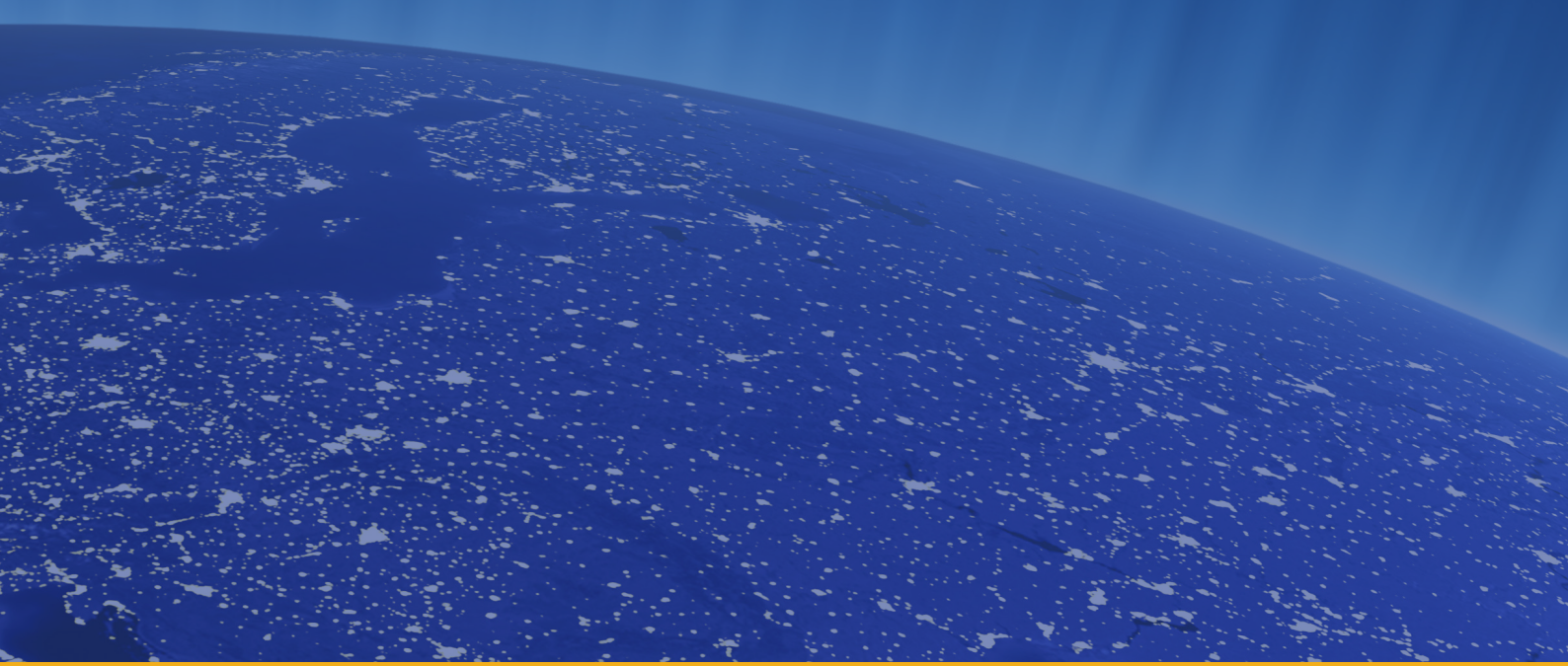


# Trustees Annual Report 2021

European Federation of Chemical Engineering

Europäische Föderation für Chemie-Ingenieur-Wesen

Fédération Européenne de Génie Chimique



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# The European Federation of Chemical Engineering will...

# 1

## **Serve the European Chemical Engineering Community**

By providing a platform for views and opinions and identifying opportunities for its voice to be heard

# 2

## **Support Chemical Engineers within EFCE Member Societies**

- Working Parties and Sections
- Conferences and Seminars
- Newsletters, Website and e-bulletins

# 3

## **Support the Education and Training of Chemical Engineers within Europe**

- Active Education Working Party
- EFCE Journals
- Input into Development of Curricula
- Training

# 4

## **Influence Decision Makers and Opinion Formers on Matters of Importance to Chemical Engineers**

- By Helping to Shape European Policy
- Promoting Public Understanding of Science
- Contributing to European R&D Programmes
- Fostering Academic/Industry Links

# 5

## **Initiate Collaborations in Support of Common Goals and for the Advancement of Science and Technology**

- Proactive Horizon Scanning and Topic Spotting
- Bringing People Together via Respected European Technical Networks

**EFCE will help European society to meet its needs through highlighting the role of Chemical Engineering in delivering sustainable processes and products.**

# Trustees 2021

## **EFCE President**

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# Public Benefit Statement

The charity trustees confirm that they have complied with their duty to have due regard to the guidance on public benefit published by the commission in exercising their powers or duties.

## Objectives and activities

The objectives of the European Federation of Chemical Engineering, as stated in its Constitution, are “for the benefit of the public to promote co-operation in Europe and elsewhere between non-profit making professional scientific and technical societies which share amongst their aims the general advancement of science and education of the public in chemical engineering and the encouragement of the development of chemical engineering.”

By enabling like-minded societies in Europe to co-operate, EFCE encourages progress in chemical engineering by facilitating the exchange of information and opinion in meetings, congresses and journals, support leading researchers and emerging talent through medals and prizes, and enabling industrialists and academics from across Europe to discuss topics of common concern.

EFCE is a Charitable Incorporated Organisation with voting members other than its charity trustees. It has an ‘Association’ model constitution, dated 9 December 2014.

# Key achievements during 2021

In 2021, scientific cooperation and professional exchange was still affected by COVID-19 related restrictions in many European countries. The digital tools already used to cope with the pandemic in 2020 became even more important in 2021. The main scientific event in Europe for chemical engineering, the joint European Congress of Chemical Engineering/European Congress of Applied Biotechnology (ECCE13 & ECAB6), had to be held fully online, since hygiene requirements and high levels of uncertainty made an in-person event impossible. It is credit to the dedication of the organisers and scientific volunteers that the event was successfully moved from in-person to virtual in a matter of weeks, allowing EFCE and ESBES to deliver a successful online conference under the headline of 'Engineering the Future'. The spectrum of topics ranged from raw materials and their availability – including CO<sub>2</sub> – to the handling of energy and water resources and deep into the details of process engineering. ECCE & ECAB 2021 was also host to the first ever EFCE Science Slam, which was won by Sofia Garcia Fracaro presenting 'Immersive technologies applied for training of operators in the chemical industry'.

While the successful EFCE Spotlight Talk series went into its second year, the first-ever EFCE Early Career Engineers Forum took place in April 2021. Presenters from seven European countries discussed early career-relevant topics, ranging from national activities like AIDIC's early careers working group *Giovani* or the ChemCar competition, via special education offerings like summer schools and student competitions, to European young professional networks and round table events discussing recent graduates' thoughts about chemical engineering curricula. Special interest workshops on career opportunities in academy, industry and design and on sustainability completed the programme, which was followed by almost a hundred participants.

A major EFCE research project, the EFCE European Skills Base Survey, was completed in 2021. Reliable statistical data for a subject as distinct as chemical engineering is difficult to extract from the government or consulting databases; e.g. for Germany, EFCE together with the national organisations ProcessNet and Dechema had to run its own survey of 73 universities offering chemical and bio-chemical engineering or similar (e.g. environmental engineering, brewing technology) courses. Analysis supplied by the eighteen countries featured in the study showed widely differing approaches to teaching chemical engineering and similar subjects as well as some clear cases of neglect. Student/staff ratios reflected two traditions: one with a ratio of around 16-to-one and the other around eight-to-one. It is likely this reflects a different organization of studies and of the staff that teach them. While teaching staff in most countries have a similar average age, in three countries the average was significantly higher, indicating that the recruiting of new teaching staff has been lacking over the years.

Online activities became the standard in 2021, showing the great opportunities present in the digital work space, but also its limitations. Attendance at online meetings of the EFCE Board, working parties and sections is excellent, reflecting the much greater ease to participate. However, covering the cost of hosting and supporting online scientific events has not yet been fully addressed, given that participants are increasingly reluctant to pay for online scientific exchange, while willingness to participate in online trainings remains strong.

The European Federation of Chemical Engineering (EFCE) has promoted cooperation in Europe and elsewhere between non-profit making professional scientific and technical societies since 1953. In 2014 EFCE was registered as a Charitable Incorporated Organisation (CIO) to help it foster the general advancement of science and education of the public in chemical engineering. In addition, we support the development of chemical engineering in collaboration with our member societies. EFCE encourages progress in chemical engineering through facilitating the exchange of information and opinion in meetings, congresses and journals, supporting leading researchers and emerging talent through medals and prizes, and enabling industrialists and academics from across Europe to discuss topics of common concern.



# Working Parties and Sections

EFCE has 20 Working Parties and four Sections, whose activities span organising conferences, promoting and judging awards, and running summer courses for PhD students. The Working Parties and Sections (WP&S) are at the heart of EFCE's activities. They involve around 1000 volunteers from across Europe who are experts in their fields. Of these, 18% are industrial delegates.

## Working Parties

### Agglomeration

Chair: Prof. S. HEINRICH, Hamburg/DE  
[stefan.heinrich@tuhh.de](mailto:stefan.heinrich@tuhh.de)

### Characterisation of Particulate Systems

Chair: Prof. Martin MORGENEYER, Compiègne/FR  
[martin.morgeneyer@utc.fr](mailto:martin.morgeneyer@utc.fr)

### Chemical Reaction Engineering

Chair: Prof. Kai-Olaf HINRICHSEN, Garching/DE [hinrichsen@tum.de](mailto:hinrichsen@tum.de)

### Comminution and Classification

Chair: Prof. Arno KWADE, Braunschweig/DE [a.kwade@tu-bs.de](mailto:a.kwade@tu-bs.de)

### Computer Aided Process Engineering

Chair: Prof. Flavio MANENTI, Milano/IT  
[flavio.manenti@polimi.it](mailto:flavio.manenti@polimi.it)

### Crystallization

Chair: Prof. Marco MAZZOTTI, Zurich/CH  
[marco.mazzotti@ipe.mavt.ethz.ch](mailto:marco.mazzotti@ipe.mavt.ethz.ch)  
(until August 2021); successor: Prof. Daniele MARCHISIO, Torino/IT  
[daniele.marchisio@polito.it](mailto:daniele.marchisio@polito.it)

### Drying

Chair: Prof. Angélique LÉONARD, Liège/BE  
[a.leonard@ulg.ac.be](mailto:a.leonard@ulg.ac.be)

### Education

Chair: Prof. Eric SCHAER, Nancy/FR  
[eric.schaer@univ-lorraine.fr](mailto:eric.schaer@univ-lorraine.fr)

### Electrochemical Engineering

Chair: Prof. Karel BOUZEK, Prague/CZ  
[karel.bouzek@vscht.cz](mailto:karel.bouzek@vscht.cz)

### Fluid Separations

Chair: Prof. Harry KOOIJMAN, Amsterdam/NL  
[Harry.Kooijman@shell.com](mailto:Harry.Kooijman@shell.com)

Potsdam/USA [kooijman@clarkson.edu](mailto:kooijman@clarkson.edu)

### High Pressure Technology

Chair: Prof. Eberhard SCHLÜCKER, Erlangen/DE [sl@ipat.uni-erlangen.de](mailto:sl@ipat.uni-erlangen.de)  
(until May 2021); successor: Prof. Maria Jose COCERO ALONSO, Valladolid/ES  
[mjcocero@iq.uva.es](mailto:mjcocero@iq.uva.es)

### Loss Prevention and Safety Promotion

Chair: Prof. Bruno FABIANO, Genoa/IT  
[brown@unige.it](mailto:brown@unige.it)

### Mechanics of Particulate Solids

Chair: Prof. Diego BARLETTA, Fisciano (SA)/IT [dbarletta@unisa.it](mailto:dbarletta@unisa.it)

### Mixing

Chair: Dr. Joëlle AUBIN, Toulouse/FR  
[joelle.aubin@ensiacet.fr](mailto:joelle.aubin@ensiacet.fr)

### Multiphase Fluid Flow

Chair: Prof. Michael SCHLÜTER, Hamburg/DE  
[michael.schlueter@tuhh.de](mailto:michael.schlueter@tuhh.de)

### Polymer Reaction Engineering

Chair: Prof. Markus BUSCH, Darmstadt/DE  
[markus.busch@pre.tu-darmstadt.de](mailto:markus.busch@pre.tu-darmstadt.de)

### Process Intensification

Chair: Prof. Tom VAN GERVEN, Leuven/BE  
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### **Quality by Design**

Chair: Prof. Christoph HERWIG, Wien/AT

[christoph.herwig@tuwien.ac.at](mailto:christoph.herwig@tuwien.ac.at)

### **Static Electricity in Industry**

Chair: Prof. Petro LLOVERA SEGOVIA, Paterna/ES

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### **Thermodynamics and Transport Properties**

Chair: Prof. Sabine ENDERS, Karlsruhe/DE

[sabine.enders@kit.edu](mailto:sabine.enders@kit.edu)

## **Sections**

### **Energy**

Co-chairs: Prof. Fabrizio BEZZO, Padova/IT

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Prof. Francois MARÉCHAL, Sion/CH

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### **Food**

Chair: Dr.-Ing. Volker HEINZ, Quakenbrueck/DE

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### **Membrane Engineering**

Chair: Prof. Enrico DRIOLI, Arcavacata di Rende/IT

[e.drioli@itm.cnr.it](mailto:e.drioli@itm.cnr.it)

### **Product Design and Engineering**

Chair: Dr. Stefan KAUFMANN, Hamburg/DE

[stefan.kaufmann@beiersdorf.com](mailto:stefan.kaufmann@beiersdorf.com)

Working Parties and Sections conduct their business throughout the year, and every group has at least one meeting per year. Since mid-March 2020 all planned business meetings of the Working Parties and Sections were held online.

In 2021, Working Parties and Sections were involved in a broad range of online events and webinar series and conferences which, due to the ongoing COVID-19 restrictions were either held as virtual events or moved to 2022.

# Events of 2021

- **CHISA De Gruyter – EFCE Web-Seminar series**  
online, 20 January and 6 May 2021
- **CHISA 2021 VIRTUALLY**  
online, 15 – 18 March 2021  
*various WPs involved*
- **EEM21 – 7th International Congress 'Engineering, Environment and Materials in Process Industry'**  
Jahorina, East Sarajevo, Bosnia and Herzegovina and online, 17 – 19 March 2021  
(EFCE Event No. 777)
- **EFCE Early Career Engineers Forum**  
online, 22 April 2021
- **2nd Series of EFCE Spotlight Talks**  
online, 17 – 21 May 2021  
  
Working Parties and Sections involved:
  - **Emerging Risks and Advanced Modelling within the Process Safety Horizon**  
*Working Party on Loss Prevention and Safety Promotion in the Process Industries*
  - **Intensification of mixing and multiphase contacting in continuous flow equipment**  
*Working Parties on Mixing and on Process Intensification*
  - **Electrolyte Thermodynamics challenges from industrial needs to academic research**  
*Working Party on Thermodynamic and Transport Properties (TTP)*  
*(sponsored by IFPEN/EleTher)*
  - **Recent Developments and Further Demands in Reactive Gas-Liquid Flows**  
*Working Parties on Multiphase Fluid Flow and on Chemical Reaction Engineering*
  - **Drying research: focus on freeze-drying, lyophilization, spray-drying and product quality**  
*Working Party on Drying*
- **Alternative Food Technologies – Science meets industry**  
online 25 – 27 May 2021  
*Section on Food*
- **ESCAPE-31 – 31st European Symposium on Computer Aided Process Engineering**  
online 6 – 9 June 2021 (EFCE Event No. 776)  
*Working Party on CAPE*

- **ESEE 2021 – 12th European Symposium on Electrochemical Engineering**  
online, 14 – 17 June 2021 (EFCE Event No. 766)  
*Working Party on Electrochemical Engineering*
- **ISIC2021 – 21st International Symposium on Industrial Crystallization**  
online, 30 August – 2 September 2021 (EFCE Event No. 751)  
*Working Party on Crystallization*
- **CHEMREACTOR-24 – XXIV International Conference on Chemical Reactors**  
online, 12 – 17 September 2021 (EFCE Event No. 769)
- **ECCE13 & ECAB6**  
online, 20 – 23 September 2021 (EFCE Event No. 767)
- **9th PhD-Student on Workshop on Polymer Reaction Engineering**  
online, 23 – 25 November 2021  
*Working Party on Polymer Reaction Engineering*



**Virtual ECCE13 & ECAB6 – A great event – in many dimension**

20 – 23 September 2021 (EFCE Event No. 767)

130 monitors, 65 people in the background, several terabytes of data volume – this does not describe the bridge of a cruise ship or the key data for a small satellite launch, but the 13th European Congress of Chemical Engineering and 6th European Congress of Applied Biotechnology, in short ECCE & ECAB 2021. The technical and organizational effort in the background of such a large event is not to be underestimated, since more than 500 lectures in 13 parallel strands, 215 posters and various special formats had to be coordinated and supported. The fact that the organizers and, above all, the committee were highly committed and recruited

chairpersons virtually up to the last minute paid off: in the end, it was possible to run a very attractive and diverse four-day program (almost) without any gaps, without any technical problems and with expert support for all sessions. 235 hours of live streaming went out on air!

### **A program for every field of expertise**

ECCE & ECAB fully lived up to their claim of covering all facets of the chosen motto 'Engineering the Future'. The broad spectrum of topics ranged from the availability of raw materials to vital resources like energy and water, and to biological production systems and education and training. Short presentation sessions were followed by broad discussions ensuring a lively exchange where everyone could ask their questions. The same applied to the posters: here, the 'wonder.me' platform offered the opportunity to engage in informal conversation with the authors after a stroll through the virtual poster dimensions exhibition or one of the poster flashtalks. In the end, Laura Marie Helleckes from Forschungszentrum Jülich won 1st place for her poster on 'Automated high-throughput strain characterization'. Robin Dinter from TU Dortmund University was the runner up with a photoreactor concept, and third place went to Katrin Rosenthal and Alexander Behr from TU Dortmund University with a contribution on biocatalytic reactors.

### **Plenary lectures: spotlights on pandemics and climate change**

The diversity of topics was also reflected in the outstanding plenary lectures. In his highly engaging talk, Jirí Drahos drew connections between his field of science, chaotic systems, and the political arena in which he travels today. The cutting-edge field of pharmaceutical production was covered by two speakers, Michael Doherty and Luis Freitas dos Santos: while Michael Doherty, University of California, looked at continuous production research from a university perspective, Luisa Freitas Dos Santos, Vice President Global Clinical Supply Chain at GlaxoSmithKline, described how the pandemic has directly impacted operations and methods in a global pharmaceutical company. Emily Nguyen from Palantir Technologies described how global supply chains can become more resilient thanks to digitalization and what challenges the pandemic has revealed here. The chemical industry faces completely different, but no less significant challenges. Melanie Maas-Brunner, CTO of BASF, presented the strategies the company is pursuing on its way to CO<sub>2</sub>-free chemical production, which rest on several pillars ranging from the electrification of processes to chemical recycling.

### **ChemCar: the miniature race**

ChemCar – that's usually the lunch break meeting place where seasoned industry experts and dignified professors get carried away with enthusiasm and cheer loudly for their teams. That's hard to do in a virtual space. But digitalisation did make it possible to turn the competition into a global event: seven teams, including one from Iran and three from Indonesia, rose to the challenge of convincing with concept and precision. In the end, first place went to the 'Spring O2'clock' team from RWTH Aachen University, nicknamed 'Wheely', followed by Team 'Spectronics' from the University of Surabaya, Indonesia, and the pHantasticCar, which was developed at TU Dortmund University.

### **Student and doctoral program**

Networking is particularly important for students and young scientists, who are facing far-reaching decisions about their preferred career path and making a good start in their professional life. This is where the practical exchange of experience is particularly important. The 'creative young process engineers', kJVIS, had prepared a program for the virtual ECCE & ECAB that was designed to do just that. Despite all the weighty questions, however, there was no shortage of fun, not least in the 'Expert vs Audience' quiz, in which this year the expert had to admit defeat to the assembled broad knowledge of the audience.

### **Science Slam – Science with fun**

And ECCE & ECAB offered another special program item: in a science slam, six researchers presented their work in a compact and entertaining way. Sofia Garcia Fracaro walked off the screen as the winner; she is working on 'Immersive technologies applied for training of operators in the chemical industry'. Roos Goedhart and Theresa Jaster took 2nd and 3rd place.

### **The conclusion: it was great... but**

The ECCE & ECAB showed what a virtual conference can do: impart a lot of knowledge and enable the exchange of information worldwide, regardless of distances and time zones. It can provide new professional contacts and initiate a very straightforward dialogue. It can even provide a different setting for a competition that thrives strongly on the emotion of the audience. In terms of scientific breadth and depth, such a virtual conference need not hide from any face-to-face event; in some cases, the virtual setting even significantly reduces the barriers to participation. Nevertheless, there is also something missing: the infectious enthusiasm, the chance encounter or the personal conversation over beer and pretzels cannot be recreated in the digital space. And that's also what a big conference is about, in addition to the scientific content: the atmosphere that inspires and the exchange that leads to new ideas.

And that's exactly what there will be at the next edition of ECCE & ECAB: from September 17 to 21, 2023, EFCE, ESBES and DECHEMA invite you to Berlin, and then it will be once again: what can technical chemists, process engineers and biotechnologists do for the future?

We are looking forward to it!

# Awards

## Dieter Behrens Medal



The Federation awarded its prestigious Dieter Behrens Medal to **Professor Guy B. Marin**, Belgium. He has been chosen for the award 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, co-editor of the EFCE journal ChERD, and for his substantial contribution to Chemical Reaction Engineering in Europe through numerous publications, organisation of conferences and delivery of projects.

The medal was awarded on 20 September 2021, during the 13th European Congress of Chemical Engineering.

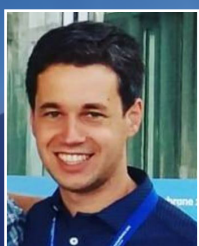
The Dieter Behrens Medal is presented every four years. It recognises a significant contribution on behalf of the Federation in raising the profile of chemical engineering in Europe or in relation to the organisation, management or development of EFCE's activity base. The medal was awarded on 20 September 2021, during the 13th European Congress of Chemical Engineering.

## Excellence Awards

EFCE Excellence Awards recognise PhD thesis or publications of young researchers published in preceding years which demonstrate the most outstanding contribution to research or the practice in the scientific fields of the EFCE Working Parties and Sections.

Awards typically comprise a certificate, a cash award of €1,500 and a €500 travel grant to attend the meeting at which the award will be presented. In 2021, all Excellence Award were presented virtually.

In 2021, EFCE gave the following awards:



**Dr. Cédric Van Goethem**

2021 EFCE-EMS Joint Excellence Award Membrane Engineering



**Dr. Evangelos Delikonstantis**

2021 Excellence Award in Process Intensification



**Dr. Christian Rieck**

2021 EFCE Excellence Award in Product Design and Engineering



**Dr. Ailo Aasen**

2021 EFCE Excellence Award in Thermodynamics and Transport Properties



Dr. Lena Hohl



Dr. Francesco  
Maluta

**Dr. Lena Hohl and Dr. Francesco Maluta**

2021 EFCE Young Researcher Award in Mixing

## Other Awards



Professor Alberto  
Brucato

The Working Party on Mixing presented its 2021 Nienow Lifetime Recognition Award to **Professor Alberto Brucato**, Italy, and **Professor Matthias Kraume**, Germany, at the online event 'Pushing the Boundaries in Mixing in the Process Industries' on 30 June 2021.



Professor  
Matthias Kraume



# 2022 and Beyond

## External Engagement

### SusChem

SusChem is the European Platform for Sustainable Chemistry, and the EFCE Scientific VP is a member of its Board. SusChem has members from most major European chemicals companies and close collaboration with several Directorates of the European Commission, including RTD and GROW, to influence policies and funding priorities. EFCE had input to its Strategic Research and Innovation Agenda (SIRA) published in 2019. EFCE provided experts for 'Digital Technologies in line with Green Deal' being prepared by Accenture and CEFIC which is one of the SIRA topics.

Focus has now turned to Safe and Sustainable by Design (SSBD) RD&I Roadmap, working with Commission Ministries DGRTD, DGGrow, and DGENv towards 'A zero pollution ambition for a toxic free environment'. It involves safe and sustainable design of chemicals (substances, materials and products) looking at the following priority value chains: renewable energy, energy storage, packaging, agrochemicals, construction, water treatment.

SusChem is participating in a new EC-funded project. Led by Swedish company IVL, IRISS Safe and sustainable advanced materials, explores a number of product value chains. EFCE is providing advice on skills and methodologies for sustainability particularly through the Education Working Party.

### A-SPIRE

EFCE is an Associate Member of A-SPIRE, which is a partnership between ten industry groups and the European Commission. The groups represent cement, ceramics, chemicals, engineering, minerals and ores, non-ferrous metals, pulp and paper, refining, steel and water sectors. EFCE had input into A-SPIRE's roadmap **Processes4Planets – Transforming the European Process Industry for a Sustainable Society**, which directly informed the new EC R&D calls. The roadmap has strong ambitions for the process industry in terms of climate neutrality, resources circularity and competitiveness.

### Chemical Engineering Skills Audit

The skills audit undertaken by the Scientific VP surveying whether the ecosystem for developing chemical engineers in Europe is optimal and consistent is complete and published on the EFCE website and in the Newsletter and circulated to Member

Societies. There are figures for many but not all countries. A number of countries are adapting the report to focus specifically on their own countries with comparisons for publication in national newsletters. The aim is to help national member societies and universities argue for more academic recruitment where appropriate to maintain a strong discipline basis for chemical engineering in Europe.

### **Conferences**

ECCE & ECAB was held virtually in Sept 2021. ECCE & ECAB 2023 will now be held in Berlin and ECCE & ECAB 2025 in Lisbon. CHISA, originally planned for August 2020, was held virtually in April 2021 and the next CHISA will be held in person in Prague in August 2022. The EFCE again organised sets of Spotlight Talks by its Working Parties and Sections, eleven in November/December 2020, seven in April 2021 and eight in April 2022. Registrants were able to participate in any of the events encouraging cross fertilisation between members of Working Groups and Sections.

# Administrative Report

2021 was the seventh year of EFCE as a Charitable Incorporated Organisation. Like in 2020, due to COVID-19 restriction, the Executive Board met online in April and August. While this allowed the Board to meet as planned and with good participation, for one more year the members of the Board, elected in September 2019, did not have the opportunity to meet in person with their colleagues.

The Management Committee met monthly and ahead of the Executive Board meetings via video-conference. Progress of activities and monitoring of agreed actions took place effectively through Basecamp platform.

During the year, invoicing, forecasting and payment of expenses were closely managed in order to keep the EFCE accounts under control. In consideration of the financial difficulties of a few EFCE members due to the COVID pandemic, EFCE fees remained unchanged.

Details about the economic and financial performance of the CIO are provided later in the financial report.

As mentioned earlier, EFCE online presence in 2021 was quite strong and was essential to keep close contacts with the scientific and chemical engineering community.

EFCE publicises its activities through its e-newsletter and six issues were published in 2021 (<https://efce.info/EFCEnewsletter.html>). In addition, pdf versions are published on EFCE's social media pages and press releases highlight other news, mainly relating to the various EFCE awards. 16 press releases were published in 2021.

EFCE's social media pages can be found at:

- EFCE LinkedIn Group: [http://bit.ly/EFCE\\_LinkedIn](http://bit.ly/EFCE_LinkedIn)
- Twitter: [https://twitter.com/@EFCE\\_Comms](https://twitter.com/@EFCE_Comms)
- Facebook: <https://www.facebook.com/theEFCE>
- YouTube: <https://www.youtube.com/channel/UCxuvfbb5ST3DMHLAwZ6326w>

# Changes to the Board of Trustees

There no changes to the Board of Trustees that took effect during 2021 – all EFCE trustees were serving the second of their two-year terms.

At the EFCE General Assembly in September 2021, the following officers and trustees were elected to take seats at the beginning of 2022:

Officers: Giorgio Veronesi as President, Prof. Jarka Glassey as Executive Vice-President and Prof. Petr Kluson as Scientific Vice-President.

Trustees: David Bogle (United Kingdom), Elisabetta Brunazzi (Italy), Michael Considine (United Kingdom), Antoon ten Kate (The Netherlands), Antonis Kokossis (Greece), Alexis Pey Torruella (Spain), Patrick Piccione (Switzerland), Álvaro Ramirez-Gomez (Spain), Eric Schaer (France), Maurizio Rovaglio (Italy), Tomasz Sosnowski (Poland), and Michael Wilk (Germany). They join the appointed trustees Andreas Förster (DECHEMA), François Nicol (SFGP), and Jon Prichard (IChemE), who represent the three EFCE General Secretariats.



**Hermann Feise**  
**President**



**David Bogle**  
**Scientific Vice-President**



**Giorgio Veronesi**  
**Executive Vice-President**

# Financial Report

from the period of 1 January 2021 to 31 December 2022

	<b>2021</b>	<b>2020</b>
	<b>Unrestricted funds €</b>	<b>Total funds €</b>
<b>INCOME AND ENDOWMENTS FROM CHARITABLE ACTIVITIES</b>		
<b>CHARITABLE ACTIVITIES TOTAL</b>	<b>61,811</b>	<b>36,527</b>
<b>EXPENDITURE ON CHARITABLE ACTIVITIES</b>		
Resources expended	29	198
Charitable activities	52,101	39,482
Other	2,807	2,396
<b>TOTAL</b>	<b>54,937</b>	<b>42,076</b>
<b>NET INCOME (EXPENDITURE)</b>	<b>6,874</b>	<b>(5,549)</b>
<b>RECONCILIATION OF FUNDS</b>		
<b>Total funds brought forward</b>	100,166	105,715
<b>TOTAL FUNDS CARRIED FORWARD</b>	<b>107,040</b>	<b>100,166</b>

	<b>2021</b>	<b>2020</b>
	<b>Unrestricted funds €</b>	<b>Total funds €</b>
<b>CURRENT ASSETS</b>		
Debtors	17,797	6,166
Cash at bank	129,554	133,400
<b>TOTAL</b>	<b>147,351</b>	<b>139,566</b>
<b>CREDITORS</b>		
Amounts falling due within one year	(40,311)	(39,400)
<b>NET CURRENT ASSETS</b>	<b>107,040</b>	<b>100,166</b>
<b>TOTAL ASSETS LESS CURRENT LIABILITIES</b>	<b>107,040</b>	<b>100,166</b>
<b>NET ASSETS</b>	<b>107,040</b>	<b>100,166</b>
<b>FUNDS</b>		
Unrestricted funds	107,040	100,166
<b>TOTAL FUNDS</b>	<b>107,040</b>	<b>100,166</b>

This financial report is an extract of the Unaudited Financial Statements for the year ended 31 December 2021, which have been independently examined by Magma Audit LLP, Rugby, UK. The full report is available on the EFCE website.

## **EFCE General Secretariat**

### **UK Secretariat (Finance & Principal Office)**

IChemE  
Davis Building  
165 – 189 Railway Terrace  
Rugby  
Warwickshire  
CV21 3HQ  
UK

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### **German Secretariat (Membership and Administrative Support)**

DECHEMA  
Theodor-Heuss-Allee 25  
60486 Frankfurt am Main  
Germany

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### **French Secretariat (Scientific Support)**

SFGP  
28, Rue Saint-Dominique  
75007 Paris  
France

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Charity Registration No. 1159541