



Guy Marin wins prestigious EFCE Dieter Behrens Medal



Professor Guy Marin of Ghent University

in Belgium was awarded the 2021 Dieter Behrens Medal by the European Federation of Chemical Engineering.

The Dieter Behrens Medal is presented every four years.

It recognises a **significant contribution on behalf of the Federation in raising the profile**

of chemical engineering in Europe or in relation to the organisation, management or development of EFCE's activity base.

Marin was conferred the medal in recognition of the role he has played for almost thirty years as an active member, secretary and committed chair of the EFCE Working Party on Chemical Reaction Engineering, his work on the EFCE journal Chemical Engineering Research and Design, and for his substantial contribution to chemical reaction engineering in Europe. Awarding him the medal, EFCE president Dr Hermann Feise noted Marin's role in organising various events in the field, such as the prestigious ISCRE, ESCRE and MACKIE conference series.

Marin was nominated by Prof. Dr.-Ing. Kai-Olaf Hinrichsen, chair of the EFCE Working Party on Chemical Reaction Engineering, who referred to Marin's outstanding academic contributions to the multi-scale modelling and design of catalytic, thermal and polymerization processes, reactors and products, combining fundamental understanding with industrial practice. He co-authored over 700 research papers, and is the only academic among the four founding members of the EUROKIN

consortium which transfers knowledge in reaction kinetics from the academic to the industrial domain.

The medal was awarded on 20 September 2021, during the 13th European Congress of Chemical Engineering. Receiving the medal, Marin said: "I want to take the opportunity to thank all my former colleagues of Ghent University and Eindhoven University of Technology as well as of the Chemical Reaction Engineering community with whom I have enjoyed collaborating since the nineties of the last century."

Welcome to the Autumn 2021 issue of the EFCE News. If you have any comments on the newsletter please get in touch.

With kind regards

Hermann Feise
EFCE President

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Pulsed plasma ethylene process scoops EFCE Process Intensification Award



Dr. Evangelos Delikonstantis has won the **2021 EFCE Excellence Award in Process Intensification** for his ground-breaking work on a methane-to-ethylene conversion process.

Delikonstantis' PhD work, titled "Plasma-Assisted Non-Oxidative Methane Coupling to Olefins",

set out how methane can be converted to ethylene using a nanosecond pulsed plasma. In his work he recorded by far the highest ethylene yield ever achieved from atmospheric plasma (ca. 20 %) without the use of any catalyst, according to Nicolas D Boscher, project leader at Luxembourg Institute of Science and Technology (LIST) and one of the external evaluators of Delikonstantis' PhD thesis.

He noted that beyond the non-oxidative methane coupling to ethylene, the findings demonstrate the potential of nanosecond pulsed plasma for catalysis and should pave the way to other important chemical conversion reactions. If powered by renewable electricity, the process could pave the way for novel low-carbon ethylene production processes, with an estimated carbon footprint of 1.3kg of CO₂-equivalent per kilogram of ethylene.

The work has so far been the subject of ten peer-reviewed articles which have been cited over 150 times, underlying the scientific impact of his research.

Judges from the EFCE Working Party on Process Intensification commented: "The most impressive aspect of his PhD thesis is the holistic approach [Delikonstantis] applied in his research, ranging from plasma reactors design, realization and optimization to reaction mechanism investigation and plasma-assisted processes evaluation at a plant-wide scale. This is very rare for just a single PhD project as multi-disciplinary knowledge, thinking and capabilities are needed."

Delikonstantis carried out his PhD project between February 2015 and June 2010 at KU Leuven in Belgium, under the supervision of Professor Georgios Stefanidis.

Since the completion of his PhD, Delikonstantis moved to Ghent University where he continues to work on the decarbonization of the chemicals industry by creating CO₂-based chemicals via electrified processes. Other focus areas are energy optimization/heat integration, life cycle analysis and techno-economic evaluations.

The award was presented on Thursday, 23 September 2021 in the Session on "Process Intensification" during the 13th European Congress of Chemical Engineering & 6th European Congress of Applied Biotechnology (ECCE13 & ECAB6).

Delikonstantis will receive a prize of €1500, which is generously sponsored by Microinnova Engineering GmbH.

About Microinnova Engineering GmbH



Microinnova Engineering GmbH designs efficient chemical and separation processes by means of process intensification and flow chemistry.

As specialists of innovative process technology, Microinnova offers customers continuous manufacturing with an end-to-end solution ranging from syntheses, over work up, to liquid formulation.

These customer-specific solutions are characterized by quality by design. The product portfolio ranges from process development to production plant solutions in tons-per-hour scale.

Additional information can be found at www.microinnova.com

EFCE presents Product Design Excellence award to Christian Rieck



Dr. Christian Rieck has been awarded the **2021 EFCE Excellence Award in Product Design and Engineering.**

The Award was conferred upon him for his excellent PhD thesis "*Microscopic and macroscopic modeling of particle formation processes*

in spray fluidized beds" completed at the Otto von Guericke University Magdeburg, Germany, under the supervision of Professor Evangelos Tsotsas.

The judges praised his outstanding achievements in the development of process models for coating and layering granulation as well as agglomeration of amorphous particles with relevance to industrial application. They stressed the importance of coating and agglomeration in (binder-less) spray fluidized beds and their impact on controlled release formulations and underlined the value of Rieck's development of discrete stochastic models related to this application.

Furthermore, his work focussed on tracking the border of the agglomeration process applied for binder-less spray fluidized bed agglomeration of related amorphous particles

The mentioned processes are of particular importance for new pharmaceutical applications amongst other industry applications such as food and fine chemicals.

Nominating him for the Award, Professor Tsotsas stated: "His PhD contributes to three major innovations which foster our ability to design particulate products in an efficient and knowledge-based way: (1) a discrete, stochastic model for particle coating and layering granulation; (2) a model for binder-less spray fluidized bed agglomeration of amorphous particles; (3) uniquely new layering-versus-agglomeration regime maps."

Christian Rieck obtained his Bachelor and Masters' degree in 'Verfahrenstechnik' from the Otto von Guericke University Magdeburg and his PhD from the Faculty of Process and Systems Engineering at the same University. From 2013 to 2020 he held

the position of Research Assistant and Thermal Process Engineering Chair at the Otto von Guericke University Magdeburg. In Autumn 2020, he joined Glatt Engineering GmbH in Weimar, Germany.

The award was presented to Dr. Rieck on Monday, 20 September 2021 at the Symposium on Future Directions in Product Design and Engineering, a satellite event of ECCE13&ECAB6 which was held as a virtual conference on 20-23 September 2021.

The Excellence Award is generously sponsored by Beiersdorf AG.

About Beiersdorf AG

Beiersdorf *Beiersdorf has stood for innovative, high-quality skin and body care products and pioneering skin research for almost 140 years. Leading international brands such as NIVEA - the world's No. 1 in skin care* -, EUCERIN (dermocosmetics), LA PRAIRIE (selective cosmetics), and HANSAPLAST (plaster and wound care) impress millions of people around the world every day. Other well-known brands such as LABELLO, AQUAPHOR, FLORENA, 8X4, HIDROFUGAL, GAMMON, COPPERTONE, MAESTRO, CHAUL and STOP THE WATER WHILE USING ME! complete the extensive portfolio. Through its wholly owned affiliate tesa SE, Beiersdorf is also one of the world's leading manufacturers of technical adhesive tapes and self-adhesive system solutions for industry, commerce, and consumers.*

Headquartered in Hamburg, the company generated sales of €7,025 million and an operating result (EBIT) of €828 million in fiscal year 2020. Beiersdorf employs over 20,000 people worldwide who are united by shared values, a strong corporate culture, and the Beiersdorf Purpose "Care Beyond Skin". With its C.A.R.E. + strategy, the company is pursuing a multi-year investment program aimed at achieving competitive, sustainable growth. The program is in line with Beiersdorf's ambitious sustainability agenda, which creates clear added value for consumers, society, and the environment.

** Source: Euromonitor International Limited; NIVEA as an umbrella brand in the face, body and hand care categories; retail sales 2020.*

Additional information can be found at www.beiersdorf.com.

EFCE-EMS Joint Excellence Award granted for excellence in the development of thin-film composite membranes for nanofiltration



Dr. Cédric Van Goethem has been named as the winner of the **2021 EFCE EMS Joint Excellence Award in Membrane Engineering** for his excellent PhD thesis "*Preparation and characterization of novel thin-film nanocomposite and asymmetric nanofiltration*

membranes", completed at KU Leuven under the supervision of Prof. Ivo Vankelecom. He achieved the best evaluation results in terms of breadth and depth of the study, scientific impact including industrial relevance, innovation, dissemination of the results, and especially the way in which his experience was transmitted to younger researchers.

The award jury stated: "He has an impressive record of publications, being first author in seven journal articles."

His work covers (1) the development of membranes with high stability to be used in solvents or in conditions of extreme pH, and (2) the development of thin-film composite membranes with special fillers with high selectivity in nanofiltration. Nanofiltration (NF) and solvent resistant NF (SRNF) have the potential to provide an energy efficient and easily scalable alternative separation technique for many separation problems with industrial and societal relevance. For (SR)NF to fully live up to this promise, membranes with enhanced separation performance and stability have to be developed. Through the use of advanced characterization methods, Cédric managed to get a detailed fundamental understanding on how nanocomposite membranes are formed and how they work. Aside from that he developed crosslinked PVDF as a novel material for membranes. His work demonstrates a comprehensive knowledge of the state-of-the-art and high level of creativity to propose innovation far beyond that.

Nominating him for the Award, Prof. Vankelecom stated: "Cédric has a research maturity level and scientific enthusiasm that I had so far never experienced in a junior postdoc. No doubt, Cédric is a top-researcher, probably the best PhD student I had over the 70+ that I supervised so far, with a creative mind and keen interest in a broad range of aspects of research."

Cédric Van Goethem obtained his Bachelor and Masters' degree and his PhD in Bio-Science Engineering from KU Leuven, Belgium. Following completion of his PhD, for one year he held the position of Postdoctoral Researcher at KU Leuven. In November 2019, he obtained a postdoctoral fellowship from Research Foundation Flanders (FWO). While associated to the Membrane Technology Group (MTG) of Prof. Ivo Vankelecom at KU Leuven, he established an independent research project on molecular separations using polymeric and composite membranes. In May 2020, he temporarily paused his FWO-fellowship and joined the Laboratory for Advanced Separations of Prof. Kumar Varoon Agrawal at EPFL, Switzerland as a postdoctoral researcher. The work spans from fundamental investigation into graphene crystallization and its relation to gas (molecular) sieving, to upscaling membrane synthesis by 4 orders of magnitude.

The award was presented to Dr. Van Goethem on 22 September 2021 at the Session *Membranes I* of ECCE13&ECAB6 held as a virtual conference on 20-23 September 2021.

The Excellence Award is generously supported by The European Membrane Society (EMS).

About the sponsor



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

EFCE Awards 2022 – Calls for nominations

Call for nominations EFCE Excellence Award in Recognition of an Outstanding PhD thesis on CAPE 2022

The European Federation of Chemical Engineering (EFCE) and its Working Party on Computer Aided Process Engineering (website: <https://www.wp-cape.eu/>) are pleased to announce the call for nominations for its prestigious **Excellence Award in Recognition of an Outstanding PhD Thesis on CAPE**. Launched in 2006, this biennial award has been instituted to recognise 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 to the winner at a plenary session during the ESCAPE-32 conference to be held in Toulouse, France on 12-15 June 2022 (conference website: <https://escape32.inp-toulouse.fr/en/index.html>). The award also comprises a travel grant of up to 500 EUR and

the ESCAPE registration cost. Furthermore, the successful candidate will be invited to make a plenary presentation at the ESCAPE conference and to prepare a paper for publication as a "guest paper" in *Computers & Chemical Engineering*.

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 2019.

The closing date for nominations is **31 December 2021**.

Further information about the nomination procedure, eligibility, supporting documentation, etc., can be obtained from the EFCE website at www.efce.info/ExcellenceAwardCAPE.html.

The following calls for nominations are still open:

EFCE Excellence Award in Process Safety

Closing date for nomination:

30 November 2021.

Further information: <https://www.efce.info/ExcellenceAwardProcessSafety.html>

2nd Lifetime Recognition LPS Award 2022

Closing date for nominations:

30 November 2021

Further information: <https://www.efce.info/LifetimeRecognitionLPSAward.html>

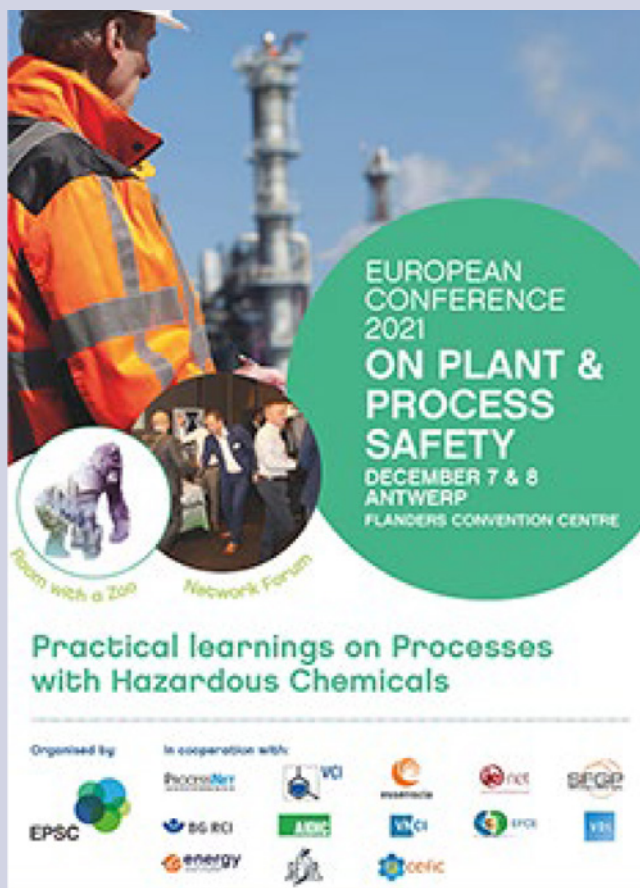
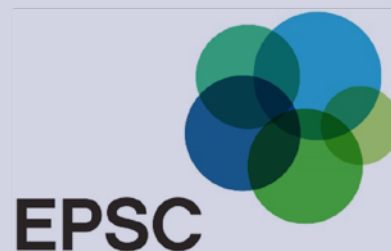
EFCE Excellence Award in Fluid Separations 2022

Closing date for nominations: **7 March 2022**

The Excellence Award is generously sponsored by Evonik.

Further information: <http://www.efce.info/ExcellenceAwardFluidSeparations.html>

News from the European Process Safety Centre



Learning Sheet

The [EPSC October Learning sheet](#) is about the hazards that can occur when a utility is connected to a process. The key aspects are mentioned as well as the link to the Process Safety Fundamental "[Avoid run-away reactions](#)".

All Learning Sheets are available in many [different languages](#).

Conference

EPSC [European Conference on Plant & Process Safety](#):

Technical safety specialists, managers and inspectors that deal with hazardous materials will profit from this event, that will take place face to face on 7 & 8 December 2021 in Antwerp, Belgium.

Registration is now open.

Working Party News in Brief



Change of Chairmanship

Professor Daniele Marchisio, Politecnico di Torino, Italy, is the new Chair of the Working Party on Crystallization. He succeeds Professor Marco Mazzotti, who held this position for ten years.

New WP PRE logo

The EFCE Working Party on Polymer Reaction Engineering (WP PRE) in a fresh new look:



EFCE Event Report

21st International Symposium on Industrial Crystallization (ISIC 21)

EFCE Event No. 751

The 21st International Symposium on Industrial Crystallization (ISIC 21) has been held from 30 August until 2 September as an online event. It was originally planned for September 2020 as a face-to-face meeting but had to be postponed for one year as a consequence of the worldwide Corona pandemic. In early February this year the organizers decided to conduct it as an online conference due to the ongoing pandemic situation.

It was a very successful meeting with more than 260 participants from 30 countries. 78 lectures were given (among them 6 plenary, 6 keynote and the EFCE Prize Award lecture) and 117 posters were presented. Many participants complemented on the outstanding quality of the contributions and the program on the whole, the convenience of the virtual platform used and the related excellent support of the DECHEMA colleagues provided throughout the entire meeting. Also, the active and inspiring discussions and the very good opportunities

to meet and interact with colleagues were highlighted.

The symposium started with an opening lecture of Juan Manuel García-Ruiz (University of Granada) fascinating the participants with his talk on "Wonderful crystal patterns in nature" referring to his research projects on the giant crystals of Naica (Mexico) and the hydrothermal system of Dallol (Ethiopia). Further highlights were the three tutorials organized and given by well-known international experts in their fields, both from academia and industry, framing the conference program. On the first days' evening two PhD students from Rouen and Magdeburg University performed an entertaining quiz game as an introductory social get-together.

The next event in the ISIC series, originally initiated by Jaroslav Nývlt (Ústí nad Labem) in 1960, the ISIC 22, will be organized by Jan Sefcik (University of Strathclyde) and Joop H. ter Horst (University of Rouen) in Glasgow in 2023.



Working Party on
Polymer Reaction Engineering

9th PhD-Student Workshop on Polymer Reaction Engineering

Online, 23-25 November 2021

The PhD Student Workshop, organised by WP PRE, represents an international platform where young researchers in the field of polymer reaction engineering can build up valuable networks. It is an opportunity to meet fellow PhD students and to get in contact with interesting companies and potential employers while presenting their latest research results.

For further information, please visit the WP website at: https://efce.info/WP_PRE.html

Direct registration link: https://www.chemie.tu-darmstadt.de/busch/forschung_akbusch/wppre/formular.de.jsp



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:

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>

New journals

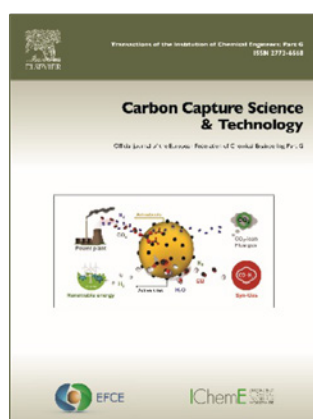
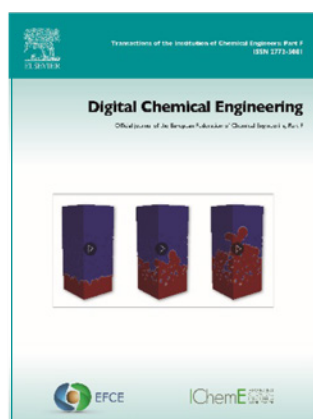
Two new gold open access journals have been launched. All content is freely accessible to all!

Digital Chemical Engineering

<https://www.sciencedirect.com/journal/digital-chemical-engineering>

Carbon Capture Science & Technology

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



Read journal papers for free

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

Chemical Engineering Research and Design

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

Freely available content:

- January 2021 issue (Volume 165)
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/vol/165/suppl/C>

Process Safety and Environmental Protection

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

Freely available content:

- January 2021 issue (Volume 145)
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/vol/145/suppl/C>

Food and Bioproducts Processing

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

Freely available content:

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

- January 2021 issue (Volume 125)
<https://www.sciencedirect.com/journal/food-and-bioproducts-processing/vol/125/suppl/C>

Education for Chemical Engineers

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

Freely available content:

- January 2021 issue (Volume 35)
<https://www.sciencedirect.com/journal/education-for-chemical-engineers/vol/34/suppl/C>
- Digitalisation in Chemical Engineering Education and Training <https://www.sciencedirect.com/journal/education-for-chemical-engineers/special-issue/10D130KPRKZ>

Sustainable Production and Consumption

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

Freely available content:

- January 2021 issue (Volume 25)
<https://www.sciencedirect.com/journal/sustainable-production-and-consumption/vol/25/suppl/C>
- Circular economy and sustainability: The role of technology, producers, consumers and policy
<https://www.sciencedirect.com/journal/sustainable-production-and-consumption/special-issue/10KMBLJ8KVL>

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 **31 December 2021**)

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

Special Issue: Development and Application of Membranes for Challenging Environments (Manuscript submission deadline **31 December 2021**)

Contact Managing Editor Catherine Cliffe for more details –
email: ccliffe@icheme.org

Process Safety and Environmental Protection

Special issue: Safety and Risk Analysis in Digitalized Process Operations (Manuscript submission deadline **31 October 2021**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-safety-and-risk-analysis-in-digitalized-proces>

Special issue: Recent Advances in Thermochemical Transformation of Biomass to Bio-oil, Biochar and Syngas and its Upgrading Methods (Manuscript submission deadline **15 December 2021**)

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

Special issue: Process Safety on Utilization of Emerging Energy (Manuscript submission deadline **31 December 2021**)

<https://www.journals.elsevier.com/process-safety-and-environmental-protection/call-for-papers/special-issue-process-safety-on-utilization-of-emerging-energy>

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>

Sustainable Production and Consumption

Special issue: Trends in Biodiversity for Bioeconomy (Manuscript submission deadline **30 December 2021**)

<https://www.journals.elsevier.com/sustainable-production-and-consumption/call-for-papers/special-issue-on-trends-in-biodiversity-for-bioeconomy>

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/sustainableproduction-and-consumption/call-for-papers/special-issue-on-circular-economy-as-a-driver-for-achieving-sustainable-production-and-consumption>

Digital Chemical Engineering

Special issue: Modeling, Control and Monitoring of Process Systems in the Era of Big Data (Manuscript submission deadline **31 October 2021**)

<https://www.journals.elsevier.com/digital-chemical-engineering/call-for-papers/special-issue-on-modeling-control-and-monitoring-of-process-systems-in-the-era-of-big-data>

Special issue: Machine Learning for Chemical Processes (Manuscript submission deadline **30 November 2021**)

<https://www.journals.elsevier.com/digital-chemical-engineering/call-for-papers/special-issue-on-machine-learning-for-chemical-processes>

Carbon Capture Science & Technology

Special issue: New Trends in Membrane Technology for Carbon Capture (Manuscript submission deadline **15 November 2021**)

<https://www.journals.elsevier.com/carbon-capture-science-and-technology/call-for-papers/special-issue-on-new-trends-in-membrane-technology-for-carbon-capture>

Special issue: Solid Sorbents for Carbon Capture (Manuscript submission deadline **30 November 2021**)

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

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>

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

Wroclaw, Poland,

**New date: 28 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 lecture: Dr. Poupak Mehrani, University of Ottawa, Canada. Extended deadline for full paper submission: 31 August 2021

The call for papers for manuscripts to be presented at the conference will open on 1 November 2021. Deadline: 1 March 2022.

The 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.

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

ACHEMA 2022

Frankfurt am Main, Germany,
4-8 April 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

Practically all global value chains profit in one way or another from the achievements

of chemistry, biotechnology and process engineering. 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>

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/>

ESCAPE-32 – 32nd European Symposium on Computer Aided Process Engineering

Toulouse, France, 12-15 June 2022
(EFCE Event No. 778)

ESCAPE-32 is organised by INP Toulouse in co-operation with the EFCE Working Party on Computer Aided Process Engineering.

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.

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

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

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/>

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

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 series is the main international forum for research, development, standards and applications related to this domain, and will bring together industry, academic researchers and students to share and discuss the latest developments in the field. The conference is supported by the Société Française de Génie des Procédés (SFGP) working closely with the EFCE Working Party on Fluid Separation (<http://efce.info/Fluid+Separations.html>).

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.

The call for papers is open. You can send your one page abstract (300 words) until **30 October 2021**.

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 starting now. The award is sponsored by the EFCE and Evonik company.

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

Save the date!

Energy, Environment & Digital Transition

**Milano, Italy, 16-19 October 2022
(EFCE Event No. 781)**

The event is organised by the Italian EFCE Member Society AIDIC.

Website: coming soon

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/>

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