

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

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**EUROPEAN FEDERATION OF CHEMICAL  
ENGINEERING**

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for the year ended 31 December 2023**

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**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

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### 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 HINRICHSSEN, 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. Angelique 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, 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

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

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- 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

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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

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### 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.

## 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



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**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**

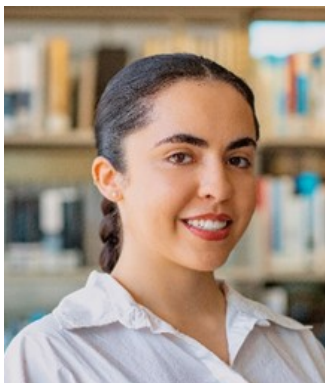
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**Alexandra Antunes - 1st prize**

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.



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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.

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### 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 CO<sub>2</sub>, 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](https://europea.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 Papathanasiou at ECCE & ECAB in Berlin and Maximilian Kohns at E2DT in Palermo.

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### 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](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](http://bit.ly/EFCE_LinkedIn)

Twitter: [https://twitter.com/@EFCE\\_Comms](https://twitter.com/@EFCE_Comms)

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

YouTube: <https://www.youtube.com/channel/UCxuvfb5ST3DMHLAwZ6326w>

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**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 co-opted member.

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

**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  
ENGINEERINGREPORT 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 Pichard~~  
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 on 25-8-24 and signed on its behalf by:

.....  
G Veronesi - Trustee

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

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**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.



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

	Notes	Unrestricted fund €	Restricted fund €	2023 Total funds €	2022 Total funds €
<b>CURRENT ASSETS</b>					
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
<b>CREDITORS</b>					
Amounts falling due within one year	9	(82,067)	-	(82,067)	(5,895)
<b>NET CURRENT ASSETS</b>		<u>135,477</u>	<u>16,861</u>	<u>152,338</u>	<u>118,782</u>
<b>TOTAL ASSETS LESS CURRENT LIABILITIES</b>		135,477	16,861	152,338	118,782
<b>PROVISIONS FOR LIABILITIES</b>	10	-	-	-	(6,055)
<b>NET ASSETS</b>		<u>135,477</u>	<u>16,861</u>	<u>152,338</u>	<u>112,727</u>
<b>FUNDS</b>	11				
Unrestricted funds				135,477	94,866
Restricted funds				<u>16,861</u>	<u>17,861</u>
<b>TOTAL FUNDS</b>				<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**

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**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**

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

**3. RAISING FUNDS**

**Other trading activities**

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

**4. CHARITABLE ACTIVITIES COSTS**

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

**EUROPEAN FEDERATION OF CHEMICAL  
ENGINEERING**

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

**5. DIRECT COSTS OF CHARITABLE ACTIVITIES**

	<b>2023</b>	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><b>70,956</b></u>	<u><b>63,518</b></u>

**6. OTHER**

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

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

**EUROPEAN FEDERATION OF CHEMICAL  
ENGINEERING**

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

**9. CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR**

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

**10. PROVISIONS FOR LIABILITIES**

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

**11. MOVEMENT IN FUNDS**

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

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

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

**Comparatives for movement in funds**

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

**EUROPEAN FEDERATION OF CHEMICAL  
ENGINEERING**

**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 €
<b>Unrestricted funds</b>			
General fund	53,682	(65,856)	(12,174)
<b>Restricted funds</b>			
Restricted Fund	17,861	-	17,861
	<u>71,543</u>	<u>(65,856)</u>	<u>5,687</u>
<b>TOTAL FUNDS</b>			

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 €
<b>Unrestricted funds</b>			
General fund	107,040	28,437	135,477
<b>Restricted funds</b>			
Restricted Fund	-	16,861	16,861
	<u>107,040</u>	<u>45,298</u>	<u>152,338</u>
<b>TOTAL FUNDS</b>			

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 €
<b>Unrestricted funds</b>			
General fund	167,950	(139,513)	28,437
<b>Restricted funds</b>			
Restricted Fund	17,861	(1,000)	16,861
	<u>185,811</u>	<u>(140,513)</u>	<u>45,298</u>
<b>TOTAL FUNDS</b>			

**12. RELATED PARTY DISCLOSURES**

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

**EUROPEAN FEDERATION OF CHEMICAL  
ENGINEERING**

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

	2023 €	2022 €
<b>INCOME AND ENDOWMENTS</b>		
<b>Charitable activities</b>		
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>
	<u>114,268</u>	<u>71,543</u>
<b>Total incoming resources</b>	<b>114,268</b>	<b>71,543</b>
<b>EXPENDITURE</b>		
<b>Other trading activities</b>		
Bad debts	185	-
<b>Charitable activities</b>		
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>
	<b>70,956</b>	<b>63,518</b>
<b>Other</b>		
Independent examination fee	3,453	2,448
Exchange Differences	<u>49</u>	<u>(147)</u>
	<b>3,502</b>	<b>2,301</b>
<b>Support costs</b>		
<b>Finance</b>		
Bank charges	<u>14</u>	<u>37</u>
<b>Total resources expended</b>	<u><b>74,657</b></u>	<u><b>65,856</b></u>
<b>Net income</b>	<u><b>39,611</b></u>	<u><b>5,687</b></u>