

EFCE-ESBES Agreement Signed

The Presidents of the European Federation of Chemical Engineering (EFCE), Hermann Feise (left), and the European Society of Biochemical Engineering Sciences (ESBES), Guilherme Ferreira (right), recently signed a mutual Agreement on the working arrangements for the organisation of the joint biennial conference in Europe under the titles European Congress on Chemical Engineering (ECCE) and European Congress of Applied Biotechnology (ECAB). This agreement acknowledges the successful cooperation starting in 2011 with the organisation of the first joint congress ECCE8/ECAB1 in Berlin.

The EFCE and ESBES will co-operate and use their best endeavours to ensure that the joint conferences provide a high-quality and representative international forum for experts from



academia and industry.

The agreement was signed at a joint meeting of the EFCE and ESBES Officers and Secretariat representatives in Frankfurt, Germany, on 29 November 2018.

Scientific Vice-President's Report

I would like to report on three recent activities. The chairs of the Working Parties and Sections met in Prague in the summer to discuss our activities. We reviewed the committee membership statistics to look at industry (16%) and international participation (5%). We seek to be an open community helping to keep Chemical Engineering European research and innovation vigorous. I have also been looking at the skills pipeline for Chemical Engineering in Europe and have figures for France, Greece and the U.K. so far. Once we have a larger set of figures I will report them as I believe they will help us all ensure that our countries invest appropriately in Chemical Engineering skills. We have also been seeking to raise the profile of EFCE in technical policy fora. EFCE is a member of the A-SPIRE partnership which brings together the major process industrial companies (through CEFIC and other industry organisations), research institutes, and the European Commission. I have attended workshops and met with officers in Brussels to explore ways that we can help guide the roadmap for the process industries that they are developing using members of the EFCE community. Finally we plan a meeting on 1st March 2019 in Frankfurt about Digitization of the Process Industries – across R&D, Design, Operation and broader impact – and how the EFCE community might work together towards tackling the challenges.

Prof David Bogle, EFCE Scientific Vice President

Welcome to the final 2018 issue of the EFCE News. If you have any comments on the newsletter please get in touch.

With kind regards and best wishes for the festive season

Hermann Feise
EFCE President

In this issue:

- EFCE-ESBES Agreement Signed
- Scientific Vice-President's Report
- Calls for Nominations
 - Excellence Award in Thermodynamics and Transport Properties
 - Excellence Award in Process Intensification
 - Process Intensification Award for Industrial Innovation
 - Excellence Award in Drying and Freeze-drying
- Working Party News
 - WCPT Baton passed on to Álvaro Ramírez-Gómez
 - 13th European PhD Workshop on Food Engineering and Technology
- EFCE Events 2019-2021

EFCE Calls for Nominations

2019 EFCE Excellence Award in Thermodynamics and Transport Properties

The European Federation of Chemical Engineering (EFCE) is pleased to announce the call for nominations for the **2019 EFCE Excellence Award in Thermodynamics and Transport Properties**. The Award recognises a PhD thesis and associated papers published in the preceding two-year period, which demonstrate an outstanding contribution to research and/or practice in thermodynamics and/or transport properties.

The award consists of a certificate, a cash prize of EUR 1,500, a travel grant (not exceeding EUR 500) and fee waiver to attend the 26th Thermodynamics Conference of the Royal Society of Chemistry. The Symposium will be held in Huelva, Spain, from 26-28 June 2019, where the award will be presented.

Nominations may be submitted by any PhD supervisor at a PhD-awarding institution in an EFCE Member Country or by a member of a national or regional member association of EFCE.

The nominated PhD thesis and publication(s) must address a topic relevant to the field of thermodynamics and/or transport properties. The thesis must have been completed and published and the PhD degree examined and awarded between 1 January 2017 and 31 December 2018.

Further information about the nomination procedure, selection of candidates, eligibility, and supporting documentation, can be obtained from the Working Party on Thermodynamics and Transport Properties' website at: <https://wp-ttp.dk/> or from:

www.efce.info/ExcellenceAwardTTP.html

Closing date for nominations: **14 January 2019**.

2019 EFCE Excellence Award in Process Intensification

The European Federation of Chemical Engineering (EFCE) is pleased to announce the call for nominations for its prestigious **EFCE Excellence Award in Process Intensification**.

This biennial award recognises an outstanding PhD thesis in the field of process intensification. The award consists of a cash prize of EUR 1,500 and a certificate and a travel grant of up to EUR 500. The **WINNER** will be invited to give a presentation at a special session during the 2nd

International Process Intensification Conference - IPIC2, which will be held in Leuven, Belgium, on 27-29 May 2019.

Any PhD thesis in the area of process intensification supervised at a university or PhD-awarding institution of an EFCE Member Country is eligible for nomination.

The nominator is the supervisor of the PhD candidate. The candidate's thesis must have been defended between 1 January 2017 and 31 December 2018.

Previous award winners include Dr.-Ing. Carsten Buchaly (2009), Dr.Ir. Patrick W.A.M. Wenmakers (2011), Dr. Ernesto Altman Restrepo (2013), Dr. Danilo Alberto Cantero Sposetti (2015), and Dr. Michael Shoham Patrascu (2017).

The deadline for submission of nominations is **1 February 2019**.

Further information about the nomination procedure, eligibility, and supporting documentation can be obtained at: www.efce.info/ExcellenceAwardProcessIntensification.html

The Award 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

specialist 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.

EFCE Industrial Innovations in Process Intensification 2019

The European Federation of Chemical Engineering (EFCE) is pleased to announce the **2019 EFCE Process Intensification Award for Industrial Innovation** to be awarded for an outstanding industrial application in the field of process intensification.

The award comprises of a dedicated plaque and certificate, and the successful candidate or team will be invited to make a presentation at a special session of the 2nd International Process Intensification Conference – IPIC2 (website: <https://kuleuvencongres.be/ipic2019/>) which will be held in Leuven, Belgium, on 27-29 May 2019.

Any employee or a team of employees of a company with operations in an EFCE Member Country is eligible for nomination.

The nominated industrial innovation must be either stage of pilot-scale or full-scale industrial operation and it must have been developed between 1 January 2017 and 31 December 2018.

The deadline for submission of nominations is **1 February 2019**.

For further information about the nomination procedure, eligibility, and supporting documentation, visit: www.efce.info/PI_Award_Industrial_Innovation.html

The Award is generously sponsored by Technip Benelux B.V.



About the sponsor

TechnipFMC is a global leader in subsea, onshore/offshore, and surface projects. With our proprietary technologies and production systems, integrated expertise, and comprehensive solutions, we are transforming our clients' project economics. To learn more about how we are enhancing the performance of the world's energy industry, go to www.TechnipFMC.com

TechnipFMC Process Technology is a global network of centers which look after company's expanding portfolio of onshore process technologies in petrochemicals, refining, hydrogen and syngas polymers and gas monetization.

2019 EFCE Excellence Award in Drying and Freeze-Drying

For the first time, the European Federation of Chemical Engineering (EFCE) is pleased to announce the call for nominations for the **EFCE Excellence Award in Drying and Freeze-drying**. The Award recognises a PhD thesis in the preceding three-year period, which demonstrate an outstanding contribution to research and/or practice in the field. The award consists of a certificate, a cash prize of EUR

1,500, a travel grant (not exceeding EUR 500) and fee waiver to attend the 7th European Drying Symposium which will be held in Torino, Italy on 10-12 July 2019.

Nominations may be submitted by any PhD supervisor at a PhD-awarding institution in an EFCE Member Country or by a member of a national or regional member association of EFCE.

The nominated PhD thesis must address a topic relevant to the field. The thesis must have been completed and published and the PhD degree examined and awarded between 1 January 2016 and 31 December 2018.

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

Closing date for nominations: **31 March 2019**.

The Award will be generously sponsored by Crioforma s.a.s.



The following calls for nominations / applications are still open:

- **Excellence Award in Process Safety**
Deadline for submission of nominations: **extended to 31 December 2018**
Sponsored by Aspen Oss B.V.
Website: www.efce.info/ExcellenceAwardProcessSafety.html
- **Excellence Award in Product Design and Engineering 2019**
Deadline for submission of nominations: **1 March 2019**
Sponsored by Beiersdorf AG
Website: www.efce.info/ExcellenceAwardProductDesign.html
- **Student Mobility Award 2019**
Deadline for submission of applications: **1 March 2019**
Sponsored by BASF SE
Website: www.efce.info/Student_Mobility_Award.html

Working Party and Section News

WCPT baton passed on to Álvaro Ramírez-Gómez

Every four years members of the global particle technology community converge to share their latest insights and applications to industrial, academic, and civil problems, and also to decide which will be the next venue for the celebration of the next edition of the World Congress on Particle Technology (WCPT), the world's major scientific congress for particle and bulk solids technology, an international forum for research, technological development and innovation in new technologies. In the World Assembly for Particle Technology held in Orlando, Florida, United States of America, the 23rd April 2018, a proposal to host the next World Congress on Particle Technology (WCPT9) was presented by Prof. Carlos Manuel Negro Álvarez and Prof. Álvaro Ramírez-Gómez on behalf of the Spanish Association of Chemists and Chemical Engineers (ANQUE). A decision was reached to celebrate the next WCPT9 in Madrid, Spain, in September 2022. For WCPT9, Prof. Carlos Manuel Negro Álvarez (Congress Chair), from the Complutense University of Madrid, Prof. Álvaro Ramírez-Gómez (Scientific Chair), from the Technical University of Madrid and Dr. Hermann Feise (International Advisory Committee Chair) from BASF, together with 8 EFCE-WPs (WP Agglomeration, WP Comminution and Classification, WP Characterization of Particulate Systems, WP Crystallization, WP Drying, WP Mechanics on Particulate Solids, WP Mixing and WP Multiphase Fluid Flow) will define the strategy that will aim



Passing on the baton in Orlando, Florida, during the closing ceremony of WCPT8. Prof. Álvaro Ramírez-Gómez (WCPT9-Scientific Chair) taking over from Dr. Ray Cocco (WCPT8-Congress Chair)

to promote the inclusiveness of the industry and the academia as in previous WCPT editions. The main aim will be to engage the whole community on particle technology in the different continents and their countries through an outreach and promotion program specifically designed for this purpose. Support is received from EFCE, DECHEMA, FEIQUÉ, and QS (Foro de Química y Sociedad).

13th European phd Workshop on Food Engineering and Technology

The 13th European PhD Workshop on Food Engineering and Technology will be held in Vienna, Austria, on May 14-15, 2019. The workshop is organized by the EFCE Section on Food in cooperation with the University of Natural Resources and Life Sciences (BOKU) Vienna.

Co-chairmen: Dr. Volker Heinz (DIL) and Prof. Dr. Henry Jäger (BOKU)

The **EFCE Food Engineering Award** will be granted to the three best presentations recognizing outstanding contributions in the area of food product and process engineering.

Nominations of excellent PhD candidates are sought.

Documents of the candidates should be submitted by the supervisor to the scientific committee by email to EFCE-FOOD2019@boku.ac.at until **February 1, 2019**.

The event is supported by the Austrian Academy of Science (ÖAW) as well as by an Industry Board consisting of Nestlé, Bühler, Hipp, GNT and Elea.

For the detailed announcement and call for nominations, please visit the Section website at: www.efce.info/SectionFood.html

Events organised by or on behalf of EFCE in 2019/21

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

17th European Meeting on Supercritical Fluids and 7th European Meeting on High Pressure Technology

High Pressure Process Technology Ciudad Real, Spain, 8-11 April 2019 (EFCE Event No. 759)

2nd International Process Intensification Conference – IPIC2 Leuven, Belgium, 27-29 May 2019 (EFCE Event No. 760)

Process intensification is transforming chemical engineering processes and plants. New targets replace traditional guidelines in process design: substantial improvement of the equipment size/production ratio and severe reduction of energy consumption and waste generation. By using new technologies, process intensification proves to be successful to produce more compact, safer, sustainable and energy-efficient equipment and processes.

The Second International Process Intensification Conference (IPIC2) will take place as a stand-alone conference, unlike IPIC1 which was held in conjunction with the 10th World Congress of Chemical Engineering (Barcelona 2017). IPIC2 will be an excellent opportunity to learn about recent implementations in industry, the latest advances in research, and the current offer from technology providers. Furthermore, discussions on the state of the art and future perspective of process intensification will keep you updated on future trends. We specifically reach out to our colleagues in other continents to build a global PI community.

Themes: Batch to Continuous; Energy Activation for Processes and Materials; Multifunctional Reactors and Hybrid Separators; Modular Processes; Microreactors; 3D Printing and Process Intensification; Novel Process and Equipment Concepts; Modelling and Control of Intensified Processes; Scale up and Industrial Implementation.

The call for papers is open. Deadline for abstract submission **15 January 2019**

A number of presenters in IPIC2 will be

invited to publish their results in a Special Issue of the Chemical Engineering and Processing: Process Intensification (CEP:PI – Elsevier) Journal or a Special Issue of the Journal of Advanced Manufacturing and Processing (JAMP – Wiley).

Website: <https://kuleuvencongres.be/ipic2019>

23rd Polish Conference of Chemical & Process Engineering Jachranka-Warszawa, Poland, 2-5 June 2019 (EFCE Event No. 753)

Theme: Scientific and industrial progress for sustainable processes and products

The long tradition of the Polish Conference of Chemical and Process Engineering - PCC&PE conferences dates back to 1957 when the first meeting was held in Osieczna. The current 23rd edition of this conference, organised by the Faculty of Chemical and Process Engineering of the Warsaw University of Technology under auspices of the Committee of Chemical & Process Engineering of the Polish Academy of Sciences, will be held in Jachranka, the small resort located close to Warsaw on the shore of the artificial lake – Zalew Zegrzyński.

The Conference topics will cover both the latest methodological developments as well as the many emerging applications to crucial technologies for energy conversion, environmental protection and sustainable chemicals production.

Topics: Advances in Chemical Engineering Fundamentals; Chemical reaction engineering – Novel Experimental Approach, Modelling and Optimization; Product Design and Novel materials application; Bioengineering and Biotechnology; Environmental & Sustainable Chemical Engineering; Chemical Industry 4.0.

The call for papers is open. Deadline for abstract submission **30 November 2018**

Website: <http://ichip2019.pl>

Loss Prevention 2019 – 16th International Symposium on Loss Prevention and Safety Promotion in the Process Industries and accompanying exhibition

Delft, The Netherlands, 16-19 June 2019 (EFCE Event No. 750)

Loss Prevention 2019 is organised by the EFCE Working Party on Loss Prevention, has returned to the Delft University of Technology in the Netherlands.

Topics: Risk assessment and safety management; Human and organisational factors of risk and safety; Process safety engineering and technological innovations; Fires, explosions, and toxic releases; Simulation and modelling for safer processes; Physical security and cyber security in process plants; Learning from accidents and process safety education; Communication of risk and process safety information; Leadership, risk governance, and regulatory issues.

To foster new ideas, the fourth EFCE Excellence Award in Process Safety for outstanding PhD research work will be presented at this conference.

Silver Sponsors: OCI Nitrogen, DSM, LDE Centre for Safety and Security

Register now! Deadline for early registration: 1 April 2019

Website: www.lossprevention2019.org

29th European Symposium on Computer Aided Process Engineering – ESCAPE29

Eindhoven, The Netherlands, 16-19 June 2019 (EFCE Event No. 758)

ESCAPE-29 is organised under the auspices of European Federation of Chemical Engineering, Nederland Procestechologie (NPT), and Process Systems Engineering NL (PSE-NL).

ESCAPE-29 aims to bring together researchers and practitioners of computer-aided process engineering (CAPE) community, and provide a forum to present and evaluate emerging research methods and concepts, and to learn from industrial case studies. The boundaries of CAPE have expanded and the research interests cover a wide range of interdisciplinary problems related to the current needs of the modern society and industry.

The CAPE/PSE community is faced with an increasingly important incentive and commitment to contribute actively to the solving of many of

the world's problems such as environmental and societal issues, population growth, and limited resources. Hence the main feature of this event would be its orientation towards sustainable development, covering a large range of scales from molecule to enterprise. In view of this commitment, and due to the actuality of the proposed orientation, it is anticipated that this conference would attract a significant number of people from academia, research institutions, and industrial organizations. Presentations given by a number of distinguished European and other world-renowned plenary and keynote speakers would offer a cutting-edge to the symposium.

Themes: Process-product synthesis, design and integration; Methods, models and computational tools for PSE; Process control and operations; CAPE/PSE in sustainable development and food industry; CAPE/PSE in energy transition; CAPE/PSE in hi-tech micro/nano-devices and processes; Education in CAPE/PSE & knowledge transfer.

Sponsors: Shell, BASF, Corbion.

Register now! Deadline for early registration: 4 March 2019

Website: <http://escape29.nl/>

3rd ANQUE-ICCE International Congress of Chemical Engineering Santander, Spain, 19-21 June 2019 (EFCE Event No. 757)

Theme: Building Bridges in Chemical Engineering

ANQUE-ICCE 3 will be organised by ANQUE, the Spanish National Association of Chemists and Chemical Engineers, in collaboration with AQUIQÁN, the Association of Chemistry and Chemical Engineering of Cantabria. This international congress aims to be a reference in the field of chemical engineering and chemistry applied to the industry. All key areas for chemical engineers will be included in the program, providing ample opportunities to exchange up-to-date information and extend professional and personal networks.

The congress motto is also an invitation to establish and strengthen connections among Iberoamerican colleagues, incorporating the specific event "1er Congreso Iberoamericano de Ingeniería Química". We are also very pleased to present the "ICCE Student Conference", which is scheduled for 17-18 June 2019 as a unique opportunity to join together chemical engineering students, with a variety of activities and competitions that will be useful for their training.

General ICCE3 Topics: Knowledge, Education & Training; Unit Operations & Separation Processes; Chemical Reaction Engineering; Process Systems Engineering; Product Engineering & Advanced Materials; Applied Biotechnology; Environmental & Sustainable Chemical Engineering.

Symposia: Lignocellulosic wastes valorization; Bioeconomy: renewable resources for energy and chemicals production; Sustainable Development Goals: a challenge for Chemical Engineering.

Workshops: Mitigation of the environmental impact of fluorinated gases; Renewable Hydrogen Energy World.

Abstract submission will open soon.

Website: <https://anque-icce2019.com/>

7th European Drying Conference – EuroDrying’2019 **Torino, Italy, 10-12 July 2019 (EFCE Event No. 762)**

Motto: Drying for better life: food, pharmacy and art

The Politecnico di Torino is proud to host the 7th edition of the European Drying Conference. The Conference series is supported by the Working Party on Drying (WPD), within the framework of the EFCE. The Conference deals with cutting-edge research in drying field, enabling researchers and technicians to exchange ideas and innovation on drying methods, modeling and applications.

Main topics: Fundamentals of drying; Modelling and simulation; Physical properties; Chemical, ceramic, textile and polymer materials; Food and agricultural materials; Pharmaceutical and biomaterials; Measurements and process control; Industrial processes and equipment; Innovative technologies; Energy and environmental implications; Cultural heritage and art

According to the intention of the WPD our aims were to keep the registration fee as low as possible and offering a discounted fee to PhD students.

Participants from Industry can also select the “Special industrial section” option.

The Conference proceedings will be published as ISBN book; in addition it is planned to publish the selected papers in Drying Technology Journal.

The abstract submission is open.

Deadline: 21 December 2018

Website: <https://www.eurodrying2019.com/>

16th European Congress on Comminution and Classification - ESCC 2019 **Leeds, United Kingdom, 2-4 September 2019 (EFCE Event No. 761)**

The next European Symposium on Comminution & Classification (ESCC) will take place at the University of Leeds, UK, and is organised on behalf of the EFCE Working Party on Comminution and Classification. ESCC has a long international history, and the last three conferences were held at Braunschweig, Gothenburg, and Izmir.

The conference structure is in line with the format of the previous events and will cover themes on foods, pharmaceuticals, mineral processing, fine and ultrafine grinding in the chemical and allied industries, fundamentals of breakage and comminution models as well as new applications. We will have plenary and keynote lectures from leading comminution and classification experts from all over the world, poster sessions and exhibitions by instrument manufacturers. ESCC is a focussed forum in which you have the opportunity to discuss current trends in this area and learn from other industries and can transfer knowledge to your own applications.

You are cordially invited to come to Leeds in 2019 to be part of the ESCC, which will bring together experts of comminution and classification technology from industry and academia worldwide.

The abstract submission is open.

Deadline: 1 February 2019

Website: <http://www.escc2019.com>

ECCE12/ECAB5 – 12th European Congress of Chemical Engineering & 5th European Congress on Applied Biotechnology **Florence, Italy, 15-19 September 2019 (EFCE Event No. 744) – see above**

Theme: Bridging Science with Technology: a Renaissance in Science

AIDIC is pleased to invite you to participate to next year events, ECCE12 and ECAB5, to be held in Florence, Italy, from 15 to 19 of September 2019, organized by AIDIC under the auspices of EFCE and ESBES.

The Congresses will take place at the Firenze Fiera Congress and Exhibition Center. Florence. The emphasis of these joint congresses will be on stimulating discussions on bridging the gap

between Science and Technology in relevant areas of application: current status, emerging problems and future vistas.

The Scientific Program will bring innovative solutions to respond to major challenges of our society. Plenary, Keynote, Invited and Contributed lectures will bring you up to date in all topics of modern Chemical and Biochemical Engineering to address Solutions to Global Challenges. The Organizers would be very pleased to receive your personal scientific contribution and would appreciate your help in disseminating ECCE12/ECAB5 call for abstracts. The abstract submission is open. Deadline: 15 January 2019.

Exhibition & Sponsorship Opportunities:

AIDIC invites companies to participate as a Sponsor and/or exhibitor ECCE12/ECAB5. The European Congress in 2019 will see Italy as the host country, presenting an opportunity for the European and Italian industry to showcase the very best of its innovation and enterprises. The Congress will provide a unique opportunity for your company to present its role in the industry and for your staff to meet with researchers and specialists in diverse areas of chemical engineering and biotechnology and to improve your views on innovative processes that will be vital for the industry of tomorrow.

Further information and the Sponsorship Registration Form, please visit the Congress website.

The Registration Forms contains a brief but complete description of the diverse sponsorship and exhibition opportunities we offer that meet any requirement and budget, with platinum, gold, silver, bronze and exhibitor packages. Specific request can be addressed to the dedicated e-mail address: sponsorship@aidic.it.

Website: www.ecce12-ecab5.org/

**21st International Symposium on Industrial Crystallization-ISIC 21
Potsdam, Germany, 8-11 September
2020 (EFCE Event No. 751)**

Crystallization occurs in many natural physical, biological, and chemical systems, and is exploited in numerous applications, ranging from novel environmental and purification technologies to the production of bulk and fine chemicals, as agrochemicals, pharmaceuticals, food ingredients and pigments. Active research is done on a broad range of subjects from fundamentals to industrial applications resulting in new findings, innovative processes and products. The ISIC meetings, taking place every

three years, aim to provide a broad overview of the current science and technology of crystallization and, to bring together scientists and engineers of various disciplines, both academic and industrial, from all over the world to meet and exchange ideas. The symposium, initiated by Jaroslav Nývlt in 1960, is organized under the auspices of the EFCE's Working Party on Crystallization since 1978 and, has become the premier international conference in the field of industrial crystallization.

Key Topics: Fundamentals of crystallization; Crystallization and precipitation in fine chemical, specialty & life-science industries; Developments in large scale industrial crystallization; Contributions of crystallization to sustainability; Integrated process design: Crystallization in the industrial process chain.

The call for papers will open in September 2019.

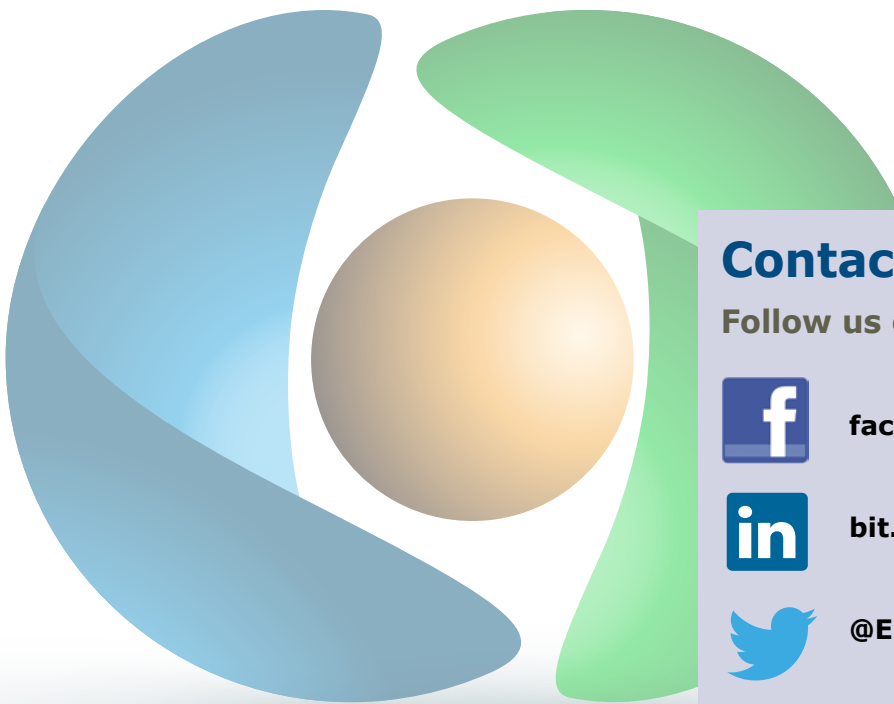
Website: www.dechema.de/ISIC_21

**ECCE13/ECAB6 - 13th European Congress of Chemical Engineering & 6th European Congress on Applied Biotechnology
Berlin, Germany, 19-23 September
2021 (EFCE Event)**

Save the date!



Best wishes for the festive season and a peaceful, prosperous and fulfilling New Year!



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