

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

England & Wales · Charity number 1159541

Details

Other names	"EFCE" AND "EUROPEISCHE FEDERATION FÜR CHEMIE-INGENIEUR-WESEN" AND "FEDERATION EUROPÉENNE DE GÉNIE CHIMIQUE", "EUROPÄISCHE FÖDERATION FÜR CHEMIE-INGENIEUR-WESEN, EFCE, EUROPÄISCHE FÖDERATION FÜR CHEMIE-INGENIEUR-WESEN, FÉDÉRATION EUROPÉENNE DE GÉNIE CHIMIQUE
Status	Registered
Legal form	CIO
Registered	2014-12-09
Register	View on the Charity Commission register

Contact

Address	Institution Of Chemical Engineers 165-189 Railway Terrace Rugby CV21 3HQ
Phone	01788534422
Email	efce@icheme.org
Website	http://www.efce.info/home.html

Activities

Objects: THE OBJECT OF THE CIO IS 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 AND ANY ANCILLARY OR INCIDENTAL PURPOSES THAT THE CHARITY TRUSTEES MAY THINK FIT. NOTHING IN THIS CONSTITUTION SHALL AUTHORISE AN APPLICATION OF THE PROPERTY OF THE CIO FOR PURPOSES WHICH ARE NOT CHARITABLE IN ACCORDANCE WITH SECTION 7 OF THE CHARITIES AND TRUSTEE INVESTMENT (SCOTLAND) ACT 2005 AND SECTION 2 OF THE CHARITIES ACT (NORTHERN IRELAND) 2008.

Activities: The object of the CIO is 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 among their aims advancing the science and education of the public in chemical engineering and encouraging the development of chemical engineering and any ancillary purpose the trustees may think fit

Classification

- **How:** Makes Grants To Individuals, Acts As An Umbrella Or Resource Body
- **What:** General Charitable Purposes, Education/training, Other Charitable Purposes
- **Who:** Other Charities Or Voluntary Bodies, The General Public/mankind

Geography

- Austria
- Belgium
- Bulgaria
- Croatia
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Israel
- Italy
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Serbia
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- Ukraine
- Throughout England And Wales

Finances

Period end	Income	Expenditure	Assets	Employees
2024-12-31	£52,442	£54,325	-	-
2023-12-31	£114,268	£73,657	-	-
2022-12-31	£62,035	£57,073	-	-
2021-12-31	£61,811	£54,937	-	-
2020-12-31	£36,527	£42,076	-	-

Trustees

Name	Role	Appointed
Alvaro Ramirez Gomez		2020-01-01
Ana Montoro		2024-04-19
Andreas Foerster		2021-09-27
Antonio Goncalves da Silva		2024-01-01
Antonis Kokossis		2022-01-01
Antoon ten Kate		2018-01-01
Boelo Schuur		2024-01-01
David Bogle		2018-01-01
Dr Jarmila Glassey		2022-01-01
Elisabetta Brunazzi		2020-01-01
Eric Schaer		2020-01-01
FRANCOIS NICOL		2014-01-01
Giorgio Veronesi		2016-01-01
Giuseppe Bellussi		2024-01-01
Juraj Kosek		2024-01-01
Laura Pirro		2022-04-08
Michael Wilk		2018-01-01
Patrick Piccione		2018-01-01
Sofia Garcia Fracaro		2024-04-19
Tomasz Robert Sosnowski		2022-01-01

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

England & Wales - Charity number 1159541

Accounts

REGISTERED CHARITY NUMBER: 1159541

**REPORT OF THE TRUSTEES AND
UNAUDITED FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2024
FOR
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

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for the year ended 31 December 2024**

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**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2024**

Key Achievements during 2024

Founded in 1953, the European Federation of Chemical Engineering (EFCE) promotes cooperation between non-profit making professional scientific and technical societies, and supports the development of chemical engineering in partnership with its national member societies. 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.

EFCE achieves its goals by 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.

2024 had a full schedule of scientific conferences, seminars, workshops, etc. Some of them had record attendance: the ESCAPE-34/ PSE-24 conference, organised by the Computer-Aided Process Engineering Working Party in Florence, had the best turnout ever for an ESCAPE conference.

While most activity has returned to be face to face, EFCE maintains some online activities, which have many advantages in terms of time, cost, environmental impact and inclusivity, and which make EFCE events more accessible to people who may not be able to attend in-person events.

In 2024, this included the Spotlight Talk webinar series, which took place in spring and autumn and featured a range of topics selected by Working Parties (WPs) and Sections. Recordings of the webinars are now available to all on the EFCE YouTube channel. Many thanks to EFCE's Scientific Secretariat, led by Dr. Martine Poux, who coordinates the Spotlight Talks from inception to publication.

In December, the 5th European Forum on New Technologies (EFNT) took place in Paris, dedicated to Artificial Intelligence in Chemical Engineering and industrial applications of AI. The Forum was very well attended, especially by industry. The three final round table discussions on topics suggested by participants were highly engaging and saw strong audience participation. Many thanks to Dr. Martine Poux, EFCE's scientific vice president, Prof. Boelo Schuur and the French member organisation SFGP for organising such a successful event.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2024**

OBJECTIVES AND ACTIVITIES

Working parties and sections

EFCE has twenty Working Parties and seven Sections, whose activities span organising conferences, promoting and judging awards, and running summer courses for PhD students. The Working Parties and Sections are at the heart of EFCE's activities. They involve around 1,000 volunteers from across Europe who are experts in their fields. Of these, 15% are industrial delegates.

WORKING PARTIES

- Agglomeration
Chair: Prof. S. HEINRICH, Hamburg/DE; email: stefan.heinrich@tuhh.de
- Characterisation of Particulate Systems
Chair: Prof. Martin MORGENEYER, Compiègne/FR; email: martin.morgeneyer@utc.fr
- Chemical Reaction Engineering
Chair: Prof. Kai-Olaf HINRICHSEN, Garching/DE; email: hinrichsen@tum.de
- Comminution and Classification
Chair: Prof. Arno KWADÉ, Braunschweig/DE; email: a.kwade@tu-bs.de
- Computer Aided Process Engineering
Chair: Prof. Flavio MANENTI, Milano/IT; email: flavio.manenti@polimi.it
- Crystallization
Chair: Prof. Daniele MARCHISIO, Torino/IT; email: danielle.marchisio@polito.it
- Drying
Chair: Prof. Angélique LEONARD, Liège/BE; email: a.leonard@ulg.ac.be
- Education
Chair: Dr. Hermann J. FEISE, Ludwigshafen/DE; email: herman.feise@basf.com
- Electrochemical Engineering
Chair: Prof. Karel BOUZEK, Prague/CZ; email: karel.bouzek@vscht.cz
- Fluid Separations
Chair: Prof. Harry KOOIJMAN, Amsterdam/NL; email: Harry.Kooijman@shell.com and Potsdam/USA; email: kooijman@clarkson.edu
- High Pressure Technology
Chair: Prof. Maria Jose COCERO ALONSO, Valladolid/ES; email: mjcocero@iq.uva.es
- Loss Prevention and Safety Promotion
Chair: Prof. Bruno FABIANO, Genoa/IT; email: brown@unige.it
- Mechanics of Particulate Solids
Chair: Prof. Diego BARLETTA, Fisciano (SA), Italy; email: dbarletta@unisa.it
- Mixing
Chair: Dr. Joëlle AUBIN, Toulouse/FR; email: joelle.aubin@toulouse-inp.fr
- Multiphase Fluid Flow
Chair: Prof. Michael SCHLÜTER, Hamburg/DE; email: michael.schlueter@tuhh.de
- Polymer Reaction Engineering
Chair: Prof. Markus BUSCH, Darmstadt/DE; email: markus.busch@pre.tu-darmstadt.de
- Process Intensification
Chair: Prof. Georgios STEFANIDIS, Athens/GR; email: gstefani@mail.ntua.gr
- Quality by Design
Chair: Prof. Christoph HERWIG, Wien/AT; email: christoph.herwig@iisalis.at
- Static Electricity in Industry
Chair: Prof. Petro LLOVERA SEGOVIA, Paterna/ES; email: pedro.llovera@ite.es
- Thermodynamics and Transport Properties
Chair: Prof. Maria Grazia DE ANGELIS, Edinburgh/UK; email: grazia.deangelis@ed.ac.uk

SECTIONS

- Chemical Engineering as Applied to Medicine
Chair: Prof. Tomasz SOSNOWSKI, Warsaw/PL tomasz.sosnowski@pw.edu.pl
- Early Career Chemical Engineers
Chair: Dr. Sofia GARCIA FRACARO, Darmstadt/DE sofia.garcia-fracaro@merckgroup.com
- Energy
Co-Chairs: Prof. Valerio COZZANI, Bologna/IT; e-mail: valerio.cozzani@unibo.it and Dr. Jan VERSTRAETE, Solaize/FR; email: jan.verstraete@ifpen.fr
- Food
Chair: Dr.-Ing. Volker HEINZ, Quakenbrück/DE; email: v.heinz@dil-ev.de
- Membrane Engineering
Chair: Prof. Enrico DRIOLI, Arcavacata di Rende/IT (until October 2024); then Dr. Alessandra CRISCUOLI, Arcavacata di Rende/IT; email: a.criscuoli@itm.cnr.it

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2024**

- Product Design and Engineering
Chair: Dr. Francesco PICCHIONI, Groningen/NL; email: f.picchioni@rug.nl
- Sustainability
Chair: Prof. Antonis KOKOSSIS, Athens/GR; email: akokossis@mail.ntua.gr

Working Parties and Sections conduct their business throughout the year, and every group is expected to hold at least one meeting per year, either physically or online.

EFCE events of 2024:

- 6th EFCE Spotlight Talks series Online, 15 - 28 March 2024 (EFCE Event)
- 17th European PhD Workshop on Food Engineering and Technology, Aachen, Germany, 23 - 24 April 2024 (EFCE Student Event)
- International Conference on Biomass - ICONBM2024
Palermo, Italy, 19 - 22 May 2024 (EFCE Event No. 804)
- ChemE-Med 2024 - Chemical Engineering as Applied to Medicine
Salerno, Italy, 20 May 2024 (EFCE Event No. 806)
- 7th International Symposium on High Pressure Technology
Maribor, Slovenia, 26 - 29 May 2024 (EFCE Event No. 807)
- ESCAPE-34 / PSE-24
Florence, Italy, 2 - 6 June 2024 (EFCE Event No. 799)
- ACHEMA 2024
Frankfurt/Main, Germany, 10 - 14 June 2024 (EFCE Event No. 796)
- ISCRE28 - International Symposium on Chemical Reaction Engineering
Turku/Abo, Finland, 16 - 19 June 2024 (EFCE Event No. 801)
- 18th European Symposium on Comminution and Classification - ESCC 2024
Miskolc, Hungary, 24 - 26 June 2024 (EFCE Event No. 798)
- Summer School on Crystallization
Stevenage, United Kingdom, 26 - 28 June 2024 (EFCE Student Event)
- International Conference on Industrial Biotechnology - IBIC
Bologna, Italy, 30 June - 3 July 2024 (EFCE Event No. 802)
- 27th International Congress of Chemical and Process Engineering - CHISA 2024
Prague, Czech Republic, 25 - 29 August 2024 (EFCE Event No. 800)
- International Conference on Safety & Environment in Process & Power Industry - CISAP11
Naples, Italy, 15 - 18 September 2024 (EFCE Event No. 803)
- International Conference on Environmental Monitoring of Odours and VOCs - NOSE2024
Naples, Italy, 15 - 18 September 2024 (EFCE Event No. 805)
- 12th PhD-Student Workshop on Polymer Reaction Engineering
Lyon, France, 30 - 31 October 2024 (EFCE Student Event)
- 7th EFCE Spotlight Talks series Online, 5 - 14 November 2024 (EFCE Event)
- 5th European Forum on New Technologies: Artificial Intelligence in Chemical Engineering
Paris, France, 13 December 2024 (EFCE Event)

EUROPEAN FEDERATION OF CHEMICAL
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REPORT OF THE TRUSTEES
for the year ended 31 December 2024

OBJECTIVES AND ACTIVITIES

Awards

Excellence Awards

EFCE Excellence Awards recognise PhD theses 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 2024, EFCE gave the following awards:

Excellence Award in Recognition of an Outstanding PhD Thesis on CAPE 2024: Dr. Francesco Destro

The award acknowledges his excellent PhD thesis on "Digitalizing pharmaceutical development and manufacturing: advanced mathematical modelling for operation design, process monitoring and process control", completed at the University of Padova, Italy, under the supervision of Prof. Massimiliano Barolo.



EFCE-EMS Excellence Award in Membrane Engineering 2024: Dr. Zhiwei Jiang

The award acknowledges his outstanding work published in two seminal research papers. The papers are , titled "Aligned Macrocyclic Pores in Ultrathin Films for Accurate Molecular Sieving" by Zhiwei Jiang (Nature (2022) 609 p58-64), and "A Smart and Responsive Crystalline Porous Organic Cage Membrane with Switchable Pore Apertures for Graded Molecular Sieving" co-authored by Ai He and Zhiwei Jiang (Nature Materials (2022) 21, 4, p 463-470).



**EUROPEAN FEDERATION OF CHEMICAL
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**REPORT OF THE TRUSTEES
for the year ended 31 December 2024**

OBJECTIVES AND ACTIVITIES

EFCE Travel Grant for early career engineers

The EFCE Travel Grant enables early career chemical engineers attend EFCE conferences by contributing towards the travel costs for members of EFCE's Early Career Chemical Engineers Section or early career members of an EFCE member society.

The winners of the 2024 Travel Grant worth €600 are:

- Damla Yazin - to attend the 5th European Forum on New Technologies: Artificial Intelligence in Chemical Engineering
- Pratik Nayi - to attend EuroDrying 2025



Photo caption: Damla Yazin (middle) receiving the Travel Grant certificate from EFCE's President, Giorgio Veronesi (right) and the Chair of the Early Career Chemical Engineers Section Sofia Garcia Fracaro (left).

**REPORT OF THE TRUSTEES
for the year ended 31 December 2024**

Other Awards

In 2024, the National Technical University of Athens, Greece, the EFCE Working Party on Computer Aided Process Engineering, and the AIChE-CAST Division introduced the George Stephanopoulos Award. The award is presented in recognition of outstanding achievements in Process Systems Engineering.

The first George Stephanopoulos Award in Process Systems Engineering (PSE) was presented to Professor Claire Adjiman, Imperial College London, UK, on 3 June 2024 at the ESCAPE-34 / PSE-24 conference in Florence, Italy.



The Working Party on Thermodynamics and Transport Properties awarded the "Michael L. Michelsen" Award to Professor Jean-Noël Jaubert, France.

Jean-Noël Jaubert presented the Award lecture on 9 June 2024 at the 33rd European Symposium on Applied Thermodynamics - ESAT 2024 in Edinburgh, UK.



EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

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OBJECTIVES AND ACTIVITIES

External Engagement

SusChem

SusChem is the European Platform for Sustainable Chemistry, and an EFCE trustee 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. It continues its role on the Commission's Task Force on the Transition Pathway for the Chemical Industry and promoting the Safe and Sustainable by Design framework. The Commission's new approach for an Industrial Green Deal aiming for both a financially and environmentally sustainable chemical industry has been welcomed.

As a key plank of its brokerage role for encouraging collaborative R&D in the Chemistry sector SusChem held a stakeholder event 'Celebrating 20 Years of Sustainable Chemistry & Future Directions' in Sept 2024 in Brussels. It included a panel debate on 'What are the Chemical Sector's needs for FP10?'. The panel agreed that true competitiveness relies on investments, skills, innovation, and collaboration, especially in the face of the current political, climate, and economic challenge. This requires maximising efficiency of resources across the full supply chain. FP10 should have an emphasis on public private partnerships and there is a need for faster approvals and more streamlined funding mechanisms.

The Board has been considering the future role of SusChem and also its governance structure. It has a distinctive role in the chemicals sector bringing together companies (large and small), research and technology organisations, academia, professional organisations (such as EFCE), Directorates from the European Commission and a suite of National Technology Platforms to bring in national and regional views. It was felt that this needs to be better represented in the Board membership. SusChem also has a wide network of interested parties with an interest in R&D in the chemical sector. The Board is reviewing its role in the changing European landscape and this was also discussed at the stakeholder event. At the end of the year Josef Wunsch of BASF stepped down as SusChem chair and introduced his successor from BASF, Jens Hamprecht.

The IRISS project which was initiated by SusChem and is underway co-ordinated by Emma Stromberg of the Swedish Environmental Research Institute is coming to the end of its EU funding and now, a new phase begins where they aim to build the world's largest international SSbD Community. The project has published two strategic roadmaps to guide action toward safer, more sustainable materials, processes, and products, released six scientific articles and over a dozen public reports which can be found on their website. One of its work packages is on education and skills, (where they are working with the EFCE Education Working Party) which led to a report on Skills, knowledge and education needs and gaps and mismatches for the uptake of SSbD.

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 has significantly influenced some of the EU's Framework Programme calls.

Scientific Report

Most of the Working Parties and Sections of the EFCE have been fully active in 2024. However, the Working Party Quality by Design has proposed to cease their activity and closure is expected in 2025. For other groups in contrary, activities have remained vivid or started up. We here report a brief summary of activities by the latest established/reactivated Sections: Early Career Chemical Engineers and Sustainability.

Early Career Chemical Engineers

2024, the second full year of operations for the Early Career Chemical Engineers Section, was again a great success. As well as participating in the EFCE Spotlight Talk series, the section has been helping the EFCE Board evaluate and improve the EFCE website. The Section will next work on deepening its links with other Sections and Working Parties.

Sustainability

Since being reactivated in 2023, Section members held several online meetings in 2024 to develop future activity and structure its subsections. Section members helped organise two of the autumn 2024 Spotlight Talks (one with the WP on Education).

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2024

OBJECTIVES AND ACTIVITIES

Spotlight Talks- continued

Launched in 2020, the Spotlight Talks webinar series https://efce.info/Spotlight_Talks.html are now a highly anticipated event bringing together the chemical and biochemical engineering community, and one of EFCE's success stories of recent years.

The Talks are presented by leading industry and academic experts and enable Working Parties, Sections and attendees, to discuss a diverse range of chemical engineering topics. Between them, the 2024 spring and autumn Spotlight Talks featured 23 webinars.

The 6th series, from 15 March to 28 March, featured eleven contributions from the following Working Parties and Sections: Chemical Reaction Engineering, Crystallization, Drying, Education, Fluid Separations, Loss Prevention and Safety Promotion, Process Intensification, Static Electricity in Industry, Thermodynamics and Transport Properties, Food, and Membrane Engineering. With an average of 112 participants in each webinar (1,238 in total), it was EFCE's best-attended series of Spotlight Talks ever.

The 7th series, held from 5-14 November, consisted of twelve webinars organized with the help of thirteen Working Parties and Sections (Sustainability, Mixing, Electrochemical Engineering, High Pressure Technology, Food, Loss Prevention and Safety Promotion, Agglomeration, Multiphase Fluid Flow, Static Electricity in Industry, Education, Polymer Reaction Engineering, Thermodynamics and Transport Properties and Early Career Chemical Engineers). The attendance was very good with a total of 1,098 participants (average 92 per webinar).

Recordings of all the webinars are available on the EFCE YouTube channel <https://www.youtube.com/channel/UCxuvfb5ST3DMHLAWZ6326w> where they continue to rack up views - some have had over 1000 by now.

European Forum on New Technologies

The 5th European Forum on New Technologies was organized in Paris on 13 December 2024, gathering experts, professionals, and researchers coming half from academia and half from industry (with 42 companies taking part) to discuss the role of Artificial Intelligence in Chemical Engineering.

The large attendance (130 participants) from 17 countries confirms that AI is a hot topic that concerns many areas of chemical engineering.

The programme comprised three separate sessions, covering an Overview of artificial intelligence for process engineering, an exploration of Generative artificial intelligence and transformation in process engineering, and examples of AI applications in chemical engineering. The presentations were followed by a round table discussion, tackling three questions:

1. Can AI enhance creativity in process engineering?
2. How can AI be better integrated into chemical engineering curricula?
3. What is the future of AI-human collaboration?

The discussion showed the desire for more synergistic collaboration between academia and industry to create a positive ripple effect. It also underlined the importance of democratization, within the boundaries of intellectual property rights, the need to ensure replicability of results and transparency in AI frameworks to foster trust between humans and AI, and the imperative to educate the next generation of chemical engineers, equipping them with a thorough understanding of AI's potential and limitations to promote its responsible use.

Administrative report

2024 was the tenth year of EFCE as a Charitable Incorporated Organisation. The Executive Board met in person in April in Lisbon, using this opportunity to visit the ECCE/ECAB 2025 conference venue, and in August in Prague. It is supported by the Management Committee, which meets monthly to monitor progress of activities.

During the year, invoicing, forecasting and payment of expenses were closely managed to keep the EFCE accounts under control. The 2024 fees were raised 3% although this does not fully allow for rising costs. Details about the economic and financial performance of the CIO are provided later in the financial report.

EFCE strong online presence in 2024 was further bolstered by the very active social media campaigns of the Early Career Section colleagues.

EFCE publicises its activities through its e-newsletter and six issues were published in 2024. Press releases highlight other news, mainly relating to the various EFCE awards. Seven press releases were published in 2024. You can find EFCE on LinkedIn and YouTube.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2024**

STRUCTURE, GOVERNANCE AND MANAGEMENT

Governing document

The charity is controlled by its governing document, a deed of trust and constitutes an unincorporated charity.

Changes to the Board of Trustees

EFCE's member societies elected new officers and trustees at the General Assembly in 2023, resulting in a number of changes that took effect at the start of 2024.

Giorgio Veronesi, President, and Jarka Glassey, Executive Vice-President of the Federation started their second term of office. On 1 January 2024, the new Scientific Vice-President, Boelo Schuur, joined the EFCE Officers' team.

The new elected charity trustees for the term 2024-2025 are: Giuseppe Bellussi, David Bogle, Elisabetta Brunazzi, Antonio Goncalves da Silva, Antoon ten Kate, Juraj Kosek, Antonis Kokossis, Patrick Piccione, Laura Pirro, Eric Schaer, Tomasz Sosnowski, and Michael Wilk.

Five members stepped down at the end of 2023, after completing their term - they are interim Scientific Vice-President Michael Considine, elected trustees Alexis Pey Torruella and Maurizio Rovaglio, as well as co-opted trustees Silvie Müller and Laura Pirro.

In addition to the Scientific Vice-President and the new elected trustees the new co-opted trustees Álvaro Ramirez-Gomez, Ana Montoro and Sofia Garcia Fracaro joined the Executive Board.

Giorgio Veronesi, President

Boelo Schuur, Scientific Vice-President

Jarka Glassey, Executive Vice-President

REFERENCE AND ADMINISTRATIVE DETAILS

Registered Charity number

1159541

Principal address

Davis Building
165-189 Railway Terrace
Rugby
Warwickshire
CV21 3HQ

Trustees

F Nicol
G Veronesi
C Flavell-White (resigned 31/07/2025)
D Bogle
P Piccione
M Wilk
A ten Kate
E Schaer
Dr J Glassey
A Kokossis
T R Sosnowski
A Förster
A Ramirez-Gomez
L Pirro
J Kosek (appointed 01/01/2024)
E Brunazzi
M Ana (appointed 19/04/2024)
S Garcia Fracaro (appointed 19/04/2024)
G Bellussi (appointed 01/01/2024)
B Schuur (appointed 01/01/2024)
A Goncalves da Silva (appointed 01/01/2024)

EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING

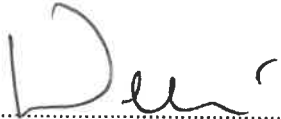
REPORT OF THE TRUSTEES
for the year ended 31 December 2024

REFERENCE AND ADMINISTRATIVE DETAILS

Independent Examiner

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Approved by order of the board of trustees on 6/9/25 and signed on its behalf by:


.....
G Veronesi - Trustee

**INDEPENDENT EXAMINER'S REPORT TO THE TRUSTEES OF
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Independent Examiner's Report to the Trustees of European Federation of Chemical Engineers

I report to the trustees on my examination of the financial statements of European Federation of Chemical Engineers ('the charity') for the year ended 31 December 2024 which comprise the Statement of Financial Activities, the Balance Sheet and related notes.

This report is made solely to the charity's trustees, as a body, in accordance with section 145 of the Charities Act 2011. My work has been undertaken so that I might state to the charity's trustees those matters I am required to state to them in this report and for no other purpose. To the fullest extent permitted by law, I do not accept or assume responsibility to anyone other than the charity and the charity's trustees as a body, for my work, for this report, or for the opinions I have formed.

Responsibilities and basis of report

As the trustees of the charity you are responsible for the preparation of the financial statements in accordance with the requirements of the Charities Act 2001 ('the Act').

I report in respect of my examination of the charity's financial statements carried out under section 145 of the Act and in carrying out my examination I have followed all the applicable Directions given by the Charity Commission under section 145(5)(b) of the Act.

An independent examination does not involve gathering all the evidence that would be required in an audit and consequently does not cover all the matters that an auditor considers in giving their opinion on the financial statements. The planning and conduct of an audit goes beyond the limited assurance that an independent examination can provide. Consequently I express no opinion as to whether the financial statements present a 'true and fair' view and my report is limited to those specific matters set out in the independent examiner's statement.

Independent examiner's statement

I have completed my examination. I confirm that no material matters have come to my attention in connection with the examination giving me cause to believe that in any material respect:

- accounting records were not kept in respect of the charity as required by section 130 of the Act; or
- the financial statements do not accord with those records; or
- the financial statements do not comply with the applicable requirements concerning the form and content of accounts set out in the Charities (Accounts and Reports) Regulations 2008 other than any requirement that the accounts give a 'true and fair view which is not a matter considered as part of an independent examination.

I have no concerns and have come across no other matters in connection with the examination to which attention should be drawn in this report in order to enable a proper understanding of the financial statements to be reached.

Magma Audit LLP

Vicki Craig

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Date: 12 September 2025

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2024**

	Notes	Unrestricted fund €	Restricted fund €	2024 Total funds €	2023 Total funds €
INCOME AND ENDOWMENTS FROM					
Charitable activities	2				
Charitable activities		<u>61,951</u>	<u>-</u>	<u>61,951</u>	<u>114,268</u>
EXPENDITURE ON					
Raising funds	3	-	-	-	185
Charitable activities	4				
Resources expended		-	-	-	14
Charitable activities		<u>60,134</u>	<u>-</u>	<u>60,134</u>	<u>70,956</u>
Other	6	<u>4,041</u>	<u>-</u>	<u>4,041</u>	<u>3,502</u>
Total		<u>64,175</u>	<u>-</u>	<u>64,175</u>	<u>74,657</u>
NET INCOME/(EXPENDITURE)		(2,224)	-	(2,224)	39,611
RECONCILIATION OF FUNDS					
Total funds brought forward		<u>135,477</u>	<u>16,861</u>	<u>152,338</u>	<u>112,727</u>
TOTAL FUNDS CARRIED FORWARD		<u><u>133,253</u></u>	<u><u>16,861</u></u>	<u><u>150,114</u></u>	<u><u>152,338</u></u>

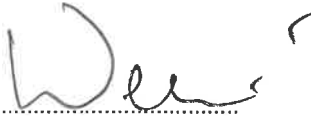
The notes form part of these financial statements

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

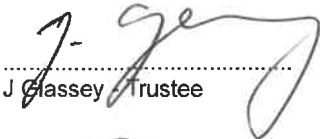
**STATEMENT OF FINANCIAL POSITION
31 December 2024**

	Notes	Unrestricted fund €	Restricted fund €	2024 Total funds €	2023 Total funds €
CURRENT ASSETS					
Debtors	8	29,026	-	29,026	32,399
Cash at bank		<u>188,094</u>	<u>16,861</u>	<u>204,955</u>	<u>202,006</u>
		217,120	16,861	233,981	234,405
CREDITORS					
Amounts falling due within one year	9	(83,867)	-	(83,867)	(82,067)
NET CURRENT ASSETS		<u>133,253</u>	<u>16,861</u>	<u>150,114</u>	<u>152,338</u>
TOTAL ASSETS LESS CURRENT LIABILITIES		<u>133,253</u>	<u>16,861</u>	<u>150,114</u>	<u>152,338</u>
NET ASSETS		<u>133,253</u>	<u>16,861</u>	<u>150,114</u>	<u>152,338</u>
FUNDS					
Unrestricted funds	10			133,253	135,477
Restricted funds				<u>16,861</u>	<u>16,861</u>
TOTAL FUNDS				<u>150,114</u>	<u>152,338</u>

The financial statements were approved by the Board of Trustees and authorised for issue on 6/9/25 and were signed on its behalf by:



G Veronesi - Trustee



J Glassey - Trustee



B Schuur - Trustee

The notes form part of these financial statements

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS
for the year ended 31 December 2024**

1. ACCOUNTING POLICIES

Basis of preparing the financial statements

The financial statements of the charity, which is a public benefit entity under FRS 102, have been prepared in accordance with the Charities SORP (FRS 102) 'Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019)', Financial Reporting Standard 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' and the Charities Act 2011. The financial statements have been prepared under the historical cost convention.

The presentational currency of this charity is Euros because this is also the functional currency.

The charity has taken advantage of the following disclosure exemption in preparing these financial statements, as permitted by FRS 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland':

- the requirements of Section 7 Statement of Cash Flows.

Income

Licence fees and subscription income is recognised in the Statement of Financial Activities once the charity has entitlement to the funds, it is probable that the income will be received and the amount can be measured reliably.

Expenditure

Liabilities are recognised as expenditure as soon as there is a legal or constructive obligation committing the charity to that expenditure, it is probable that a transfer of economic benefits will be required in settlement and the amount of the obligation can be measured reliably. Expenditure is accounted for on an accruals basis and has been classified under headings that aggregate all cost related to the category. Where costs cannot be directly attributed to particular headings they have been allocated to activities on a basis consistent with the use of resources.

Taxation

The charity is exempt from tax on its charitable activities.

Fund accounting

Unrestricted funds can be used in accordance with the charitable objectives at the discretion of the trustees.

Restricted funds can only be used for particular restricted purposes within the objects of the charity. Restrictions arise when specified by the donor or when funds are raised for particular restricted purposes.

Further explanation of the nature and purpose of each fund is included in the notes to the financial statements.

Foreign currencies

At each year end foreign currency monetary items are translated using the closing rate. Non-monetary items measured at historical cost are translated using the exchange rate at the date of the transaction and non-monetary items measured at fair value are measured using the exchange rate when fair value was determined.

Foreign exchange gains and losses resulting from the settlement of transactions and from the translation at the year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the statement of financial activities.

Financial instruments

The charity has chosen to adopt the Sections 11 and 12 of FRS 102 in respect of financial instruments.

(i) Financial assets

Basic financial assets, including debtors and cash and bank balances are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the transaction is measured at the present value of the future receipts discounted at a market rate of interest.

(ii) Financial liabilities

Basic financial liabilities, including creditors are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future payments discounted at a market rate of interest.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2024**

1. ACCOUNTING POLICIES - continued

Cash and cash equivalents

Cash and cash equivalents are represented by cash in hand, deposits held at call with financial institutions, and other short-term highly liquid investments that mature in no more than three months from the date of acquisition and that are readily convertible to known amounts of cash with insignificant risk of change in value.

Critical accounting estimates and assumptions

The charity makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

(i) Impairment of debtors

The charity makes an estimate of the recoverable value of trade and other debtors. When assessing impairment of trade and other debtors, the trustees consider factors including the current credit rating of the debtor, the ageing profile of debtors and historical experience.

2. INCOME FROM CHARITABLE ACTIVITIES

		2024	2023
	Activity	€	€
Subscription income	Charitable activities	35,344	35,423
Licence fee	Charitable activities	23,607	52,345
Sponsorship	Charitable activities	3,000	26,500
		<u>61,951</u>	<u>114,268</u>

3. RAISING FUNDS

Other trading activities

	2024	2023
	€	€
Bad debts	<u>-</u>	<u>185</u>

4. CHARITABLE ACTIVITIES COSTS

	Direct Costs (see note 5) €	Support costs €	Totals €
Resources expended	<u>60,134</u>	<u>-</u>	<u>60,134</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2024**

5. DIRECT COSTS OF CHARITABLE ACTIVITIES

	2024	2023
	€	€
Sundries	-	772
Excellence awards	6,010	13,517
Working party grants	1,006	-
General secretarial	31,827	31,493
Memberships	1,100	1,100
UK secretarial fee	16,573	15,106
Scientific projects	2,075	-
Donations Paid	-	925
Lifetime recognition award	-	1,000
Behrens/ Villermaux Medal	-	544
Student mobility awards	-	6,499
Early career travel support	1,543	-
	<u>60,134</u>	<u>70,956</u>

6. OTHER

	2024	2023
	€	€
Independent examination fee	3,915	3,453
Exchange differences	79	49
Bank charges	47	14
	<u>4,041</u>	<u>3,516</u>

7. TRUSTEES' REMUNERATION AND BENEFITS

There were no trustees' remuneration or other benefits for the year ended 31 December 2024 nor for the year ended 31 December 2023.

Trustees' expenses

During the year, trustees received reimbursement of expenses of €4,152 (2023: €3,555) for travel and other expenses.

8. DEBTORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2024	2023
	€	€
Trade debtors	23,554	30,137
Prepayments and accrued income	5,472	2,262
	<u>29,026</u>	<u>32,399</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2024**

9. CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2024	2023
	€	€
Trade creditors	35,491	36,472
Other creditors	-	11,004
Accruals and deferred income	<u>48,376</u>	<u>34,591</u>
	<u>83,867</u>	<u>82,067</u>

10. MOVEMENT IN FUNDS

	At 1/1/24	Net movement in funds	At 31/12/24
	€	€	€
Unrestricted funds			
General fund	135,477	(2,224)	133,253
Restricted funds			
Restricted Fund	16,861	-	16,861
	<u>152,338</u>	<u>(2,224)</u>	<u>150,114</u>

Net movement in funds, included in the above are as follows:

	Incoming resources	Resources expended	Movement in funds
	€	€	€
Unrestricted funds			
General fund	61,951	(64,175)	(2,224)
	<u>61,951</u>	<u>(64,175)</u>	<u>(2,224)</u>

Comparatives for movement in funds

	At 1/1/23	Net movement in funds	At 31/12/23
	€	€	€
Unrestricted funds			
General fund	94,866	40,611	135,477
Restricted funds			
Restricted Fund	17,861	(1,000)	16,861
	<u>112,727</u>	<u>39,611</u>	<u>152,338</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2024**

10. MOVEMENT IN FUNDS - continued

Comparative net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	114,268	(73,657)	40,611
Restricted funds			
Restricted Fund	-	(1,000)	(1,000)
	<u>114,268</u>	<u>(74,657)</u>	<u>39,611</u>
TOTAL FUNDS	<u>114,268</u>	<u>(74,657)</u>	<u>39,611</u>

A current year 12 months and prior year 12 months combined position is as follows:

	At 1/1/23 €	Net movement in funds €	At 31/12/24 €
Unrestricted funds			
General fund	94,866	38,387	133,253
Restricted funds			
Restricted Fund	17,861	(1,000)	16,861
	<u>112,727</u>	<u>37,387</u>	<u>150,114</u>
TOTAL FUNDS	<u>112,727</u>	<u>37,387</u>	<u>150,114</u>

A current year 12 months and prior year 12 months combined net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	176,219	(137,832)	38,387
Restricted funds			
Restricted Fund	-	(1,000)	(1,000)
	<u>176,219</u>	<u>(138,832)</u>	<u>37,387</u>
TOTAL FUNDS	<u>176,219</u>	<u>(138,832)</u>	<u>37,387</u>

11. RELATED PARTY DISCLOSURES

There were no related party transactions for the year ended 31 December 2024.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**DETAILED STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2024**

	2024 €	2023 €
INCOME AND ENDOWMENTS		
Charitable activities		
Subscription income	35,344	35,423
Licence fee	23,607	52,345
Sponsorship	<u>3,000</u>	<u>26,500</u>
	<u>61,951</u>	<u>114,268</u>
Total incoming resources	61,951	114,268
EXPENDITURE		
Other trading activities		
Bad debts	-	185
Charitable activities		
Sundries	-	772
Excellence awards	6,010	13,517
Working party grants	1,006	-
General secretarial	31,827	31,493
Memberships	1,100	1,100
UK secretarial fee	16,573	15,106
Scientific projects	2,075	-
Donations Paid	-	925
Lifetime recognition award	-	1,000
Behrens/ Villermaux Medal	-	544
Student mobility awards	-	6,499
Early career travel support	<u>1,543</u>	<u>-</u>
	60,134	70,956
Other		
Independent examination fee	3,915	3,453
Exchange differences	<u>79</u>	<u>49</u>
	3,994	3,502
Support costs		
Finance		
Bank charges	<u>47</u>	<u>14</u>
Total resources expended	<u>64,175</u>	<u>74,657</u>
Net (expenditure)/income	<u>(2,224)</u>	<u>39,611</u>

This page does not form part of the statutory financial statements

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

England & Wales - Charity number 1159541

Accounts

**REPORT OF THE TRUSTEES AND
UNAUDITED FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2023
FOR
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ
Magma Audit LLP part
of the Dains Group

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**CONTENTS OF THE FINANCIAL STATEMENTS
for the year ended 31 December 2023**

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Detailed Statement of Financial Activities	23

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

Key Achievements during 2023

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 national 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.

2023 was the first full year of normality after the long period of restrictions to travel and meetings in person due to the COVID pandemic: scientific conferences, seminars, workshops, etc. were held with a physical presence of participants, some of them with record attendance, like the ESCAPE 33 conference by the CAPE Working Party in Athens.

The experience gained in organising web events made it possible to maintain some online activities, which have many advantages in terms of time, cost, environmental impact and inclusivity, and which make EFCE events more accessible to people who may not be able to attend in-person events.

In 2023 we continued with the EFCE Spotlight Talk webinars organized on topics selected by Working Parties (WPs) and Sections. Many thanks to EFCE's Scientific Secretariat, led by Prof. Martine Poux, who coordinated them from the initial phase to their conclusion.

During 2023 EFCE established a new Section for Early Career Chemical Engineers and reactivated the Section on Sustainability. The Early Career Section presented their first activity plan at EFCE Board in Milan in April 2023 and actively pursued them during 2023. The reactivated Sustainability Section held its inaugural meeting during the ECCE/ECAB conference in Berlin in September 2023.

The highlight of the year was the ECCE/ECAB conference; further details follow later in this report.

The Presidents and Vice-Presidents of EFCE and ESBES met in Paris in December to coordinate common activities and discuss the organization of the ECCE/ECAB 2025 conference, to be held in Lisbon in September 2025.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

OBJECTIVES AND ACTIVITIES

Working parties and sections

EFCE has twenty Working Parties and seven Sections, whose activities span organising conferences, promoting and judging awards, and running summer courses for PhD students. The Working Parties and Sections 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; email: stefan.heinrich@tuhh.de

- Characterisation of Particulate Systems

Chair: Prof. Martin MORGENEYER, Compiègne/FR; email: martin.morgeneyer@utc.fr

- Chemical Reaction Engineering

Chair: Prof. Kai-Olaf HINRICHSEN, Garching/DE; email: hinrichsen@tum.de

- Comminution and Classification

Chair: Prof. Arno KWADE, Braunschweig/DE; email: a.kwade@tu-bs.de

- Computer Aided Process Engineering

Chair: Prof. Flavio MANENTI, Milano/IT; email: flavio.manenti@polimi.it

- Crystallization

Chair: Prof. Daniele MARCHISIO, Torino/IT; email: daniele.marchisio@polito.it

- Drying

Chair: Prof. Angélique LEONARD, Liège/BE; email: a.leonard@ulg.ac.be

- Education

Chair: Dr. Hermann J. FEISE, Ludwigshafen/DE; email: herman.feise@basf.com

- Electrochemical Engineering

Chair: Prof. Karel BOUZEK, Prague/CZ; email: karel.bouzek@vscht.cz

- Fluid Separations

Chair: Prof. Harry KOOIJMAN, Amsterdam/NL; email: Harry.Kooijman@shell.com and

Potsdam/USA; email: kooijman@clarkson.edu

- High Pressure Technology

Chair: Prof. Maria Jose COCERO ALONSO, Valladolid/ES; email: mjcocero@iq.uva.es

- Loss Prevention and Safety Promotion

Chair: Prof. Bruno FABIANO, Genoa/IT; email: brown@unige.it

- Mechanics of Particulate Solids

Chair: Prof. Diego BARLETTA, Fisciano (SA), Italy; email: dbarletta@unisa.it

- Mixing

Chair: Dr. Joëlle AUBIN, Toulouse/FR; email: joelle.aubin@toulouse-inp.fr

- Multiphase Fluid Flow

Chair: Prof. Michael SCHLÜTER, Hamburg/DE; email: michael.schlueter@tuhh.de

- Polymer Reaction Engineering

Chair: Prof. Markus BUSCH, Darmstadt/DE; email: markus.busch@pre.tu-darmstadt.de

- Process Intensification

Chair: Prof. Georgios STEFANIDIS, Athens/GR; email: gstefani@mail.ntua.gr

- Quality by Design

Chair: Prof. Christoph HERWIG, Wien/AT; email: christoph.herwig@lialis.at

- Static Electricity in Industry

Chair: Prof. Petro LLOVERA SEGOVIA, Paterna/ES; email: pedro.llovera@ite.es

- Thermodynamics and Transport Properties

Chair: Prof. Maria Grazia DE ANGELIS, Edinburgh/UK; email: grazia.deangelis@ed.ac.uk

SECTIONS

- Energy

Co-Chairs: Prof. Valerio COZZANI, Bologna/IT; e-mail: valerio.cozzani@unibo.it and Dr. Jan VERSTRAETE, Solaize/FR; email: jan.verstraete@ifpen.fr

- Food

Chair: Dr.-Ing. Volker HEINZ, Quakenbrueck/DE; email: v.heinz@dil-ev.de

- Membrane Engineering

Chair: Prof. Enrico DRIOLI, Arcavacata di Rende/IT; email: e.drioli@itm.cnr.it

- Product Design and Engineering

Chair: Dr. Francesco PICCHIONI, Groningen/NL; email: f.picchioni@rug.nl

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2023

- Chemical Engineering as Applied to Medicine

Chair: Prof. Tomasz SOSNOWSKI, Warsaw/PL; email: tomasz.sosnowski@pw.edu.pl

- Early Career Chemical Engineers

Chair: Mr. Gabriele VERRECCHIA, Campagnano di Roma/IT; e-mail: g.verrecchia5@gmail.com (until August 2023);
successor: Dr. Sofia GARCIA FRACARO, Darmstadt/DE; e-mail: sofia.garcia-fracaro@merckgroup.com (from
September 2023)

- Sustainability

Chair: Prof. Antonis KOKOSSIS, Athens/GR; e-mail: akokossis@chemeng.ntua.gr

Working Parties and Sections conduct their business throughout the year, and every group is expected to hold at least one meeting per year, either physically or online.

In 2023, Working Parties and Sections were strongly involved in the organisation of the 14th European Congress of Chemical Engineering (ECCE14) as well as in a broad range of other events, webinar series and conferences.

Impressions from ECCE14 & ECAB7

Under the motto "Chemical and Biochemical Engineering - Acting Together", EFCE and ESBES, together with DECHEMA, welcomed the chemical and biochemical engineering community to the 14th European Congress of Chemical Engineering and 7th European Congress of Applied Biotechnology which took place in Berlin, Germany, on 17-21 September 2023. ECCE14 & ECAB7 attracted 1200 participants from 48 countries and 34 sponsors and exhibitors, with BASF as the gold sponsor.

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 Benjamin List, winner of the 2021 Nobel Prize in chemistry. In his ceremonial lecture on organocatalysis, List showed how one can achieve remarkable feats using perseverance and scientific curiosity.

The importance of "Acting together", the motto of this conference, was evident from the themes of the eight plenary lectures and 24 keynotes, with topics ranging 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.

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

The poster party on Monday evening was particularly lively, giving participants the opportunity to learn first-hand about the researchers' results. Representatives of EFCE's Early Career Chemical Engineers Section welcomed the first EFCE Travel Grant winner, Alper Koyuncu.

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.

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

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.

From 8 to 10 September 2025, EFCE, ESBES, their Portuguese member organisations and DECHEMA e.V. invite you to ECCE15 & ECAB 8.

We are looking forward to it!

EFCE events of 2023:

-VIII International Congress "Engineering, Environment and Materials in Process Industry
Mountain of Jahorina, Bosnia and Herzegovina, 20 - 23 March 2023 (EFCE Event No. 789)

-16th European PhD Workshop on Food Engineering and Technology
Copenhagen, Denmark, 9-10 May 2023

-5th EFCE Spotlight Talks Series

Online, 24 May - 5 June 2023

-15th Mediterranean Congress of Chemical Engineering - MECCE
Barcelona, Spain, 29 May - 2 June 2023 (EFCE Event No. 788)

-8th European Process Intensification Conference - EPIC 2023

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

Warsaw, Poland, 31 May - 2 June 2023 (EFCE Event No. 795)
-11th World Congress of Chemical Engineering - WCCE11
Buenos Aires, Argentina, 4 - 8 June 2023
-33rd European Symposium on Computer Aided Process Engineering (ESCAPE-33)
Athens, Greece, 18 - 21 June 2023 (EFCE Event No. 794)
-13th European Symposium on Electrochemical Engineering (ESEE 2023)
Toulouse, France, 26 - 29 June 2023 (EFCE Event No. 793)
-17th European Conference on Mixing
Porto, Portugal, 2 - 5 July 2023 (EFCE Event No. 773)
-EuroDrying 2023
Lodz, Poland, 4 - 7 July 2023 (EFCE Event No. 791)
-ECCE14 & ECAB 7
Berlin, Germany, 17 - 21 September 2023 (EFCE Event No. 782 - see report)
-2nd International Conference on Energy, Environment & Digital Transition - E2DT 2023
Palermo, Italy, 22 - 25 October 2023 (EFCE Event No. 797)
-EFCE Forum 2023
Palermo, Italy, 25 October 2023

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

Awards

Excellence Awards

Jacques Villermaux Medal 2023

Federation awarded its prestigious Jacques Villermaux Medal to Professor David Bogle, University College London, United Kingdom.

He has been conferred the medal in recognition of his outstanding achievements within the remit of EFCE's science policy, in particular in his role as EFCE's Scientific Vice-President from 2018 to 2021. This includes his commitment to chemical engineering education and training, especially the development and publication of a report on The European Chemical Engineering Skills Pipeline. Furthermore, the award acknowledges his research in the fields of process systems engineering and systems biology and his services to the related EFCE Working Party on CAPE and the new Section on Chemical Engineering as Applied to Medicine.

The Medal was presented to him in Berlin, Germany, on Monday, 18 September 2023 during the Opening Ceremony of ECCE14 & ECAB7.

Introduced in 1998, the Jacques Villermaux Medal is presented every four years to recognise "scientific achievements within the context of the Federation's science policy, working parties, conference programme or other related activities."

EFCE Lifetime Achievement Award (LAA) 2023

The EFCE Lifetime Achievement Award 2023 was presented to Professor Alberto Brucato, University of Palermo, Italy, during the Opening Ceremony of ECCE14 & ECAB7 in Berlin, Germany on 18 September 2023.

This Award is made in recognition of his continuous and outstanding contribution to the progress of mixing research, modelling and application, chemical plant design and biochemical engineering in Italy and internationally for more than 40 years. The award acknowledges in particular his substantial contribution to raising the profile of the field, of the Italian Association of Chemical Engineering (AIDIC), and the Federation through his research of high quality, international collaborations, education and training of engineers and students, and his commitment to the EFCE Working Party on Mixing.

The EFCE Lifetime Achievement Award (LAA) is given to an individual in recognition of her/his sustained and outstanding contribution to the progress of Chemical Engineering in general and on specific topics covered by the EFCE Working Parties (WPs) and Sections in particular, over a period of at least 20 years. The Award acknowledges the candidates' substantial dedication to raising the profile of the field of Chemical Engineering and the EFCE through research and teaching, organisation of conferences and workshops, effort towards the auspicious prospect of the community, and commitment to the WPs and/or Sections of the EFCE. The Award is only given at the occasion of ECCE events (European Congress of Chemical Engineering, organised every two years), and only to one candidate per event.

P. V. Danckwerts Memorial Lecture 2023

The 2023 P.V. Danckwerts Memorial Lecture was presented by Professor Jens Nielsen, BioInnovation Institute, Copenhagen, Denmark, and Chalmers University of Technology, Gothenburg, Sweden. He delivered the lecture at ECCE14 & ECAB7 in Berlin, Germany, on 19 September 2023. The title of the presentation was 'Systems Biology of Yeast Metabolism'.

The P. V. Danckwerts Memorial Lecture was established in 1985 to honour Prof. Peter V. Danckwerts as a leading scholar in the field of chemical engineering and for his contributions as an Executive Editor of Chemical Engineering Science, the second Shell Professor of Chemical Engineering at the University of Cambridge, and a past president of the Institution of Chemical Engineers. The Danckwerts Lecture is co-sponsored by Chemical Engineering Science, IChemE, AIChE, and EFCE, and is presented in alternating years at the ECCE and AIChE Annual Meetings.

EFCE Process Intensification Award for Industrial Innovation 2023

The 2023 EFCE Process Intensification Award for Industrial Innovation, sponsored by the European Process Intensification Centre - EUROPIC, has been awarded to the innovation "Continuous production of a functional Consumer Care ingredient" developed by Croda International Plc in the United Kingdom.

Croda has successfully converted the batch production of one of Croda's key personal care products into continuous production using NiTech continuous reactor. This was achieved through collaborative development involving four organisations to understand and overcome the technical challenges required to move from a batch to continuous process.

The award was presented on 31 May 2023 at the 8th European Process Intensification Conference - EPIC 8, held in Warsaw, Poland, on 31 May - 2 June 2023. Croda colleagues involved in the innovation gave a presentation on 2 June 2023.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

OBJECTIVES AND ACTIVITIES

Launched in 2015, the biennial EFCE Process Intensification Award for Industrial Innovation is presented to an employee or a team of employees of a company, who have made excellent contributions to industrial application of process intensification.

Excellence Awards 2023

EFCE Excellence Awards recognise PhD theses 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 2023, EFCE gave the following awards:

Dr. Andrés Pina-Martinez

2023 Excellence Award in Thermodynamics and Transport Properties

for his PhD thesis on "Cubic and higher order equations of state for fluid mixtures: Development, parameterization and validation through industrial energy conversion applications" performed at Université de Lorraine, France, under the supervision of Professor Jean-Noël Jaubert.

Sponsor: BAYER AG



Dr. Matteo Antognoli

2023 Excellence Award in Process Intensification

for his PhD thesis on "Mixing and chemical reactions in microchannels: experimental and numerical analysis" completed at the University of Pisa, Italy, under the supervision of Prof. Elisabetta Brunazzi and Prof. Chiara Galletti.

Sponsor: Microinnova Engineering GmbH



**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

Dr. Davide Clematis

2023 Carl Wagner Medal of Excellence in Electrochemical Engineering

for his outstanding contributions to research in the field of applied electrochemistry and electrochemical engineering with a special focus on water treatment and energy conversion.

Sponsor: thyssenkrupp nucera



Dr. Margarida Brito

2023 Young Researcher Award in Mixing

for her excellent research in the field of mixing in terms of quality of his PhD thesis on "Mixing Mechanisms in 2D reactors", outstanding publications in international journals, international activities and network, and industrial significance of the scientific activity.

Sponsor: EKATO



Dr. Francesca Breveglieri

2023 Excellence Award in Crystallization

for her PhD thesis "Deracemization via batch temperature cycles - combining racemization and crystallization for chiral resolution" completed at the ETH Zurich, Switzerland, under the supervision of Professor Marco Mazzotti.



Student Mobility Award 2023

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

Alexandra Antunes - 1st prize

Alexandra Antunes completed her Master's thesis at the King Abdullah University of Science and Technology (KAUST), Saudia 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.



Ilaria Ceteroni - 2nd prize

Ilaria Ceteroni 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.



Kévin Péridon - 3rd prize

Kévin Péridon 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.



EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2023

Sponsored by BASF SE, the award was presented in Berlin, Germany, on 18 September 2023 during the Awards Session following the Opening of ECCE14 & ECAB7.

Presented biennially by the EFCE, the Student Mobility Award honours European chemical engineering students who have gained cross-cultural experiences by studying outside their home country for one semester or more.

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 by helping cover the travel costs for early career engineers who are either a member of EFCE's Early Career Chemical Engineers Section or an early career member of an EFCE member society.

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.



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

Other Awards

-The Working Party on Computer Aided Process Engineering presented its Award for CAPE Recent Innovative Contribution Award (RIC) to Professor Anton Kiss & Professor David Bogle ESCAPE-33 in Athens, Greece, in June 2023.

-The Working Party on Mixing presented the Alvin and Helen Lifetime Recognition Award in Mixing 2023 to Professor Alain Liné at the 17th European Conference on Mixing in Porto, Portugal, in July 2023 in recognition of his outstanding contribution to the advancement of mixing science.

Sponsors since 2021: Helen and Alvin Nienow († 5 November 2022)

-The Working Party on Electrochemical Engineering awarded Professor André Savall for his life-long outstanding achievements in the field of electrochemical engineering and applied electrochemistry. The Award was presented at the 13th European Symposium on Electrochemical Engineering in Toulouse, France, in June 2023.

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2023

2023 and beyond External Engagement

SusChem

SusChem is the European Platform for Sustainable Chemistry, and an EFCE trustee 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.

SusChem <https://suschem.org/> is represented on the European Commission's Task Force on the Transition Pathway for the Chemical Industry EU Chemical Industry Transition Pathway (cefic.org). The task force group on International Competitiveness is particularly looking at market pull and factors that influence consumer choices to support the uptake of CO₂, bio and waste products. The EC has published guidance for application of the Safe and Sustainable by Design (SSbD) framework GROW-2024-00145-00-00-EN-EDT-00.pdf (europa.eu) for which SusChem had input. There are considerable potential investment opportunities from the European Investment Bank: €20Bn for Innovation, Digital and Human Capital, €26.8Bn for Sustainable and Natural Resources, €21.33 Bn for Sustainable cities and regions and €19.96Bn for SMEs and mid-Caps, all of which have potential opportunities for the Chemical Industry Transition pathway. They have funded projects in the construction of an enzymatic recycling demonstration plant for PET and of biodegradable plastics and R&D on new catalyst technology for innovative hydrogen technologies.

The IRISS project <https://iriss-ssbd.eu/iriss/about-iriss> was initiated by SusChem and is underway co-ordinated by Emma Stromberg of the Swedish Environmental Research Institute. The IRISS project aims to connect, synergize and transform the Safe-and-Sustainable-by-Design (SSbD) community in Europe and globally towards a lifecycle approach. One of its work packages is on education and skills and they are working with the EFCE 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 is available at <https://www.spire2030.eu/news/new/p4planet-roadmap-2050-advanced-working-version>. The 'Processes4Planets' roadmap has significantly influenced the work programmes in the new DGRTD Framework Programme calls. A-SPIRE has fostered many projects relevant to the process industries which can be seen at <https://www.aspire2050.eu/projects/our-spire-projects>.

New Section activities

Formation of New Section - Chemical Engineering as Applied to Medicine

Chemical Engineering as Applied to Medicine

The Section Chemical Engineering as Applied to Medicine was formed at the very end of 2022, with Tomasz Sosnowski (Warsaw University of Technology, Poland) as chair and Davide Manca (Politecnico di Milano, Italy) as secretary. The Section contributed to the 2023 Spotlight Talks series with an overview of the current challenges and opportunities, featuring contributions on the metabolic clearance of uremic toxins in the artificial kidney, how chemical engineering can inform new cancer treatments, a presentation on quantitative systems pharmacology, and a summary of chemical engineering as a toolkit for precision crystallisation, spherical agglomeration and the formulation of pharmaceuticals. The Section spent the remainder of 2023 preparing for a one-day conference, to be held in Italy in 2024.

Early Career Chemical Engineers

2023, the first full year of operations for the Early Career Chemical Engineers Section, was a great success. Activities included participating in the EFCE Spotlight Talk series with a presentation on Open Science, and raising awareness of EFCE in the early career community. The Section now has a dedicated webpage on the EFCE website and a LinkedIn profile, which by the end of the year had attracted 200 followers. In September, the Section conducted its inaugural meeting at the ECCE & ECAB conference in Berlin. Sofia Garcia Fracaro was voted Chair of the Section. Shortly after, the rest of the Section's Board Members were announced and took up office for the period of two years until 2025. Another major highlight was the Plenary Lecture award for Early Career ChemEng, which gave two awardees the opportunity to present their research with the community - Maria Papatthaniou at ECCE & ECAB in Berlin and Maximilian Kohns at E2DT in Palermo.

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2023

Sustainability

2023 saw significant progress in reactivating EFCE's Section on Sustainability. Following extensive preparatory work during the first half of the year, during which the general objectives, time lines and organizational structure were clarified, the Section had the first meeting in its new setup during the ECCE/ECAB Conference in Berlin. The attending members confirmed Antonis Kokossis as Chairman, François Nicol as Vice-Chairman and Seyed Mansouri as Secretary. The section's next meeting will be held online, to enable broad participation by interested members, and will aim to finalise the organization of its subsections.

Conferences

Spotlight Talks

The Spotlight talks are now seen by the community of practicing (bio)chemical and process engineers as an important means for sharing and disseminating the latest knowledge in chemical engineering science. This 5th series held in Spring 2023 (held from 24 May to 5 June 2023) included 8 webinars involving the following Working Parties and Sections: Characterization of Particulate Systems, Chemical Engineering as Applied to Medicine, Crystallization, Early Career Chemical Engineers, High Pressure Technology, Multiphase Fluid Flow, Quality by Design, Static Electricity in Industry, Thermodynamics and Transport Properties. In terms of participation, the average number of participants per webinar was 49 (389 in total), a very good number and quite stable now, which is equivalent or even higher than the number of participants in a thematic session at a generalist conference.

Since the start of the Spotlight Talks series, all the webinars have been recorded and made available on EFCE YouTube channel. In addition to the number of live participants, another indicator that shows the attractiveness and interest of the Spotlight Talks is the number of views of the videos. Most webinars reach a few hundred views, or even more than 700 for certain topics.

Administrative report

2023 was the ninth year of EFCE as a Charitable Incorporated Organisation. In 2023 we operated as normal, following the disruptions due to COVID-19 restrictions in 2020-21 and the Executive Board met in person in April in Milan and in September in Berlin. This provided the members of the Board a valuable opportunity to interact with their colleagues more effectively and carry out the elections and the welcome of new board members more personally.

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

During the year, invoicing, forecasting and payment of expenses were closely managed in order to keep the EFCE accounts under control. The membership fees were raised 3% to make up for rising costs, but still remained significantly below inflation levels.

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

Due to European sanctions against a number of Russian organisations and institutions in response to Russia's actions in Ukraine, the Boreskov Institute of Catalysis in Russia was removed from membership in Q3 of 2023. The EFCE Executive Board agreed to donate the Institute's 2023 membership fee to the International Red Cross to support humanitarian actions in Ukraine.

EFCE online presence in 2023 was strong and the positive impact of the Early Career Section in publicising particularly the Spotlight talks via various social media was clearly visible. A vibrant EFCE online presence is 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 2023 (http://efce.info/EFCE_Newsletter.html). In addition, pdf versions are published on EFCE's social media pages and press releases (<https://efce.info/News.html>) highlight other news, mainly relating to the various EFCE awards. Fifteen press releases were published in 2023.

EFCE's social media pages can be found at:

EFCE LinkedIn Group: http://bit.ly/EFCE_LinkedIn

Twitter: https://twitter.com/@EFCE_Comms

Facebook: <https://www.facebook.com/theEFCE>

YouTube: <https://www.youtube.com/channel/UCxuvfb5ST3DMHLawZ6326w>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2023**

Changes to the Board of Trustees

As all of EFCE's officers and trustees were in their second year of their two year terms in 2023, it was anticipated that there would be no changes to report for the executive board in 2023. However, Petr Kluson had to step down as Scientific Vice President for personal reasons in May 2023. Mike Considine volunteered to step up to fill the role for the second half of the year.

A General Assembly was held in September 2023, during which EFCE's member societies elected new officers and trustees who would start their two year terms in January 2024.

Giorgio Veronesi, proposal director with Techint Engineering & Construction in Italy, was elected for a second term as President. Jarka Glassey, professor of chemical engineering at Newcastle University, UK, was confirmed to serve a second term as Executive Vice-President. Boelo Schuur, professor of chemical engineering at University of Twente, Netherlands, was chosen as the new Scientific Vice President.

Other new members elected to the Executive Committee in 2023 are Giuseppe Bellussi (Italy), António Gonçalves da Silva (Portugal), Juraj Kosek (Czech Republic), Tomasz Sosnowski (Poland), and Laura Pirro (Belgium). Dr Pirro previous served on the Executive Board as a coopted member.

Giorgio Veronesi, President
Mike Considine, Scientific Vice-President
Jarka Glassey, Executive Vice-Presiden

STRUCTURE, GOVERNANCE AND MANAGEMENT

Governing document

The charity is controlled by its governing document, a deed of trust and constitutes an unincorporated charity.

Changes to the Board of Trustees

EFCE's member societies elected new officers and trustees at the General Assembly in 2021, resulting in a number of changes that took effect at the start of 2022.

Giorgio Veronesi, who previously served as Executive Vice-President, took the helm as President. Jarka Glassey joined the board as Executive Vice-President and Petr Kluson stepped up from ordinary trustee to the post of Scientific Vice-President.

Five members stepped down at the end of 2021, after completing their term - they are former President Hermann Feise, elected trustees Adisa Azapagic and Ferenc Friedler, as well as co-opted trustees Thaddeus Anim-Somuah and Hilke-Marie Lorenz. Additionally, Jon Prichard stepped down as appointed trustee in July 2022 as he was leaving IChemE.

In addition to the Executive Vice-President Jarka Glassey, new members joining the Board as elected trustees are Antonis Kokossis and Tomasz Sosnowski, alongside the new co-opted trustees Silvie Müller and Laura Pirro. Claudia Flavell-While was confirmed as the new appointed trustee representing IChemE.

Giorgio Veronesi, President

Petr Kluson, Scientific Vice-President

Jarka Glassey, Executive Vice-President

EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING

REPORT OF THE TRUSTEES
for the year ended 31 December 2023

REFERENCE AND ADMINISTRATIVE DETAILS

Registered Charity number
1159541

Principal address

Davis Building
165-189 Railway Terrace
Rugby
Warwickshire
CV21 3HQ

Trustees

M Considine
F Nicol
G Veronesi
C Flavell-White
D Bogle
P Piccione
~~P Kluson~~
M Wilk
A ten Kate
~~J L Prichard~~
E Schaer
A Pey
M Rovaglio
Dr J Glassey
A Kokossis
T R Sosnowski
A Förster
A Ramirez-Gomez
Mrs S Muller
Mrs L Pirro

Independent Examiner

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23

Approved by order of the board of trustees on²⁵⁻⁸⁻²⁴..... and signed on its behalf by:



.....
G Veronesi - Trustee

**INDEPENDENT EXAMINER'S REPORT TO THE TRUSTEES OF
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Independent Examiner's Report to the Trustees of European Federation of Chemical Engineers

I report to the trustees (who are also Directors for the purpose of company law) on my examination of the financial statements of European Federation of Chemical Engineers ('the charitable company') for the year ended 31 December 2023 which comprise the Statement of Financial Activities, the Balance Sheet and related notes.

This report is made solely to the charity's trustees, as a body, in accordance with section 145 of the Charities Act 2011. My work has been undertaken so that I might state to the charity's trustees those matters I am required to state to them in this report and for no other purpose. To the fullest extent permitted by law, I do not accept or assume responsibility to anyone other than the charity and the charity's trustees as a body, for my work, for this report, or for the opinions I have formed.

Responsibilities and basis of report

As the trustees of charitable company you are responsible for the preparation of the financial statements in accordance with the requirements of the Companies Act 2006 ('the 2006 Act').

Having satisfied myself that the financial statements of the charitable company are not required to be audited under Part 16 of the Act and are eligible for independent examination, I report in respect of my examination of the charitable company's financial statements carried out under section 145 of the Charities Act 2011 ('the 2011 Act') and in carrying out my examination I have followed all the applicable Directions given by the Charity Commission under section 145(5)(b) of the 2011 Act.

An independent examination does not involve gathering all the evidence that would be required in an audit and consequently does not cover all the matters that an auditor considers in giving their opinion on the financial statements. The planning and conduct of an audit goes beyond the limited assurance that an independent examination can provide. Consequently I express no opinion as to whether the financial statements present a 'true and fair' view and my report is limited to those specific matters set out in the independent examiner's statement.

Independent examiner's statement

I have completed my examination. I confirm that no material matters have come to my attention in connection with the examination giving me cause to believe that in any material respect:

- accounting records were not kept in respect of the charitable company as required by section 386 of the 2006 Act; or
- the financial statements do not accord with those records; or
- the financial statements do not comply with the accounting requirements of section 396 of the 2006 Act other than any requirement that the financial statements give a 'true and fair view which is not a matter considered as part of an independent examination; or
- the financial statements have not been prepared in accordance with the methods and principles of the Statement of Recommended Practice for accounting and reporting by charities applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102).

I have no concerns and have come across no other matters in connection with the examination to which attention should be drawn in this report in order to enable a proper understanding of the financial statements to be reached.

Magma Audit W

Victoria Craig

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ
Magma Audit LLP is part
of the Dains Group

Date:7.October.2024.....

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2023**

	Notes	Unrestricted fund €	Restricted fund €	2023 Total funds €	2022 Total funds €
INCOME AND ENDOWMENTS FROM					
Charitable activities					
Charitable activities	2	<u>114,268</u>	<u>-</u>	<u>114,268</u>	<u>71,543</u>
EXPENDITURE ON					
Raising funds	3	185	-	185	-
Charitable activities					
Resources expended	4	14	-	14	37
Charitable activities		<u>69,956</u>	<u>1,000</u>	<u>70,956</u>	63,518
Other	6	<u>3,502</u>	<u>-</u>	<u>3,502</u>	<u>2,301</u>
Total		<u>73,657</u>	<u>1,000</u>	<u>74,657</u>	<u>65,856</u>
NET INCOME/(EXPENDITURE)		40,611	(1,000)	39,611	5,687
RECONCILIATION OF FUNDS					
Total funds brought forward		<u>94,866</u>	<u>17,861</u>	<u>112,727</u>	107,040
TOTAL FUNDS CARRIED FORWARD		<u>135,477</u>	<u>16,861</u>	<u>152,338</u>	<u>112,727</u>

The notes form part of these financial statements


EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING

STATEMENT OF FINANCIAL POSITION
31 December 2023

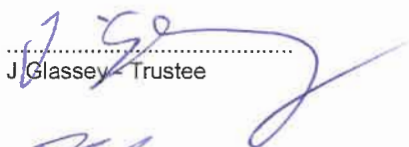
	Notes	Unrestricted fund €	Restricted fund €	2023 Total funds €	2022 Total funds €
CURRENT ASSETS					
Debtors	8	32,399	-	32,399	9,668
Cash at bank		<u>185,145</u>	<u>16,861</u>	<u>202,006</u>	<u>115,009</u>
		217,544	16,861	234,405	124,677
CREDITORS					
Amounts falling due within one year	9	(82,067)	-	(82,067)	(5,895)
NET CURRENT ASSETS		<u>135,477</u>	<u>16,861</u>	<u>152,338</u>	<u>118,782</u>
TOTAL ASSETS LESS CURRENT LIABILITIES		135,477	16,861	152,338	118,782
PROVISIONS FOR LIABILITIES	10	-	-	-	(6,055)
NET ASSETS		<u>135,477</u>	<u>16,861</u>	<u>152,338</u>	<u>112,727</u>
FUNDS					
Unrestricted funds	11			135,477	94,866
Restricted funds				<u>16,861</u>	<u>17,861</u>
TOTAL FUNDS				<u>152,338</u>	<u>112,727</u>

The financial statements were approved by the Board of Trustees and authorised for issue on and were signed on its behalf by:

25-8-24



.....
G Veronesi - Trustee


.....
J Glassey - Trustee


.....
P Kluson - Trustee

B Schuur

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS
for the year ended 31 December 2023**

1. ACCOUNTING POLICIES

Basis of preparing the financial statements

The financial statements of the charity, which is a public benefit entity under FRS 102, have been prepared in accordance with the Charities SORP (FRS 102) 'Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019)', Financial Reporting Standard 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' and the Charities Act 2011. The financial statements have been prepared under the historical cost convention.

The presentational currency of this charity is Euros because this is also the functional currency.

The charity has taken advantage of the following disclosure exemption in preparing these financial statements, as permitted by FRS 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland':

- the requirements of Section 7 Statement of Cash Flows.

Income

Licence fees and subscription income is recognised in the Statement of Financial Activities once the charity has entitlement to the funds, it is probable that the income will be received and the amount can be measured reliably.

Expenditure

Liabilities are recognised as expenditure as soon as there is a legal or constructive obligation committing the charity to that expenditure, it is probable that a transfer of economic benefits will be required in settlement and the amount of the obligation can be measured reliably. Expenditure is accounted for on an accruals basis and has been classified under headings that aggregate all cost related to the category. Where costs cannot be directly attributed to particular headings they have been allocated to activities on a basis consistent with the use of resources.

Taxation

The charity is exempt from tax on its charitable activities.

Fund accounting

Unrestricted funds can be used in accordance with the charitable objectives at the discretion of the trustees.

Restricted funds can only be used for particular restricted purposes within the objects of the charity. Restrictions arise when specified by the donor or when funds are raised for particular restricted purposes.

Further explanation of the nature and purpose of each fund is included in the notes to the financial statements.

Foreign currencies

At each year end foreign currency monetary items are translated using the closing rate. Non-monetary items measured at historical cost are translated using the exchange rate at the date of the transaction and non-monetary items measured at fair value are measured using the exchange rate when fair value was determined.

Foreign exchange gains and losses resulting from the settlement of transactions and from the translation at the year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the statement of financial activities.

Financial instruments

The charity has chosen to adopt the Sections 11 and 12 of FRS 102 in respect of financial instruments.

(i) Financial assets

Basic financial assets, including debtors and cash and bank balances are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the transaction is measured at the present value of the future receipts discounted at a market rate of interest.

(ii) Financial liabilities

Basic financial liabilities, including creditors are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future payments discounted at a market rate of interest.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2023**

1. ACCOUNTING POLICIES - continued

Financial instruments

Cash and cash equivalents

Cash and cash equivalents are represented by cash in hand, deposits held at call with financial institutions, and other short-term highly liquid investments that mature in no more than three months from the date of acquisition and that are readily convertible to known amounts of cash with insignificant risk of change in value.

Critical accounting estimates and assumptions

The charity makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

(i) Impairment of debtors

The charity makes an estimate of the recoverable value of trade and other debtors. When assessing impairment of trade and other debtors, the trustees consider factors including the current credit rating of the debtor, the ageing profile of debtors and historical experience.

2. INCOME FROM CHARITABLE ACTIVITIES

		2023	2022
	Activity	€	€
Subscription income	Charitable activities	35,423	34,158
Licence fee	Charitable activities	52,345	11,024
Lifetime Recognition Award	Charitable activities	-	17,861
Sponsorship	Charitable activities	26,500	8,500
		<u>114,268</u>	<u>71,543</u>

3. RAISING FUNDS

Other trading activities

	2023	2022
	€	€
Bad debts	<u>185</u>	<u>-</u>

4. CHARITABLE ACTIVITIES COSTS

	Direct Costs (see note 5) €	Support costs €	Totals €
Resources expended	-	14	14
Charitable activities	<u>70,956</u>	<u>-</u>	<u>70,956</u>
	<u>70,956</u>	<u>14</u>	<u>70,970</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2023**

5. DIRECT COSTS OF CHARITABLE ACTIVITIES

	2023	2022
	€	€
Sundries	772	456
Excellence awards	13,517	6,300
Working party grants	-	1,000
General secretarial	31,493	30,000
Memberships	1,100	1,000
UK secretarial fee	15,106	12,996
Scientific projects	-	1,354
Donations Paid	925	10,412
Lifetime recognition award	1,000	-
Behrens/ Villermaux Medal	544	-
Student mobility awards	6,499	-
	<u>70,956</u>	<u>63,518</u>

6. OTHER

	2023	2022
	€	€
Independent examination fee	3,453	2,448
Exchange Differences	49	(147)
	<u>3,502</u>	<u>2,301</u>

7. TRUSTEES' REMUNERATION AND BENEFITS

There were no trustees' remuneration or other benefits for the year ended 31 December 2023 nor for the year ended 31 December 2022.

Trustees' expenses

During the year, trustees received reimbursement of expenses of €3,555 (2022: €2,383) for travel and other expenses.

8. DEBTORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2023	2022
	€	€
Trade debtors	30,137	9,668
Prepayments and accrued income	2,262	-
	<u>32,399</u>	<u>9,668</u>

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2023**

9. CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2023	2022
	€	€
Trade creditors	36,472	519
Other creditors	11,004	-
Accruals and deferred income	<u>34,591</u>	<u>5,376</u>
	<u>82,067</u>	<u>5,895</u>

10. PROVISIONS FOR LIABILITIES

	2023	2022
	€	€
Provisions	<u>-</u>	<u>6,055</u>

11. MOVEMENT IN FUNDS

	At 1/1/23	Net movement in funds	At
	€	€	31/12/23 €
Unrestricted funds			
General fund	94,866	40,611	135,477
Restricted funds			
Restricted Fund	17,861	(1,000)	16,861
	<u>112,727</u>	<u>39,611</u>	<u>152,338</u>

Net movement in funds, included in the above are as follows:

	Incoming resources	Resources expended	Movement in funds
	€	€	€
Unrestricted funds			
General fund	114,268	(73,657)	40,611
Restricted funds			
Restricted Fund	-	(1,000)	(1,000)
	<u>114,268</u>	<u>(74,657)</u>	<u>39,611</u>

Comparatives for movement in funds

	At 1/1/22	Net movement in funds	At
	€	€	31/12/22 €
Unrestricted funds			
General fund	107,040	(12,174)	94,866
Restricted funds			
Restricted Fund	-	17,861	17,861
	<u>107,040</u>	<u>5,687</u>	<u>112,727</u>

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2023**

11. MOVEMENT IN FUNDS - continued

Comparative net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	53,682	(65,856)	(12,174)
Restricted funds			
Restricted Fund	17,861	-	17,861
	<u>71,543</u>	<u>(65,856)</u>	<u>5,687</u>

A current year 12 months and prior year 12 months combined position is as follows:

	At 1/1/22 €	Net movement in funds €	At 31/12/23 €
Unrestricted funds			
General fund	107,040	28,437	135,477
Restricted funds			
Restricted Fund	-	16,861	16,861
	<u>107,040</u>	<u>45,298</u>	<u>152,338</u>

A current year 12 months and prior year 12 months combined net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	167,950	(139,513)	28,437
Restricted funds			
Restricted Fund	17,861	(1,000)	16,861
	<u>185,811</u>	<u>(140,513)</u>	<u>45,298</u>

12. RELATED PARTY DISCLOSURES

There were no related party transactions for the year ended 31 December 2023.

**EUROPEAN FEDERATION OF CHEMICAL
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**DETAILED STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2023**

	2023 €	2022 €
INCOME AND ENDOWMENTS		
Charitable activities		
Subscription income	35,423	34,158
Licence fee	52,345	11,024
Lifetime Recognition Award	-	17,861
Sponsorship	<u>26,500</u>	<u>8,500</u>
	114,268	71,543
Total incoming resources	114,268	71,543
EXPENDITURE		
Other trading activities		
Bad debts	185	-
Charitable activities		
Sundries	772	456
Excellence awards	13,517	6,300
Working party grants	-	1,000
General secretarial	31,493	30,000
Memberships	1,100	1,000
UK secretarial fee	15,106	12,996
Scientific projects	-	1,354
Donations Paid	925	10,412
Lifetime recognition award	1,000	-
Behrens/ Villermaux Medal	544	-
Student mobility awards	<u>6,499</u>	<u>-</u>
	70,956	63,518
Other		
Independent examination fee	3,453	2,448
Exchange Differences	<u>49</u>	<u>(147)</u>
	3,502	2,301
Support costs		
Finance		
Bank charges	<u>14</u>	<u>37</u>
Total resources expended	74,657	65,856
Net income	<u>39,611</u>	<u>5,687</u>

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

England & Wales - Charity number 1159541

Accounts

**REPORT OF THE TRUSTEES AND
UNAUDITED FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022
FOR
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ**

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

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for the year ended 31 December 2022**

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**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2022**

Key Achievements during 2022

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 national 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.

2022 was the year of gradual return to normality after the long period of restrictions to travel and meetings in person due to the COVID pandemic: scientific conferences, seminars, workshops, etc. restarted to be held with a physical presence of participants.

On the other hand, the experience gained in 2020 and 2021 in organising web events made it possible to maintain some online activities, which have many advantages in terms of time, cost, environmental impact and inclusivity, as they make EFCE events more accessible to people who may not be able to attend an in-person event.

In particular, the EFCE Spotlight Talks webinars, organised by EFCE Working Parties (WPs) and Sections on topics selected by the WPs and Sections, have been a great success and became a regular feature of EFCE's calendar. Thanks to EFCE's Scientific Secretariat, led by Prof. Martine Poux of Toulouse, who coordinated them from the conceptual phase to their conclusion.

EFCE Management and Executive Boards therefore decided to include the Spotlight Talks in the regular yearly program of EFCE, organising two series (spring and autumn) in even years. In odd years, there will be only one series, held in spring each year, to avoid overlap with ECCE/ECAB European Conference, which takes place in the autumn.

During 2022 EFCE established a new Section, titled "Chemical Engineering as Applied to Medicine". In line with EFCE procedure, a preparatory committee was established, which developed the proposal for the Section organisation and presented it to EFCE's Executive Board for approval. The new Section held its first scientific meeting on December 5, 2022, in Paris as a EFCE European Forum on New Technologies. This was followed by the Section inaugural meeting, where the founding members elected the Chair and carried out other administrative functions.

Furthermore, EFCE started the process of establishing another new Section dedicated to Early Career Chemical Engineers and reactivating the Section on Sustainability, both of which are due to (re)start in 2023. Further details about these activities are reported below

The Presidents and Vice-Presidents of EFCE and ESBES met in Paris in December to coordinate common activities, in particular in relation to the ECCE/ECAB conference, to be held in Berlin in September 2023.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2022**

OBJECTIVES AND ACTIVITIES

Working parties and sections

EFCE has 20 Working Parties and six 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; email: stefan.heinrich@tuhh.de

- Characterisation of Particulate Systems

Chair: Prof. Martin MORGENEYER, Compiègne/FR; email: martin.morgeneyer@utc.fr

- Chemical Reaction Engineering

Chair: Prof. Kai-Olaf HINRICHSEN, Garching/DE; email: hinrichsen@tum.de

- Comminution and Classification

Chair: Prof. Arno KWADE, Braunschweig/DE; email: a.kwade@tu-bs.de

- Computer Aided Process Engineering

Chair: Prof. Flavio MANENTI, Milano/IT; email: flavio.manenti@polimi.it

- Crystallization

Chair: Prof. Daniele MARCHISIO, Torino/IT; email: danielle.marchisio@polito.it

- Drying

Chair: Prof. Angélique LEONARD, Liège/BE; email: a.leonard@ulg.ac.be

- Education

Chair: Prof. Eric SCHAEER, Nancy/FR; email: eric.schaer@univ-lorraine.fr (until August 2022);

successor: Dr. Hermann J. FEISE, Ludwigshafen/DE; email: herman.feise@basf.com

- Electrochemical Engineering

Chair: Prof. Karel BOUZEK, Prague/CZ; email: karel.bouzek@vscht.cz

- Fluid Separations

Chair: Prof. Harry KOOIJMAN, Amsterdam/NL; email: Harry.Kooijman@shell.com and

Potsdam/USA; email: kooijman@clarkson.edu

- High Pressure Technology

Chair: Prof. Maria Jose COCERO ALONSO, Valladolid/ES; email: mjcocero@iq.uva.es

- Loss Prevention and Safety Promotion

Chair: Prof. Bruno FABIANO, Genoa/IT; email: brown@unige.it

- Mechanics of Particulate Solids

Chair: Prof. Diego BARLETTA, Fisciano (SA), Italy; email: dbarletta@unisa.it

- Mixing

Chair: Dr. Joëlle AUBIN, Toulouse/FR; email: joelle.aubin@ensiacet.fr

- Multiphase Fluid Flow

Chair: Prof. Michael SCHLÜTER, Hamburg/DE; email: michael.schlueter@tuhh.de

- Polymer Reaction Engineering

Chair: Prof. Markus BUSCH, Darmstadt/DE; email: markus.busch@pre.tu-darmstadt.de

- Process Intensification

Chair: Prof. Georgios STEFANIDIS, Athens/GR; email: gstefani@mail.ntua.gr

- Quality by Design

Chair: Prof. Christoph HERWIG, Wien/AT; email: christoph.herwig@tuwien.ac.at

- Static Electricity in Industry

Chair: Prof. Petro LLOVERA SEGOVIA, Paterna/ES; email: pedro.llovera@ite.es

- Thermodynamics and Transport Properties

Chair: Prof. Sabine ENDERS, Karlsruhe/DE; email: sabine.enders@kit.edu (until February 2022); successor: Prof. Maria

Grazia DE ANGELIS, Edinburgh/UK; email: grazia.deangelis@ed.ac.uk

SECTIONS

- Energy

Co-Chairs: Prof. Fabrizio BEZZO, Padova/IT; email: fabrizio.bezzo@unipd.it and

Prof. Francois MARÉCHAL, Sion/CH; email: francois.marechal@epfl.ch (until October 2022); successors: Prof. Valerio

COZZANI, Bologna/IT; e-mail: valerio.cozzani@unibo.it and Dr. Jan VERSTRAETE, Solaize/FR; email:

jan.verstraete@ifpen.fr

- Food

Chair: Dr.-Ing. Volker HEINZ, Quakenbrück/DE; email: v.heinz@dil-ev.de

- Membrane Engineering

Chair: Prof. Enrico DRIOLI, Arcavacata di Rende/IT; email: e.drioli@itm.cnr.it

- Product Design and Engineering

**EUROPEAN FEDERATION OF CHEMICAL
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**REPORT OF THE TRUSTEES
for the year ended 31 December 2022**

Chair: Dr. Francesco PICCHIONI, Groningen/NL; email: f.picchioni@rug.nl
- Chemical Engineering as Applied to Medicine
Chair: Prof. Tomasz SOSNOWSKI, Warsaw/PL; email: tomasz.sosnowski@pw.edu.pl
- Early Career Chemical Engineers
Chair (appointed): Mr. Gabriele VERRECCHIA, Campagnano di Roma/IT; g.verrecchia5@gmail.com

Working Parties and Sections conduct their business throughout the year, and every group has at least one meeting per year. From mid-March 2020 until spring 2022 all planned business meetings of the Working Parties and Sections were held online.

In 2022, Working Parties and Sections were involved in a broad range of online events and webinar series and conferences.

EFCE events of 2022:

- Electrostatics 2022
Wroclaw, Poland, and online, 28 March - 1 April 2022 (EFCE Event No. 774)
- EFCE Spotlight Talks
Online, 8 webinars, 19-29 April 2022
- International Conference on Population Balance Modelling - PMB2022
Lyon, France, 9-11 May 2022 (EFCE Event No. 785)
- Loss Prevention 2022 - 17th International Symposium on Loss Prevention and Safety Promotion in the Process Industries Prague, Czech Republic and online, 5-8 June 2022 (EFCE Event No. 765)
- 32nd European Symposium on Computer Aided Process Engineering - ESCAPE-32
Toulouse, France, 12-15 June 2022 (EFCE Event No. 778)
- 7th European Symposium on Comminution & Classification - ESCC2022
Toulouse, France, 27-29 June 2022 (EFCE Event No. 786)
- CHISA 2022 - 26th International Congress of Chemical and Process Engineering Prague, Czech Republic, 21-25 August 2022 (EFCE Event No. 787)
- IACHEM 2022
Frankfurt, Germany, 22-26 August 2022 (EFCE Event No. 775)
- Distillation & Absorption 2022
Toulouse, France, 18-21 September 2022 (EFCE Event No. 780)
- World Congress of Particle Technology - WCPT9
Madrid, Spain, 18-22 September 2022 (EFCE Event No. 784)
- Chemistry and Chemical Technology
Kaunas, Lithuania, 14 October 2022 (EFCE Event No. 792)
- Energy, Environment & Digital Transformation - E2DT
Milan, Italy, 23-26 October 2022, (EFCE Event No. 781)
- EFCE Forum on Energy Environment and Digital Transformation
Milan, Italy, 25 October 2022
- EFCE Spotlight Talks
Online, 8 webinars, 15-25 November 2022
- 4th European Forum on New Technologies - Chemical Engineering as applied to Medicine
Paris, France, 5 December 2022?

**EUROPEAN FEDERATION OF CHEMICAL
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**REPORT OF THE TRUSTEES
for the year ended 31 December 2022**

OBJECTIVES AND ACTIVITIES

Awards

Excellence Awards

EFCE Excellence Awards recognise PhD theses 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 2022, EFCE gave the following awards:

- Dr. Alessandro Di Pretoro and Dr. Ahmed Shokry Abdelaleem Taha Zied
2022 EFCE Excellence Award in Recognition of an Outstanding PhD Thesis on CAPE
Sponsor: Laboratoire de Génie Chimique
- Dr. Vineet Vishwakarma
2022 Excellence Award in Fluid Separations
Sponsor: Evonik
- Dr. Marvellous J. Khala
2022 Excellence Award in Mechanics of Particulate Solids
Sponsor: Jenike & Johanson, Inc.
- Dr. Federica Ovidi
2022 Excellence Award in Process Safety
Sponsor: Aspen Oss B.V.

Other Awards

- The Working Party on Computer Aided Process Engineering presented its Award for Recent Innovative Contribution (RIC) 2022 to Professor Rafiqul Gani
- The Working Party on Loss Prevention and Safety Promotion in the Process Industries presented the EFCE Loss Prevention Symposium Award 2022 to Professor Adam Markowski in recognition of his outstanding and long-life contribution to the advancement of process safety in thinking, education and training, and the practical application of process and plant safety.
- The Working Party on Static Electricity in industry presented:
 - the Helmut Krämer Award to Dr. Paul Holdstock for distinguished achievements in the science and engineering of electrostatics, developing safe technologies, innovative uses and applications. Dr. Holdstock delivered the Helmut Krämer Memorial Lecture.
 - the Stig Lundquist Award to Dr. Jeremy Smallwood in recognition of dedicated service and notable contributions to the advancement of the field of atmospheric and industrial electrostatics as a researcher and teacher. Dr. Smallwood delivered the Stig Lunquist Award Memorial Lecture.- the International Fellow Award in recognition of dedicated service and notable contributions to the advancement of the field of industrial electrostatics to Professor Daniel Lacks, Professor Roman Cimbaia and Dr. Poupak Mehrani.

**EUROPEAN FEDERATION OF CHEMICAL
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**REPORT OF THE TRUSTEES
for the year ended 31 December 2022**

OBJECTIVES AND ACTIVITIES

2022 and beyond

External Engagement

SusChem

SusChem is the European Platform for Sustainable Chemistry, and an EFCE trustee 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.

The EFCE Education WP is involved in the skills work package of the European Commission-funded project IRISS (The International ecosystem for accelerating the transition to Safe-and-Sustainable-by-design materials, products and processes). The project is part of a broader drive by the Commission to develop Safe and Sustainable by Design (SSbD) strategies and guiding principles, establish networks and a process for implementation.

2022 also saw more work by SusChem on its Advanced Materials Manifesto, and a draft roadmap was published in June. There was agreement that SusChem should strive together with the Energy Materials Industrial Research Initiative for a leading role in the next phase of the Advanced Materials Initiative - an initiative by It is driven by the Energy Materials Industrial Research Initiative, in collaboration with SusChem and other European Platforms.. Advanced Materials is one of the three pillars of SusChem activity.

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 is available at <https://www.spires2030.eu/news/new/p4planet-roadmap-2050-advanced-working-version>

A-SPIRE now has new working groups covering energy, process optimisation and carbon capture and utilisation, industrial symbiosis, resources and circularity, framework conditions, and societal innovation.

Formation of New Section - Chemical Engineering as Applied to Medicine

As mentioned above, EFCE has established a new Section, Chemical Engineering as Applied to Medicine. Chemical engineers are already bringing a significant skillset to physiology and medicine. Particularly important are their modelling skills and systems engineering techniques - for example to tackle the complexity of physiology, transport and reaction engineering to model medical instruments such as dialysis, designing artificial organs processing chemical entities, developing devices controlling drug and nutrient feeds, and considering the effects of particulates on human health. Chemical engineers have been developing engineering design and analysis approaches to modelling biological systems across multiple levels - cell signalling networks, gene, protein and metabolic networks, movement of molecules and fluids, through to whole physiological systems.

The new Section aims to bring together the diverse activities of chemical engineers and their collaborators to share ideas, experience and techniques through meetings, workshops, and conferences, bringing together work by chemical engineers in different areas of medicine. It aims to work with professional bodies in physiology and medicine through joint workshops and to encourage joint projects amongst active members. It also seeks to inspire young people to study chemical engineering who also have an interest in medicine and health.

Formation of New Section - Early Career Chemical Engineers

The new Section will aim to inspire, inform and influence the European community of early career chemical engineers by supporting and promoting chemical engineering science, innovation, environmental protection and business ethics to meet the needs of society.

The new Section will seek to increase the engagement, and the staying up-to-date with the latest technological developments and ensuring new leaders are enrolled in EFCE in the coming years. The new Section will create technical and social programming for early career chemical engineering meetings, workshops, summer schools, and other EFCE events. It will support local member societies to deliver activities, facilitate opportunities to develop new initiatives within EFCE, and identify new communication platforms to reach the community.

Re-activation of the Section on Sustainability

The reactivated Section will highlight the role of chemical engineering in sustainable development and the impact of its community in decision making processes in assessing and evaluating new processes.

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2022

OBJECTIVES AND ACTIVITIES

It will aim to direct chemical engineering priorities towards global and national priorities that relate to climate change, the loss of biodiversity, loss of ecosystem services, land degradation, and air and water pollution.

Chemical Engineering Skills Audit

A final report on the Chem Eng Skills Base Project undertaken in 2021 was produced and published on the EFCE website (see <https://efce.info/Publications/Statements+and+White+Papers.html>).

Conferences

EFCE spent considerable time in 2022 preparing the next iteration of the biennial European Congress of Chemical Engineering (ECCE), which is held in conjunction with the European Congress of Applied Biotechnology (ECAB). ECCE 14 and ECAB 7 will be held in the City Cube in Berlin 17-21 September 2023. ECCE/ECAB2023 will be titled "Chemical and Biochemical Engineering - Acting together" and cover nine themes. One will be dedicated to each of the new EFCE Sections - Chemical Engineering as Applied to Medicine and Early Career Chemical Engineers.

Another EFCE event was held in Milan, October 2022 in conjunction with the E2DT Congress. The event consisted of a plenary session by Hermann Feise followed by a discussion platform.

European Forum on New Technologies

EFCE organised the 4th European Forum on New Technologies as an event aligned with the new Section, Chemical Engineering as Applied to Medicine, on December 5, 2022, in Paris. Presenters showed how modelling and systems engineering techniques are being used to tackle the complexity of physiology, using transport and reaction engineering to model medical instruments such as dialysis, designing artificial organs, developing devices controlling drug and nutrient feeds, and exploring the effects of particulates on human health and more. The event was attended by 37 people from 11 different countries. The inaugural meeting of the new Section was held after the event.

Spotlight Talks

The EFCE organised a further two series of Spotlight Talks delivered by its Working Parties and Sections in 2022.

In Q2, the 3rd Series (held from 19-29 April 2022) featured eight webinars from the following Working Parties and Sections: CAPE, Crystallization, Drying, Education, High Pressure Technology, Mixing, Multiphase Fluid Flow, Membrane Engineering. Each webinar was on average attended by 80 participants (min 60; max 113). EFCE's Executive Board is very pleased with this number, which is equivalent or even higher than the number of participants in a thematic session at a generalist conference. In total, there were 637 participants in eight webinars, of which 437 were unique participants. 329 participants attended only one webinar, 67 participants attended two webinars, 16 attended three and 11 attended four webinars. The audience was obviously highly specialised, and sought knowledge in well-targeted areas. In terms of geographical origin, although there were connections from 40 different countries, the audience was mainly coming from Europe (Italy, Germany, France and Spain) (max: 98, min: 63). The important participation from the United States (33) should be also mentioned.

The 4th Series of Spotlight Talks, held from 15-25 November 2022, also consisted of eight webinars, prepared by the following Working Parties and Sections: Food, Mechanics of Particulate Solids, Polymer Reaction Engineering, Static Electricity, Energy, Loss Prevention and Safety Promotion in the Process Industries, Process Intensification, Chemical Reaction Engineering, Thermodynamics and Transport Properties. In total, 434 people attended this series, which gives an average of 54 attendees per webinar (min 19-max 80). This is slightly lower than the previous series, but it is still very good.

Another indicator which shows the attractiveness of the Spotlight Talks is the number of subsequent views of the recordings, which can reach some hundred after several months. The recordings of all the Spotlight Talks can be found on the EFCE YouTube Channel (see https://efce.info/Spotlight_Talks.html).

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2022**

OBJECTIVES AND ACTIVITIES

Administrative report

2022 was the eighth year of EFCE as a Charitable Incorporated Organisation. Whilst 2021 and 2020 saw us operating with limited face to face activities due to COVID-19 restrictions, in 2022 the Executive Board was able to meet in person in April in Frankfurt and in August in Prague. This provided the members of the Board a valuable opportunity to interact with their colleagues more effectively.

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

During the year, invoicing, forecasting and payment of expenses were closely managed in order to keep the EFCE accounts under control. While membership fees were held unchanged in 2021 to account for the financial effect of the COVID pandemic on member societies, 2022 fees were raised 3% to make up for rising costs.

Details about the economic and financial performance of the CIO are provided later in the financial report. At its April meeting the EFCE Executive Board agreed to donate its 2021 surplus and the 2022 membership fee of the Borekov Institute of Catalysis in Russia to the International Red Cross to support humanitarian actions in Ukraine.

As mentioned earlier, EFCE online presence in 2022 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 2022 (http://efce.info/EFCE_Newsletter.html). In addition, pdf versions are published on EFCE's social media pages and press releases (<https://efce.info/News.html>) highlight other news, mainly relating to the various EFCE awards. Sixteen press releases were published in 2022.

EFCE's social media pages can be found at:

- EFCE LinkedIn Group: http://bit.ly/EFCE_LinkedIn
- Twitter: https://twitter.com/EFCE_Comms
- Facebook: <https://www.facebook.com/theEFCE>
- YouTube: <https://www.youtube.com/channel/UCxuvfbb5ST3DMHLAwZ6326w>

STRUCTURE, GOVERNANCE AND MANAGEMENT

Governing document

The charity is controlled by its governing document, a deed of trust and constitutes an unincorporated charity.

Changes to the Board of Trustees

EFCE's member societies elected new officers and trustees at the General Assembly in 2021, resulting in a number of changes that took effect at the start of 2022.

Giorgio Veronesi, who previously served as Executive Vice-President, took the helm as President. Jarka Glassey joined the board as Executive Vice-President and Petr Kluson stepped up from ordinary trustee to the post of Scientific Vice-President.

Five members stepped down at the end of 2021, after completing their term - they are former President Hermann Feise, elected trustees Adisa Azapagic and Ferenc Friedler, as well as co-opted trustees Thaddeus Anim-Somuah and Hilke-Marie Lorenz. Additionally, Jon Prichard stepped down as appointed trustee in July 2022 as he was leaving IChemE.

In addition to the Executive Vice-President Jarka Glassey, new members joining the Board as elected trustees are Antonis Kokossis and Tomasz Sosnowski, alongside the new co-opted trustees Silvie Müller and Laura Pirro. Claudia Flavell-White was confirmed as the new appointed trustee representing IChemE.

Giorgio Veronesi, President

Petr Kluson, Scientific Vice-President

Jarka Glassey, Executive Vice-President

REFERENCE AND ADMINISTRATIVE DETAILS

Registered Charity number

1159541

EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING

REPORT OF THE TRUSTEES
for the year ended 31 December 2022

Principal address

Davis Building
165-189 Railway Terrace
Rugby
Warwickshire
CV21 3HQ

Trustees

M Considine
F Nicol
G Veronesi
C Flavell-White (appointed 1/7/2022)
D Bogle
P Piccione
P Kluson
M Wilk
A ten Kate
J L Prichard (resigned 1/7/2022)
E Brunazzi
E Schaer
A Pey
M Rovaglio
Dr J Glassey (appointed 1/1/2022)
A Kokossis (appointed 1/1/2022)
T R Sosnowski (appointed 1/1/2022)
A Förster
A Ramirez-Gomez
Mrs S Muller (appointed 8/4/2022)
Mrs L Pirro (appointed 8/4/2022)

Independent Examiner

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Approved by order of the board of trustees on 16-9-23 and signed on its behalf by:



.....
G Veronesi - Trustee

**INDEPENDENT EXAMINER'S REPORT TO THE TRUSTEES OF
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Independent Examiner's Report to the Trustees of European Federation of Chemical Engineers

I report to the trustees (who are also Directors for the purpose of company law) on my examination of the financial statements of European Federation of Chemical Engineers ('the charitable company') for the year ended 31 December 2022 which comprise the Statement of Financial Activities, the Balance Sheet and related notes.

This report is made solely to the charity's trustees, as a body, in accordance with section 145 of the Charities Act 2011. My work has been undertaken so that I might state to the charity's trustees those matters I am required to state to them in this report and for no other purpose. To the fullest extent permitted by law, I do not accept or assume responsibility to anyone other than the charity and the charity's trustees as a body, for my work, for this report, or for the opinions I have formed.

Responsibilities and basis of report

As the trustees of charitable company you are responsible for the preparation of the financial statements in accordance with the requirements of the Companies Act 2006 ('the 2006 Act').

Having satisfied myself that the financial statements of the charitable company are not required to be audited under Part 16 of the Act and are eligible for independent examination, I report in respect of my examination of the charitable company's financial statements carried out under section 145 of the Charities Act 2011 ('the 2011 Act') and in carrying out my examination I have followed all the applicable Directions given by the Charity Commission under section 145(5)(b) of the 2011 Act.

An independent examination does not involve gathering all the evidence that would be required in an audit and consequently does not cover all the matters that an auditor considers in giving their opinion on the financial statements. The planning and conduct of an audit goes beyond the limited assurance that an independent examination can provide. Consequently I express no opinion as to whether the financial statements present a 'true and fair' view and my report is limited to those specific matters set out in the independent examiner's statement.

Independent examiner's statement

I have completed my examination. I confirm that no material matters have come to my attention in connection with the examination giving me cause to believe that in any material respect:

- accounting records were not kept in respect of the charitable company as required by section 386 of the 2006 Act; or
- the financial statements do not accord with those records; or
- the financial statements do not comply with the accounting requirements of section 396 of the 2006 Act other than any requirement that the financial statements give a 'true and fair view which is not a matter considered as part of an independent examination; or
- the financial statements have not been prepared in accordance with the methods and principles of the Statement of Recommended Practice for accounting and reporting by charities applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102).

I have no concerns and have come across no other matters in connection with the examination to which attention should be drawn in this report in order to enable a proper understanding of the financial statements to be reached.

Magma Audit LLP

Luke Edwards

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Date: 16/9/23

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2022**

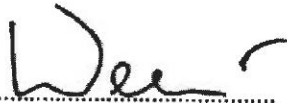
	Notes	Unrestricted fund €	Restricted fund €	2022 Total funds €	2021 Total funds €
INCOME AND ENDOWMENTS FROM					
Charitable activities	2				
Charitable activities		<u>53,682</u>	<u>17,861</u>	<u>71,543</u>	<u>61,811</u>
EXPENDITURE ON					
Charitable activities	3				
Resources expended		37	-	37	29
Charitable activities		<u>63,518</u>	-	<u>63,518</u>	52,101
Other	5	<u>2,301</u>	-	<u>2,301</u>	2,807
Total		<u>65,856</u>	-	<u>65,856</u>	54,937
NET INCOME/(EXPENDITURE)		(12,174)	17,861	5,687	6,874
RECONCILIATION OF FUNDS					
Total funds brought forward		<u>107,040</u>	-	<u>107,040</u>	100,166
TOTAL FUNDS CARRIED FORWARD		<u><u>94,866</u></u>	<u><u>17,861</u></u>	<u><u>112,727</u></u>	<u><u>107,040</u></u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

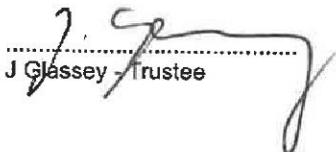
**STATEMENT OF FINANCIAL POSITION
31 December 2022**

	Notes	Unrestricted fund €	Restricted fund €	2022 Total funds €	2021 Total funds €
CURRENT ASSETS					
Debtors	7	9,668	-	9,668	17,797
Cash at bank		97,148	17,861	115,009	129,554
		<u>106,816</u>	<u>17,861</u>	<u>124,677</u>	<u>147,351</u>
CREDITORS					
Amounts falling due within one year	8	(5,895)	-	(5,895)	(40,311)
NET CURRENT ASSETS		<u>100,921</u>	<u>17,861</u>	<u>118,782</u>	<u>107,040</u>
TOTAL ASSETS LESS CURRENT LIABILITIES		100,921	17,861	118,782	107,040
PROVISIONS FOR LIABILITIES	9	(6,055)	-	(6,055)	-
NET ASSETS		<u>94,866</u>	<u>17,861</u>	<u>112,727</u>	<u>107,040</u>
FUNDS					
Unrestricted funds	10			94,866	107,040
Restricted funds				17,861	-
TOTAL FUNDS				<u>112,727</u>	<u>107,040</u>

The financial statements were approved by the Board of Trustees and authorised for issue on 16.1.23 and were signed on its behalf by:



G Veronesi - Trustee



J Glassey - Trustee



M Considine - Trustee

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS
for the year ended 31 December 2022**

1. ACCOUNTING POLICIES

Basis of preparing the financial statements

The financial statements of the charity, which is a public benefit entity under FRS 102, have been prepared in accordance with the Charities SORP (FRS 102) 'Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019)', Financial Reporting Standard 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' and the Charities Act 2011. The financial statements have been prepared under the historical cost convention.

The presentational currency of this charity is Euros because this is also the functional currency.

The charity has taken advantage of the following disclosure exemptions in preparing these financial statements, as permitted by FRS 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland':

- the requirements of Section 7 Statement of Cash Flows.

Income

Licence fees and subscription income is recognised in the Statement of Financial Activities once the charity has entitlement to the funds, it is probable that the income will be received and the amount can be measured reliably.

Expenditure

Liabilities are recognised as expenditure as soon as there is a legal or constructive obligation committing the charity to that expenditure, it is probable that a transfer of economic benefits will be required in settlement and the amount of the obligation can be measured reliably. Expenditure is accounted for on an accruals basis and has been classified under headings that aggregate all cost related to the category. Where costs cannot be directly attributed to particular headings they have been allocated to activities on a basis consistent with the use of resources.

Taxation

The charity is exempt from tax on its charitable activities.

Fund accounting

Unrestricted funds can be used in accordance with the charitable objectives at the discretion of the trustees.

Restricted funds can only be used for particular restricted purposes within the objects of the charity. Restrictions arise when specified by the donor or when funds are raised for particular restricted purposes.

Further explanation of the nature and purpose of each fund is included in the notes to the financial statements.

Foreign currencies

At each year end foreign currency monetary items are translated using the closing rate. Non-monetary items measured at historical cost are translated using the exchange rate at the date of the transaction and non-monetary items measured at fair value are measured using the exchange rate when fair value was determined.

Foreign exchange gains and losses resulting from the settlement of transactions and from the translation at the year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the statement of financial activities.

Financial instruments

The charity has chosen to adopt the Sections 11 and 12 of FRS 102 in respect of financial instruments.

(i) Financial assets

Basic financial assets, including debtors and cash and bank balances are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the transaction is measured at the present value of the future receipts discounted at a market rate of interest.

(ii) Financial liabilities

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2022**

1. ACCOUNTING POLICIES - continued

Financial instruments

Basic financial liabilities, including creditors are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future receipts discounted at a market rate of interest.

Cash and cash equivalents

Cash and cash equivalents are represented by cash in hand, deposits held at call with financial institutions, and other short-term highly liquid investments that mature in no more than three months from the date of acquisition and that are readily convertible to known amounts of cash with insignificant risk of change in value.

Critical accounting estimates and assumptions

The charity makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

(i) Impairment of debtors

The charity makes an estimate of the recoverable value of trade and other debtors. When assessing impairment of trade and other debtors, the trustees consider factors including the current credit rating of the debtor, the ageing profile of debtors and historical experience.

2. INCOME FROM CHARITABLE ACTIVITIES

		2022	2021
	Activity	€	€
Subscription income	Charitable activities	34,158	32,691
Licence fee	Charitable activities	11,024	13,108
Lifetime Recognition Award	Charitable activities	17,861	-
Sponsorship	Charitable activities	8,500	16,012
		<u>71,543</u>	<u>61,811</u>

3. CHARITABLE ACTIVITIES COSTS

	Direct Costs (see note 4) €	Support costs €	Totals €
Resources expended	-	37	37
Charitable activities	63,518	-	63,518
	<u>63,518</u>	<u>37</u>	<u>63,555</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2022**

4. DIRECT COSTS OF CHARITABLE ACTIVITIES

	2022	2021
	€	€
Sundries	456	-
Excellence awards	6,300	7,507
Working party grants	1,000	-
General secretarial	30,000	30,000
Memberships	1,000	1,000
Bad debts	-	2,285
UK secretarial fee	12,996	10,109
Scientific projects	1,354	1,200
Donations Paid	10,412	-
	<u>63,518</u>	<u>52,101</u>

5. OTHER

	2022	2021
	€	€
Independent examination fee	2,448	2,477
Exchange Differences	(147)	330
	<u>2,301</u>	<u>2,807</u>

6. TRUSTEES' REMUNERATION AND BENEFITS

There were no trustees' remuneration or other benefits for the year ended 31 December 2022 nor for the year ended 31 December 2021.

Trustees' expenses

During the year, trustees received reimbursement of expenses of €2,383 (2021: €387) for travel and other expenses.

7. DEBTORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2022	2021
	€	€
Trade debtors	9,668	16,659
Prepayments and accrued income	-	1,138
	<u>9,668</u>	<u>17,797</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2022**

8. CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2022	2021
	€	€
Trade creditors	519	34,543
Other creditors	5,376	5,768
	<u>5,895</u>	<u>40,311</u>

9. PROVISIONS FOR LIABILITIES

	2022	2021
	€	€
Provisions	6,055	-
	<u>6,055</u>	<u>-</u>

10. MOVEMENT IN FUNDS

	At 1/1/22 €	Net movement in funds €	At 31/12/22 €
Unrestricted funds			
General fund	107,040	(12,174)	94,866
Restricted funds			
Restricted Fund	-	17,861	17,861
	<u>107,040</u>	<u>5,687</u>	<u>112,727</u>

Net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	53,682	(65,856)	(12,174)
Restricted funds			
Restricted Fund	17,861	-	17,861
	<u>71,543</u>	<u>(65,856)</u>	<u>5,687</u>

Comparatives for movement in funds

	At 1/1/21 €	Net movement in funds €	At 31/12/21 €
Unrestricted funds			
General fund	100,166	6,874	107,040
	<u>100,166</u>	<u>6,874</u>	<u>107,040</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2022**

10. MOVEMENT IN FUNDS - continued

Comparative net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	61,811	(54,937)	6,874
	<u>61,811</u>	<u>(54,937)</u>	<u>6,874</u>
TOTAL FUNDS	<u>61,811</u>	<u>(54,937)</u>	<u>6,874</u>

A current year 12 months and prior year 12 months combined position is as follows:

	At 1/1/21 €	Net movement in funds €	At 31/12/22 €
Unrestricted funds			
General fund	100,166	(5,300)	94,866
Restricted funds			
Restricted Fund	-	17,861	17,861
	<u>100,166</u>	<u>12,561</u>	<u>112,727</u>
TOTAL FUNDS	<u>100,166</u>	<u>12,561</u>	<u>112,727</u>

A current year 12 months and prior year 12 months combined net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	115,493	(120,793)	(5,300)
Restricted funds			
Restricted Fund	17,861	-	17,861
	<u>133,354</u>	<u>(120,793)</u>	<u>12,561</u>
TOTAL FUNDS	<u>133,354</u>	<u>(120,793)</u>	<u>12,561</u>

11. RELATED PARTY DISCLOSURES

There were no related party transactions for the year ended 31 December 2022.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**DETAILED STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2022**

	2022 €	2021 €
INCOME AND ENDOWMENTS		
Charitable activities		
Subscription income	34,158	32,691
Licence fee	11,024	13,108
Lifetime Recognition Award	17,861	-
Sponsorship	8,500	16,012
	<u>71,543</u>	<u>61,811</u>
Total incoming resources	71,543	61,811
EXPENDITURE		
Charitable activities		
Sundries	456	-
Excellence awards	6,300	7,507
Working party grants	1,000	-
General secretarial	30,000	30,000
Memberships	1,000	1,000
Bad debts	-	2,285
UK secretarial fee	12,996	10,109
Scientific projects	1,354	1,200
Donations Paid	10,412	-
	<u>63,518</u>	<u>52,101</u>
Other		
Independent examination fee	2,448	2,477
Exchange Differences	(147)	330
	<u>2,301</u>	<u>2,807</u>
Support costs		
Finance		
Bank charges	37	29
Total resources expended	65,856	54,937
Net income	5,687	6,874

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

England & Wales - Charity number 1159541

Accounts

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2021

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 Conference on Chemical Engineering / European Conference for Applied Biotechnology, 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 CO₂ - 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.

OBJECTIVES AND ACTIVITIES

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.

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2021**

WORKING PARTIES

- Agglomeration

Chair: Prof. S. HEINRICH, Hamburg/DE; email: stefan.heinrich@tuhh.de

- Characterisation of Particulate Systems

Chair: Prof. Martin MORGENEYER, Compiègne/FR; email: martin.morgeneyer@utc.fr

- Chemical Reaction Engineering

Chair: Prof. Kai-Olaf HINRICHSEN, Garching/DE; email: hinrichsen@tum.de

- Comminution and Classification

Chair: Prof. Arno KWADE, Braunschweig/DE; email: a.kwade@tu-bs.de

- Computer Aided Process Engineering

Chair: Prof. Flavio MANENTI, Milano/IT; email: flavio.manenti@polimi.it

- Crystallization

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

- Drying

Chair: Prof. Angélique LEONARD, Liège/BE; email: a.leonard@ulg.ac.be

- Education

Chair: Prof. Eric SCHAEER, Nancy/FR; email: eric.schaer@univ-lorraine.fr

- Electrochemical Engineering

Chair: Prof. Karel BOUZEK, Prague/CZ; email: karel.bouzek@vscht.cz

- Fluid Separations

Chair: Prof. Harry KOOIJMAN, Amsterdam/NL; email: Harry.Kooijman@shell.com and Potsdam/USA; email: kooijman@clarkson.edu

- High Pressure Technology

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

- Loss Prevention and Safety Promotion

Chair: Prof. Bruno FABIANO, Genoa/IT; email: brown@unige.it

- Mechanics of Particulate Solids

Chair: Prof. Diego BARLETTA, Fisciano (SA), Italy; email: dbarletta@unisa.it

- Mixing

Chair: Dr. Joëlle AUBIN, Toulouse/FR; email: joelle.aubin@ensiacet.fr

- Multiphase Fluid Flow

Chair: Prof. Michael SCHLÜTER, Hamburg/DE; email: michael.schlueter@tuhh.de

- Polymer Reaction Engineering

Chair: Prof. Markus BUSCH, Darmstadt/DE; email: markus.busch@pre.tu-darmstadt.de

- Process Intensification

Chair: Prof. Tom VAN GERVEN, Leuven/BE; email: tom.vangerven@kuleuven.be

- Quality by Design

Chair: Prof. Christoph HERWIG, Wien/AT; email: christoph.herwig@tuwien.ac.at

- Static Electricity in Industry

Chair: Prof. Petro LLOVERA SEGOVIA, Paterna/ES; email: pedro.llovera@ite.es

- Thermodynamics and Transport Properties

Chair: Prof. Sabine ENDERS, Karlsruhe/DE; email: sabine.enders@kit.edu

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2021**

SECTIONS

- Energy

Co-Chairs: Prof. Fabrizio BEZZO, Padova/IT; email: fabrizio.bezzo@unipd.it and
Prof. Francois MARÉCHAL, Sion/CH; email: francois.marechal@epfl.ch

- Food

Chair: Dr.-Ing. Volker HEINZ, Quakenbrueck/DE; email: v.heinz@dil-ev.de

- Membrane Engineering

Chair: Prof. Enrico DRIOLI, Arcavacata di Rende/IT; email: e.drioli@itm.cnr.it

- Product Design and Engineering

Chair: Dr. Stefan KAUFMANN, Hamburg/DE; email: 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.

EFCE events of 2021:

- 3rd 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)

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- 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 Conference on Chemical Engineering and 6th European Conference on 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 and 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 broad discussions ensured 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, Jiri 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 CO₂-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 and 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

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And ECCE and 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 and 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 even 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 and 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 theses 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 Awards 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 and Dr. Francesco Maluta
2021 EFCE Young Researcher Award in Mixing

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OBJECTIVES AND ACTIVITIES

Other Awards

- 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.

2021 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 through 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 boards 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 videoconference. Progress of activities and monitoring of agreed actions took place effectively through Basecamp platform.

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OBJECTIVES AND ACTIVITIES

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 (http://efce.info/EFCE_Newsletter.html). In addition, pdf versions are published on EFCE's social media pages and press releases (<http://efce.info/Press+Releases.html>) 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

Twitter: https://twitter.com/@EFCE_Comms

Facebook: <https://www.facebook.com/theEFCE>

YouTube: <https://www.youtube.com/channel/UCxuvfbb5ST3DMHLAwZ6326w>

STRUCTURE, GOVERNANCE AND MANAGEMENT

Governing document

The charity is controlled by its governing document, a deed of trust and constitutes an unincorporated charity.

Changes to the Board of Trustees

There were 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 Professor 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.

Giorgio Veronesi, President

Petr Kluson, Scientific Vice-President

Jarka Glassey, Executive Vice-President

REFERENCE AND ADMINISTRATIVE DETAILS

Registered Charity number

1159541

Principal address

Davis Building
165-189 Railway Terrace
Rugby
Warwickshire
CV21 3HQ

EUROPEAN FEDERATION OF CHEMICAL
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for the year ended 31 December 2021

Trustees

M Considine
H J Feise (resigned 31/12/2021)
F Nicol
G Veronesi
W Meier (resigned 27/9/2021)
D Bogle
A Azapagic (resigned 31/12/2021)
P Piccione
P Kluson
M Wilk
A ten Kate
F Friedler (resigned 31/12/2021)
J L Prichard
E Brunazzi
E Schaer
A Pey
M Rovaglio
H Lorenz (resigned 31/12/2021)
Dr J Glassey (appointed 1/1/2022)
A Kokossis (appointed 1/1/2022)
T R Sosnowski (appointed 1/1/2022)
A Foerster (appointed 27/9/2021)
A Ramirez-Gomez
T Anim-Somuah (resigned 31/12/2021)

Independent Examiner

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Approved by order of the board of trustees on 21/8/2022 and signed on its behalf by:



.....
G Veronesi - Trustee

**INDEPENDENT EXAMINER'S REPORT TO THE TRUSTEES OF
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Independent Examiner's Report to the Trustees of European Federation of Chemical Engineers

I report to the trustees (who are also Directors for the purpose of company law) on my examination of the financial statements of European Federation of Chemical Engineers ('the charitable company') for the year ended 31 December 2021 which comprise the Statement of Financial Activities, the Balance Sheet and related notes.

This report is made solely to the charity's trustees, as a body, in accordance with section 145 of the Charities Act 2011. My work has been undertaken so that I might state to the charity's trustees those matters I am required to state to them in this report and for no other purpose. To the fullest extent permitted by law, I do not accept or assume responsibility to anyone other than the charity and the charity's trustees as a body, for my work, for this report, or for the opinions I have formed.

Responsibilities and basis of report

As the trustees of charitable company you are responsible for the preparation of the financial statements in accordance with the requirements of the Companies Act 2006 ('the 2006 Act').

Having satisfied myself that the financial statements of the charitable company are not required to be audited under Part 16 of the Act and are eligible for independent examination, I report in respect of my examination of the charitable company's financial statements carried out under section 145 of the Charities Act 2011 ('the 2011 Act') and in carrying out my examination I have followed all the applicable Directions given by the Charity Commission under section 145(5)(b) of the 2011 Act.

An independent examination does not involve gathering all the evidence that would be required in an audit and consequently does not cover all the matters that an auditor considers in giving their opinion on the financial statements. The planning and conduct of an audit goes beyond the limited assurance that an independent examination can provide. Consequently I express no opinion as to whether the financial statements present a 'true and fair' view and my report is limited to those specific matters set out in the independent examiner's statement.

Independent examiner's statement

I have completed my examination. I confirm that no material matters have come to my attention in connection with the examination giving me cause to believe that in any material respect:

- accounting records were not kept in respect of the charitable company as required by section 386 of the 2006 Act; or
- the financial statements do not accord with those records; or
- the financial statements do not comply with the accounting requirements of section 396 of the 2006 Act other than any requirement that the financial statements give a 'true and fair view' which is not a matter considered as part of an independent examination; or
- the financial statements have not been prepared in accordance with the methods and principles of the Statement of Recommended Practice for accounting and reporting by charities applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102).

I have no concerns and have come across no other matters in connection with the examination to which attention should be drawn in this report in order to enable a proper understanding of the financial statements to be reached.

Magma Audit LLP

Luke Edwards
Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Date: 10 September 2022

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2021**

	Notes	2021 Unrestricted fund €	2020 Total funds €
INCOME AND ENDOWMENTS FROM			
Charitable activities	2		
Charitable activities		61,811	36,527
EXPENDITURE ON			
Charitable activities	3		
Resources expended		29	198
Charitable activities		52,101	39,482
Other	5	2,807	2,396
Total		54,937	42,076
NET INCOME/(EXPENDITURE)		6,874	(5,549)
RECONCILIATION OF FUNDS			
Total funds brought forward		100,166	105,715
TOTAL FUNDS CARRIED FORWARD		107,040	100,166

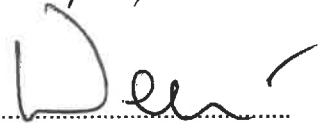
The notes form part of these financial statements

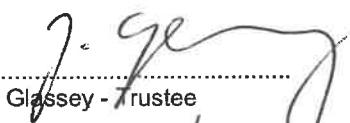
**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**STATEMENT OF FINANCIAL POSITION
31 December 2021**

		2021	2020
		Unrestricted	Total
		fund	funds
		€	€
CURRENT ASSETS	Notes		
Debtors	7	17,797	6,166
Cash at bank		<u>129,554</u>	<u>133,400</u>
		147,351	139,566
 CREDITORS			
Amounts falling due within one year	8	<u>(40,311)</u>	<u>(39,400)</u>
 NET CURRENT ASSETS		<u>107,040</u>	100,166
 TOTAL ASSETS LESS CURRENT LIABILITIES		<u>107,040</u>	100,166
 NET ASSETS		<u>107,040</u>	<u>100,166</u>
 FUNDS	9		
Unrestricted funds		<u>107,040</u>	<u>100,166</u>
 TOTAL FUNDS		<u>107,040</u>	<u>100,166</u>

The financial statements were approved by the Board of Trustees and authorised for issue on 21/02/22 and were signed on its behalf by:


.....
G Veronesi - Trustee


.....
J Glassey - Trustee


.....
P Kluson - Trustee

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS
for the year ended 31 December 2021**

1. ACCOUNTING POLICIES

Basis of preparing the financial statements

The financial statements of the charity, which is a public benefit entity under FRS 102, have been prepared in accordance with the Charities SORP (FRS 102) 'Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019)', Financial Reporting Standard 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' and the Charities Act 2011. The financial statements have been prepared under the historical cost convention.

The presentational currency of this charity is Euros because this is also the functional currency.

The charity has taken advantage of the following disclosure exemptions in preparing these financial statements, as permitted by FRS 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland':

- the requirements of Section 7 Statement of Cash Flows.

Income

Licence fees and subscription income is recognised in the Statement of Financial Activities once the charity has entitlement to the funds, it is probable that the income will be received and the amount can be measured reliably.

Expenditure

Liabilities are recognised as expenditure as soon as there is a legal or constructive obligation committing the charity to that expenditure, it is probable that a transfer of economic benefits will be required in settlement and the amount of the obligation can be measured reliably. Expenditure is accounted for on an accruals basis and has been classified under headings that aggregate all cost related to the category. Where costs cannot be directly attributed to particular headings they have been allocated to activities on a basis consistent with the use of resources.

Taxation

The charity is exempt from tax on its charitable activities.

Fund accounting

Unrestricted funds can be used in accordance with the charitable objectives at the discretion of the trustees.

Restricted funds can only be used for particular restricted purposes within the objects of the charity. Restrictions arise when specified by the donor or when funds are raised for particular restricted purposes.

Further explanation of the nature and purpose of each fund is included in the notes to the financial statements.

Foreign currencies

At each year end foreign currency monetary items are translated using the closing rate. Non-monetary items measured at historical cost are translated using the exchange rate at the date of the transaction and non-monetary items measured at fair value are measured using the exchange rate when fair value was determined.

Foreign exchange gains and losses resulting from the settlement of transactions and from the translation at the year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the statement of financial activities.

Financial instruments

The charity has chosen to adopt the Sections 11 and 12 of FRS 102 in respect of financial instruments.

(i) Financial assets

Basic financial assets, including debtors and cash and bank balances are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the transaction is measured at the present value of the future receipts discounted at a market rate of interest.

(ii) Financial liabilities

Basic financial liabilities, including creditors are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future receipts discounted at a market rate of interest.

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2021**

1. ACCOUNTING POLICIES - continued

Financial instruments

Cash and cash equivalents

Cash and cash equivalents are represented by cash in hand, deposits held at call with financial institutions, and other short-term highly liquid investments that mature in no more than three months from the date of acquisition and that are readily convertible to known amounts of cash with insignificant risk of change in value.

Critical accounting estimates and assumptions

The charity makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

(i) Impairment of debtors

The charity makes an estimate of the recoverable value of trade and other debtors. When assessing impairment of trade and other debtors, the trustees consider factors including the current credit rating of the debtor, the ageing profile of debtors and historical experience.

2. INCOME FROM CHARITABLE ACTIVITIES

		2021	2020
	Activity	€	€
Subscription income	Charitable activities	32,691	33,995
Licence fee	Charitable activities	13,108	2,532
Sponsorship	Charitable activities	16,012	-
		<u>61,811</u>	<u>36,527</u>

3. CHARITABLE ACTIVITIES COSTS

	Direct Costs (see note 4) €	Support costs €	Totals €
Resources expended	-	29	29
Charitable activities	52,101	-	52,101
	<u>52,101</u>	<u>29</u>	<u>52,130</u>

4. DIRECT COSTS OF CHARITABLE ACTIVITIES

	2021	2020
	€	€
Excellence awards	7,507	1,500
General secretarial	30,000	29,289
Memberships	1,000	-
Sundries	-	355
Bad debts	2,285	(1,835)
UK secretarial fee	10,109	10,173
Scientific projects	1,200	-
	<u>52,101</u>	<u>39,482</u>

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2021**

5. OTHER		2021	2020
		€	€
Independent examination fee		2,477	2,628
Exchange Differences		330	(232)
		<u>2,807</u>	<u>2,396</u>

6. TRUSTEES' REMUNERATION AND BENEFITS

There were no trustees' remuneration or other benefits for the year ended 31 December 2021 nor for the year ended 31 December 2020.

Trustees' expenses

During the year, trustees received reimbursement of expenses of €387 (2020: €638) for travel and other expenses.

7. DEBTORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2021	2020
	€	€
Trade debtors	16,659	5,809
Prepayments and accrued income	1,138	357
	<u>17,797</u>	<u>6,166</u>

8. CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2021	2020
	€	€
Trade creditors	34,543	29,370
Other creditors	5,768	10,030
	<u>40,311</u>	<u>39,400</u>

9. MOVEMENT IN FUNDS

	At 1/1/21 €	Net movement in funds €	At 31/12/21 €
Unrestricted funds			
General fund	100,166	6,874	107,040
	<u>100,166</u>	<u>6,874</u>	<u>107,040</u>
TOTAL FUNDS	<u>100,166</u>	<u>6,874</u>	<u>107,040</u>

Net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	61,811	(54,937)	6,874
	<u>61,811</u>	<u>(54,937)</u>	<u>6,874</u>
TOTAL FUNDS	<u>61,811</u>	<u>(54,937)</u>	<u>6,874</u>

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2021**

9. MOVEMENT IN FUNDS - continued

Comparatives for movement in funds

	At 1/1/20 €	Net movement in funds €	At 31/12/20 €
Unrestricted funds			
General fund	105,715	(5,549)	100,166
TOTAL FUNDS	<u>105,715</u>	<u>(5,549)</u>	<u>100,166</u>

Comparative net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	36,527	(42,076)	(5,549)
TOTAL FUNDS	<u>36,527</u>	<u>(42,076)</u>	<u>(5,549)</u>

A current year 12 months and prior year 12 months combined position is as follows:

	At 1/1/20 €	Net movement in funds €	At 31/12/21 €
Unrestricted funds			
General fund	105,715	1,325	107,040
TOTAL FUNDS	<u>105,715</u>	<u>1,325</u>	<u>107,040</u>

A current year 12 months and prior year 12 months combined net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	98,338	(97,013)	1,325
TOTAL FUNDS	<u>98,338</u>	<u>(97,013)</u>	<u>1,325</u>

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2021**

10. RELATED PARTY DISCLOSURES

There were no related party transactions for the year ended 31 December 2021.

**EUROPEAN FEDERATION OF CHEMICAL
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**DETAILED STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2021**

	2021 €	2020 €
INCOME AND ENDOWMENTS		
Charitable activities		
Subscription income	32,691	33,995
Licence fee	13,108	2,532
Sponsorship	16,012	-
	61,811	36,527
Total incoming resources	61,811	36,527
EXPENDITURE		
Charitable activities		
Excellence awards	7,507	1,500
General secretarial	30,000	29,289
Memberships	1,000	-
Sundries	-	355
Bad debts	2,285	(1,835)
UK secretarial fee	10,109	10,173
Scientific projects	1,200	-
	52,101	39,482
Other		
Independent examination fee	2,477	2,628
Exchange Differences	330	(232)
	2,807	2,396
Support costs		
Finance		
Bank charges	29	198
	54,937	42,076
Total resources expended	54,937	42,076
Net income/(expenditure)	6,874	(5,549)

European Federation of Chemical Engineering
Davis Building
165-189 Railway Terrace
Rugby
CV21 3HQ

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

LETTER OF REPRESENTATION FOR THE YEAR ENDED 31 DECEMBER 2021

Dear Sirs

We confirm that the following representations are made on the basis of enquiries of management and staff with relevant knowledge and experience and, where appropriate, of inspection of supporting documentation, sufficient to satisfy ourselves that we can properly make each of the following representations to you, in connection with your examination of the charity's financial statements for the year ended 31 December 2021.

- 1 We acknowledge, as trustees, our collective responsibility under the Charities Act 2011 for presenting financial statements, which give a true and fair view and confirm that we have approved the financial statements for the year ended 31 December 2021. We also acknowledge our responsibility for making accurate representations to you. All the accounting records have been made available to you for the purpose of your assignment and all the transactions undertaken by the charity have been properly reflected and recorded in the accounting records. All other records and related information, including minutes of all trustee and management meetings, have been made available to you.
- 2 We confirm that the charity is eligible for an independent examination of its financial statements, and that there are no circumstances which we should draw to your attention which would invalidate this eligibility. We acknowledge that the work performed by you is substantially less in scope than an audit performed in accordance with International Standards on Auditing (UK and Ireland).
- 3 We confirm that the accounting policies and estimation techniques adopted for the preparation of the financial statements are the most appropriate to the circumstances in which the charity operates.
- 4 All grants, donations and other incoming resources, the receipt of which is subject to specific terms or conditions, have been notified to you. There have been no breaches of terms or conditions during the period in the application of such incoming resources.
- 5 Other than those disclosed in the financial statements we are not aware of any material liabilities, provisions, contingent liabilities, contingent assets or contracted for capital commitments that need to be provided for or disclosed in the financial statements.
- 6 The charity has satisfactory title to all assets and there are no liens or encumbrances on the charity's assets except as disclosed in the notes to the financial statements.
- 7 Other than those disclosed in the financial statements, the charity has not entered into any transactions or has balances outstanding involving trustees, officers or other related parties, which require disclosure under the law or the financial reporting

W_

framework adopted, including the Charities SORP. If relevant, appropriate disclosure has been made of the control of the charity.

- 8 We acknowledge our responsibility for the design and implementation of internal controls to prevent and detect errors or fraud, and have disclosed to you the results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud. We are unaware of any irregularities, including fraud and suspected fraud, involving management, employees or others who have significant roles in internal control, or those employed by the charity where the fraud could have a material effect on the financial statements. No allegations of such irregularities or breaches have come to our notice.
- 9 We are unaware of any breaches or possible breaches of statute, regulations, contracts, agreements or the charity's constitution which might result in the charity suffering significant penalties or other loss. No allegations of such irregularities or breaches have come to our notice. We confirm that the charity has had no non-routine communication with Charity Commission during or since the period of which you are unaware.
- 10 We have reviewed the affairs of the charity and confirm that no income is subject to income or capital gains tax.
- 11 The financial statements have been prepared on the going concern basis as we believe that adequate cash resources will be available to cover the charity's requirements for working capital and capital expenditure for at least the next twelve months. We are not aware of any other factors which could put into jeopardy the charity's going concern status during or beyond this period.
- 12 There have been no events since the balance sheet date which necessitate revision of the figures included in the financial statements or inclusion of a note thereto. Should further material events occur, which may necessitate revision of the figures included in the financial statements or inclusion of a note thereto, we will advise you accordingly.
- 13 We confirm that the charity has adequate procedures in place to identify intangible income and all intangible income has been appropriately valued and included in the financial statements.
- 14 We confirm that the charity has had no non-routine communication with Charity Commission during or since the period of which we are unaware.

Yours faithfully

A handwritten signature in black ink, appearing to be 'D. Lee' or similar, written over a faint circular stamp.

Signed on behalf of the board of trustees

Date: 21/8/2022

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

England & Wales - Charity number 1159541

Accounts

**REPORT OF THE TRUSTEES AND
UNAUDITED FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2020
FOR
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**CONTENTS OF THE FINANCIAL STATEMENTS
for the year ended 31 December 2020**

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**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2020**

KEY ACHIEVEMENTS DURING 2020

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. Even during the Cold War, personal contacts, travel and scientific meetings have been part of our activities. Measures taken because of the COVID19 pandemic have made this impossible for most of 2020, a situation unheard of in Europe for more than 70 years.

Answering the challenges posed by the pandemic and following a path which had been explored already in 2018, EFCE has moved its activities online. Meetings and workshops hosted by EFCE have been run as virtual events from the start of the contact restrictions in early 2020. Large scientific events were initially postponed and from autumn 2020 software solutions and the willingness to use them enabled us to run even large events with several hundreds of paying participants online. EFCE now has a conference engine, which not only allows distributed work for preparing conferences (paper submission, reviewing, registration etc) but can also run and document the conference.

Responding to the need for scientific exchange while it was not possible to hold face to face conferences, EFCE started the EFCE Spotlight Talks, a series of connected webinars organized by the EFCE working parties and sections. The first series in November and December 2020 ran over a fortnight and reached almost 2000 participants. The 3rd European Forum for New Technologies on the Plant of the Future, moved to be a virtual event, attracted over 900 participants. However, the EFCE Forum focussing on early career engineers, which had been planned for August 2020, had to be postponed to 2021.

The emergency measures taken by governments in Europe and around the world to address the COVID19 pandemic will affect how EFCE operates beyond 2020, particularly in the organization of scientific events that are central to EFCE's activity. The joint European Congress of Chemical Engineering and the European Congress of Applied Biotechnology, which was scheduled for September 2021 in Berlin, will be held virtually due to the uncertainty about travel restrictions and vaccination progress. The tight cooperation between EFCE and ESBES for this conference series, which was formalized in 2018, has proven to be a valuable asset in difficult times.

We expect many effects of the pandemic to be long-lasting, driving a step change towards digitalisation and new ways of organising meetings and new forms of scientific exchange. The investments in digital capabilities made in 2019 have laid the foundations to supporting this change, and EFCE will further improve its digital presence to build on this. We will now explore new formats which can supplement the existing forms of collaboration and discussion.

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. In 2020, much of this meant regrouping of efforts and reshaping of activities. Thus, we awarded fewer prizes and held fewer events than in previous years. Nevertheless, activities did continue and even those which were postponed will happen, mostly in 2021 and still digitally.

OBJECTIVES AND ACTIVITIES

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.

EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING

REPORT OF THE TRUSTEES
for the year ended 31 December 2020

WORKING PARTIES

- Agglomeration
Chair: Prof. S. HEINRICH, Hamburg/DE; email: stefan.heinrich@tuhh.de
- Characterisation of Particulate Systems
Chair: Prof. Martin MORGENEYER, Lyon/FR; email: martin.morgeneyer@utc.fr
- Chemical Reaction Engineering
Chair: Prof. Kai-Olaf HINRICHSEN, Garching/DE; email: hinrichsen@tum.de
- Comminution and Classification
Chair: Prof. Arno KWADE, Braunschweig/DE; email: a.kwade@tu-bs.de
- Computer Aided Process Engineering
Chair: Prof. Flavio MANENTI, Milano/IT; email: flavio.manenti@polimi.it
- Crystallization
Chair: Prof. Marco MAZZOTTI, Zurich/CH; email: marco.mazzotti@ipe.mavt.ethz.ch
- Drying
Chair: Prof. Angelique LEONARD, Liège/BE; email: a.leonard@ulg.ac.be
- Education
Chair: Prof. Eric SCHAER, Nancy/FR; email: eric.schaer@univ-lorraine.fr
- Electrochemical Engineering
Chair: Prof. Karel BOUZEK, Prague/CZ; email: karel.bouzek@vscht.cz
- Fluid Separations
Chair: Prof. Harry KOOIJMAN, Amsterdam/NL; email: Harry.Kooijman@shell.com and
Potsdam/USA; email: kooijman@clarkson.edu
- High Pressure Technology
Chair: Prof. Eberhard SCHLÜCKER, Erlangen/DE; email: sl@ipat.uni-erlangen.de
- Loss Prevention and Safety Promotion
Chair: Prof. Bruno FABIANO, Genoa/IT; email: brown@unige.it
- Mechanics of Particulate Solids
Chair: Prof. Diego BARLETTA, Fisciano (SA), Italy; email: dbarletta@unisa.it
- Mixing
Chair: Dr. Joëlle AUBIN, Toulouse/FR; email: joelle.aubin@ensiacet.fr
- Multiphase Fluid Flow
Chair: Prof. Michael SCHLÜTER, Hamburg/DE; email: michael.schlueter@tuhh.de
- Polymer Reaction Engineering
Chair: Prof. Markus BUSCH, Darmstadt/DE; email: markus.busch@pre.tu-darmstadt.de
- Process Intensification
Chair: Prof. Tom VAN GERVEN, Leuven/BE; email: tom.vangerven@kuleuven.be
- Quality by Design
Chair: Prof. Christoph HERWIG, Wien/AT; email: christoph.herwig@tuwien.ac.at
- Static Electricity in Industry
Chair: Prof. Petro LLOVERA SEGOVIA, Paterna/ES; email: pedro.llovera@ite.es
- Thermodynamics and Transport Properties
Chair: Dr Jean-Charles DE HEMPTINNE Rueil Malmaison/FR;
email: jean-charles.de-hemptinne@ifpen.fr

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2020**

SECTIONS

- Energy

Co-Chairs: Prof. Fabrizio BEZZO, Padova/IT; email: fabrizio.bezzo@unipd.it and
Prof. Francois MARÉCHAL, Sion/CH; email: francois.marechal@epfl.ch

- Food

Chair: Dr.-Ing. Volker HEINZ, Quakenbrueck/DE; email: v.heinz@dil-ev.de

- Membrane Engineering

Chair: Prof. Enrico DRIOLI, Arcavacata di Rende/IT; email: e.drioli@itm.cnr.it

- Product Design and Engineering

Chair: Dr. Stefan KAUFMANN, Hamburg/DE; email: 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 2020, Working Parties and Sections were involved in a broad range of online events and webinar series as well as two online conferences. On top of that, Working Parties and Sections started organising different congresses, symposia or workshops on their specific area of activity. Due to the COVID-19 outbreak, most events were either cancelled or moved to 2021. These include the 21st International Symposium on Crystallization (ISIC), the 12th European Symposium on Electrochemical Engineering (ESEE), and the XXIV International Conference on Chemical Reactors (CHEMREACTOR).

EFCE events of 2020:

- ESCAPE-30 - 30th European Symposium on Computer Aided Process Engineering
online, 30 August - 2 September 2020 (EFCE Event No. 764)

WP Computer Aided Process Engineering

- CHISA De Gruyter - EFCE Web-Seminar series

online, 3 September and 26 November

- 3rd European Forum on New Technologies: Chemical Engineering in the Plant of the Future

online, 4 and 11 September 2020

- Web-Seminar Series on various aspects of crystallization 2020

online, 9, 10 and 11 September 2020

WP Crystallization

- EFCE WP QbD Web-Seminar Series 2020

online, 24 September, 6 October and 29 October 2020

WP Quality by Design

- Online Strategy Meeting: Future Directions in Product Design

Online, 26 - 27 October 2020 (EFCE Event No.779)

Section Product Design and Engineering

- virtual MeCCE 2020 - virtual 14th Mediterranean Congress of Chemical Engineering

online, 16 - 20 November 2020 (EFCE Event No. 768)

- 1st Series of EFCE Spotlight Talks

3 November - 4 December 2020

11 Working Parties and Sections involved

- Electrostatics in industry: risks, measurements and materials

WP on Static Electricity in industry

- Engineering Loss Prevention and Safety 4.0

WP on Loss Prevention and Process Safety

- CCU(vs.)S: How chemical engineering can shed light on challenges and opportunities of carbon capture and storage (CCS) and carbon capture and utilization (CCU) in a climate positive society ?

WP on Energy

- Electrification of the chemical industry

WP on Chemical Reaction Engineering

- Handling of particulate solids

WP on Mechanics of Particulate Solids

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**REPORT OF THE TRUSTEES
for the year ended 31 December 2020**

- Chemical engineering education in Covid-19 era - experiences in ensuring distance learning achieves the necessary learning outcomes ?

WP on Education

- Process integration for the energy transition in industry

WP on Energy

- Multiscale Mixing in Multiphase Flows

WP on Mixing and WP on Multiphase Fluid Flow

- Lifelong Learning of Process Intensification for an Innovative industry

WP on Process intensification

- Thermodynamic tools for CO₂ capture

WP on Thermodynamics and Transport Properties

- Quality by Design tools for the Optimization of (Bio-)Pharma Processes System Modelling, Machine Learning and Digital Twins

WP on Quality by Design

Excellence Awards

EFCE Excellence Awards recognise PhD theses 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 2020, EFCE gave the following awards:

" Dr. Dinesh Krishnamoorthy

2020 EFCE Excellence Award in Recognition of an outstanding PhD Thesis on Computer Aided Process Engineering

" Dr. Emmanuel Mousset

2020 Carl Wagner Medal of Excellence in Electrochemical Engineering (presentation postponed to June 2021).

" Dr. Ashwin Kumar Rajagopalan

2020 EFCE Excellence Award in Crystallization (presentation postponed to September 2021)

Other Awards

" The Working Party on Computer Aided Process Engineering presented its Long Term Achievements (LTA) award to Prof. Lorenz Biegler, Covestro University Professor in the Chemical Engineering Department at Carnegie Mellon University, Pittsburgh, PA, USA.

" The Working Party on Thermodynamics and Transport Properties has awarded its Distinguished Lecture to Professor Gabriele Sadowski, TU Dortmund, Germany, in recognition of her internationally recognised work related to advances of the statistical associating fluid theory (SAFT). The Award ceremony and Lecture at the 31 European Symposium on Applied Thermodynamics (ESAT) are postponed to July 2021.

2020 and beyond

External Engagement

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. The A-SPIRE partnership has recently published a new roadmap Processes4Planets - Transforming the European Process Industry for a Sustainable Society. The EFCE, through its Working Parties and Sections, had input to this document during the consultation process. The broad priorities are digitalisation, reusing waste, efficiency and identifying disruptive new technologies. The roadmap will form the basis of calls and new partnerships for Horizon Europe. The Horizon Europe framework has been approved and new calls will be issued from summer 2021.

SusChem: SusChem is the European Platform for Sustainable Chemistry and the EFCE Scientific VP is a member of its Board. EFCE has had input to SusChem activities through Working Party and Section members. 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. SusChem maintains a number of National Technology Platforms. The SusChem Strategic Research and Innovation Agenda (SIRA) published in 2019 has the following priorities: advanced materials, advanced process technologies, enabling digital technologies and horizontal topics. SusChem published its 'Sustainable Plastics Strategy' in December 2020. An impact focused paper on digital technologies in line with green deal priorities is planned (building on documents published by others). SusChem groups are also involved in a number of European batteries initiatives.

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

REPORT OF THE TRUSTEES for the year ended 31 December 2020

OBJECTIVES AND ACTIVITIES

Chemical Engineering Skills Audit

The Scientific VP has been surveying whether the ecosystem for developing chemical engineers in Europe is optimal and consistent. By bringing together some statistics of age profiles and student to staff ratios the aim is to build a picture of best practice and to help national member societies and universities argue for more academic recruitment to maintain a strong discipline basis for chemical engineering. There are figures for many, but not all countries. An interim report was published in the EFCE Newsletter in April 2021. A final report will be produced before the end of 2021, published on the EFCE website and we will seek to promulgate the results through the Member Societies and in newsletters.

Future conferences

Plans are well under way for ECCE/ECAB which will be 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. The 3rd European Forum on New Technologies on "Chemical Engineering in the Plant of the Future" took place online on 4 September and 11 September 2020. The EFCE organised two sets of spotlight talks by its Working Parties and Sections, eleven in November/December 2020 and seven in April 2021. Registrants were able to participate in any of the events encouraging cross fertilisation between members of Working Groups and Sections.

Administrative report

2020 was the sixth year of EFCE as a Charitable Incorporated Organisation. The planned Executive Board meetings were not held in person due to COVID19 restrictions and were replaced by online events, held in April and August. While this allowed the boards to meet as planned and with good participation, we regret that the new 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 videoconference.

During the year, invoicing, forecasting and payment of expenses were closely managed in order to keep the EFCE accounts under control. Details about the economic and financial performance of the CIO are provided later in the financial report.

As mentioned earlier, EFCE online presence in 2020 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 five issues were published in 2020 (http://efce.info/EFCE_Newsletter.html). In addition, pdf versions are published on EFCE's social media pages and press releases (<http://efce.info/Press+Releases.html>) highlight other news, mainly relating to the various EFCE awards.

EFCE's social media pages can be found at:

- EFCE LinkedIn Group: http://bit.ly/EFCE_LinkedIn
- Twitter: https://twitter.com/@EFCE_Comms
- Facebook: <https://www.facebook.com/theEFCE>
- YouTube: <https://www.youtube.com/channel/UCxuvfb5ST3DMHLAwZ6326w>

STRUCTURE, GOVERNANCE AND MANAGEMENT

Governing document

The charity is controlled by its governing document, a deed of trust and constitutes an unincorporated charity.

Changes to the Board of Trustees

All three serving officers were re-elected to a second term in 2019 and started their second term in January 2020. They are Dr. Hermann J. Feise, Giorgio Veronesi as Executive Vice-President, and Professor David Bogle as Scientific Vice-President.

The following trustees were elected in 2019 and took their seats at the start of 2020: Adisa Azapagic (United Kingdom), Elisabetta Brunazzi (Italy), Michael Considine (United Kingdom), Ferenc Friedler (Hungary), Antoon ten Kate (The Netherlands), Petr Kluson (Czech Republic), Alexis Pey Torruella (Spain), Patrick Piccione (Switzerland), Álvaro Ramirez-Gomez (Spain), Eric Schaer (France), Maurizio Rovaglio (Italy), and Michael Wilk (Germany). They join the appointed trustees Willi Meier (DECHEMA), François Nicol (SFGP), and Jon Prichard (IChemE), who represent the three EFCE General Secretariats.

During the course of 2020 two further trustees were co-opted: Hilke Lorenz (Switzerland), co-opted in April 2020, and Thaddeus Anim-Somuah, co-opted in August 2020.

EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING

REPORT OF THE TRUSTEES
for the year ended 31 December 2020

STRUCTURE, GOVERNANCE AND MANAGEMENT

Hermann Feise, President

David Bogle, Scientific Vice-President

Giorgio Veronesi, Executive Vice-President

REFERENCE AND ADMINISTRATIVE DETAILS

Registered Charity number

1159541

Principal address

Davis Building
165-189 Railway Terrace
Rugby
Warwickshire
CV21 3HQ

Trustees

M Considine
H J Feise
F Manenti (resigned 31/12/2020)
F Nicol
B Sarup (resigned 31/12/2020)
G Veronesi
W Meier
D Bogle
A Azapagic
P Piccione
P Kluson
M Wilk
A ten Kate
F Friedler
F Giger (resigned 31/12/2020)
J L Prichard
E Brunazzi (appointed 1/1/2020)
E Schaer (appointed 1/1/2020)
A Pey (appointed 1/1/2020)
M Rovaglio (appointed 1/1/2020)
H Lorenz (appointed 1/1/2020)

Independent Examiner

Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Approved by order of the board of trustees on27 September 2021..... and signed on its behalf by:



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.....
H J Feise - Trustee

**INDEPENDENT EXAMINER'S REPORT TO THE TRUSTEES OF
EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

Independent Examiner's Report to the Trustees of European Federation of Chemical Engineers

I report to the trustees (who are also Directors for the purpose of company law) on my examination of the financial statements of European Federation of Chemical Engineers ('the charitable company') for the year ended 31 December 2020 which comprise the Statement of Financial Activities, the Balance Sheet and related notes.

This report is made solely to the charity's trustees, as a body, in accordance with section 145 of the Charities Act 2011. My work has been undertaken so that I might state to the charity's trustees those matters I am required to state to them in this report and for no other purpose. To the fullest extent permitted by law, I do not accept or assume responsibility to anyone other than the charity and the charity's trustees as a body, for my work, for this report, or for the opinions I have formed.

Responsibilities and basis of report

As the trustees of charitable company you are responsible for the preparation of the financial statements in accordance with the requirements of the Companies Act 2006 ('the 2006 Act').

Having satisfied myself that the financial statements of the charitable company are not required to be audited under Part 16 of the Act and are eligible for independent examination, I report in respect of my examination of the charitable company's financial statements carried out under section 145 of the Charities Act 2011 ('the 2011 Act') and in carrying out my examination I have followed all the applicable Directions given by the Charity Commission under section 145(5)(b) of the 2011 Act.

An independent examination does not involve gathering all the evidence that would be required in an audit and consequently does not cover all the matters that an auditor considers in giving their opinion on the financial statements. The planning and conduct of an audit goes beyond the limited assurance that an independent examination can provide. Consequently I express no opinion as to whether the financial statements present a 'true and fair' view and my report is limited to those specific matters set out in the independent examiner's statement.

Independent examiner's statement

I have completed my examination. I confirm that no material matters have come to my attention in connection with the examination giving me cause to believe that in any material respect:

- accounting records were not kept in respect of the charitable company as required by section 386 of the 2006 Act; or
- the financial statements do not accord with those records; or
- the financial statements do not comply with the accounting requirements of section 396 of the 2006 Act other than any requirement that the financial statements give a 'true and fair view which is not a matter considered as part of an independent examination; or
- the financial statements have not been prepared in accordance with the methods and principles of the Statement of Recommended Practice for accounting and reporting by charities applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102).

I have no concerns and have come across no other matters in connection with the examination to which attention should be drawn in this report in order to enable a proper understanding of the financial statements to be reached.

Magma Audit LLP

Luke Edwards
Magma Audit LLP
Magma House
16 Davy Court
Castle Mound Way
Rugby
CV23 0UZ

Date:18 October 2021.....

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2020**

	Notes	2020 Unrestricted fund €	2019 Total funds €
INCOME AND ENDOWMENTS FROM			
Charitable activities	3		
Charitable activities		36,527	116,551
Investment income	2	-	40
Total		36,527	116,591
EXPENDITURE ON			
Charitable activities	4		
Resources expended		198	655
Charitable activities		39,482	112,324
Other	6	2,396	2,498
Total		42,076	115,477
NET INCOME/(EXPENDITURE)		(5,549)	1,114
RECONCILIATION OF FUNDS			
Total funds brought forward		105,715	104,601
TOTAL FUNDS CARRIED FORWARD		100,166	105,715

The notes form part of these financial statements

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**STATEMENT OF FINANCIAL POSITION
31 December 2020**

	Notes	2020 Unrestricted fund €	2019 Total funds €
CURRENT ASSETS			
Debtors	8	6,166	18,815
Cash at bank		133,400	135,261
		139,566	154,076
CREDITORS			
Amounts falling due within one year	9	(39,400)	(48,361)
NET CURRENT ASSETS		100,166	105,715
TOTAL ASSETS LESS CURRENT LIABILITIES		100,166	105,715
NET ASSETS		100,166	105,715
FUNDS			
Unrestricted funds	10	100,166	105,715
TOTAL FUNDS		100,166	105,715

The financial statements were approved by the Board of Trustees and authorised for issue on ...27. September 2021..... and were signed on its behalf by:


.....
H J Feise - Trustee


.....
G Veronesi - Trustee


.....
D Bogle - Trustee

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS
for the year ended 31 December 2020**

1. ACCOUNTING POLICIES

Basis of preparing the financial statements

The financial statements of the charity, which is a public benefit entity under FRS 102, have been prepared in accordance with the Charities SORP (FRS 102) 'Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019)', Financial Reporting Standard 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' and the Charities Act 2011. The financial statements have been prepared under the historical cost convention.

The presentational currency of this charity is Euros because this is also the functional currency.

The charity has taken advantage of the following disclosure exemptions in preparing these financial statements, as permitted by FRS 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland':

- the requirements of Section 7 Statement of Cash Flows.

Going concern

The trustees have assessed the financial position of the charitable company.

At 31 December 2020 the company had net current assets of £93,623 (2019: £105,715) and net assets of £93,623 (2019: £105,715). The trustees have assessed future cash flow forecasts and the impact of the COVID-19 outbreak and consider the company to have sufficient resources to meet its liabilities as they fall due for at least twelve months from the signing of these financial statements and have therefore prepared the financial statements on a going concern basis.

Income

Licence fees and subscription income is recognised in the Statement of Financial Activities once the charity has entitlement to the funds, it is probable that the income will be received and the amount can be measured reliably.

Expenditure

Liabilities are recognised as expenditure as soon as there is a legal or constructive obligation committing the charity to that expenditure, it is probable that a transfer of economic benefits will be required in settlement and the amount of the obligation can be measured reliably. Expenditure is accounted for on an accruals basis and has been classified under headings that aggregate all cost related to the category. Where costs cannot be directly attributed to particular headings they have been allocated to activities on a basis consistent with the use of resources.

Taxation

The charity is exempt from tax on its charitable activities.

Fund accounting

Unrestricted funds can be used in accordance with the charitable objectives at the discretion of the trustees.

Restricted funds can only be used for particular restricted purposes within the objects of the charity. Restrictions arise when specified by the donor or when funds are raised for particular restricted purposes.

Further explanation of the nature and purpose of each fund is included in the notes to the financial statements.

Foreign currencies

At each year end foreign currency monetary items are translated using the closing rate. Non-monetary items measured at historical cost are translated using the exchange rate at the date of the transaction and non-monetary items measured at fair value are measured using the exchange rate when fair value was determined.

Foreign exchange gains and losses resulting from the settlement of transactions and from the translation at the year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the statement of financial activities.

Financial instruments

The charity has chosen to adopt the Sections 11 and 12 of FRS 102 in respect of financial instruments.

- (i) Financial assets

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2020**

1. ACCOUNTING POLICIES - continued

Financial instruments

Basic financial assets, including debtors and cash and bank balances are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the transaction is measured at the present value of the future receipts discounted at a market rate of interest.

(ii) Financial liabilities

Basic financial liabilities, including creditors are initially recognised at transaction price, unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future receipts discounted at a market rate of interest.

Cash and cash equivalents

Cash and cash equivalents are represented by cash in hand, deposits held at call with financial institutions, and other short-term highly liquid investments that mature in no more than three months from the date of acquisition and that are readily convertible to known amounts of cash with insignificant risk of change in value.

Critical accounting estimates and assumptions

The charity makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

(i) Impairment of debtors

The charity makes an estimate of the recoverable value of trade and other debtors. When assessing impairment of trade and other debtors, the trustees consider factors including the current credit rating of the debtor, the ageing profile of debtors and historical experience.

2. INVESTMENT INCOME

	2020	2019
	€	€
Interest receivable	-	40
	<u> </u>	<u> </u>

3. INCOME FROM CHARITABLE ACTIVITIES

		2020	2019
	Activity	€	€
Subscription income	Charitable activities	33,995	33,519
Licence fee	Charitable activities	2,532	59,032
Sponsorship	Charitable activities	-	24,000
		<u> </u>	<u> </u>
		36,527	116,551
		<u> </u>	<u> </u>

4. CHARITABLE ACTIVITIES COSTS

	Direct Costs (see note 5)	Support costs	Totals
	€	€	€
Resources expended	-	198	198
Charitable activities	39,482	-	39,482
	<u> </u>	<u> </u>	<u> </u>
	39,482	198	39,680
	<u> </u>	<u> </u>	<u> </u>

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2020**

5. DIRECT COSTS OF CHARITABLE ACTIVITIES

	2020	2019
	€	€
Excellence awards	1,500	17,179
Working party grants	-	858
General secretarial	29,289	28,715
Memberships	-	2,000
Sundries	355	599
Bad debts	(1,835)	7,875
Student Mobility Awards	-	2,500
UK Secretariat Fee	10,173	11,396
Delegate travel support	-	412
Poster prizes	-	300
Jacques Villermaux medal travel	-	490
Administrative projects	-	20,000
Scientific projects	-	20,000
	39,482	112,324
	39,482	112,324

6. OTHER

	2020	2019
	€	€
Independent examination fee	2,628	1,908
Exchange Differences	(232)	590
	2,396	2,498
	2,396	2,498

7. TRUSTEES' REMUNERATION AND BENEFITS

There were no trustees' remuneration or other benefits for the year ended 31 December 2020 nor for the year ended 31 December 2019.

Trustees' expenses

During the year, trustees received reimbursement of expenses of €638 (2019: €1,953) for travel and other expenses.

8. DEBTORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2020	2019
	€	€
Trade debtors	5,809	8,033
Prepayments and accrued income	357	10,782
	6,166	18,815
	6,166	18,815

**EUROPEAN FEDERATION OF CHEMICAL
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**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2020**

9. CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

	2020	2019
	€	€
Trade creditors	29,370	1,285
Other creditors	10,030	47,076
	<u>39,400</u>	<u>48,361</u>

10. MOVEMENT IN FUNDS

	At 1/1/20	Net movement in funds	At
	€	€	31/12/20
			€
Unrestricted funds			
General fund	105,715	(5,549)	100,166
	<u>105,715</u>	<u>(5,549)</u>	<u>100,166</u>

Net movement in funds, included in the above are as follows:

	Incoming resources	Resources expended	Movement in funds
	€	€	€
Unrestricted funds			
General fund	36,527	(42,076)	(5,549)
	<u>36,527</u>	<u>(42,076)</u>	<u>(5,549)</u>

Comparatives for movement in funds

	At 1/1/19	Net movement in funds	At
	€	€	31/12/19
			€
Unrestricted funds			
General fund	104,601	1,114	105,715
	<u>104,601</u>	<u>1,114</u>	<u>105,715</u>

Comparative net movement in funds, included in the above are as follows:

	Incoming resources	Resources expended	Movement in funds
	€	€	€
Unrestricted funds			
General fund	116,591	(115,477)	1,114
	<u>116,591</u>	<u>(115,477)</u>	<u>1,114</u>

**EUROPEAN FEDERATION OF CHEMICAL
ENGINEERING**

**NOTES TO THE FINANCIAL STATEMENTS - continued
for the year ended 31 December 2020**

10. MOVEMENT IN FUNDS - continued

A current year 12 months and prior year 12 months combined position is as follows:

	At 1/1/19 €	Net movement in funds €	At 31/12/20 €
Unrestricted funds			
General fund	104,601	(4,435)	100,166
TOTAL FUNDS	<u>104,601</u>	<u>(4,435)</u>	<u>100,166</u>

A current year 12 months and prior year 12 months combined net movement in funds, included in the above are as follows:

	Incoming resources €	Resources expended €	Movement in funds €
Unrestricted funds			
General fund	153,118	(157,553)	(4,435)
TOTAL FUNDS	<u>153,118</u>	<u>(157,553)</u>	<u>(4,435)</u>

11. RELATED PARTY DISCLOSURES

There were no related party transactions for the year ended 31 December 2020.

**EUROPEAN FEDERATION OF CHEMICAL
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**DETAILED STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 December 2020**

	2020 €	2019 €
INCOME AND ENDOWMENTS		
Investment income		
Interest receivable	-	40
Charitable activities		
Subscription income	33,995	33,519
Licence fee	2,532	59,032
Sponsorship	-	24,000
	36,527	116,551
Total incoming resources	36,527	116,591
EXPENDITURE		
Charitable activities		
Excellence awards	1,500	17,179
Working party grants	-	858
General secretarial	29,289	28,715
Memberships	-	2,000
Sundries	355	599
Bad debts	(1,835)	7,875
Student Mobility Awards	-	2,500
UK Secretariat Fee	10,173	11,396
Delegate travel support	-	412
Poster prizes	-	300
Jacques Villermaux medal travel	-	490
Administrative projects	-	20,000
Scientific projects	-	20,000
	39,482	112,324
Other		
Independent examination fee	2,628	1,908
Exchange Differences	(232)	590
	2,396	2,498
Support costs		
Finance		
Bank charges	198	655
Total resources expended	42,076	115,477
Net (expenditure)/income	(5,549)	1,114

This page does not form part of the statutory financial statements