



EFCE presents winners of the 2023 EFCE Student Mobility Award



Three outstanding young (bio)chemical engineers have been selected by an international jury to receive EFCE's prestigious **Student Mobility Award 2023**.

Presented biennially by the European Federation of Chemical Engineering (EFCE), these awards honour European chemical engineering students who have gained cross-cultural experiences by studying outside their home country for one semester or more.

The award was presented in Berlin, Germany, on 18 September 2023 during the Awards Session following the Opening of the 14th European Congress of Chemical Engineering & 7th European Congress of Applied Biotechnology - ECCE14 & ECAB7 (<https://ecce-ecab2023.eu>).

Pictured (L-R): Second prize winner, Ilaria Ceteroni; first prize winner, Alexandra Antunes; Dr. Hermann J. Feise, BASF SE (Chair of the EFCE Working Party on Education). Kévin Péridon, who won the third prize, was unable to attend.



Dear Readers,

Welcome you to Autumn 2023 issue of EFCE News! This issue contains information about EFCE awards, ECCE&ECAB, forthcoming EFCE events and journal news. If you have any comments/suggestions, please contact us.

With kind regards

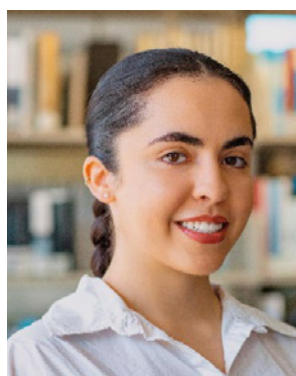
Giorgio Veronesi
EFCE President

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2023 EFCE Student Mobility Award Winners

Alexandra Antunes – 1st prize



This year's first prize of €2,000 was awarded to Alexandra Antunes who recently completed her Master's thesis at the King Abdullah University of Science and Technology (KAUST), Saudi Arabia, as part of her studies in chemical engineering with specialisation in biotechnology at the Faculty of Engineering

of the University of Porto, Portugal. During her studies she also successfully completed courses of study at the Hong Kong University of Science and Technology (HKUST), and an Entrepreneurial Skills course at Lund University in Sweden.

She said: "My journey has been filled with experiences that have shaped me into the person I am today."

In her essay Ms. Antunes stated about her stay at Lund University: "The highlight of this experience was winning the final in-person hackathon. My group developed a business idea to solve a global health issue. Our proposal was for a medical helmet that detects pain using brain signals, which could be used to help ease diagnostics and treatments. I got to hone my problem-solving skills and work collaboratively with other people from diverse backgrounds towards a common goal while enjoying amazing Swedish infrastructures and teaching methods."

About her stay in Hong Kong, she wrote: "For me, living in a country with such a different culture like Hong Kong was life changing. I wish to everyone to be able to experience different worlds in their lifetime. Immersing yourself in new cultures is for me the best thing you can do to shape the person you will be in the future."

Ilaria Ceteroni – 2nd prize



The second prize (€1,500) was awarded to Ilaria Ceteroni who currently is a PhD student in Sustainable Chemistry at the Polytechnic University of Valencia, Spain, working on "*Engineering catalyst interoperability in next-generation tandem reactions for intensified chemical processes*".

She completed her Bachelor and an international Master's degree in Chemical and Biochemical Engineering at the University of Bologna, Italy. During her Bachelor studies, she attended courses of Chemical and Industrial Engineering at the University of Extremadura in Badajoz, Spain. As part of her Master thesis project, she worked as a

research assistance at the Institute for Materials and Processes (IMP), University of Edinburgh, United Kingdom.

Commenting on her first stay abroad, she said: "This experience was personally and academically formative: I could face different perspectives and teaching methods in addition to learning and improving my Spanish knowledge."

In her essay she also stated: "Since the beginning of my academic career, I had the clear idea to want a varied international experience taking advantage of opportunities for moving among different European universities. The reason is that I think mobility is a great opportunity for personal and professional growth due to the need of facing different environments, ways of thinking and doing things, gaining a lot of flexibility and adaptability skills."

Kévin Péridon – 3rd prize



The third prize (€1,000) was awarded to Kévin Péridon, who obtained the Diploma “Ingénieur des Industries Chimiques” from the Ecole Nationale Supérieure des Industries Chimiques (ENSIC), University of Lorraine, Nancy, France, with specialisation in “Process, Energy, Environment”. During his studies he

completed courses at the Karlsruhe Institute for Technology (KIT), Karlsruhe, Germany. The jury emphasized his exemplary level of integration, e.g. through his involvement in the Franco-German friendship activities between the cities of Nancy and Karlsruhe and his work as an intern for the City of Karlsruhe.

Commenting on his experiences studying abroad, he said: “In contrast to France, the studies in Germany are far more theoretical and there is more interaction between students and professors. Likewise, I learned other notions and approaches in the fields that I had chosen. In fact, the references are not the same than my courses in France. I learned other solving methods and I find that it provided great additional information to my knowledge and my skills.”

He said: “With this experience in Karlsruhe, I not only improved my knowledge in Chemical Engineering and my German, but I also discovered a lot about the life in Germany in general, and learned not only about their culture, but also about my own – in short, all the differences and similarities that we share and make us unique as European neighbours.”



The 2023 Student Mobility Award is generously sponsored by BASF SE

About BASF SE

At BASF, we create chemistry for a sustainable future. BASF combines economic success with environmental protection and social responsibility. By 2030 we target a reduction of our greenhouse gas emissions by 25 percent compared with 2018 and net zero emissions globally by 2050. Around 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €78.6 billion in 2021. Further information at <https://www.basf.com>



ECCE AB23

17 - 21 September 2023, Berlin/Germany



14th European Congress of Chemical Engineering and 7th European Congress of Applied Biotechnology



ECCE14 & ECAB7 impressions

14th European Congress of Chemical Engineering and 7th European Congress of Applied Biotechnology

Berlin, Germany, 17-21 September 2023

Motto: Chemical and Biochemical Engineering – Acting Together

For a start, the youngest had something to celebrate: the winners of the DECHEMA student competition were awarded prizes and had the opportunity to have their certificates signed by a real Nobel Prize winner. In his ceremonial lecture on organocatalysis, Benjamin List showed what goals can be achieved with perseverance and scientific curiosity. One may believe him that he will also realise the self-imposed goal of splitting CO₂.

On Monday, the opening ceremony started with greetings from the hosts of the conference, EFCE and ESBES, given by their Presidents Giorgio Veronesi and Guilherme Ferreira, and the sponsor of the conference, BASF SE. This was followed by the presentation of the EFCE Lifetime Achievement Award to Alberto Brucato, the Jacques Villermaux Medal to David Bogle, the presentation of the Student Mobility Awards (see above) and a plenary lecture on chemical and bioengineering education by Jarka Glassey, the Executive Vice-President of EFCE and ESBES. Discussions then moved to the many lecture halls with parallel technical sessions. They covered the full range of topics in chemical engineering, process engineering and biotechnology.

The very large number of younger speakers was particularly remarkable. For young scientists in particular, this was one of the first opportunities to attend a major European conference after the

COVID pandemic. The fact that so many took advantage of it is not only good for the individuals, but also for the community as such. "Acting together", the motto of this conference, must not remain an empty phrase, but must be reflected in interdisciplinary and international cooperation. That this is not just lip service, but a necessity was also evident from the themes of the plenary lectures and keynotes: The topics ranged from the processing of plant proteins in food, which poses new challenges for both biochemists and process engineers, to the design and use of proteins for diagnostics, therapeutics and analytics, to the modelling of supply chains. And the plenary lecture on the Anthropocene and its impact on our lives showed that this is by no means about trivialities, but about the future of our planet and humanity on it.

This was rounded off on Thursday by the P. V. Danckwerts Memorial Lecture delivered by Jens Nielsen and the Villermaux Medal lecture presented by David Bogle. While Jens Nielsen talked about *Systems Biology of Yeast Metabolism* and presented progress on how kinetic and proteome constraints can improve the predictive strength of genome-scale metabolic models for use in metabolic engineering, David Bogle discussed *A Perspective on the Future of Chemical Engineering* reflecting on some current trends in Chemical Engineering and discussing some of the

research challenges ahead and how they relate to the practice.

The poster party on Monday evening was particularly lively, giving participants the opportunity to learn first-hand about the researchers' results; this was actively used. During the coffee and lunch breaks, the exhibition was not the only attraction, where various companies and organisations provided information about their offers and made contact with young scientists.

The joint EFCE/ESBES/CHISA2024 booth attracted interest, not only because of the valuable information about events and activities, but the visitors also enjoyed the sweets and the Czech beer of the colleagues from Prague, who promoted CHISA 2024. It was also the place where the first EFCE Travel Grant winner, Alper Koyuncu, was welcomed by representatives of EFCE's Early Career Chemical Engineers Section.

Entertainment was also provided by the ChemCar competition and, of course, the Science Slam, after which even the last one should have realised that chemistry has a lot to do with magic. The Science Slam was organised by BASF, which, as the main sponsor, contributed significantly to the success of the event - this industrial support is also an important element of international exchange, both ideally and concretely.

Less scientific, but even more exuberant was the "Oktoberfest" on Wednesday evening, with people of all generations storming the dance floor.



Jacques Villermaux Medal laureate David Bogle (left) and P. V. Danckwerts Memorial Lecturer Jens Nielsen

All in all, the 14th ECCE and 7th ECAB also showed what is important: making contacts, learning new things, developing ideas, and then working together on solutions - an impulse that will accompany all participants over the next few weeks.

The 15th ECCE and 8th ECAB will then take place in September 2025 in Lisbon, Portugal.

First Travel Grant awarded to early career engineer



In June, EFCE launched a new travel grant, designed to help early career chemical engineers attend EFCE conferences. Conferences are an important way for early career engineers to present their work and to develop important networks to further their careers. EFCE's new travel grant policy allows the Federation to award grants to help cover the travel costs for early career engineers who are either a member of the EFCE Early Career Section or an early carer member of an EFCE member society. Recipients will be expected to help spread awareness of the events they are attending through social media.

The winner of the Travel Grant of 600 EUR to support participation in ECCE14 & ECAB7 in Berlin is **Mr. Alper Koyuncu**, Master's student at the Middle East Technical University (METU), Turkey.

Pictured: Alper Koyuncu (left) receiving the Travel Grant certificate from EFCE's Executive Vice-President Jarka Glassey

EFCE Awards – Calls for Nominations

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

The European Federation of Chemical Engineering (EFCE) is 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 34th European Symposium on Computer-Aided Process Engineering - ESCAPE34 and 15th International Symposia on Process Systems Engineering – PSE24 (<https://www.aidic.it/escape34-pse24/>) to be held in Florence, Italy, on 2-6 June 2024. The award also comprises a travel grant of up to 500 EUR and the ESCAPE-PSE registration cost. Furthermore, the successful candidate will be invited to make a presentation at the ESCAPE-PSE 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 2021.

The closing date for nominations is **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

AVEVA is a British multinational information technology consulting company headquartered in Cambridge, England. AVEVA - the world's leading engineering software provider to the plant, power and marine industries for over 45 years. AVEVA is one of the world's most innovative companies for pioneering sustainable technologies. In this decade AVEVA has helped engineers factor greenhouse gas reduction into plant designs, optimize their solar energy production, operate remotely, and achieve net zero goals using AI and industrial data sharing. See <https://aveva.com>

2024 EFCE “Michael L. Michelsen” Award

The European Federation of Chemical Engineering (EFCE) and its Working Party on Thermodynamics and Transport Properties (WP TTP - https://efce.info/WP_TTP.html) are pleased to announce the call for nominations for its prestigious “**Michael L. Michelsen” Award** (previously called Distinguished Lecture in Thermodynamics and Transport Properties) to 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

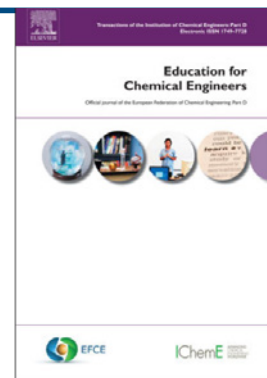
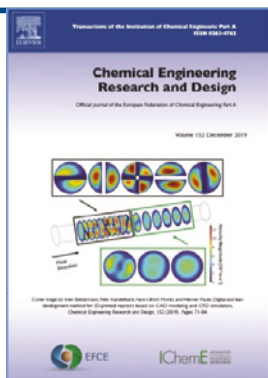
attend the 33rd European Symposium on Applied Thermodynamics - ESAT 2024 (<https://www.esat2024.eng.ed.ac.uk/>) in Edinburgh, United Kingdom, on 9-12 June 2024 where the award will be presented.

Furthermore, the laureate will be invited to deliver a keynote lecture at the ESAT Symposium.

The closing date for nomination 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.



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:

NEW Food and Bioproducts Processing is now on LinkedIn

Follow the journal at <https://www.linkedin.com/company/food-and-bioproducts-processing>

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Process Safety and Environmental Protection

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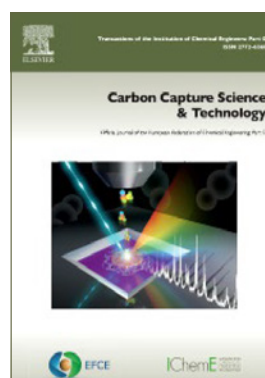
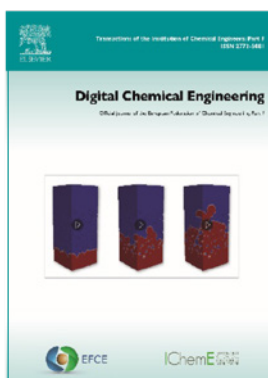
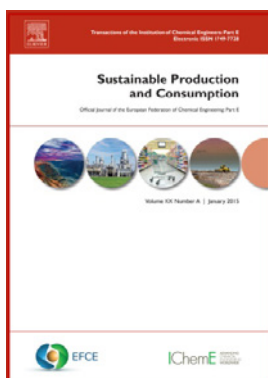
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Chemical Engineering Research and Design

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- January 2023 issue (Volume 189)
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/vol/189/suppl/C>
- Women in Chemical Engineering
<https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/100DXCW7KVH>
- 100 years of IChemE
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Process Safety and Environmental Protection

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

Freely available content:

- January 2023 issue (volume 169)
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/vol/169/suppl/C>
- **NEW** 17th EFCE International Symposium on Loss Prevention and Safety Promotion in Process Industries
<https://www.sciencedirect.com/journal/process-safety-and-environmental-protection/special-issue/101VZQSXMRK>
- **NEW** 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 2023 issue (Volume 137)
<https://www.sciencedirect.com/journal/food-and-bioproducts-processing/vol/137/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:

- January 2023 issue (Volume 42)
<https://www.sciencedirect.com/journal/education-for-chemical-engineers/vol/42/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

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- Machine Learning for Chemical Processes
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- 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>

Special Issue: Challenges and Opportunities in Advanced Processes based on Distillation for Sustainable Processes (Manuscript submission deadline **31 October 2023**)

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 - Advances in Thermal Energy Systems (TES) Development and their Applications (Manuscript submission deadline **15 June 2024**)

Food and Bioproducts Processing

<https://www.sciencedirect.com/journal/food-and-bioproducts-processing/about/call-for-papers>

Special Issue: Sustainable Biorefining and Biofractionation Technologies (Manuscript submission deadline **20 January 2024**)

Sustainable Production and Consumption

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

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

NEW 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**)

Carbon Capture Science & Technology

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

Special issue: 2023 IChemE & CCST Distinguished Investigator Award (Application deadline **31 October 2023**)

EFCE Events in 2023/24

Organised by or on behalf of EFCE

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

2nd International Conference on ENERGY, ENVIRONMENT & DIGITAL TRANSITION – E2DT Palermo, Italy, 22-25 October 2023 (EFCE Event No. 797)

The second Energy, Environment and Digital Transition - E2DT congress organized by AIDIC on these subjects, aims at bringing together researchers, engineers, executives, entrepreneurs, institutional representatives, and to present the results of the latest research and experiences in the energy and environment sectors and the positive and negative implications they have on our society, in order to have a picture as complete and balanced as possible, without preconceived visions.

Programme: The detailed programme is available on the conference website at: <https://www.aidic.it/e2dt2023/>

Posters will be available for the entire conference period.

Plenary Speakers: Francesca Scargiali, University of Palermo, Italy; Karen Scrivener, Ecole Polytechnique Federale de Lausanne, Switzerland; Elodie Le Cadre Loret, ENGIE Research & Innovation; Marc-Olivier Coppens, University College London, UK

Website: <https://www.aidic.it/e2dt2023/>

EFCE Forum Palermo, Italy, 25 October 2023

On 25 October 2023, a parallel event to E₂DT in Palermo, Italy, organised by the EFCE will be held in plenary session. The format of the EFCE Forum includes a lecture by a researcher selected by the Early Career Chemical Engineers Section of EFCE, **Maximilian Kohns**, Junior Professor at the University of Kaiserslautern, who will speak about "Electrolyte Thermodynamics for Analysis and Optimization of Energy Storage Systems and Sustainable Processes", followed by a round table on the evolution of the role of the chemical engineer in our society, which will also be attended by the sponsor companies of E2DT, such as ENI, Masol, Maire and Orim, bringing their vision on the engineer of the future.

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.

Registration: Registration will open on 30 October 2023.

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 ACHEMA 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 ACHEMA 2024 as an exhibitor and/or lecturer.

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

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 October 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; Innovativemethodsforparticulatecharacterization; 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: 15 October 2023

Website: <https://www.aidic.it/nose2024>

International Conference on Safety & Environment in Process & Power Industry - CISAP11

Naples, Italy, 15-19 September 2024 (EFCE Event No. 803)

The main aim of CISAP 11 is to provide an extensive international panorama of the latest contributions concerning Process and Environmental Safety. The technical programme is structured into parallel sessions, which will be held over three days. The

Conference topics will be discussed across invited plenary lectures, selected lecture presentations and poster sessions. Posters will stay on display for the entire duration of the Conference, promoting the Authors' work and spontaneous discussion.

Topics: Risk governance and safety management; Multi-risk assessment and resilience of complex systems; Human factors and safety culture; Safety 4.0 and digitalization; Chemical and process hazards; Fires, explosions and toxic releases; Safety of hydrogen and decarbonization technologies; Safety and security of energy and transportation systems; Atypical scenarios and help events; Physical and cyber-security of industrial processes; Environmental safety and climate-related risks

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

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

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

Website: <https://www.aidic.it/cisap11/>

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