabrizio Bezzo (Chemical Engineering at University of Padova, Italy); Professor Claire Adjiman (Chemical Engineering from Imperial College London); Professor Gürkan Sin (Chemical and Biochemical Engineering, Technical University of Denmark); Viola Becattini and Marco Mazzotti (ETH Zürich, Switzerland).

**Exhibition and sponsorship:** ESCAPE34-PSE24 is expected to be organised under the auspices of different sponsors and exhibitors. Spaces are available for exhibition desks. A maximum surface that can be assigned to each booth is 3x2=6 m<sup>2</sup>. [Download here the Sponsorship Guide](#) with sponsorship packages description and exhibition solutions.

**Special workshops on 2 June 2024:**

[Advanced Optimization and Modeling Tools Workshop](#)

[Digital design of pharmaceutical processes using PharmaPy](#)

[Model-based Design of Experiments in the Digitalization Era](#)

[Practical workshop on Quantum Computing for Optimization for Process Systems Engineering](#)

**Registrations Start: 30 March 2024; Deadline: 27 May 2024.**

**Website:** <https://www.aidic.it/escape34-pse24>

## **ACHEMA 2024**

**Frankfurt, Germany, 10-14 June 2024 (EFCE Event No. 496)**

Modern, interactive and always up to date: With a unique range of topics, exciting innovations and new event formats, the world's leading trade show for the process industries brings together experts, decision makers and trendsetters from all over the world. The AICHEMA Innovation Themes take you on a deep-dive into key areas driving innovation in process industries. Each innovation theme brings you dedicated live

stages, a scientific conference programme and visionary highlight sessions from the process industries.

Join AICHEMA 2024 as an exhibitor and/or lecturer.

**ACHEMA Congress:** From Research to application – the perfect stage to exchange ideas and discuss solutions.

**Register NOW for the trade show and congress!**

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

## **ISCRE28 - International Symposium on Chemical Reaction Engineering Turku/Abo, Finland, 16-19 June 2024 (EFCE Event No. 801)**

ISCRE is the most prestigious conference in chemical reaction engineering. Around 400 participants are expected from all over the world. The event is organised by the EFCE Working Party of Chemical Reaction Engineering (WP CRE) and Åbo Akademi University.

**Topics:** Fundamentals of chemical reaction engineering; Bridging molecular modelling, thermodynamics and kinetics; Multiphase reactors and new reaction media; New reactor structures: from micro to milli and macro; Process dynamics and safety; Process intensification in reaction engineering; Reaction and bio-reaction engineering of renewables; Reaction engineering crossing the boundaries; Education session: what to teach in the future.

**Plenary speakers** (confirmed November 1st, 2023): Professor Vemuri Balakotaiah (University of Houston TX); Professor Lady Lynn Gladden (University of Cambridge UK); Dr Carlo Perego (IT); Professor Andreas Seidel-Morgenstern (Otto-von-Guericke Universität Magdeburg, Max-Planck-Institut für Dynamik komplexer technischer Systeme, Magdeburg DE).

**The call for papers is open. Deadline for abstract submission: 25 February 2024**

**Website:** <https://www.iscre28.org/>

## 18th European Symposium on Comminution and Classification – ESCC 2024

**Miskolc, Hungary, 24-26 June 2024 (EFCE Event No. 798)**

The Hungarian Chemical Society and the University of Miskolc will organise the 18<sup>th</sup> ESCC on behalf of the EFCE Working Party Comminution and Classification. This bi-annual conference has a long history of facilitating impactful discussions and networking and results dissemination among expert professionals from both academia and industry of the field since 1964.

This new event will further broaden the traditional scope of ESCC conferences of fundamentals of breakage, advanced modelling of fine- and coarse comminution and classification processes and applications for various industries, i.e. mineral processing, bio-refinery, food, pharmaceutical, chemical, electronic and materials industries with waste recycling and with mechanochemical-mechanofusion processes. The fundament of the circular economy is the recirculation of previously used materials (wastes) of which central elements are the first comminution and separation mechanical processes.

**Topics:** Fundamentals of particle breakage; Innovative methods for particulate characterization; Coarse grinding and classification processes, especially for minerals, ores, cement and other materials; Grinding, dispersing and classification of fine particles, micro- and nanomilling applied to pharmaceutical, chemical, material, and electronic industries. Cell disintegration and recovery of high value-added products in biorefinery, green processes, food industries; Comminution and separation in recycling industries and waste processing: plastic wastes, WEEE, MSW, construction and demolition wastes, agricultural wastes, used solar panels, used wind turbines, and other wastes; Mechanochemical and mechanofusion processes, mechanical bulk and surface transformations, mechanical alloying; Transport and process modelling across length scales (CFD, multiphase flow, DEM, PBM, ...); Wear, erosion and product contamination; Plant operation, innovations in milling and classification technologies including automation, machine learning, in line sensors, etc.

**Plenary Speakers:** Peter Baláž, Institute of Geotechnics, Slovak Academy of Sciences, Košice, Slovakia; Ādám Rác, Institute of Raw Material Preparation and Environmental Processing, University of Miskolc, Hungary

**The call for papers is open. Deadline for abstract submission: 22 February 2024**

**Website:** <https://esc2024.mke.org.hu>

## International Conference on Industrial Biotechnology – IBIC Bologna, Italy, 30 June – 3 July 2024 (EFCE Event No. 802)

IBIC 2024, organised by AIDIC, offers a platform for presenting new ideas and discussing the latest advances in applied biotechnology supported by sound science leading to novel industrial developments.

In this context, IBIC 2024 covers topical issues in bio-production, bio-separation, and bio-detection. The latest research topics will be presented, including nano-biotechnology, biorefinery and biofuels, biocatalysis, biomaterials, and microbial fuel cells. Microbes will be discussed as cell factories, and fermenters will be investigated as integrated systems in recovery operations.

**Topics:** Innovative technologies in fermentation, bioseparation, biodetection (biosensor); Biocatalysis, novel enzymes and advances in cell immobilisation; Novel processing (e.g. Biorefinery, Microbial fuel cells); Plastics degradation (pre-treatment, microbial, enzymatic, combined); New horizons in biological communication and potential applications (microbial, plant, animal, and cross kingdom communication); Nanobiotechnology for manufacturing; Controlled and targeted drug release (matrices, modelling); Bioprocess scale up/scale down strategies for improved production; Bio-composites (production, application); Biofilms in Industry and medicine (designed production, degradation); Environmental biotechnology and biotech processes for circular economy; Microalgal Biotechnology; Food Biotechnology; Bioresources.

**Exhibition and Sponsorship:** IBIC2024 is expected to be organized under the auspices of different sponsors and exhibitors. Spaces are available in the exhibition areas. A maximum surface that can be assigned to each booth is 3x2=6 m<sup>2</sup>. If you wish to participate in the Sponsorship Programme of the Congress, please contact the Secretariat for details.

**Registration:** Registration will open on 15 January 2024

**Website:** <https://www.aidic.it/ibic2024>

**CHISA 2024 – the 27th  
International Congress of Chemical  
and Process Engineering Prague,  
Czech Republic,  
25-29 August 2024 (EFCE Event No.  
800)**

Details see above

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

**Int. Conf. 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.

The aim of the NOSE conference series is to give the opportunity to the scientific and industrial community members from all over the world to meet, exchange experiences and ideas, as well as discuss the main innovations related to odours, thereby including a wide range of different topics in order to give an all-embracing point of view on this continuously progressing issue. NOSE2024 will take a series of presentation and discussion in invited plenary lectures, lecture presentations and poster sessions.

**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.

**The call for papers is open. Deadline for abstract submission: extended to 15 December 2023**

**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)**

The main aim of CISAP 11 is to provide an extensive international panorama of the latest contributions concerning Process and Environmental Safety. The technical programme is structured into parallel sessions, which will be held over three days. The Conference topics will be discussed across invited plenary lectures, selected lecture presentations and poster sessions. Posters will stay on display for the entire duration of the Conference, promoting the Authors' work and spontaneous discussion.

**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 help events; Physical and cyber-security of industrial processes; Environmental safety and climate-related risks

**The call for papers is open. Deadline for abstract submission: 15 November 2023**

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

**Exhibition and Sponsorship:** CISAP 11 is expected to be organized under the auspices of different Sponsors and Exhibitors. Spaces are available in the exhibition areas. A maximum surface that can be assigned to 120x80 cm. If you wish to participate to the Sponsorship Programme of the Congress, please contact the Secretariat for details.

**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**

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

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

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

## Save the date!

### 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.

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

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