

Boelo Schuur elected as new EFCE Scientific Vice-President, Giorgio Veronesi and Jarka Glassey reconfirmed in their positions

New trustees to join executive board in 2024

The European Federation of Chemical Engineering, EFCE, will start the new year 2024 with a team of experienced and new Officers and charity trustees, following elections held at the Executive Board meeting and General Assembly on 17 September 2023.

Both the current President, **Giorgio Veronesi** and the Executive Vice-President, **Professor Jarka Glassey**, have been re-confirmed in their positions.

Giorgio Veronesi, Techint, Italy, has 40 years of experience in the international engineering and construction sector and held various senior positions at engineering contractors including Foster Wheeler, Tecnimont, Siirtec Nigi and Techint.

Jarka Glassey is professor of chemical engineering at the University of Newcastle, UK, and former Vice President Learned Society at IChemE.



EFCE's new Scientific Vice-President from 1 January 2024 will be **Professor Boelo Schuur**.

Dear Readers,

Welcome you to year-end 2023 issue of EFCE News! This issue contains information about the EFCE leadership, EFCE awards, forthcoming EFCE events and journal news. If you have any comments/suggestions, please contact us.

With kind regards

Giorgio Veronesi
EFCE President

In this issue:

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Boelo Schuur is full professor Sustainable Separation Technology in the Sustainable Process Technology group at the University of Twente with a main focus on affinity fluid separations. Among the application areas are biorefineries and (biobased) circular chemicals, e.g. based on microalgae, lignocellulosic biomass, pyrolytic oils from biomass and plastics, and digested wastewater.

Boelo has presented invited plenary and keynote lectures at eight international conferences, including the plenary lecture at the International Solvent Extraction Conference, ISEC 2017 in Japan. He teaches on Industrial Chemistry and Processes (BSc), Advanced Molecular Separations (MSc), and Biorefinery (EngD). Boelo is Program Director at the Institute for Sustainable Process Technology (ISPT) in Amersfoort, The Netherlands, coordinating the research and innovation agenda of the Separations for Circularity cluster.

EFCE-related activities of Boelo include membership of the board of the Netherlands Process Technologists NPT from 2012-2018, and he was NPT-representative at the EFCE from 2013-2022.

Boelo has been member of the EFCE Working Party on Fluid Separations since 2017, serving as its secretary since 2018.

In his motivation letter he wrote: "In my vision a cornerstone for the European development towards a circular economy is proper education and training. Our working parties and sections are excellent vehicles to set up such knowledge transfer. Some initiatives are already in place and working well, foster sustainable development such as workshops, conferences and the EFCE Spotlight talks. In my vision it is a task for the Scientific VP to guide all working parties and

sections to create a unified understanding of sustainability, and to expose that message to the broader society."

In addition to the three Officers, EFCE welcomes four newly elected trustees to the Executive Board: Giuseppe Bellussi (Italy), António Gonçalves da Silva (Portugal), Juraj Kosek (Czech Republic), and Laura Pirro (Belgium).

They are joining the re-elected trustees David Bogle (United Kingdom), Elisabetta Brunazzi (Italy), Antoon ten Kate (The Netherlands), Antonis Kokossis (Greece), Patrick Piccione (Switzerland), Eric Schaer (France), Tomasz Sosnowski (Poland), and Michael Wilk (Germany), and the appointed trustees Andreas Förster (DECHEMA, Germany), François Nicol (SFGP, France), and Claudia Flavell-While (ICHEME, UK), who represent the three EFCE General Secretariats.

Retiring from the Executive Board at the end of 2023 are: Michael Considine (United Kingdom), Silvie Müller (Germany), Alexis Pey Torruella (Spain), Álvaro Ramirez-Gomez (Spain), and Maurizio Rovaglio (Italy).

EFCE is very grateful for the hard work and the many hours of their time all members of the Executive Board have spent working on behalf of the Federation and would like to cordially thank them for their effort.

In particular, EFCE and its Executive Board express their heartfelt thanks to Petr Kluson, Scientific Vice-President from 1 January 2022 to March 2023, who had to step down from this position for personal reasons, and Mike Considine, Scientific Vice-President from April 2023 until the end of the year, for their great commitment to the Federation and their outstanding support to EFCE's scientific activities.

Crystallization Award presented to Francesca Breveglieri for advances in the design and optimization of deracemization processes

Dr. Francesca Breveglieri is the winner of the Federation's Excellence Award in Crystallization 2023.

Her PhD thesis titled "**Deracemization via batch temperature cycles - combining racemization and crystallization for chiral resolution**" completed at the ETH Zurich, Switzerland, under the supervision of Professor Marco Mazzotti, was unanimously selected by the jury as the best submission in terms of breadth and depth, scientific impact and the industrial relevance, and the dissemination value. The jury particularly recognised and highly appreciated the excellent technical quality of the submitted material and the industrial relevance of the investigated topic. She also has an excellent track record of well cited publications in chemical engineering and crystallization journals, both as first author and as equal contributor. She attended and presented her work in several relevant conferences in the field of crystallization.

The thesis covers the topic of batch deracemization via temperature cycling, combining experimental and theoretical work and proposing practical strategies of design of crystallization processes that could be easily applied in an industrial setting on substances that fulfil the required criteria. The results presented in Dr. Breveglieri's thesis are of great importance and of great novelty for the scientific and industrial community interested in chiral resolution. The findings demonstrated that deracemization via temperature cycles is a promising novel method to attain enantiomer purification. Moreover, the advanced understanding of batch operations motivated the investigation of the corresponding continuous variants. Although for the industrial application of batch and continuous deracemization, more studies on process scale-up as well as monitoring methods are necessary, the achievements reported in this thesis led to significant progress in process understanding and optimization, thus paving the way for enhanced and facilitated development of both batch and continuous deracemization processes.

Nominating her for the Award, Prof. Mazzotti stated: "During all this work, that has been notable from the experimental, theoretical and modelling perspectives, she has also exhibited



excellent capabilities of working independently, of collaborating with others and of mentoring students and young researchers, as reflected by the collaborative scientific contributions that she has produced."

Dr. Francesca Breveglieri received her Diploma in Industrial Pharmacy (Pharmaceutical Chemistry and Technology), from the Università degli Studi di Ferrara, Italy, and her Pharmacy Diploma, from Ordine dei Farmacisti di Ferrara, Italy, in 2016. She then moved to ETH Zurich, Switzerland, where she obtained her PhD in Process Engineering and worked as a scientific assistant at the Separation Processes Laboratory. Since February 2022, Dr. Breveglieri holds the position of process engineer, R&D and Global Engineering - Drug Containment Solutions at SCHOTT Pharma AG, Sankt Gallen, Switzerland.

The Award was presented during the 22nd International Symposium on Industrial Crystallization (ISIC 2023) (event website: <https://www.isic2023.com/>) which was held in Glasgow, United Kingdom, on 5-8 September 2023.

EFCE Awards – Calls for Nominations

Call for Nominations - EFCE-EMS Joint Excellence Award in Membrane Engineering 2024

The European Federation of Chemical Engineering (EFCE) is pleased to announce the call for nominations for the **EFCE-EMS Joint Excellence Award in Membrane Engineering 2024**.

Launched in 2009 by the EFCE Section on Membrane Engineering (https://www.efce.info/Section_MembraneEngineering), this 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://euro-membrane2024.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. The PhD thesis/paper(s) nominated must address a topic relevant to the field of membrane engineering. 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>

**About EMS:
The European
Membrane
Society (EMS)**



(<https://www.emsoc.eu>), founded in 1982, is an international non-profit organisation whose aim is to promote cooperation between scientists and engineers involved in Research and Development in the field of synthetic membranes and membrane processes.

The following Call for Nominations is still open:

2024 EFCE Excellence Award in Recognition of an Outstanding PhD Thesis on CAPE

The Award recognizes a PhD thesis which demonstrates an outstanding contribution to research and/or practice in computer-aided process engineering (CAPE) or process systems engineering (PSE).

The award consists of a cash prize of 1,500 EUR and a certificate and will be presented at ESCAPE34/PSE24 (<https://www.aidic.it/escape34-pse24/>) in Florence, Italy, on 2-6 June 2024. Any PhD thesis supervised at a university or PhD-awarding institution of an EFCE member country in computer-aided process engineering (CAPE) or process systems engineering (PSE) is eligible for nomination. The candidate's thesis

must have been defended after 1 January 2021.

**Closing date for nominations:
31 December 2023.**

Further information about the nomination procedure, eligibility, and supporting documentation and the online submission form are available on the EFCE website at:

<https://efce.info/ExcellenceAwardCAPE.html>

**The Award is
generously
sponsored by
AVEVA Software LLC**



EFCE calls for nominations for its Excellence Award in Comminution and Classification

The European Federation of Chemical Engineering (EFCE) and its Working Party on Comminution and Classification are pleased to announce the call for nominations for the **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. The nominated PhD thesis or paper(s) must address a topic relevant to the field of Comminution and Classification. 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 12 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/ExcellenceAward_ComminutionClassification.

NETZSCH

About the sponsor:

Netzsch Grinding & Dispersing is the global leader in fine grinding and dispersing applications, in liquid as well as dry processes. Our innovative material processing solutions enable our customers to create exciting products for a sustainable world. The scope of our products ranges from laboratory machines for smallest amounts samples to machines with highest capacities in the market. We offer not only single units but also complete solutions from single process lines to turnkey plants. NETZSCH Grinding & Dispersing is the most passionate team, bringing the future state of the art to customers across all industries. To be as close as possible to our customers we have localized our production and we are running a total of eleven laboratories around the world. Our sales and service teams are covering all global industrial regions.

Innovation is the key to our future, for this reason we are aware of the importance of continuous top quality development, so it was easy for NETZSCH to decide to support this excellence award with our sponsorship.

www.netzsch-grinding.com

The following Call for Nominations is still open: 2024 EFCE “Michael L. Michelsen” Award

The “**Michael L. Michelsen**” Award recognize an outstanding research career and achievements within the field. A nominated candidate should have made significant contribution and/or achievements for the advancement of science and technology within Thermodynamics and Transport Properties (TTP) and has to be active in a European institution.

The award comprises a certificate and EFCE press communication, a travel/ accommodation grant (not exceeding EUR 500) and fee waiver to attend the 33rd European Symposium on Applied Thermodynamics - ESAT 2024 (<https://www.esat2024.eng.ed.ac.uk/>) in Edinburgh,

United Kingdom, on 9-12 June 2024 where the award will be presented.

The closing date for nominations is 15 January 2024.

The 2024 “Michael L. Michelsen” Awardee is supported by Elsevier and its journal Fluid Phase Equilibria.

Further information about the nomination procedure, eligibility, and supporting documentation and the online submission form are available on the EFCE website at: https://efce.info/MichaelMichelsenAward_TTP.

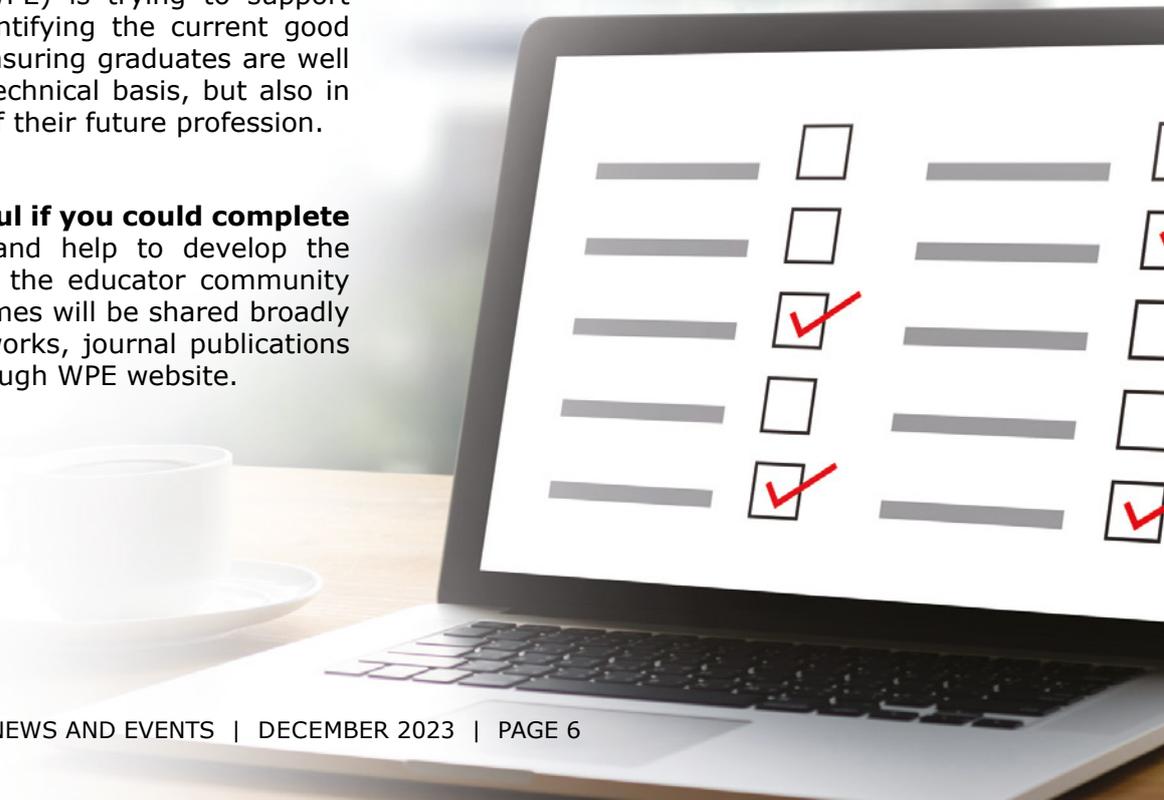
Working Party and Section News

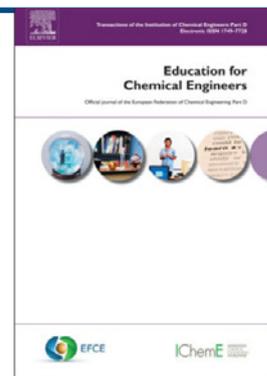
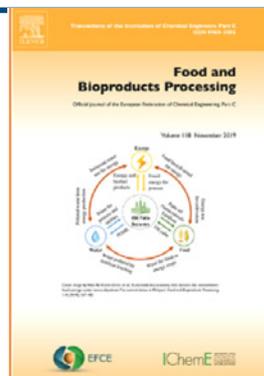
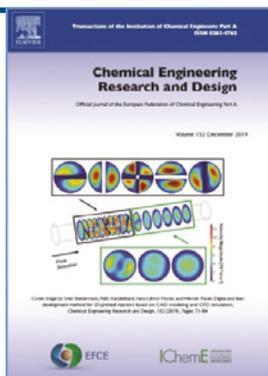
Engineering ethics good practice exchange: Working Party on Education (WPE) questionnaire

EFCE is continuously striving to support its members in important areas of chemical engineering practice. Professional ethics and responsible engineering are at the forefront of chemical engineering practice and the Working Party on Education (WPE) is trying to support the community by identifying the current good practice and gaps in ensuring graduates are well prepared not just on technical basis, but also in this important aspect of their future profession.

WPE would be grateful if you could complete the questionnaires and help to develop the important resource for the educator community in this area. The outcomes will be shared broadly through the EFCE networks, journal publications and open resource through WPE website.

[Questionnaire](#)





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

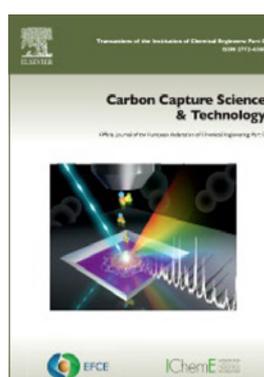
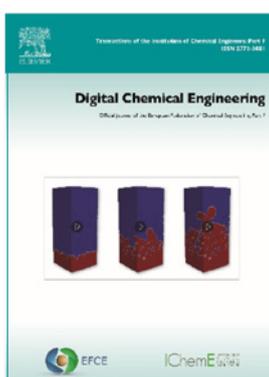
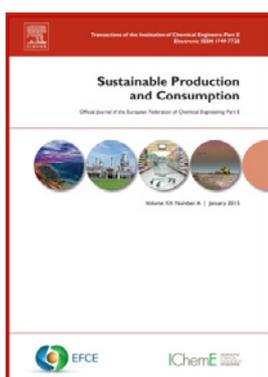
<https://twitter.com/FBPJournal>

Sustainable Production and Consumption

<https://twitter.com/SustProdCons>

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Chemical Engineering Research and Design

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

Freely available content:

- **NEW** Distillation & Absorption 2022 - 12th International Conference on Distillation and Absorption
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/10CTHJPH5JK>
- **NEW** Enabling Technologies for Biopharmaceutical Process Development and Manufacturing
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/104RHBHZ21X>
- 7th International Conference on Population Balance Modelling 2022
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/10B4LLSD0NC>
- 100 years of IChemE
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/10QRQR0JV67>
- January 2023 issue (Volume 189)
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/vol/189/suppl/C>

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/101VZQSMRK>
- 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>
- Digitalisation of Food and Beverage Manufacturing
<https://www.sciencedirect.com/journal/food-and-bioproducts-processing/special-issue/106BTW64R60>

Education for Chemical Engineers

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

Freely available content:

- **NEW** 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:

- January 2023 issue (Volume 35)
<https://www.sciencedirect.com/journal/sustainable-production-and-consumption/vol/35/suppl/C>

Digital Chemical Engineering

Gold Open Access – APC (Author Processing Charge) fully waived on all submissions received before 29 May 2023

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 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 for submission. Submissions from all welcome! If you require any further information then please contact Managing Editor Catherine Cliffe ccliffe@icheme.org

Details as follows:

Chemical Engineering Research and Design

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

NEW 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>

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

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

NEW 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>

Special issue: Systems Thinking for Carbon Neutrality (Manuscript submission deadline **30 December 2023**)

Special issue: Circular Economy as a Driver for Achieving Sustainable Production and Consumption (II) (Manuscript submission deadline **31 December 2023**)

Special issue: Responding to the climate emergency: metrics and tools for rational action (Manuscript submission deadline **31 December 2023**)

NEW 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**)

Carbon Capture Science & Technology

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

NEW Special issue: 10th International Symposium on Coal Combustion (Submission deadline **31 December 2023**)

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>

Save the date!

EFCE Spotlight Talks

Online, 18-28 April 2024

The programme will be available in February 2024.

Website: <https://efce.info/SpotlightTalks.html>

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 m². [Download here the Sponsorship Guide](#) with sponsorship packages description and exhibition solutions.

Register NOW! Early bid registration deadline: 30 January 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: 15 January 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 18th 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.

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 m². 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>

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 high 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/>

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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