

World Congress on Particle Technology (WCPT9) – Call for Papers

Motto: Exploring beyond the limits (EFCE Event No. 784)

The **9th World Congress on Particle Technology (WCPT9)** will be held on **18–22 September 2022**, in **Madrid** (Spain) as a face-to-face event. [WCPT9](#) is the **world's most influential event for the particle technology community**. It's where world-leading researchers and companies share the latest thought leadership about the progression and future of particle technology. And it's the best place for networking opportunities with your colleagues to share mutual professional goals.

For WCPT9, a unique collaboration has been established among 8 Working Parties of the European Federation of Chemical Engineering (EFCE). The following EFCE Working Parties are involved with the organisation of WCPT9: **Agglomeration, Characterisation of Particulate Systems, Comminution and Classification, Crystallization, Drying, Mechanics of Particulate Solids, Mixing, Multiphase Fluid Flow.**

It happens every time. You arrive in **WCPT** and think, "**What a great atmosphere!**" There's something in the air, an energy that invigorates you and fills you with positive emotions sharing your knowledge with your colleagues. Together, **face to face**, we will shape the future of particle technology. It's time to reconnect, meet again, enjoy networking with your colleagues **in a safe environment** discovering a unique way of living in Madrid.

Dear Readers,

This is the first newsletter of the 2022–2023 term of the new EFCE Board and for me as President, so I'm particularly proud to welcome you to the first 2022 issue of EFCE News!

This issue contains much information about next EFCE activities and events and hopefully it will inspire you to actively participate to them.

If you have any comments/suggestions, please contact us.

With kind regards

Giorgio Veronesi
EFCE President

In this issue:

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- EFCE Awards 2022 – calls for nominations: Mechanics of Particulate Solids, Process Safety, Static Electricity in Industry, Fluid Separations
- Working Party and Section News: WP on Process Intensification, Section on Food
- Member Society News: IChemE, AIDIC
- News about the official EFCE Journals
- EFCE Events in 2022



**EXPLORING
BEYOND
LIMITS**

Crystals **Food powders**
Agglomerates **Charged particles**
Aggregates **Atomized particles**
Fly ash **Metal powders** **Pellets** **Grains**
Composites **PM2.5** **Bulk solids**
Granules **Dust** **Healing particles**
Powders **Emulsion drops** **Nanoparticles**
Recycled particles **Aerosols** **Microplastics**
Colloidal nanoparticles **Microgel particles**
Particle emissions **Biomass** **Microcapsules**
Biomolecule-based particles **Quantum dots**
Micro-particles **Fluidized bed particles**
Particle-based materials and products
Pharmaceutical tablets ...

The scientific program outlined covers the most relevant topics nowadays for industry and our society. WCPT9 main topics are:

- Particulate solids handling
- Particle and particulate systems characterization
- Particle processing
- Particle-fluid systems: fluidization and multi-phase flow
- Particle formation and design
- Particle separation
- Aerosol particles
- Nanoparticles: production, characterization and applications
- Modelling and simulation
- Science, Technology, Engineering and Design in particle-based materials and products.

Beyond these main topics, Joint Events (JE) will be also organized in engineering, scientific or technically related fields, where particle technology is present. Three WCPT9-JE have been already confirmed:

- Challenges of microplastics: analysis and control.
- III ANQUE-DECHEMA Leading edge conference "Particle Technology. Shaping the future".
- Multidimensional particle properties: characterization, separation and application.

THE CALL FOR PAPERS IS OPEN!

As in previous editions WCPT9 aims to receive **contributions from all around the world**. We are already receiving the first Abstracts, **do not miss the opportunity to send us yours!** You will find all the details to prepare your abstract and the information related to the evaluation in the following link: <https://wcpt9.org/call-for-abstracts/>

The deadline for abstract submission is 1 March 2022!!

The website will be updated constantly with information provided from organizers and participants, so please be aware of the notifications regarding WCPT9 at: <https://wcpt9.org>

If life were a city, it would be Madrid. If your interest is particle technology, WCPT9 is the conference to participate in, what else?

We look forward to WCPT9 Madrid 2022 with renewed optimism and ambition.

Carlos Negro *Congress Chair*
Hermann J. Feise *Int. Adv. Comm. Chair*
Álvaro Ramírez-Gómez *Sci. Comm. Chair*
Ernesto Castañeda *Organiz. Comm. Chair*

Save the date!

EFCE Spotlight Talks 2022

10 webinars from 19 April to 29 April

EFCE Awards 2022 – Calls for nominations

2022 EFCE Excellence Award Mechanics of Particulate Solids

The EFCE and its WP on Mechanics of Particulate Solids (https://efce.info/WP_MPS.html) are pleased to issue a call for nominations for the **2022 Excellence Award in Mechanics of Particulate Solids**. Presented in 2013 for the first time, this triennial award aims to recognise a PhD thesis or associated paper(s) of a researcher or engineer, which demonstrate(s) an outstanding contribution to research and/or practice in Mechanics of Particulate Solids.

The award is generously sponsored by **Jenike & Johanson Inc.**, a leading supplier of powder and bulk solids handling, processing, and storage technology.

The award will be presented at the 9th World Congress of Particle Technology, WCPT9, (<https://wcpt9.org>), described in this Newsletter.

It consists of a certificate, a cash prize worth €1500, plus a travel grant and free registration to the conference. The winner will be invited to give a presentation following the award ceremony.

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 Mechanics of Particulate Solids. Only PhD theses or paper(s) published between December 2018 and April 2022 are eligible for nomination.

Closing date for nominations: 30 April 2022.

Further information about the nomination procedure, eligibility, and supporting documentation and the online submission form are available on the EFCE website at: <http://www.efce.info/ExcellenceAwardMPS.html>

About the sponsor:

Jenike & Johanson, Inc., is the world leading technology company for bulk material handling, processing, and storage. They deliver engineered solutions to achieve reliable powder and bulk solids flow based on proven theories and decades of project experience. With their skilled, highly technical team of experts and industry-leading innovations, they have successfully delivered bulk material engineering solutions for over 55 years. Bulk materials and their flow properties are at the core of Jenike &

Johanson's work. Clients are offered maximum flexibility in selecting services required to meet their bulk material handling needs. Jenike & Johanson does not follow the "one size fits all" concept - which can be a dangerous pitfall in engineering. Decisions made during the feasibility and engineering stages of a project are critically important for its success. If bulk solids systems are not engineered from the outset to handle the unique characteristics of the materials, process start-up time can be significantly delayed and design capacity may never be reached.



The following calls for nominations are still open:

- **EFCE Excellence Award in Process Safety**
Closing date for nominations extended to **25 February 2022**.
Further information: <https://www.efce.info/ExcellenceAwardProcessSafety.html>
- **EFCE International Fellow Award in Recognition of dedicated service and notable contributions to the advancement of the field of Electrostatics**
Closing date for nominations: **1 March 2022**.
Further information: <http://www.electrostatics2021.pwr.edu.pl/wp/>
- **EFCE Excellence Award in Fluid Separations 2022**
Closing date for nominations: **7 March 2022**
The Excellence Award is generously sponsored by Evonik
Further information: <http://www.efce.info/ExcellenceAwardFluidSeparations.html>

Member Society News

IChemE marks its centenary with programme on how chemical engineers serve society

IChemE has partnered with ITN Productions Industry News to produce *Serving Society*, a television programme looking at the role of the chemical engineer and how the profession is addressing some of the biggest challenges in our society today.

Anchored by presenter Sharon Thomas, *Serving Society* features industry experts along with informative interviews, news items and sponsored editorial profiles, filmed at the ITN Productions Industry News London studio and around the UK.

Jon Prichard, IChemE Chief Executive and Jane Cutler, IChemE President join Sharon Thomas to discuss how chemical engineering is addressing climate change and sustainability, what the future looks like for the sector and how IChemE is encouraging more women into the profession.

The role of the chemical engineer has never been more important, helping to address some of the world's biggest challenges. *Serving Society* features reports from IChemE exploring the evolution of the chemical engineering profession's place in society today and the incredible work being done to address the future of plastic recycling.

The programme also showcases films from



businesses and organisations from across the field of chemical engineering, demonstrating the enormous contributions they are making to our world. Watch the full programme by clicking the link below.

https://www.icheme.org/about-us/serving-society?utm_source=homepage&utm_medium=P1_banner&utm_campaign=Serving_Society

About IChemE

The Institution of Chemical Engineers (IChemE), based in the UK, serves over 30,000 members in more than 100 countries worldwide. We support our members in applying their expertise and experience to make an influential contribution to solving major global challenges, and are the only organisation permitted to award Chartered Chemical Engineer status and Professional Process Safety Engineer registration.

Working Party News

15th European PhD Workshop on Food Engineering and Technology Uzwil, Switzerland, 10–11 May 2022

The PhD Workshop is organised by the EFCE Section on Food and hosted by Bühler at its CUBIC Innovation Campus.

Call for nominations:

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>

Deadline for submission of relevant documents via the website: **22 February 2022.**

Change of Chairmanship

Professor Georgios Stefanidis, National Technical University, of Athens, Greece, has been elected as the new Chair of the Working Party on Process Intensification. His 3-year term of office started on 1 January 2022. He succeeded Prof. Tom Van Gerven, who held this position for position almost nine years.



Upcoming event organised by AIDIC

Energy, Environment & Digital Transition – E₂DT

The Italian Association of Chemical Engineering, AIDIC, is pleased to invite you to the conference **Energy, Environment & Digital Transition – E₂DT**, which will be held in **Milan**, Italy, on **23–26 October 2022** (EFCE Event No. 781).

The conference aims to bring together researchers, engineers, senior executives, policy makers and opinion formers to map the transition from an economy based on fossil fuels towards net zero carbon and fully renewable energy to meet the COP26 Glasgow Agreement targets. The objective is to provide a view on available, up-to-date evidence on positive and negative environmental effects of the energy transformation in a holistic way and on the opportunities for new technologies to drive/accelerate the transition.

Such energy and environmental evolution will be enabled by policy frameworks and market instruments, accelerated by digitalization.

Digital technologies will in fact make energy systems around the world more connected, intelligent, efficient, reliable and sustainable.

Conversely, digitalization is also changing markets, businesses and employment: new models are emerging, while some conventional ones are phasing out.

Topics of the conference include:

Technology process on renewable energy generation and use; Carbon capture and storage technology; Hydrogen energy: production and storage; Help energy consumers to make more sustainable decisions; Mobilizing industry for a clean and circular economy; Zero pollution ambition for a toxic-free environment; Preserving and restoring ecosystems and biodiversity; Energy storage and battery

technology; Energy transportation and transmission; Mobilizing society for the energy transition; How digital evolution can help zero carbon footprint challenge

The E₂DT conference will be held at the Congress Area of the Starhotel ROSA GRAND MILANO, which is strategically located in the center of Milan, next to the Duomo and close to the many attractions of the city.

<https://collezione.starhotels.com/en/our-hotels/rosa-grand-milan>

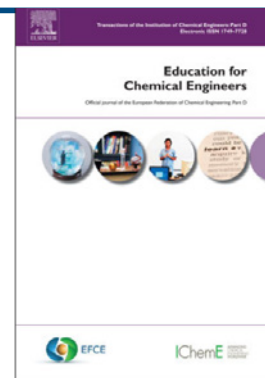
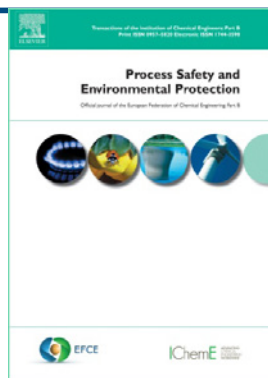
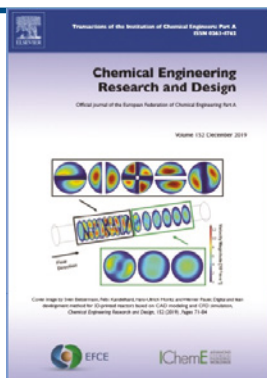
The call for papers is still open.

Current deadline for abstract submission: 15 February 2022

For requirements and practical aspects of the submission of abstracts, please kindly refer to the following link: <https://www.aidic.it/e2dt/page.php?pipe=testoabstract>

Selected papers will be presented during the conference and published into Chemical Engineering Transactions <https://www.cetjournal.it>

Website: <https://www.aidic.it/e2dt/>



News about the official EFCE journals

Call for new Editors from under-represented groups to join Digital Chemical Engineering



Digital Chemical Engineering aims to provide a leading platform for the publication of new and novel interdisciplinary research across the domains of chemical engineering and digital sciences and technologies. As a new journal, we are in a strong position to embed and promote diversity and inclusion from the journal establishment and through its development. We invite researchers to approach us directly and nominate themselves. We also request the Digital Chemical Engineering community to nominate suitable candidates who will enhance representation of the diverse community. For more information see: <https://www.journals.elsevier.com/digital-chemical-engineering/announcements/call-for-new-editors-from-underrepresented-groups-to-join-digital-chemical-engineering>

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

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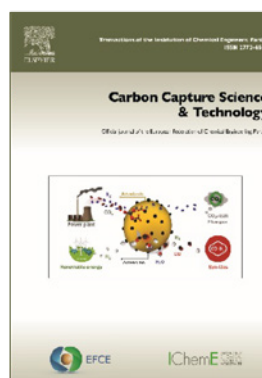
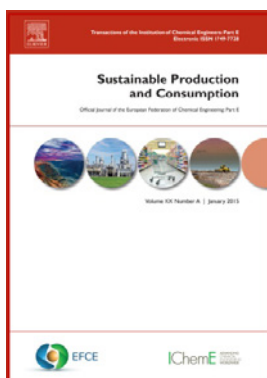
The following articles / issues are set for free access periods. In addition to these, articles that are published via the open access route in the journal are also freely available to all. These are identified in ScienceDirect by a green dot. It is possible sign up to an RSS alert specifically to inform 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 2022 issue (Volume 177)
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/vol/177/suppl/C>



Process Safety and Environmental Protection

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

Freely available content:

- January 2022 issue (Volume 157)
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/vol/157/suppl/C>
- **NEW** Data Analytics in Process Safety
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/special-issue/10QCVQMKQ1W>

Food and Bioproducts Processing

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

Freely available content:

- January 2022 issue (Volume 131)
<https://www.sciencedirect.com/journal/food-and-bioproducts-processing/vol/131/suppl/C>

Education for Chemical Engineers

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

Freely available content:

- January 2022 issue (Volume 38)
<https://www.sciencedirect.com/journal/education-for-chemical-engineers/vol/38/suppl/C>

Sustainable Production and Consumption

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

Freely available content:

- January 2022 issue (Volume 29)
<https://www.sciencedirect.com/journal/sustainable-production-and-consumption/vol/29/suppl/C>

Digital Chemical Engineering

Freely available content:

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

Carbon Capture Science & Technology

Freely available content:

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

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

Special Issue: Machine Learning in Hydrogen Production (Manuscript submission deadline **28 February 2022**)

<https://www.journals.elsevier.com/chemical-engineering-research-and-design/call-for-papers/special-issue-machine-learning-in-hydrogen-production>

NEW Special Issue: Chemical Engineering in Latin America: Challenges and Opportunities (Manuscript submission deadline **31 May 2022**)

<https://www.journals.elsevier.com/chemical-engineering-research-and-design/call-for-papers/special-issue-chemical-engineering-in-latin-america-challenges-and-opportunities>

NEW Special Issue: Extended Application of Biomass-based Activated Carbon in Water and Wastewater Treatment (Manuscript submission deadline **31 March 2022**)

<https://www.journals.elsevier.com/chemical-engineering-research-and-design/call-for-papers/special-issue-extended-application-of-biomass-based-activated-carbon-in-water-and-wastewater-treatment>

NEW Special Issue: Intelligent Green Oil and Gas Engineering (Manuscript submission deadline **31 May 2022**)

<https://www.journals.elsevier.com/chemical-engineering-research-and-design/call-for-papers/special-issue-intelligent-green-oil-and-gas-engineering>

Process Safety and Environmental Protection

Special issue: Recent Advances in Thermochemical Transformation of Biomass to Bio-oil, Biochar and Syngas and its Upgrading Methods (Manuscript submission deadline **31 March 2022**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-recent-advances-in-thermochemical-transformati>

Special issue: Resilience Assessment and Management (Manuscript submission deadline **31 March 2022**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-resilience-assessment-and-management>

NEW Special issue: Aqueous Emerging Pollutants and Treatment (Manuscript submission deadline **30 June 2022**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-aqueous-emerging-pollutants-and-treatment>

Education for Chemical Engineers

NEW Special issue: Accreditation (Manuscript submission deadline **30 April 2022**)

<https://www.journals.elsevier.com/education-for-chemical-engineers/call-for-papers/special-issue-accreditation>

Sustainable Production and Consumption

Special issue: Digital Transformation for Sustainable Production and Consumption (Manuscript submission deadline **31 May 2022**)

<https://www.journals.elsevier.com/sustainable-production-and-consumption/call-for-papers/special-issue-on-digital-transformation-for-sustainable-production-and-consumption>

Special issue: Circular Economy as a Driver for Achieving Sustainable Production and Consumption (Manuscript submission deadline **31 July 2022**)

<https://www.journals.elsevier.com/sustainable-production-and-consumption/call-for-papers/special-issue-on-circular-economy-as-a-driver-for-achieving-sustainable-production-and-consumption>

Digital Chemical Engineering

NEW Special issue: Emerging Stars in Digital Chemical Engineering (Nomination deadline **31 March 2022**)

<https://www.journals.elsevier.com/digital-chemical-engineering/call-for-papers/emerging-stars-in-digital-chemical-engineering>

Carbon Capture Science & Technology

NEW Special issue: IChemE CCST Awards (Nomination deadline **28 February 2022**)

<https://www.journals.elsevier.com/carbon-capture-science-and-technology/call-for-papers/special-issue-icheme-ccst-awards>

Special issue: Nanomaterials Tailored for CO₂ Science (Manuscript submission deadline **28 February 2022**)

<https://www.journals.elsevier.com/carbon-capture-science-and-technology/call-for-papers/special-issue-on-nanomaterials-tailored-for-co2-science>

Special issue: Solid Sorbents for Carbon Capture (Manuscript submission deadline **31 March 2022**)

<https://www.journals.elsevier.com/carbon-capture-science-and-technology/call-for-papers/special-issue-on-solid-sorbents-for-carbon-capture>

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

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

Electrostatics 2022

Hybrid format (online and in Wroclaw, Poland)

**8 March–1 April 2022
(EFCE Event No. 774)**

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

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

Topics:

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

Invited speakers: Dr. Paul Holdstock (Helmut Kramer Memorial Lecture); Dr. Daniel Lacks; Dr. Thierry Paillat; Dr. Poupak Mehrani; Dr. Jeremy Smallwood. For details, see <http://www.electrostatics2021.pwr.edu.pl/wp/index.php/program-2/>

The call for papers is open for manuscripts to be presented at the conference. **Deadline: 1 March 2022.**

This papers will be published in the Conference proceedings in electronic form. They can be full papers or extended abstracts. Instructions will be given on the Conference website.

Register now!

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

PMB2022 – 7th International Conference on Population Balance Modelling

**Lyon, France, 7–9 June 2022
(EFCE Event No. 785)**

PBM2022 is organised by Université Claude Bernard Lyon with involvement of several EFCE Working Parties related to the field

Topics: Contribution and challenges of PBM in practical / novel applications; Identification and uncertainty analysis of PBM; Experimental approaches, monitoring; Solution methods of PBM, stochastic PBM; Multiscale coupling of PBM

'Last Minute Poster' submission deadline: 29 April 2022

Invited speakers: Dr. R. Bertrum Diemer, University of Delaware, USA; Prof. Rodney O. Fox, Iowa State University, Ames, Iowa, USA; Prof. Achim Kienle, Max Planck Institute and Otto von Guericke, University of Magdeburg, Germany

Register now!

Website: <http://pbm2022.univ-lyon1.fr/en/pages/pbm-2022-home>

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

Hybrid format (online and in Prague, Czech Republic)

5–8 June 2022 (EFCE Event No. 765)

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

Topics: The topic matrix is available at: <https://www.lossprevention2022.org/topics/>

More than 200 submitted abstracts promise an interesting and valuable program, as well as 6 very attractive keynote lectures.

More information and Registration and accommodation forms are available on the website.

The 2022 Symposium will be held in a new, **hybrid form** which offers even more opportunities for presentation.

Plenary speakers: Stewart Behie; Valerio Cozzani; Nikos Markatos; Manfred Müller; Arjan van Dijk; Vladimír Vlček

Register now! Early bird registration deadline: 20 February 2022

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

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

The ESCAPE-32 event is organized under the auspices of the EFCE Working Party on Computer Aided Process Engineering (CAPE-WP), Institut National Polytechnique de Toulouse (Toulouse INP) and Société Française de Génie des Procédés (SFGP).

Topics: Modelling and Simulation, Product/Process Synthesis and Design, Large Scale Design and Planning/Scheduling, On Line Model Based Applications and Control, Concepts, Methods and Tools, Digitalization and Artificial Intelligence, CAPE Applications Addressing Societal Challenges, Education in CAPE and Knowledge Transfer.

Plenary speakers: Sigurd Skogestad; Vincent Gerbaud; Jutta Valkenberg.

Register now! Early bird registration deadline: 15 February 2022

Website: <https://escape32.inp-toulouse.fr/en/index.html>

17th European Symposium on Comminution & Classification – ESCC2022
Toulouse, France, 27–29 June 2022
(EFCE Event No. 784)

17th European Symposium on Comminution & Classification (ESCC) is organised by INP Toulouse on behalf of the EFCE Working Party on Comminution and Classification.

This event will combine the fundamentals of breakage, advanced models and comminution and classification processes on mineral processing, biorefinery, food, pharmaceutical, chemical and materials industries as well as recycling industries and waste processing.

Topics: Fundamentals of particle breakage; Innovative methods for particulate

characterization; Coarse grinding and classification processes, especially for minerals, ores, cement, ...; 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, ...; Grinding for recycling industries and waste processing : plastics, WEEE, construction and demolition wastes, agricultural wastes, solar panels, wind turbines, ...; Mechanochemical and mechanofusion processes, mechanical bulk and surface transformations; 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.

Plenary speaker: Pr. Ecevit Bilgili, New Jersey Institute of Technology (NJIT), USA

The call for papers is still open. Abstract submission deadline: 15 February 2022

Registration will open in March 2022.

Website: <https://esc2022.sciencesconf.org>

CHISA 2022 – 25th International Congress of Chemical and Process Engineering
Prague, Czech Republic,
21-25 August 2022
(EFCE Event No. 787)

The Czech Society of Chemical Engineering (CSCHE) invites you to the upcoming CHISA in the very beautiful city of Prague to celebrate 60 years of CHISA Congresses in 2022 under the motto "The place, where people meet people and science meets culture".

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; The Covid outbreak and chemical engineering;

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;

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. The Wiley-VCH Poster Session.

Plenary speakers: Prof. Robert Schlögl, Max

Planck Institute for Chemical Energy Conversion, Berlin, DE; Prof. Christine Grant, North Carolina State University, USA; Prof. David Fernandez Rivas, University of Twente, NL; Prof. Matthias Kraume, Technical University Berlin, DE; Prof. Yoel Sasson, Hebrew University of Jerusalem, IL. For details see <https://2022.chisa.cz/scientific-program/#plenary>

The call for papers is still open. Deadline for abstract submission: 28 February 2022

Posters may be accepted up to the beginning of the Congress but only those received before 31 May 2022 will be included in the final program.

Website: <https://2022.chisa.cz/>

ACHEMA 2022
Frankfurt am Main, Germany,
NEW DATE: 22–26 August 2022
(EFCE Event No. 775)

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

ACHEMA is the central arena of the process industry. Nowhere is the heartbeat of our industry faster, more intense, up-to-date, innovative and international than here.

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

Digital Hub - Venue for digital players at the heart of ACHEMA: <https://www.achema.de/en/the-achema/digital-hub>

ACHEMA Congress – from research to application: Researchers, developers and users meet at the ACHEMA congress to discuss new developments and solutions for current challenges in the process industries.

Topics: Hydrogen Economy; Fossil Free Production; Digitalisation in Process Industry; Perspectives in Laboratory and Analytics; Novel Bioprocesses and Technologies; New Developments in Production.

PRAXISforums: The PRAXISforums take place within close proximity to the exhibition groups. Short presentations cover current issues on production, best practices and ready-to-use technologies, always with an eye on application.

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

Distillation & Absorption 2022 *Toulouse, France,* **18–21 September 2022** **(EFCE Event No. 780)**

Distillation & Absorption 2022 will showcase the newest and best in distillation & absorption technology and will cover a broad range of fundamental and applied aspects. The conference is supported by the Société Française de Génie des Procédés (SFGP) working closely with the EFCE Working Party on Fluid Separation.

Topics: Basic data; Modelling, Simulation, IA methods (hybrid modelling, digital twin,...); Hybrid and Multifunctional Processes (modularity, flexibility, intensification,...); Equipment design, technology and innovation (additive manufacturing, centrifugal separation,...); Control, Process operation and troubleshooting; Energy and sustainability in separation processes (efficiency, renewable energy, new concepts, CO₂ capture,...); Biobased separation processes; Mobile/On-board separation processes (embedded processes in cars, ships, aircrafts, satellites); CO₂ capture.

Selected contributions will be published in a special issue of *CHERD* as a long version.

Associated with the conference, a call for nominations for the 2022 EFCE EXCELLENCE AWARD IN FLUID SEPARATIONS is open.

Deadline for submission of nominations: 7 March 2022.

The award is sponsored by the EFCE and Evonik.

Plenary speakers: Andreas Bode, BASF SE; Søren Bøwadt, Health and Digital Executive Agency (HaDEA); Veronique Pugnet, TOTAL; Bernard Saulnier & Mikaël Wattiau, Air Liquide R&D; Michael Schultes, Ruhr-Universität Bochum; & Daniel R. Summers, FRI's Design Practices Committee.

Deadline for submission of 6 pages manuscript for refereeing: extended to 18 February 2022

Website: <http://da2022.org/fr/index.html>

9th World Congress of Particle Technology *Madrid, Spain, 18–23 September 2022* **(EFCE Event No. 784)**

For more information, see above

Website: <https://www.wcpt9.org>

Save the date!

ECCE14 & ECAB8 - 14th European Congress of Chemical Engineering & 7th European Congress of Applied Biotechnology

Berlin, Germany,
17-21 September 2023
(EFCE Event No. 782)

Website: <https://ecce-ecab2023.eu/>

Energy, Environment & Digital Transition E₂DT *Milano, Italy, 16–19 October 2022* **(EFCE Event No. 781)**

For more information, see above

Website: <https://www.aidic.it/e2dt>

17th European Conference on Mixing **(EFCE Event No. 773)**

The Mixing Conference is organised by the University of Porto on behalf of the EFCE Working Party on Mixing. **The physical conference in Porto, Portugal is postponed to 2023.**

Website: <http://mixing17.eu>

Contact

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