



Invitation: Welcome to the Eighth Spotlight Talks Series – Spring Series 2025

This spring, a total of ten sessions of Spotlight Talks will be organized with involvement from eleven of the Working Parties and Sections of the EFCE. 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 with EFCE activities.

The Spotlight Talk Sessions complement the in-person activities such as the ECCE-ECAB conference that will be held later this year from 8-10 September in Lisbon, Portugal, and other

activities organized by our Working Parties and Sections.

Each session is about two hours with usually three speakers, all specialists in their field, and you can attend for free! (registration is required, but no fee is charged).

Covering a wide range of working parties and sections, there will likely be one or more sessions with topics of your interest.

We hope that you can join us from 14th to 22nd May to enjoy some of this year's Spotlight Talk Sessions!

Dear Readers,

Welcome to the spring issue of EFCE News for 2025! In this issue you will find information about the upcoming 8th Spotlight Talks, a very successful EFCE webinar series, ECCE&ECAB 2025 news, a wide range of upcoming EFCE events, EFCE awards and the journal update. If you have any comments/suggestions, please contact us.

With kind regards

Giorgio Veronesi
EFCE President

In this issue:

- EFCE Spotlight Talks, May 2025
- EFCE presents Thermodynamics and Transport Properties Award
- ECCE15 & ECAB8 2025 News
- EFCE Awards Reminder – EFCE Travel Grant 2025
- News about the official EFCE Journals
- EFCE Events in 2025/26

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

Date / time	Topic / programme	
14 May 2025 15:00-16:45 CEST	Chemical engineering contributions to new materials, technologies and modeling methods with applications in diagnostics, pharmaceuticals and artificial organs <i>Section on Chemical Engineering as Applied to Medicine</i>	Registration
15 May 2025 9:30-12:00 CEST	The European sustainability framework and tools to deploy safe and sustainable by design principles (SSbD) <i>Section on Sustainability</i>	Registration
15 May 2025 14:00-16:15 CEST	High gravity (Higee) technologies for intensified reaction and separation processes <i>Working Parties on Process Intensification and on Chemical Reaction Engineering</i>	Registration
16 May 2025 9:30-11:30 CEST	Circularity for safe & sustainable value chains <i>Section on Sustainability</i>	Registration
19 May 2025 9:30-11:30 CEST	Powder technology for sustainable production of battery electrodes <i>Working Parties on Comminution and Classification and on Mechanics of Particulate Solids</i>	Registration
20 May 2025 9:30-12:00 CEST	Liquid-liquid extraction, an essential technology in our energy and materials transition: from equilibrium measurements to process design <i>Working Party on Fluid Separations</i>	Registration
21 May 2025 9:30-12:00 CEST	Solving polymer reaction engineering (PRE) challenges with modeling approaches <i>Working Party on Polymer Reaction Engineering</i>	Registration
21 May 2025 14:00-15:45 CEST	Electrostatic charging of liquids: Fundamentals, risks and safety measures <i>Working Party on Static Electricity in Industry</i>	Registration
22 May 2025 11:30-13:30 CEST	Crystallizing the future: from small (bio)-molecules to monoclonal antibodies <i>Working Party on Crystallization</i>	Registration
22 May 2025 15:00-17:00 CEST	Navigating diverse industry and research paths: an interactive roundtable with early career chemical engineers <i>Early Career Chemical Engineers Section</i>	Registration

EFCE presents Thermodynamics and Transport Properties Award to Research on Sustainable Refrigerants to Replace Environmentally Damaging Compounds

Dr. Carlos Albà I Garriga is the winner of the 2025 EFCE Excellence Award in Thermodynamics and Transport Properties. He has been selected for his outstanding PhD thesis "Design of sustainable refrigerants by multiscale modelling", performed at the University Rovira i Virgili under the supervision of Professor Fèlix L. Llovel Ferret.

Carlos Albà I Garriga obtained his MSc. in Chemical Engineering from the IQS School of Engineering in Barcelona, Spain, and his PhD in Nanoscience, Materials, and Chemical Engineering from the University Rovira i Virgili (URV), Tarragona, Spain. Since December 2024 he holds the position of R&D Engineer at GasN2 in Barcelona, Spain.

Carlos Albà I Garriga's thesis addresses a critical environmental challenge of our time: the need for sustainable refrigerants to replace environmentally damaging compounds, the *high-global-warming-potential (GWP) hydrofluorocarbons (HFCs)*. His work is rooted in advanced thermodynamic modeling, focusing on predicting and optimising properties critical to refrigeration cycles. By leveraging the polar soft-SAFT equation of state, Carlos has developed a robust multiscale modelling framework capable of accurately predicting a variety of thermodynamic properties across a wide range of conditions, reducing the dependence of costly experimental testing in many cases.



He has extended the application of molecular theory to design 4th generation drop-in replacements to currently employed refrigerants. Using a multi-criteria assessment (4E analysis) on energy, exergy, environment and economy, he covered a wide range of aspects.

Dr. Albà's research combines theoretical excellence with practical application, creating a multi-scale modelling framework that integrates molecular and process-level insights for the design and evaluation of new refrigerants. This work is timely, given the increasing global focus on reducing the environmental impact of cooling systems in the transportation and building sectors.

The jury of EFCE's Thermodynamics and Transport Properties Working Party (website: https://efce.info/WP_TTP.html) selected Dr. Albà I Garriga, among others, for the excellent technical quality of his work and the very clear presentation in his thesis.

His nominator, Professor Fèlix L. Llovel Ferret, said: "During his PhD, Carlos has conducted research stays at prestigious institutions, including ETH Zurich and Khalifa University, Abu Dhabi. These experiences have enriched his research by fostering international collaborations and exposing him to diverse methodologies and advanced facilities. His time at these world-renowned institutions has contributed to the development of innovative approaches in refrigerant design and enhanced the global impact of his research."

The Excellence Award consists of a cash prize of €1500 plus the opportunity to attend the International Conference on Properties and Phase Equilibria for Product and Process Design – PPEPPD 2025 (conference website: (<https://dechema.de/ppeppd2025.html>)) in Bad Gögging, Germany, on 11-15 May 2025, where the award will be presented.

The Excellence Award is generously sponsored by IFPEN and the EleTher research chair.



About IFPEN

IFP Energies nouvelles (IFPEN) is a major research and training player in the fields of energy, transport and the environment. From scientific concepts within the framework of fundamental research, through to technological solutions in the context of applied research, innovation is central to its activities, hinged around four strategic directions: climate, environment and circular economy – renewable energies – sustainable mobility – responsible oil and gas.

As part of the public-interest mission with which it has been tasked by the public authorities, IFPEN focuses its efforts on bringing solutions to the challenges facing society and industry in terms of energy and the climate, to support the ecological

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

Applied research programs are structured around four strategic priorities:

- *climate, environment and circular economy: reducing the impact of human and industrial activities on the climate and the environment;*
- *renewable energies: producing energy, fuels and chemical intermediates from renewable sources;*
- *sustainable mobility: developing efficient, environmentally-friendly solutions for the transport sector;*



CIBIQ Awards Announced

The jury of the Iberoamerican Congress on Chemical Engineering (CIBIQ) Awards has decided on the award winners of the third edition, which recognise excellence and contribution in the field of Chemical Engineering in Ibero-America:

CIBIQ Gold Medal: Prof. Sebastião José Cabral Feyo de Azevedo, University of Porto, Portugal, in recognition of his professional merits and dedication to the promotion of Chemical Engineering.

Medal of Excellence in R&D&I: Prof. Manuel Andrés Rodrigo Rodrigo, University of Castilla-La Mancha, Spain, for his outstanding research career and his innovative contribution in the field of electrochemical engineering.

COMPANY Award: Apria, Spain, for its commitment to technological innovation and sustainability in industrial processes.

PhD Thesis Award: Dr. Alicia Checa Fernández, Complutense University of Madrid, Spain, in recognition of the scientific quality of her thesis and the publications derived from it.

The awards will be presented in a solemn ceremony during the 15th European Congress of Chemical Engineering (ECCE 15), the 8th European Congress of Applied Biotechnology (ECAB 8) and the 3rd Iberoamerican Congress on Chemical Engineering (CIBIQ 3), to be held in Lisbon, Portugal, from 8 to 10 September 2025.

Further information: <https://cibiq.org>



Register NOW for the 15th European Congress of Chemical Engineering (ECCE) & 8th European Congress of Applied Biotechnology ECAB) and 3rd CIBIQ - Iberoamerican Congress on Chemical Engineering 8–10 September 2025, Lisbon, Portugal

The joint ECCE & ECAB conference, organised by EFCE and ESBES, together with the Ordem dos Engenheiros/Colégio de Engenharia and the Portuguese Society of Biotechnology (SPBT), will once again offer a top-class scientific programme on technological solutions to the major challenges of the sustainable development goals (SDGs). This exceptional event will be held in partnership with the 3rd CIBIQ - Iberoamerican Congress on Chemical Engineering, providing a unique platform to foster collaboration and innovation within the Ibero-American chemical engineering community.

Topics: For details, please visit see: <https://ecce-ecab2025.eu/Topics.html>

Plenary Speakers: Maria da Graça Carvalho, Portuguese Minister for Environment and Energy, Lisbon/P; Lino Dias, Bayer AG, Monheim/D; Emanuele Moioli, Politecnico di Milano/I and Paul Scherrer Institut PSI, Villigen PSI/CH (Early Career Plenary Lecture); Bojana Rosic, University of Twente, Enschede/NL; and the Danckwerts Lecturer.

Online registration now open!

Secure your place and be part of ECCE&ECAB2025 in Lisbon. An exciting programme of lectures and posters awaits you, as well as an intensive exchange of experiences with colleagues and experts from the community.

Take advantage of the early bird rate until 1 July 2025.

Early career activity at ECCE/ECAB 2025: Science Slam

9 September

A science slam is like a talent show for scientists, where brilliant minds race the clock to make complex science simple and sizzling! In just seven minutes, researchers will blow your mind with their groundbreaking discoveries without putting anyone to sleep!

Email your applications by 16 June 2025 with your title/topic, university/institute/company and a short teaser (appr. 100 words) to lea.rapp@basf.com.

The top three winners will receive prizes, and discounted registration fees are available for all presenters!

For details see: <https://ecce-ecab2025.eu/Youth+Activities.html>

Sponsoring and exhibition opportunities:

The exhibition 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

Sponsors: PROREC (gold sponsor); BASF SE,

Fluitec mixing + reaction solutions AG (silver sponsors); A2 Photonic Sensors; Novo Nordisk, Springer, VentilaQUA (bronze sponsors); ACS Publications, Elsevier, BONDALTI, Turismo de Lisboa (further sponsors).

BEJ Young Investigator Award

Launched in 2009, this now annual award recognizes outstanding excellence in research and practice contributed to the field of biochemical engineering by a young community member. Award winners receive a cash prize of 2,500 U.S. Dollars. The 2025 Young Investigator Award will be received at the ECCE15 & ECAB8. The winner

will have the opportunity to briefly present their thoughts on a particular topic, preferably surrounding the paper submitted to the journal. The selected candidate must also attend the meeting and be prepared to present in order to receive the award.

Nominees must submit their nomination package on or before 30 June 2025.

For details see <https://ecce-ecab2025.eu/BEJ+Young+Investigator+Award.html>

Congress website: <https://ecce-ecab2025.eu>

LinkedIn: #EcceEcab25

EFCE Awards Reminder

EFCE Travel Grant 2025 for ECCE15 & ECAB8

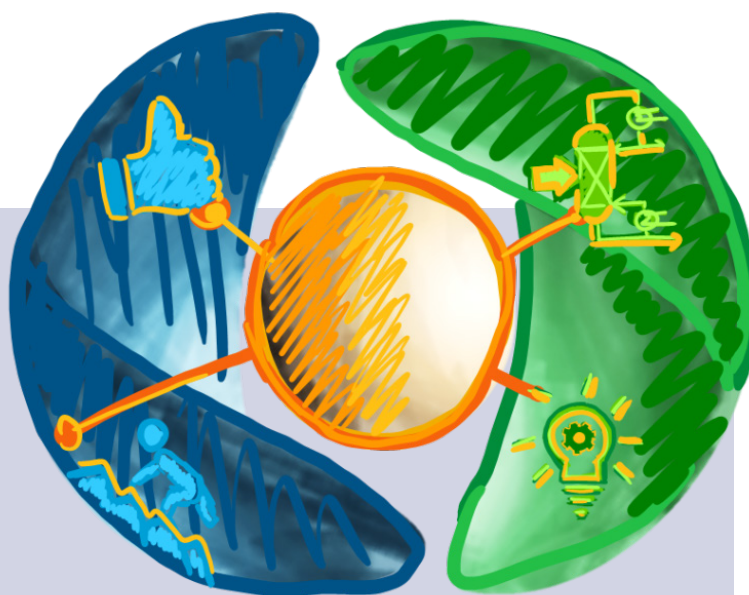
The EFCE Travel Grant 2025 provides support to early career members of EFCE or member societies to enable them to present their work the ECCE15 & ECAB8 and to develop important networks to further their careers.

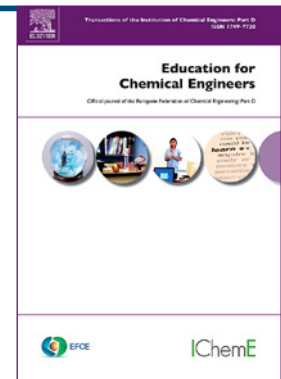
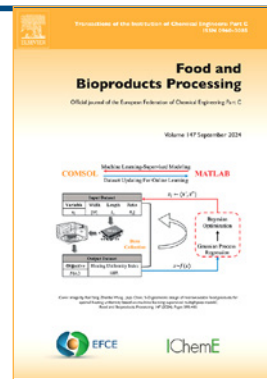
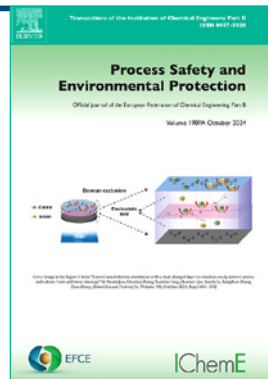
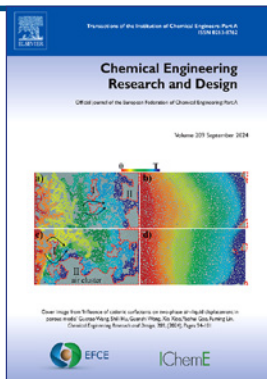
The call for applications for the Travel Grant of up to 600 EUR is open.

Applications should include an application form and a 2 min (max!) video from the applicants, telling in a few words why he/she should be selected.

Deadline for submission of applications: 31 May 2025

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





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/>

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

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

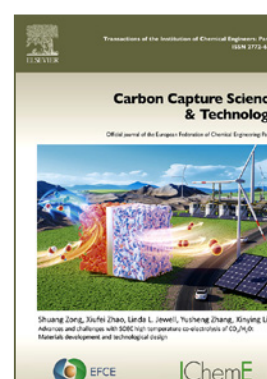
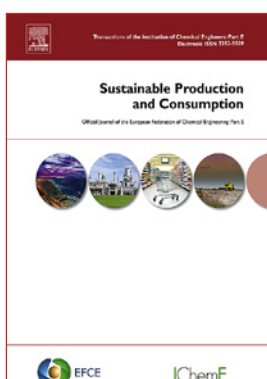
The following articles / issues are set for free access periods. In addition to these, articles that are published via the open access route in the journal are also freely available to all. These are identified in ScienceDirect by a green dot. It is possible to sign up to an RSS alert specifically to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

- NEW Chemical Engineering in the Middle East – Challenges and Opportunities
<https://www.sciencedirect.com/special-issue/10R661GLF3F>
- 17th European Conference on Mixing
<https://www.sciencedirect.com/special-issue/10JKS01K6WT>
- The article providing the winning ChERD cover image of the year, 2024 “Maximizing the potential of commercial zinc stearate for one-pot esterification and transesterification for high-acidity biodiesel production”
<https://www.sciencedirect.com/science/article/pii/S0263876224001047>
- January 2025 issue (volume 213)
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/vol/213/suppl/C>



Process Safety and Environmental Protection

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

Freely available content:

- NEW 1st International Conference on Nature-based Sustainable Management of Water Resources
<https://www.sciencedirect.com/special-issue/10FST30MVCG>
- Challenges in Environmental Science and Engineering
<https://www.sciencedirect.com/special-issue/10F4NBTBSKB>
- The article providing the winning PSEP cover image of the year, 2024 "Enhanced remediation of textile dyes via nonmetal-modified layered graphitic carbon nitride: Influence of various oxygen precursors"
<https://doi.org/10.1016/j.psep.2024.11.020>
- January 2025 issue (Volume 193)
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/vol/193/suppl/C>

Food and Bioproducts Processing

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

Freely available content:

- January 2025 issue (Volume 149)
<https://www.sciencedirect.com/journal/food-and-bioproducts-processing/vol/149/suppl/C>

Education for Chemical Engineers

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

Freely available content:

- January 2025 issue (Volume 50)
<https://www.sciencedirect.com/journal/education-for-chemical-engineers/vol/50/suppl/C>

Sustainable Production and Consumption

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

Freely available content:

- January 2025 issue (Volume 53)

<https://www.sciencedirect.com/journal/sustainable-production-and-consumption/vol/53/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:

- **In progress:** PSE-BR 2024 - Next Generation of Models and Tools for a Sustainable Process Industry
<https://www.sciencedirect.com/special-issue/10K4GPXH64G>
- **In progress:** Pioneering Digital Chemical Engineering
<https://www.sciencedirect.com/special-issue/10CK7SWVTNN>
- **In progress:** Emerging Stars in Digital Chemical Engineering II
<https://www.sciencedirect.com/special-issue/10XBND734XC>
- **In progress:** Role of Digitalization in Chemical Engineering
<https://www.sciencedirect.com/special-issue/100T2QF9KP2>

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. IChemE members also receive a 20% discount on all IChemE journal APCs

(Corresponding author must be a member of IChemE when article is accepted).

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 CO₂ Capture, Transport and Storage
<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 CO₂ 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 to all for submissions.

If you require any further information then please contact Managing Editor Colin Smith csmith@icheme.org

Process Safety and Environmental Protection

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

Special Issue: Safety of Hydrogen Energy in Production, Storage and Use (Manuscript submission deadline **30 April 2025**)

Special Issue: Artificial Intelligence in Safety (Manuscript submission deadline **30 June 2025**)

Sustainable Production and Consumption

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

Special Issue: Mainstreaming Sustainable Consumption (Manuscript submission deadline **30 September 2025**)

Carbon Capture Science & Technology

<https://www.sciencedirect.com/journal/carbon-capture-science-and-technology/about/call-for-papers>

Special Issue: Next-Generation Materials and Digitalization for Carbon Capture, Utilization, and Storage (CCUS): The Role of AI and Machine Learning (Manuscript submission deadline **01 September 2025**)

EFCE Events in 2025/26

Organised by or on behalf of EFCE

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

13th PhD-Student Workshop on Polymer Reaction Engineering Prague, Czech Republic, 14-16 May 2025 (EFCE Student event)

The workshop is organised by the EFCE Working Party on Polymer Reaction Engineering.

It gives gives motivated students the chance to present their latest research in the field to a professional audience. At the same time, new contacts to fellow PhD students as well as industry representatives are established.

Registration is now open and will be possible until 15 April 2025

Website: https://www.chemie.tu-darmstadt.de/busch/forschung_akbusch/wppre/formular.de.jsp

EFCE Spotlight Talks series Online 12-22 May 2025 (EFCE Event)

Details see above

Website: https://efce.info/Spotlight_Talks.html

Recordings of previous Spotlight Talks are available on [EFCE 's YouTube Channel](#).

9th Process Intensification Conference – EPIC9 Athens, Greece, 4-6 June 2025

EPIC9 is organised by the EFCE Working Party on Process Intensification in cooperation with the National technical University of Athens, School of Chemical Engineering

Motto: Process Intensification for safer climate and beyond

Process Intensification (PI) is a key driver of innovation and sustainability in the process industries, offering significant improvements in resource and energy efficiency, process economics, and environmental performance. As in previous years, the 9th EPIC promises to be a platform for the dissemination of new knowledge, the exchange of ideas, concerns, and experiences, as well as the

celebration of research achievements. With a rich program featuring the latest advancements in PI, cutting-edge technological developments, and a vibrant social agenda, these three days in Athens are sure to be both intellectually stimulating and enjoyable

Topics: Process intensification in chemical and biochemical processes, Process intensification in energy and environmental applications, Process intensification in food and pharmaceutical applications, Batch to Continuous and Flow Chemistry-Based Processes, Microreactors and microfluidics, Intensified Activation, Mass and Heat Transfer, PI in Electricity- and Solar Energy-Based Manufacturing; Multifunctional Reactors and Hybrid Separations; Intensified Reactors for Energy and Environmental Applications; PI in Solids Processing; PI in Manufacturing of Advanced Materials; Advanced Materials for Process Intensification; Novel Process and Equipment Concepts; Dynamics and Control of Intensified Processes; PI and Digitalization; PI in Retrofitting; New Industrial Applications.

Plenary speakers: Dimitris Collias, University of Pennsylvania, USA; Hannsjörg Freund, Technical University of Dortmund, DE; Adam Harvey, Newcastle University, UK.

Register NOW!

Website: <https://epic-2025.com/>

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.

Special Sessions: The following Special Sessions complete the Loss Prevention 2025 Symposium. Safety and Sustainability of Green and Alternative Fuels in Port Areas; Ammonia Safety; Innovations in the Management of Reactive Chemical Hazards; Cybersecurity in the Digital Era of the Chemical and Process Industry; Integration of Process Systems Engineering & Machine Learning for Improved Process Safety; Safety of Liquid Hydrogen (details see: <https://www.aidic.it/lp2025/page.php?pipe=testospecialsessions>) Each session includes oral presentations followed by an expert panel discussion with invited panellists. [Abstract submission is open](#). All accepted papers will be considered for publication either in the Chemical Engineering Transactions Journal or in the Book of Abstracts.

Keynote speakers: Genserik Reniers, Prof. of Safety of Hazardous Materials, TU Delft; Ana Maria Cruz, Prof. Disaster Prevention Research Institute (DPRI), Kyoto University; Luca Decarli, Senior Knowledge Owner Process Safety | Eni Global Natural Resources & IOGP Process Safety sub-committee Chair.

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
Sponsor: ITELUM

Register NOW!

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 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.

Register NOW!

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

35th European Symposium on Computer Aided Process Engineering - ESCAPE 35
Ghent, Belgium, 6-9 July 2025
(EFCE Event No. 818)

ESCAPE-35 will be held at the Technology Campus Ghent, KU Leuven as a part of KU Leuven's 600th year celebrations. It will be organised by KU Leuven in collaboration with the University of Liège. The 2025 conference theme "Closing the loop 2.0" emphasises on use of process systems engineering (from "good old feedback control" to advanced methodologies using AI, quantum computing, etc.) to accelerate the drive towards a circular economy with applications in energy, life sciences, and materials domains.

Sponsorship: ESCAPE35 offers a diverse array of sponsorship opportunities to elevate

your visibility and establish your company as a pioneering voice within the sector. In addition to the conference sessions, an exhibition will be held concurrently, with spaces available on a first-come, first-served basis. To discuss your specific requirements or secure sponsorship or exhibit space, please reach out to: contact@escape35-belgium.eu. We are happy to discuss a tailor-made package that suits the wishes of company.

Register NOW!

Website: <https://escape35-belgium.eu/>

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 that the 9th European Drying conference. 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.

Featured speakers: Dr. Benjamin Zühlendorf, Danish Technological Institute; Prof. Grzegorz Musielak, Institute of Technology and Chemical Engineering, Poznan University of Technology; Dr. Jewe Schröder, Danone; Prof. Maïke Baltussen, Eindhoven University of Technology; Martin Tukker, JOA Air Solutions; Prof. Séverine Vessot Crastes, University of Claude Bernard Lyon 1; Prof. Stefan Heinrich, Hamburg University of Technology; Prof. Stefan Toepfl, University of Applied Sciences Osnabrück and Elea GmbH.

Sponsors: Dutch Working Group on Drying (NWGD) – gold sponsor; Andritz, Danone, JOA

Air Solutions, Institute for Sustainable Process Technology (ISPT) – silver sponsors; Büchi, Delft Solids Solutions, Hosokawa Micron B.V., MEAM, Fluid Air, Glatt – bronze sponsors

Outstanding oral and poster presentations at the Eurodrying 2025 conference will be awarded a prize. For details see: <https://www.eurodrying2025.nl/awards>

Register NOW!

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 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: 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.

Exhibition: The International Chemical ENGINEERING Innovation EXPO 2025 (ICHEIE 2025), held in conjunction with the World Congress, invites your organisation to be part of the industry's most influential event. With the theme "Innovate. Transform. Thrive: Green Chemical Engineering for a Better Tomorrow!", this Expo will bring together global leaders, innovators, and visionaries to shape the future of the chemical industry. Showcase your cutting-edge products and solutions, connect with top buyers and partners, and gain unparalleled exposure on a global stage. Don't miss the opportunity to drive the conversation on sustainability and innovation in chemical engineering.

Be a part of the transformation—secure your exhibit space today!

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

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

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 discuss the latest research and industrial applications in all fields of chemistry, process engineering, biotechnology and related fields.

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

Details see above

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

5th International Conference on Engineering Future Foods – EFF2025 Bologna, Italy, 14-17 September 2025 (EFCE Event No. 814)

The 5th International Conference on Engineering Future Foods – EFF2025 is organised by AIDIC.

This conference addresses the challenge of responsible food production by providing a hub for advanced academic and industrial research. The focus is on Sustainable Optimization, Quantitative Approaches, and Digital Technologies.

Topics: I. Sustainable Solutions for Digital Food manufacturing: Exploring how automation and digital technologies contribute to the sustainable and circular transition of the food manufacturing sector; II. Design Thinking for Food Techno-Functionalities: Using product engineering and food design methods to meet consumer needs—convenience, health, and well-being—while ensuring technical feasibility; III. The Role of Packaging in the Food Supply Chain: Delving into the complexities and impacts of packaging in the evolving landscape of food production and distribution; IV. Quality Data Analysis: Quantitative methods for monitoring and improving product quality, including the design and application of digital sensors and tools for managing food quality.

Exhibition and sponsorship: [Download here the Sponsorship Guide with sponsorship packages description and exhibition solutions.](#) For any further information, please contact sponsorship@aidic.it for details.

Register NOW! Early-bird registration deadline: 15 June 2025

Website: <https://aidic.it/eff2025>

ESSEE 2025 – European Summer School on Electrochemical Engineering Cagliari, Sardinia, Italy, 22-26 September 2025 (EFCE Student Event)

The Working Party on Electrochemical Engineering is pleased to announce the 10th edition of its European Summer School on Electrochemical Engineering (ESSEE), organised by the Working Party, AIDIC and the Università degli Studi di Cagliari. This edition will be co-organised with e.INS - Ecosystem of Innovation for Next generation Sardinia. ESSEE 2025 will be hosted at the Faculty of Engineering and Architecture of

the University of Cagliari.

PhD students, young researchers and professionals interested in Electrochemical technologies are invited to join the Summer School. ESSEE offers the unique opportunity to share knowledge and experience about fundamentals and applications of electricity-based processes for energy transition and decarbonization.

Topics: Fundamentals of electrochemical engineering; Electrochemical reactor engineering; Electrochemical storage of energy; Green hydrogen production and use; New applications of electrochemical technologies

For details [click here](#)

Speakers: Prof. Karel Bouzek, University of Chemistry and Technology Prague, CZ; Dr. Claudia Weidlich, DECHEMA-Forschungsinstitut, DE; Prof. Michele Mascia, University of Cagliari, IT; Prof. Carlos Ponce De Leon Albarran, University of Southampton, UK; Prof. Manuel Andrés Rodrigo, Universidad de Castilla-La Mancha, ES; Dr. Davide Clematis, University of Genoa, IT; Prof. Annalisa Vacca, University of Cagliari, IT; Prof. Mirella di Lorenzo, University of Bath, UK; Dr. Paola Granados Mendoza, HyCC - Hydrogen Chemistry Company, IT.

The preliminary programme is available [here](#).

Register NOW! Registration is open until 15 June 2025.

Website: <https://aidic.it/essee2025/index.php>

NINETEENTH 2025 - Nanotechnology based INnovation for the EnvironmenT, EnErgy, aNd Health Salerno, Italy, 28-30 September 2025 (EFCE Event No. 813)

NINETEENTH 2025 - Nanotechnology based INnovation for the EnvironmenT, EnErgy, aNd Health is organised by AIDIC in collaboration with the EFCE Section "Chemical Engineering Applied to Medicine", the Italian Chemical Society (SCI), the University of Salerno, and the NANOMATES Center and the Narrando SME.

NINETEENTH aims at presenting recent scientific and technical advances in the field of nanotechnology application to the environment protection and sustainable energy production, agriculture and food industry, health and safety applications, from materials to devices, to

processes.

Topics: NANOMATERIALS: synthesis, characterization and production technologies; NANOMEDICINE; ENERGY: Advanced devices for sustainable energy production; Nanotechnology in automotive industry; ENVIRONMENT: Advanced processes for environmental protection and remediation; Green Nanotechnology; Modeling the swarming and aggregation in dispersed systems; Nanotechnology in agriculture and food industry

Plenary speakers: Luisa De Cola, Professor at the University of Milan and head of the unit Materials for Health at the Istituto di Ricerche Farmacologiche Mario Negri, IRCCS, Italy; Tomasz Ciach, Professor at the Warsaw University of Technology, Poland; Andrei Kanaev, Research Director Emeritus C.N.R.S., Laboratoire des Sciences des Procédés et des Matériaux, University Sorbonne Paris Nord, France

Register NOW! Early-bird registration deadline: 5 July 2025

Website: <https://aidic.it/nineteenth25/>

3rd International Conference on Energy, Environment & Digital Transition - E2DT 2025 Palermo, Italy, 12-15 October 2025 (EFCE Event No. 811)

E2DT aims at bringing 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 CO₂ 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.

Topics: Energy and other resources from the sea (offshore wind projects, utilization of saline gradients, utilization of sea waves and tides, etc.); Alternative energy vectors for marine use (methanol, ammonia, etc.); hydrogen: production, storage and utilization; carbon capture, storage and utilization technologies; production of chemicals, fuels and energy from biomass and waste; sustainability in hard to abate sectors (cement, steel, ceramic industries, etc.); Energy storage from renewable sources; digitalization and process system engineering (PSE) applications; climate change and risk management

Plenary speakers: Emma Rombaut, Yara International; Mattia Vallerio, Politecnico di Milano, Italy; Jérôme Ribuo, LEDJ, France; Clelia Dispenza, Univeristy of Palermo, Italy; Patrick Schuele, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Germany.

Register NOW! Early-bird registration deadline: 5 July 2025

All participants are invited to the EFCE Forum on 15 October 2025 in the morning (details will follow).

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

CUSCIT'25 Cement Olympics Antalya, Türkiye, 4-7 November 2025 (EFCE Event No. 819)

Motto: Science and Vision: The Key to the Future

CUSCIT'25 Cement Olympics, is meticulously designed with a visionary and innovative approach to influence the future of the cement industry and support its transformation processes. The term "Cement Olympics" encompasses a series of activities aimed at enhancing the technical skills and visionary perspectives of industry participants, while also evaluating and encouraging their knowledge.

The event is built on a framework that bridges academia's expertise and research capacity with the practical needs of the industry. Spanning 13 themes, it offers valuable insights into various dynamics of the sector through five main zones: Vision Zone, Academy Zone, Market Zone, Digital Activity Zone and Social Zone.

Each of these zones represents a ring in the Olympic emblem, interconnected to embody the unifying spirit of the Olympic ethos. These zones are tailored to participant needs and focus on developing innovative products and services, fostering economic growth, and cultivating a skilled workforce through a scientific and practical approach.

Additionally, advanced Virtual Reality (VR) and Augmented Reality (AR) technologies are integrated to enhance the event experience. Participants will not merely act as spectators but will immerse themselves in transformational processes through virtual environments, gaining first-hand experience with industry innovations.

Programme schedule: <https://www.cuscit.com/program/>

The call for papers is open: Deadline for abstract submission: 11 April 2025

For details see <https://www.cuscit.com/academy/>

Website: <https://www.cuscit.com>

International Conference on Electrostatics – Electrostatics 2025 Bologna, Italy, 9-12 November 2025 (EFCE Event No. 808)

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 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 still open. Current deadline for abstract submission: 30 March 2025 (check the conference website)

The proceedings of the conference will be published in a Special Issue of the *Journal of Electrostatics* (an Elsevier publication). Authors whose abstracts have been accepted for Electrostatics 2025 are encouraged to submit a full paper for inclusion in these proceedings. All submitted papers will undergo a peer review process before the conference, to ensure they meet the high standards required for publication in the *Journal of Electrostatics*. More information

on preparing your full paper can be found using the journal link: (<https://www.sciencedirect.com/journal/journal-of-electrostatics>).

Successful papers will be made available to conference attendees and journal subscribers.

Register NOW! Early-bird registration deadline: 15 September 2025

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

16th Mediterranean Congress of Chemical Engineering (MeCCE) Barcelona, Spain, 2-4 June 2026 (EFCE Event No. 817)

The event is organised by the Spanish EFCE Member Society SEQUI in conjunction with **EXPOQUIMIA**.

Under the theme "*Transforming the Industry, Shaping the Future*," this edition will explore the evolving role of chemical engineering in addressing critical global challenges. Moreover, it is a great opportunity to implement the entire 2030 Agenda from science to industry through engineering and its power of transfer. The great differential value of this congress is that it unites science and engineering with industry, being a unique bridge for the scientific and business communities to come together in an incomparable setting.

This edition will once again feature innovations, solutions, debates, and challenges. It is a historic event that will set guidelines for the industrial processes of the future.

Topics: Pioneering Approaches to Teaching and Learning in Chemical Engineering; Innovative & Critical Raw Materials; Circularity & Water Resource; Decarbonization & Hydrogen; Digital Twins, AI & Advanced Process Control; Food & Bio Engineering, Fine Chemicals & Pharma.

Registration and the call for papers are open. Abstract submission deadline: 2 February 2026

Website: <https://www.mecce.org/>

Save the Date!

Naples, Italy, 27-20 September 2026

XIX European Symposium on Comminution & Classification (EFCE Event No. 816)

The event is organised by the EFCE Working Party on Comminution and Classification in cooperation with the Italian EFCE Member Society AIDIC.

Website: tba

Contact

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