



Perspectives on European Chemical Engineering

Professor Richard Darton, EFCE President
Berlin, 25 September 2011

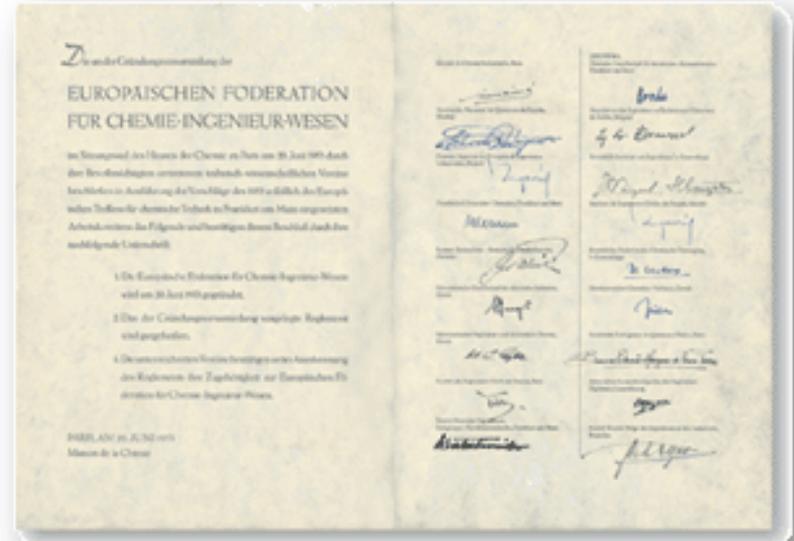
The European Federation of Chemical Engineering

A non-profit association, formed:1953

Today: 39 member societies represent 100,000 chemical engineers in Europe, from Ireland to Russia.

Newest members: Turkey and Israel.

Corresponding societies in Brazil, Canada, India, Japan, Nigeria, South Africa and USA.



Objective: to promote co-operation in Europe between non-profit-making professional scientific and technical societies for the general advancement of chemical engineering and as a means of furthering the development of chemical engineering...

What does EFCE do?

A network including 20 working parties and 6 Sections embracing 1000 experts from academia and industry covering:

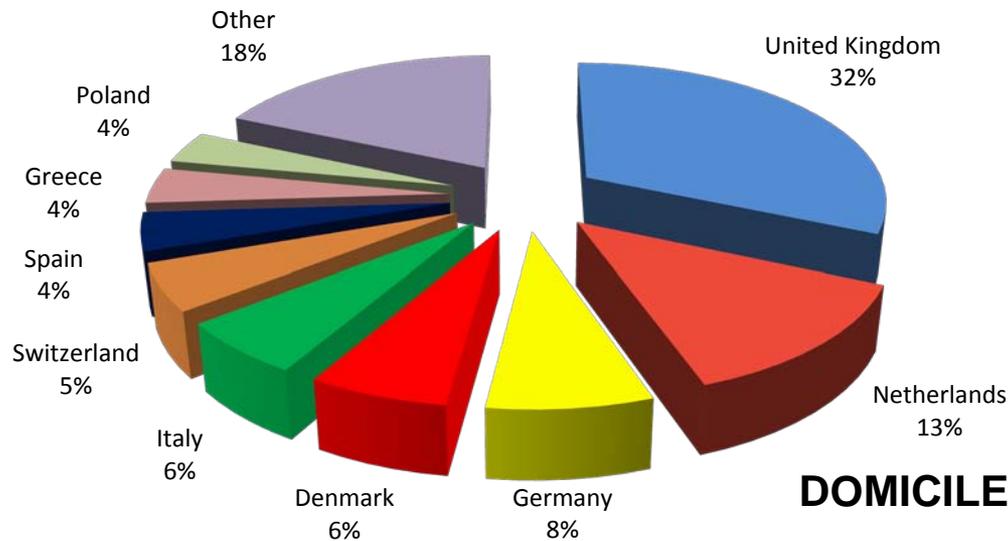
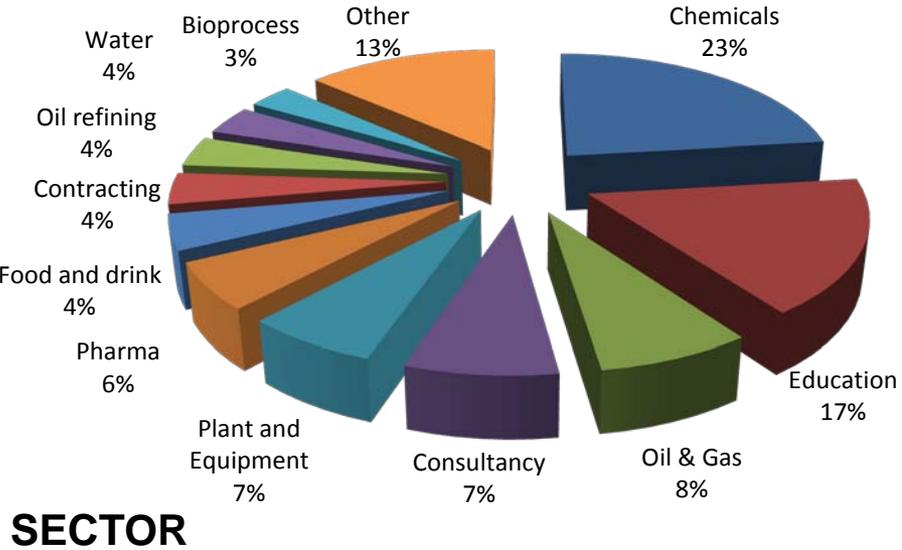
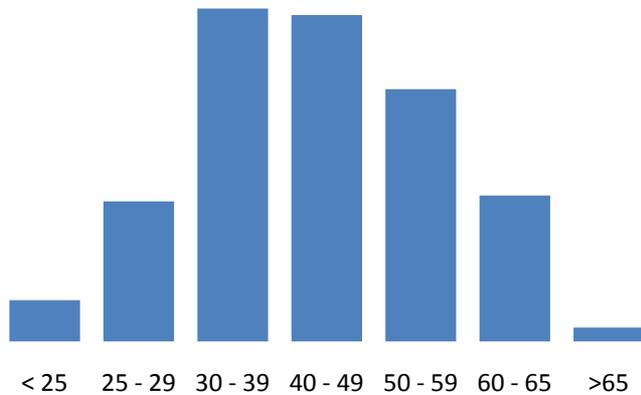
- Food, Product Design
- Education
- Safety & Loss Prevention, Environment and Sustainability
- Thermodynamics, Reaction Engineering, Separations and more...

Supporting awards, meetings, student mobility, standardisation, sharing/specifying best practice, publications. We aim to help all member societies and their members address issues in **Technology, business, education and regulation**



The EFCE 'Perspectives' Survey

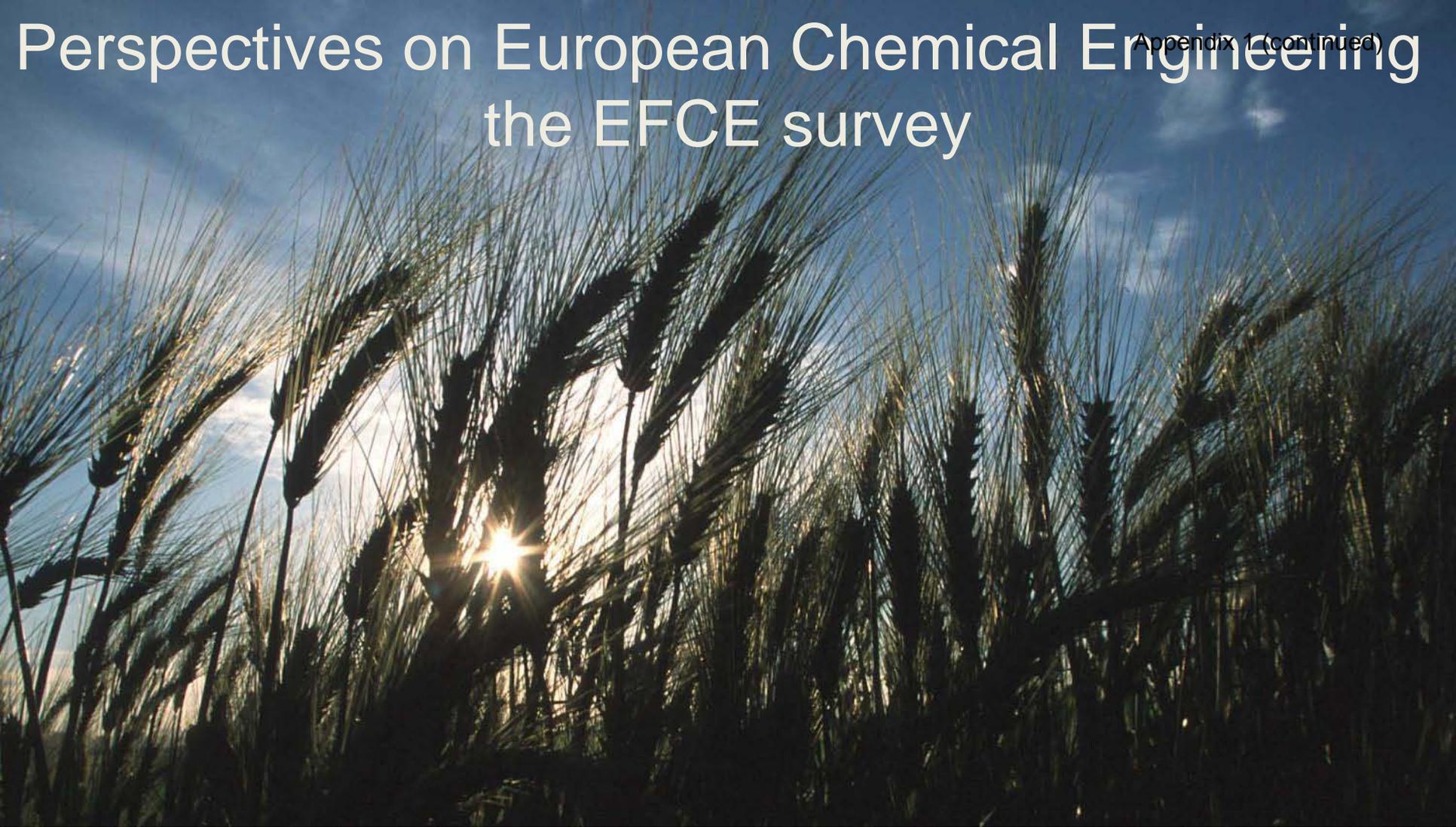
AGE DISTRIBUTION



1797
Responses in
35 European
Countries

Perspectives on European Chemical Engineering the EFCE survey

Appendix 1 (continued)



Career Satisfaction

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Chemical Engineering is the right career for me...



83%
AGREE



84%
AGREE



84%
AGREE



94%
AGREE



96%
AGREE

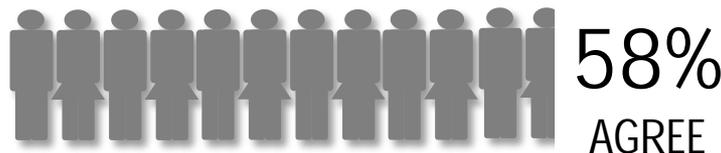
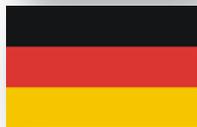
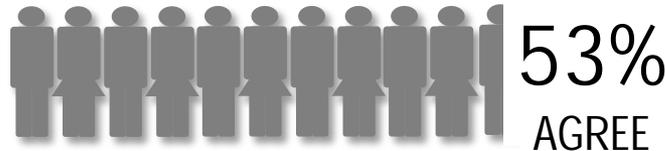


84%
AGREE



Industry Support

I was helped by industry during my education and training...

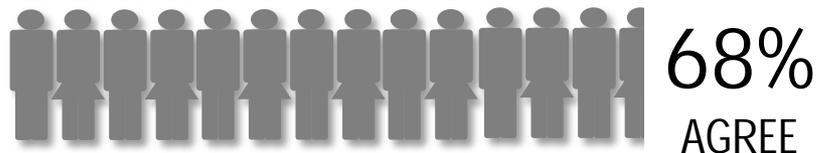




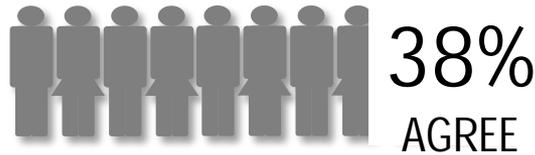
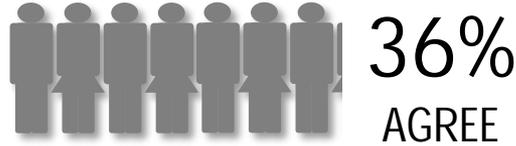
Prospects and Mobility

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There are good opportunities for chemical engineers in my country...



I may be working in another country in five years time...”

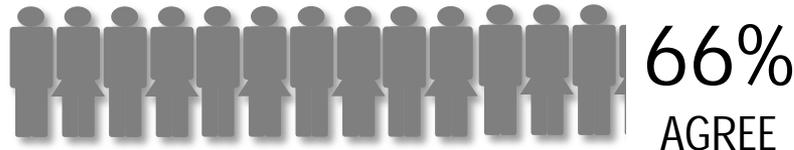
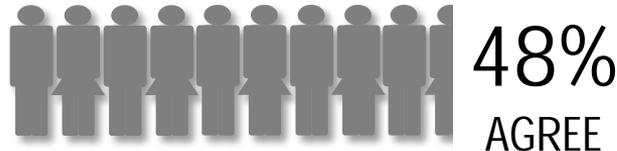




Ethical Standards

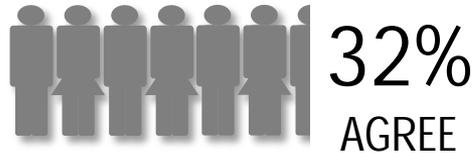
Ethics

“My education and training gave me a strong understanding of ethical standards and behaviours...”



Ethics

“I require training to help me deal with ethical issues...”



Ethics

“I am confident that my management has a genuine commitment to ethical standards...”



74%
AGREE



84%
AGREE



76%
AGREE



81%
AGREE



78%
AGREE



44%
AGREE



Energy & Climate Change

Energy & Climate Change

“Climate change is a big challenge for the future of humanity...”



81%
AGREE



83%
AGREE



74%
AGREE



82%
AGREE



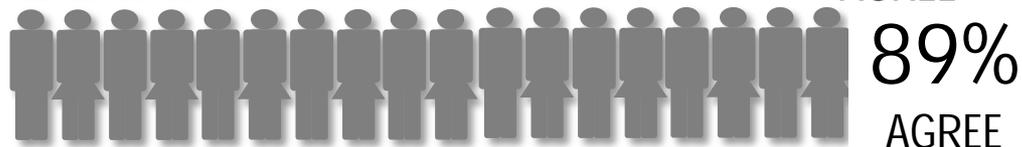
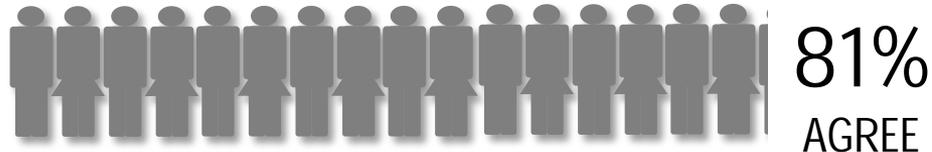
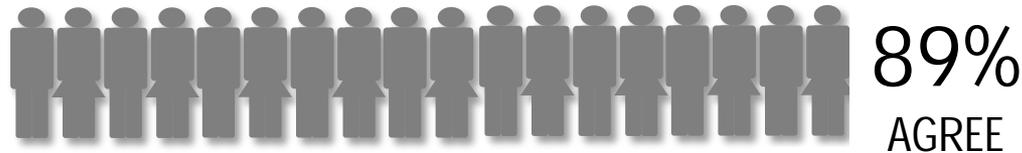
90%
AGREE



76%
AGREE

Energy & Climate Change

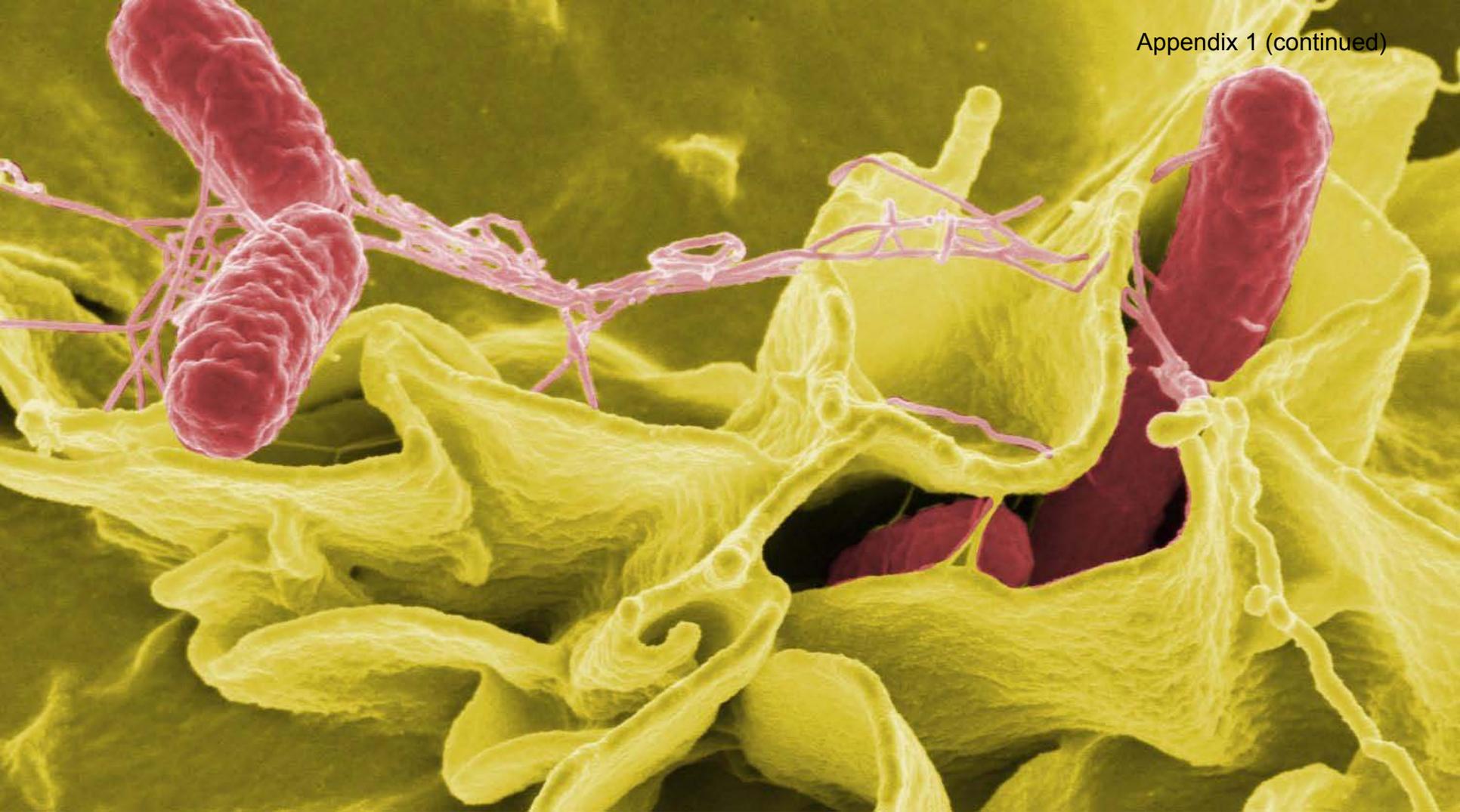
“My country must do more to reduce its reliance on fossil fuels...”



Energy & Climate Change

“I need more factual information to understand energy and climate issues...”



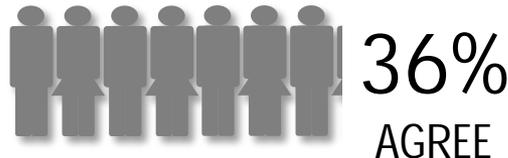
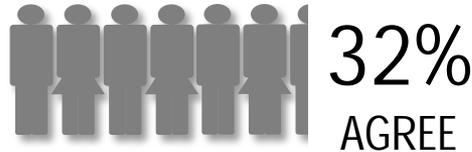


Biological Engineering

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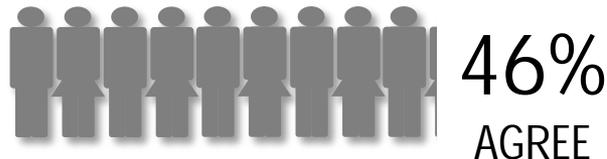
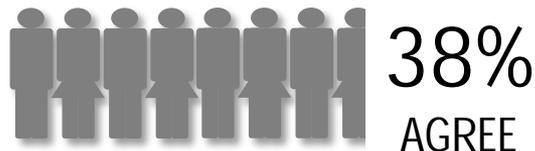
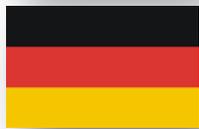
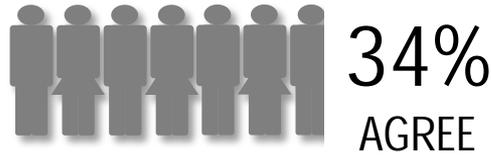
Biological Engineering

“Bioscience is important in my current role...”



Biological Engineering

“My future lies in bioprocess engineering...”





From survey to strategy

- Biofutures: to ensure that “bio” is part of the programme
- Ethics and professional standards: raising awareness
- Energy, climate change and the low carbon economy
- Innovation, employment and mobility

Delivering the strategy

- Strategy, planning and **delivery** is focus for your Board
- EFCE as a portal for knowledge and networking (website/e)
- Supporting Member Societies and *their* members
- Engage more with industry and policy makers eg around employment and mobility issues, major challenges



Perspectives on European Chemical Engineering

Further information: Andy Furlong
EFCE Secretariat, c/o IChemE, Rugby, CV21 3HQ, UK
t: +44 1788 534484 e: afurlong@icheme.org

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2010 EFCE Year End Financial Report

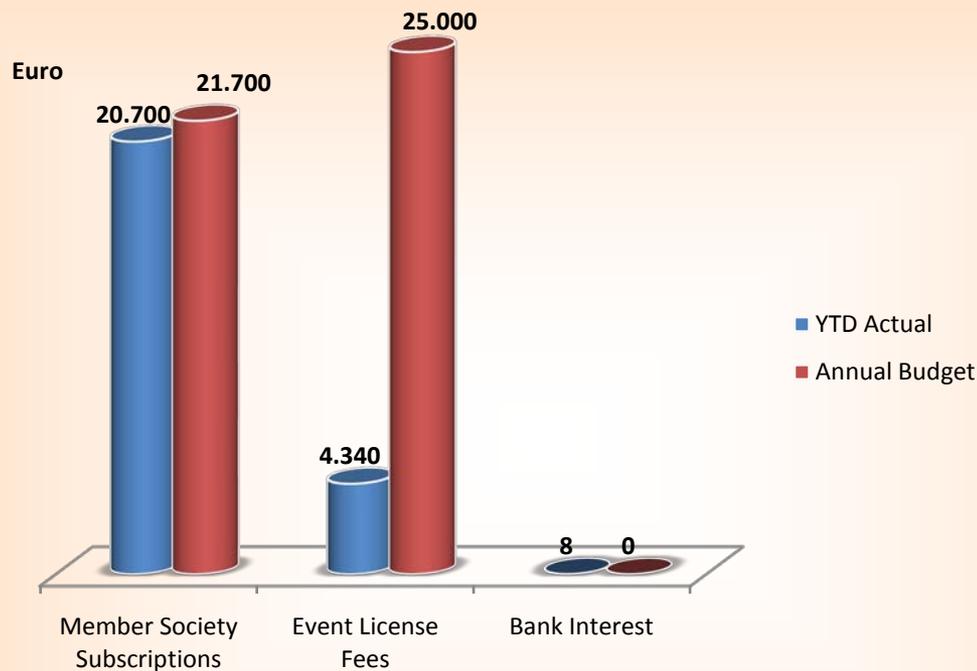
Revenue Account as at 31 December 2010

	Notes	2010		2009		Annual Budget 2010
		€	€	€	€	€
INCOME						
Licence fee for EFCE Events			15,530		11,550	14,200
Member Society Subscriptions	(A)		21,700		21,450	21,700
Bank Interest			0		407	500
Total			37,230		33,407	36,400
EXPENDITURE						
EFCE Newsletter & Journal News Pages		(4,193)		(4,050)		(3,000)
Bank charges		(730)		(280)		(350)
Excellence Awards		(11,000)		(3,915)		(14,000)
Officer's Expenses		(3,334)		(11,780)		(10,000)
Sundries		(413)		0		(2,000)
Student Mobility Awards		0		(8,481)		0
Working Party Grants		(3,904)		(300)		(13,400)
Provision for bad debt		0		0		(1,500)
Poster Prizes		(1,000)		0		(1,000)
Delegate Travel Support		(6,010)		0		(6,000)
EFCE Roadmap Project		0		0		(10,000)
Perspectives Project		(9,100)		0		(10,000)
Dieter Behrens Medal Winner Travel Grant		(321)		0		(1,000)
Total			(40,007)		(28,806)	(72,250)
Net Surplus to Reserves			(2,777)		4,601	(35,850)



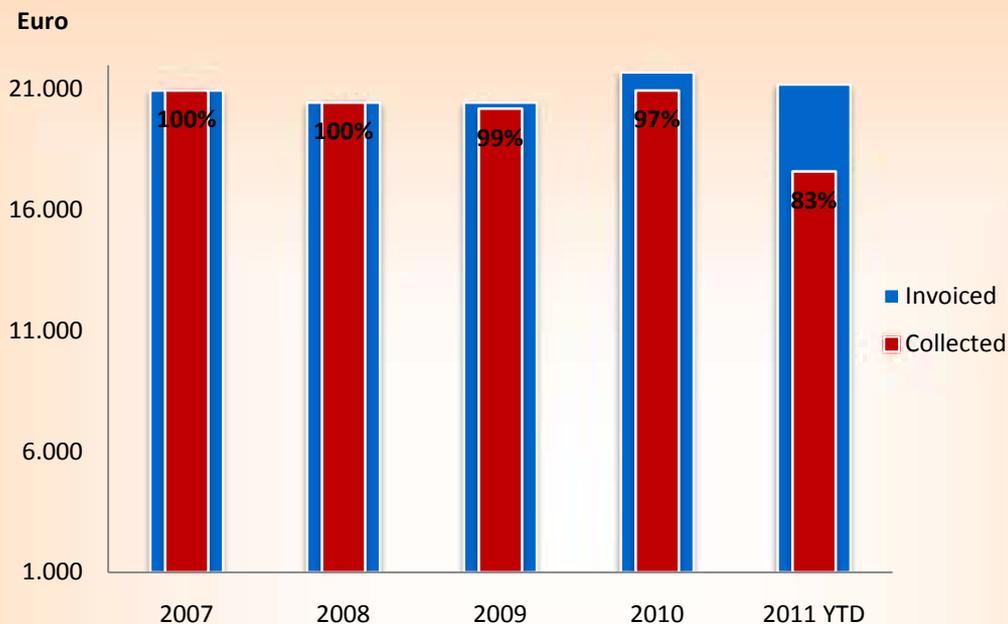
EFCE Finances as at 31 August 2011

1. Income Against 2011 Budget



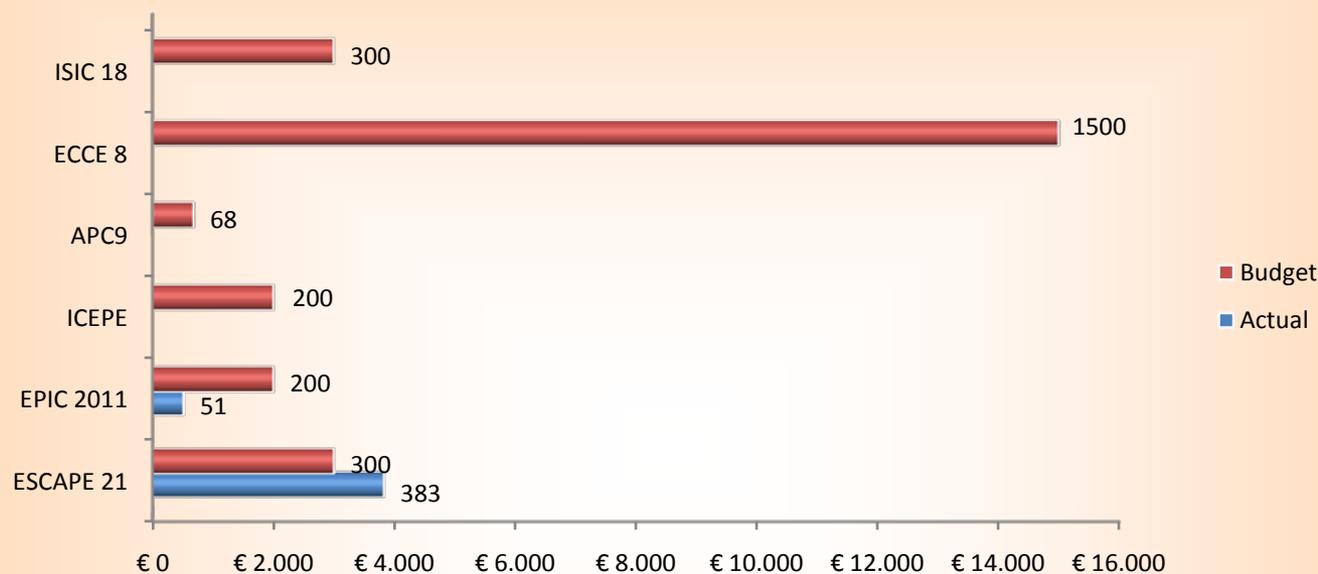
➤ Member society subscriptions includes €4,100 subscription debtors

2. Member Society Income



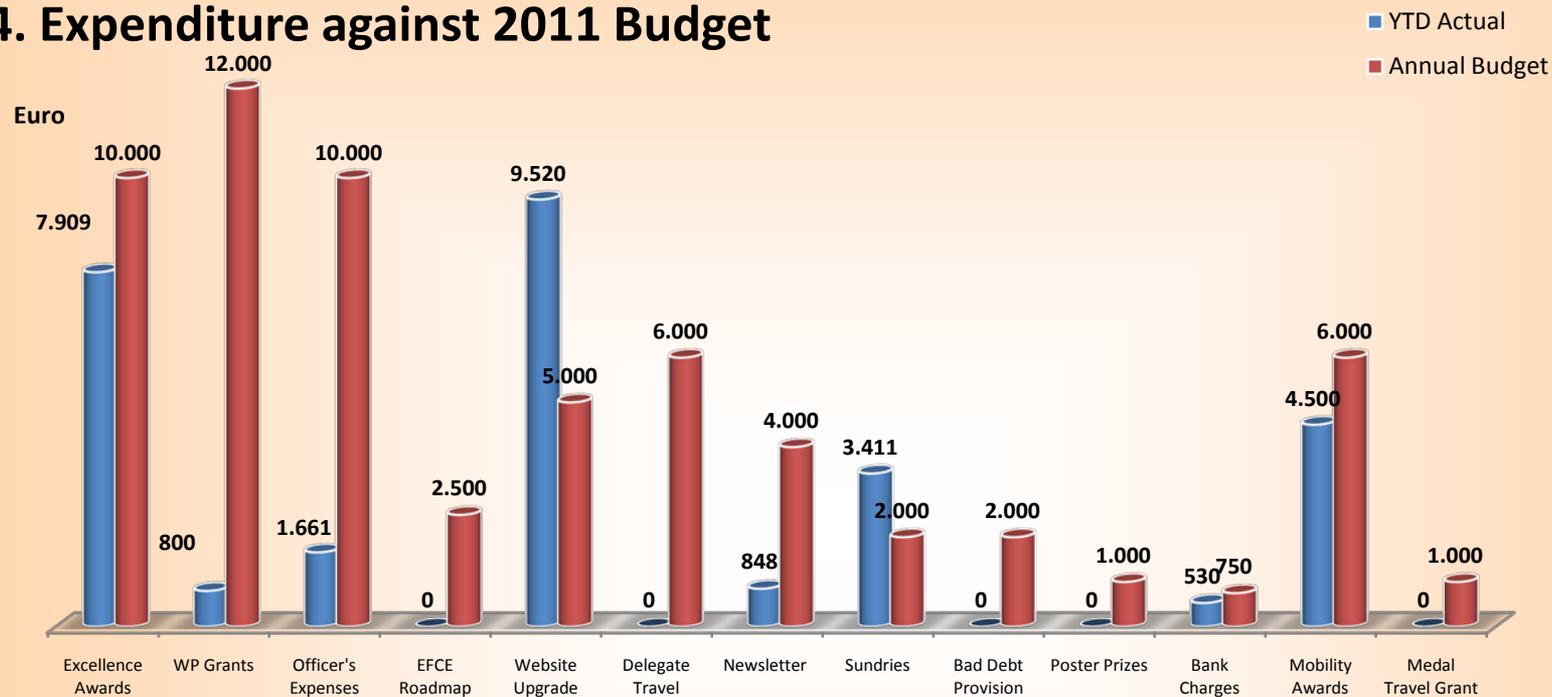
- 83% of the income budgeted for 2011 has been collected
- 3 member societies have more than one year's subscription fee outstanding:
 - Mendeleev
 - Russian Engineering Academy
 - Ukrainian Association

3. Event License Fee Income - Events to Date

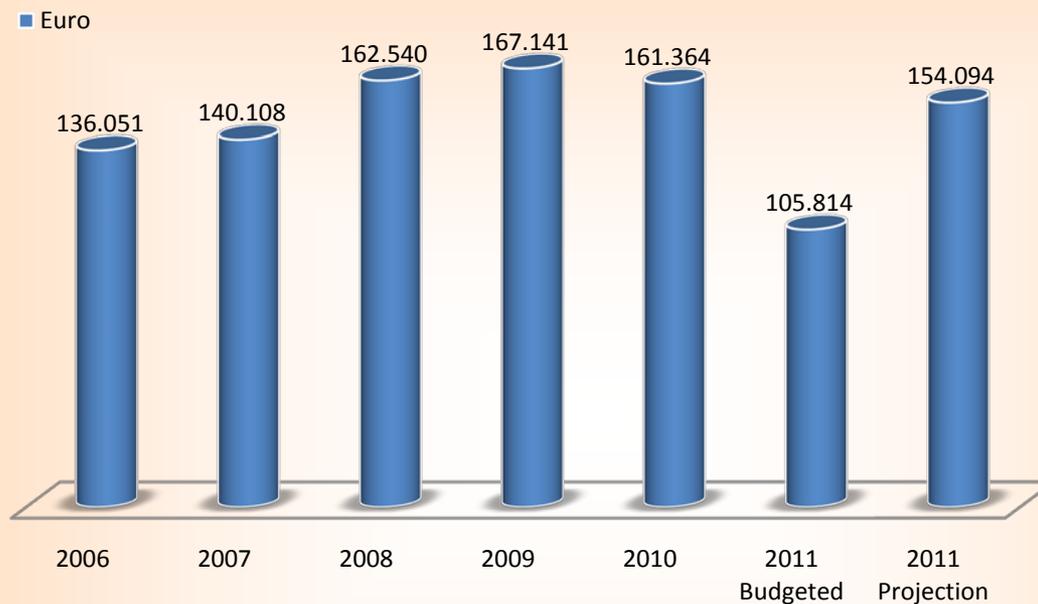


- Two EFCE branded conferences have taken place with an income of €4,340 against a budget of €5,000.
- Actual and budgeted delegate numbers are shown above

4. Expenditure against 2011 Budget



5. Closing Reserve Fund Balance



- 2011 Budgeted balance assumes all expenditure budgeted has been spent
- 2011 Projection balance assumes that not all expenditure budgeted in 2011 will be spent

Revenue Account
For the Period to 31 August 2011

	2011 €	2010 €	Annual Budget €
Income			
Subscription Income 2010	0	22,700	0
Subscription Income 2011	20,700	0	21,700
License Fee for Events	4,340	15,530	25,000
Accrued Income	0	0	0
Bank Interest	8	0	0
Total	25,048	38,230	46,700
Expenditure			
Officer's Expense	(1,661)	(3,334)	(10,000)
Working Party Grants	(800)	(3,904)	(12,000)
Excellence Awards	(7,909)	(11,000)	(10,000)
Delegate Travel support	0	(6,010)	(6,000)
Poster Prizes	0	(1,000)	(1,000)
Behrens Medal Travel Grant	0	(321)	0
Perspectives Project	(9,520)	(9,100)	(5,000)
e-Newsletter / PR Group Costs	(848)	(4,193)	(4,000)
Student Mobility Awards	(4,500)	0	(6,000)
EFCE Roadmap Project	0	0	(2,500)
Jacques Villermaux Medal Travel Grant	0	0	(1,000)
Special Projects	0	0	(40,000)
Bank Charges	(531)	(656)	(750)
Sundries	(3,410)	(412)	(2,000)
Bad Debt Provision	0	0	(2,000)
Total	(29,179)	(39,932)	(102,250)
Net Surplus to Reserves	(4,132)	(1,702)	(55,550)

Balance Sheet
As at 31 August 2011

	2011	2010
	€	€
Current Assets		
Sales Control	7,930	23,774
Bank - Current Account	31,013	53,973
Bank - Deposit Account	118,365	118,357
Accrued Income	0	(21,200)
	157,307	174,904
Current Liabilities		
Purchase Control	0	0
Goods Received not Invoiced	0	(13,465)
	0	(13,465)
Capital Employed		
Opening Reserves as at 01 January 2011	161,439	161,439
Net surplus / (Deficit) for the period	(4,132)	
Closing Reserves As at 31 August 2011	157,307	

Notes to the Accounts

(A) Sales Control / Subscription Debtors

Subscription Year	Society	Amount €
2009	Mendelev	250
2010	Mendelev	250
	Russian Engineering	250
	Ukrainian Association	250
2011	Bulgarian Society	100
	Mendelev	250
	Russian Academy	500
	Israel Society	500
	Chambre Technique de Grece	500
	Turkish Chamber	500
	Ukranian Association	250
	Romianan Society	250
	Russian Engineering	250
	Total	4,100
Event Debtor	CERTH	3,830
	Grand Total	7,930



**EFCE General Assembly
Berlin, 25 September 2011**



Report of the Scientific Vice President

Dr. Hermann J. Feise

**BASF SE
GC / Chemical & Process Engineering TT
Carl-Bosch-Strasse 38
67056 Ludwigshafen**



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Report of the Scientific Vice President

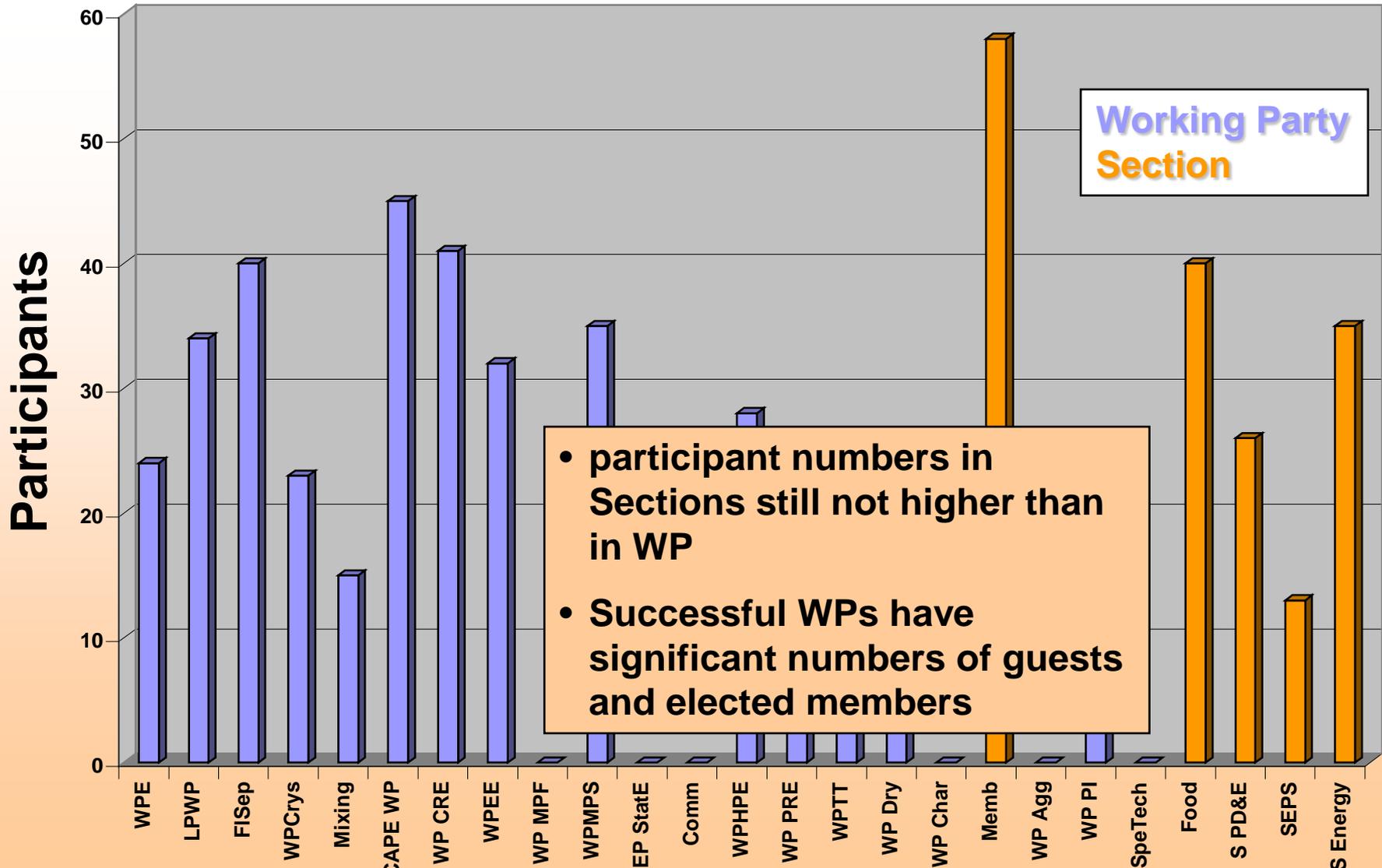
- **Scientific Activities of the EFCE Working Parties and Sections**
 - Statistics
 - Working Parties and Section Details
 - Best practice examples

- **Focus Themes**
 - Visibility of the EFCE
 - Excellence Awards
 - Student Mobility Awards
 - Activities



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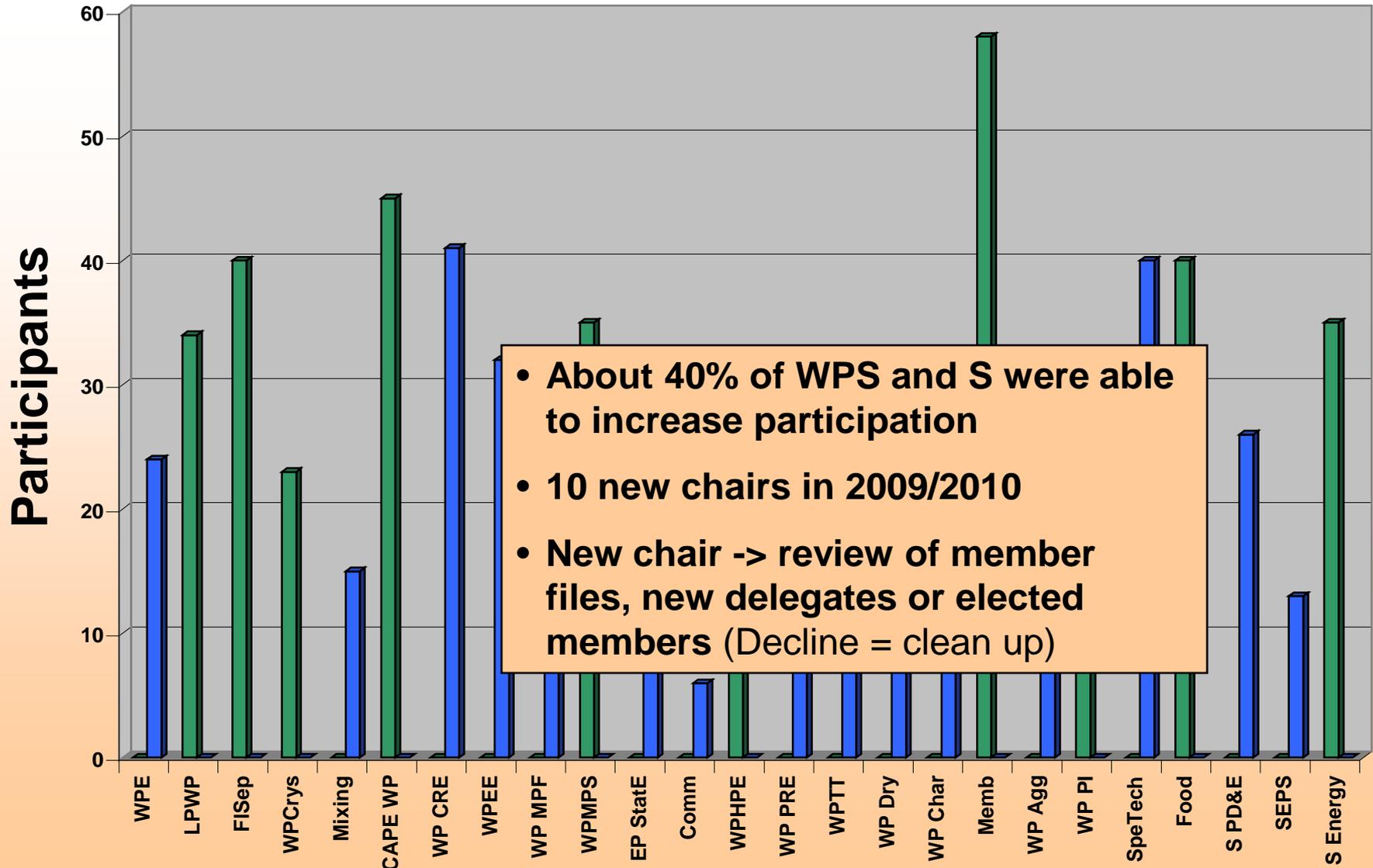
Participants in Working Parties & Sections





EFCE General Assembly, Berlin, 25 September 2011

Participants in Working Parties & Sections





EFCE General Assembly, Berlin, 25 September 2011

Working Parties and Section Details

- **Started since last General Assembly**
 - Section on Process Engineering for Sustainable Energy
 - Chair: Dr. Jullian, F
- **To be re - started**
 - Working Party Characterization of Particulate Systems
 - Chair of the preparatory committee: Dr. Schäfer, D
 - Presentation and decision: Executive Board 24. Sept 2011
 - **SepTech: Section on Separation Technology**
 - Resignation of Chair (Prof. Coca) in Aug 2011
 - Discussion and decision: Executive Board 24. Sept 2011
 - **WP Comminution and Classification**
 - Chair: Prof. Heiskanen, FIN
 - No activity since 2009
 - Crisis meeting in ECCE8



Best Case Examples

- **European Workshop on Food Engineering and Technology**
 - Annual Workshop (since 2007, Berlin)
 - Presentations by 15 to 18 selected PhD students
 - European national food science / engineering organizations select and recommend one candidate each
 - Julius – Maggi Prize; 2500€ (industrial sponsor)
 - Fluctuating interest from industry
- **EFCE Summer Schools**
 - High Pressure Technology: until 2010 ERASMUS Mundus grant; 2011 industrial sponsorship; new grant has been received
 - European Summer School Electrochemical Engineering
 - International School of Crystallization



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Best Case Examples

- **2010 Young investigator event:**
 - Poster competition, ECCE7 – COISA
 - Prague, Czech Republic, August 29, 2010
 - Three Working Parties
 - WP Chemical Reaction Engineering
 - WP Multiphase \hat{O} æFlow
 - WP Process Intensification
 - 27 posters in competition
 - Prize Party
 - Will be repeated during ECCE8, Berlin



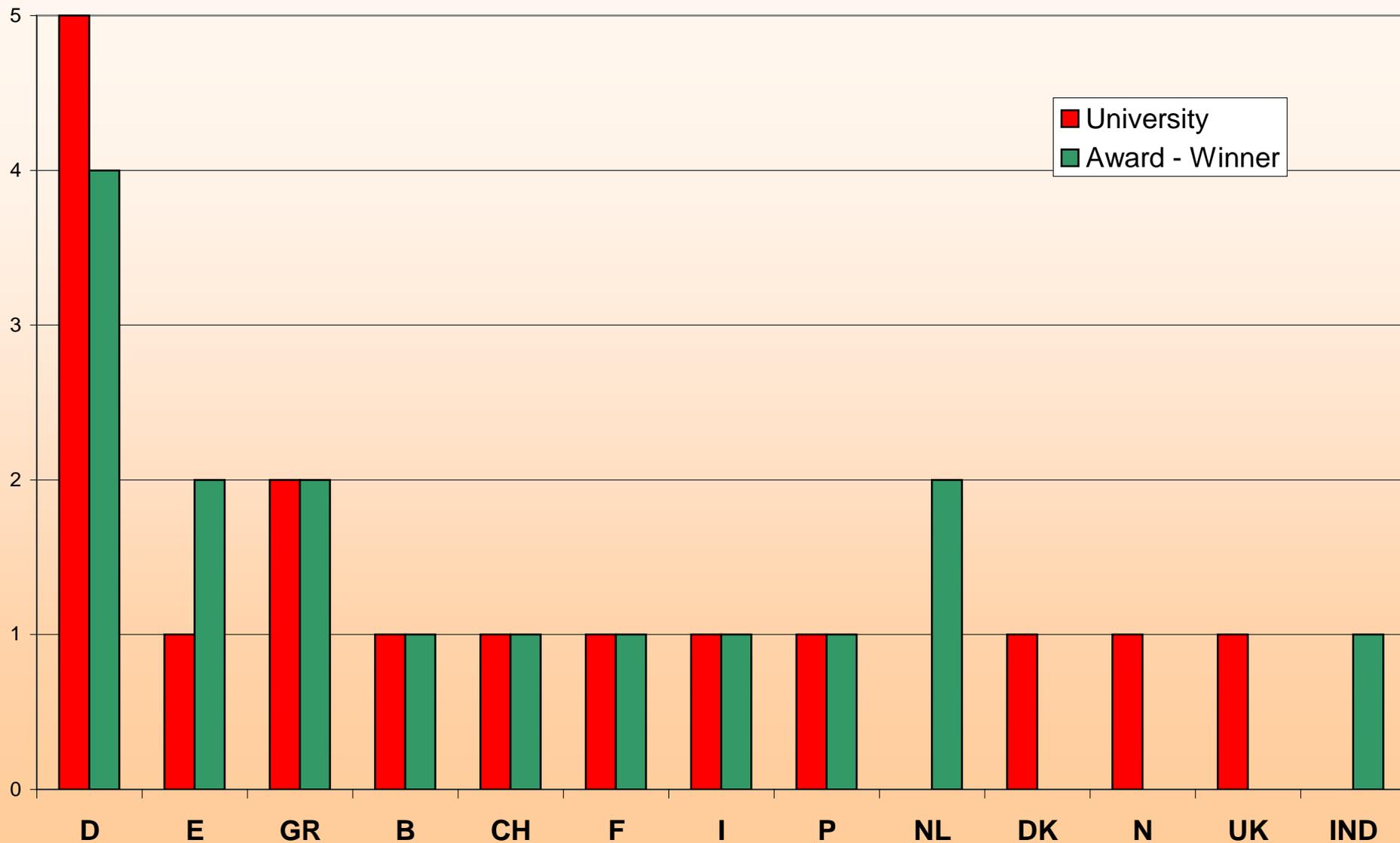
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Focus Theme: Visibility of the EFCE

- **EFCE Task Group recommended to the GA to expand the EFCE Excellence Award scheme in 2007**
- **Activity (2008 – 2012)**
 - CAPE (3)
 - Thermodynamics, Crystallization, Membranes (2)
 - Mixing, Process Intensification, Chemical Reaction Engineering, Mechanics of Particulate Solids, Drying, Electrochemical Engineering, Fluid Separations, Product Design (1)
 - 10 WP and Sections have awarded EFCE Excellence Awards



EFCE General Assembly, Berlin, 25 September 2011





EFCE General Assembly, Berlin, 25 September 2011

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 - 10 WP and Sections have awarded EFCE Excellence Awards
- **Other Award Schemes**
 - Karl – Wagner Medal (WP Electrochemical Engineering)
 - Julius – Maggi Prize (S Food)
 - Helmut – Krämer Award (Static Electricity)
 - Long Term Achievement Awards (CAPE, Mixing)
 - International Fellow Award, Young Scientist Award (Static Electricity)
 - Recent Innovative Contribution Award (CAPE)



EFCE General Assembly, Berlin, 25 September 2011

Focus Theme: Visibility of the EFCE

- **Student Mobility Award**

- 2005: ECCE-5, Glasgow
 - Tobias Kraus; D: TU Munich, D; Cambridge, MA, USA; Neuchatel, CH

Learnings:

- The award goes to students with a lot of international exposure
- Big countries (D, E, F) tend to be better represented than smaller countries
- The number of applications goes down, the quality goes up
- Many applications from the same university

Actions (Options)

- Direct communications to universities
- Distribution through WP Education members
- Special awards requiring fewer stays abroad

- Uwe Zang, D: TU Darmstadt, D; UCBE, USA; U British Columbia, Vancouver, CAN



Activities

- **New chairpersons in 10 WP & Sections**
 - No new chair for WP Comminution and Classification
- **WP & S activities**
 - WP 4: EFCE Recommendation for Chemical Engineering Education in a Bologna Three Cycle Degree System (up-date): learning outcomes for third - cycle education, incorporate developments in the accreditation of engineering programs (August 2010)
 - WP 5: “Process Safety Pays”, education package with video for senior management on process safety
 - WP 13: CHoPS conference 2013 in Friedrichshafen, Germany
 - WP 16: Marie Curie Initial Training Network "Resource and energy efficient products and processes by CO2 »
 - S 22: Erasmus Mundus Doctorate in Membrane Engineering
- **LinkedIn**
 - EFCE group started in 2010
 - eds. Matt Stalker, Hermann Feise; 14 members
 - So far only few EFCE press releases promoted



EUROPEAN FEDERATION
of
CHEMICAL ENGINEERING

Working Parties and Working Party Chairs
Sections and Section Chairs

(February 2012)

Working Party on Education

Dr. Martin J. Pitt
 The University of Sheffield
 Department of Chemical
 and Process Engineering
 Mappin Street
 Sheffield S1 3JD
 United Kingdom

Tel: 0044-114 222 7513
 Fax: 0044-114 222 7501
 E-mail: m.j.pitt@sheffield.ac.uk

Working Party on Computer Aided Process EngineeringInterim Chair:

Prof. Dr. Jiri Klemes
 University of Pannonia
 Marie Curie Chair of Excellence
 P.O. Box 158
 8200 Veszprém
 Hungary

Tel: 0036-88 421 664
 E-mail: klemes@cpi.uni-pannon.hu

Working Party on Loss Prevention and Safety Promotion

Ir. Eddy De Rademaeker
 Prevention Management
 International BVBA
 Waterstraat 63
 2970 Schilde
 Belgium

Tel: 0032-3 321 3222
 Fax: 0032-3 366 3534
 E-mail: pmi.edr@skynet.be

Working Party on Chemical Reaction Engineering

incl. Chemical Engineering in the Application of Catalysis

Prof. dr. ir. Guy B. Marin
 Universiteit Gent
 Laboratory for
 Chemical Technology
 Krijgslaan 281
 9000 Gent
 Belgium

Tel: 0032-9 264 45 17
 Fax: 0032-9 264 49 99
 E-mail: guy.marin@UGent.be

Working Party on Fluid Separations

Dr. Eva Sorensen
 University College London
 Dept. of Chemical Engineering
 Torrington Place
 London WC1E 7JE
 United Kingdom

Tel: 0044-207 679 38 02
 Fax: 0044-207 383 23 48
 E-mail: e.sorensen@ucl.ac.uk

Working Party on Electrochemical Engineering

Prof. Dr. Manuel Andrés Rodrigo
 Universidad Castilla La Mancha
 Chemical Engineering Dept.
 Faculty of Chemistry
 Campus Universitario s/n
 13071 Ciudad Real
 Spain

Tel: 0034-90 2204100
 Fax: 0034-90 2204130
 E-mail: manuel.rodrigo@uclm.es

Working Party on Crystallization

Dr. Béatrice Biscans
 Université de Toulouse
 CNRS-Laboratoire de Génie Chimique
 UMR 5503
 4, Allée Emile Monso, BP 84234
 31432 Toulouse Cedex 4
 France

Tel: 0033-5 34 32 36 38
 Fax: 0033-5 34 32 36 97
 E-mail: Beatrice.Biscans@ensiacet.fr

Working Party on Multiphase Fluid Flow

Prof. Dr. Alfredo Soldati
 Università degli Studi de Udine
 Dipartimento di Energetica
 e Macchine
 Via delle scienze 208
 33100 Udine
 Italy

Tel: 0039-0432 55 80 20
 Fax: 0039-0432 55 80 27
 E-mail: soldati@uniud.it

Working Party on Mixing

Prof. Dr. Joel Bertrand
 CNRS - Campus Gérard Mégie
 3, rue Michel-Ange
 75794 Paris Cedex 16
 France

Tel: 0033-1 4496 5189
 Fax: 0033-1 4496 4965
 E-mail: joel.bertrand@cnrs-dir.fr

Working Party on Mechanics of Particulate Solids

Prof. Dr. Massimo Poletto
 University of Salerno
 via Ponte Don Melillo
 84084 Fisciano (SA)
 Italy

Tel: 0039-089 964 132
 Fax: 0039-089 964 057
 E-mail: mpoletto@unisa.it

Working Party on Static Electricity in Industry

Prof. Dr. Istvan Berta
 Budapest University of Technology and Economics
 Department of Electrical Power Engineering
 Műegyetem rkp. 3-9
 1111 Budapest
 Hungary

Tel: 0036-1 463 27 79
 Fax: 0036-1 463 32 31
 E-mail: berta@shock.hu and/or berta.istvan@vet.bme.hu

Working Party on Drying

Prof. Dr. Patrick Perré
 AgroParisTech – ENGREF
 Bois, Bio-matériaux et Biomasse Team
 14, rue Girardet
 54042 Nancy cedex
 France

Tel: 0033-383 39 68 90
 Fax: 0033-383 39 68 47
 E-mail: perre@nancy-engref.inra.fr

Working Party on Comminution and Classification

Prof. Dr.-Ing. Arno Kwade
 TU Braunschweig
 iPAT
 Volkmaroder Str. 5
 38104 Braunschweig
 Germany

Tel: 0049-531 391 9613
 Fax: 0049-531 391 9633
 E-mail: a.kwade@tu-braunschweig.de

Working Party on Characterisation of Particulate Systems

Dr. Michael Schäfer
 BASF SE
 GCP /TP - L 543
 67056 Ludwigshafen
 Germany

Tel: 0049-621 60 792 64
 Fax: 0049-621 60 66 79264
 E-mail: michael.schaefer@basf.com

Working Party on High Pressure Technology

Prof. Dr.-Ing. Eberhard Schlücker
 University Erlangen Nuremberg
 Institute of Process Machinery and
 Systems Technology
 Cauerstr. 4
 91058 Erlangen
 Germany

Tel: 0049-9131 85 29450
 Fax: 0049-9131 85 29449
 E-mail: sl@ipat.uni-erlangen.de

Working Party on Polymer Reaction Engineering

Prof. Dr. Timothy McKenna
 CNRS C2P2/LCPP
 UMR 5265
 43 Blvd du 11 Novembre 1918
 Bat. F308, BP 2077
 69616 Villeurbanne cedex
 France

Tel: 0033-4-7243 1766
 Fax: 0033-4-7243 1768
 E-mail: mckenna@cpe.fr or
 timothy.mckenna@lcpp.cpe.fr

Working Party on Agglomeration

Prof. Dr. Agba D. Salman
 University of Sheffield
 Dept. of Chemical and Process Engineering
 Mappin Street
 Sheffield S1 3JD
 United Kingdom

Tel: 0044-114 222 75 60
 Fax: 0044-114 222 75 01
 E-mail: a.d.salman@sheffield.ac.uk

Working Party on Process Intensification

Prof. Dr. Ilkka Turunen
 Lappeenranta University
 of Technology
 Dept. of Chemical Technology
 Skinnarilankatu 34
 53850 Lappeenranta
 Finland

Tel: 00358-40 569 2450
 Fax: 00358-40 621 2199
 E-mail: ilkka.turunen@lut.fi

Working Party on Thermodynamics and Transport Properties

Dr. Ioannis G. Economou
 National Research Center for
 Physical Sciences "Demokritos"
 Institute of Physical Chemistry
 Molecular Modelling of
 Materials Laboratory
 153 10 Agia Paraskevi Attikis
 Greece

Tel: 0030-1 650 3963
 Fax: 0030-1 651 1766
 E-mail: economou@chem.demokritos.gr

Section on Product Design and Engineering

Prof. Dr.-Ing. Ulrich Bröckel
 FH Trier
 Umwelt-Campus Birkenfeld
 P.O. Box 1380
 55761 Birkenfeld
 Germany

Tel: 0049-6782 17 1503
 Fax: 0049-6782 17 1265
 E-mail: u.broeckel@umwelt-campus.de

Section on Food

Prof. Dr.-Ing. Dietrich Knorr
 TU Berlin
 Innovative Food Science &
 Technologies (IFSET)
 Königin-Luise-Str. 22
 14195 Berlin
 Germany

Tel: 0049-30 314 71250
 Fax: 0049-30 832 7663
 E-mail: dietrich.knorr@tu-berlin.de

Section on Environmental Protection and Sustainability

Prof. Dr. Angel Irabien
 Universidad de Cantabria
 Ingenieria Quimica y Quimica
 Inorganica
 Avd. de los Castros S/N
 39005 Santander
 Spain

Tel: 0034-94 220 1597
 Fax: 0034-94 220 1591
 E-mail: irabienj@unican.es

Section on Membrane Engineering

Prof. Dr. Enrico Drioli
 Universita di Calabria
 Research Institute on Membrane
 Technology ITM-CNR
 Via P. Bucci, Cubo 17/C
 87030 Arcavacata di Rende
 Italy

Tel: 0039-0984 49 20 39
 Fax: 0039-0984 40 21 03
 E-mail: e.drioli@itm.cnr.it

Section on Process Engineering for Sustainable Energy

Dr. Sophie Jullian
 IFP Energies Nouvelles
 Directrice Scientifique
 1 & 4 Av de Bois Préau
 92852 Rueil Malmaison Cédex
 France

Tel: 0033-4 78 02 27 91
 Fax: 0033-4 78 02 21 41
 E-mail: sophie.jullian@ifpen.fr

Curriculum Vitae

Andreas Schreiner

Address (privat)	Alleeweg 30 B, 4310 Rheinfelden, Switzerland
Address (business)	Novartis Pharma, WSJ-145.1.54, 4056 Basel, Switzerland
E-mail	andreas.schreiner@novartis.com
Date of Birth	27 January 1970
Nationality	german

WORK EXPERIENCE AND QUALIFICATIONS

2006-present **Novartis Pharma, Pharmaceutical & Analytical Department, Switzerland**

Project leader

Responsibilities:

- Leading pharmaceutical development projects.
- Heading the network for Science & Technology.
- Scientific expert for solids processing and purification processes.

2002-2006 **DSM Nutritional Products, Department of Process Technology, Switzerland**

Lab head / Piloting manager

Responsibilities:

- Development of processes for manufacturing and purification of fine chemicals.
- Optimisation of existing processes, particularly solids processing.
- Scale up from lab to pilot scale and supporting the production campaigns/launches.

2000-2002 **Department of Chemical Engineering, University College London, U.K.**

Research fellow, DFG Scholarship

Studies on processes for manufacturing of nanoparticles.

1997-2000 **Department of Chemical Engineering, University Erlangen-Nürnberg, Germany**

PhD study

Research on crystallization phenomena of organic melts.

1992-1997 **Department of Chemical Engineering, University Erlangen-Nürnberg, Germany**

Engineering degree

Study of the subjects: reaction engineering, particle technology, thermal and mechanical separation processes, thermodynamics, fluid dynamics and environmental engineering.

EXTERNAL NETWORKS

Appointed member of the ProcessNet committee “Mechanical Solid / Liquid Separation”

Member of SGVC, Organisation of Process Technology Seminars

Member of VDI, Dechema

Veröffentlichungen

Konferenzen (Vorträge / Poster)

- 1 Schreiner, A., König, A. (1998): *Methodik zur Ermittlung kinetischer Daten von organischen Schmelzen bei der Suspensionskristallisation*, Poster, GVC-Fachausschuß Kristallisation, März, Aachen.
- 2 Herthan, T., Schreiner, A., König, A. (1998): *Untersuchungen zum Reinigungspotential von organischen Schmelzen bei der Suspensionskristallisation*, Seminarvortrag, November, Universität Erlangen.
- 3 Schreiner, A., König, A. (1999): *Berechnung des Kristallisationsverhaltens der batchweisen Suspensionskristallisation von organischen Schmelzen*, Vortrag, GVC-Fachausschuß Kristallisation, März, Berlin.
- 4 König, A., Herthan, T., Schreiner, A. (1999): *Zum Einfluß der fest/flüssig-Trennung auf das Reinigungspotential bei der Suspensionskristallisation*, Vortrag, GVC-Fachausschuß Kristallisation, März, Berlin.
- 5 Schreiner, A., König, A. (1999): *Unterkühlungsverhalten von organischen Schmelzen bei der Suspensionskristallisation*, Poster, Dechema-Jahrestagung, April, Wiesbaden.
- 6 König, A., Schreiner, A. (1999): *Purification Potential of Melt Crystallization*, Vortrag, 2nd Workshop on Industrial Crystallization, September, Bradford.
- 7 Schreiner, A., König, A. (1999): *Estimation of Crystallization Kinetics of Melts from Batch Cooling Experiments*, Poster, 14th International Symposium on Industrial Crystallization, September, Cambridge.
- 8 König, A., Herthan, T., Schreiner, A. (1999): *Purification by Melt Crystallisation of Naphthalene/Biphenyl-Mixtures*, Poster, 14th International Symposium on Industrial Crystallization, September, Cambridge.
- 9 Schreiner, A., König, A. (1999): *Purification Potential of Melt Crystallization*, Vortrag, 7th International Workshop on Industrial Crystallization, September, Halle.
- 10 König, A., Schreiner, A. (2001): *Bestimmung der Kristallisationskinetik in organischen Schmelzen*, Vortrag, 52. Berg- und Hüttenmännischer Tag, Juni, Freiberg.
- 11 Schreiner, A., Jones, A. G. (2001): *Influence of Fluidynamic Conditions on the Crystallization Kinetics of Calcium Oxalate*, Poster, 3rd European Congress of Chemical Engineering, Juni, Nürnberg.
- 12 Schreiner, A. (2001): *Reactive Crystallization and Computational Fluid Dynamic Modeling*, Seminarvortrag, April, University College London.

- 13 Schreiner, A., Jones, A. G. (2001): *Precipitation of CaCO₃ in the Segmented Flow Tubular Reactor (SFTR)*, Poster, 8th International Workshop on Industrial Crystallization, September, Delft.
- 14 Donnet, M., Bowen, P., Jongen, N., Lemaître, J., Hofmann, H., Schreiner, A., Jones, A.G., Schenk, R., Hofmann, C. (2002): *Scale-up from a Millilitre Batch Reactor to Continuous Production Using the Segmented Flow Tubular Reactor. Example of Calcium Carbonate Precipitation*, Vortrag, GVC-Fachauschuß Kristallisation, März, Karlsruhe.
- 15 Schreiner, A. (2004): *Anti-Solvent Precipitation of a Metastable Crystalline Product*, Swiss Symposium on Crystallization and Precipitation (SSCP), Zurich.
- 16 Schreiner, A. (2005): *Prozessentwicklung von Feststoffoperationen aus Sicht der chemischen Industrie*, Kristallisationsseminar, Mettler Toledo, Greifensee (invited lecture).
- 17 Schreiner, A. (2007): *Methodologie der Fest/Flüssig-Trennung*, Filtrationsseminar, DrM, Brienz (invited lecture).
- 18 Schreiner, A. (2007): *Application of Lasentec in the Pharmaceutical Industry*, PAT Seminar, Mettler Toledo, Basel (invited lecture).
- 19 Schreiner, A. (2008): *Untersuchungen zur Massstabsverkleinerung von Filtrationsprozessen*, Vortrag, ProcessNet Fachausschuss Mechanische Fest/Flüssigtrennung, Februar, Würzburg.
- 20 Schreiner, A. (2008): *Miniaturisation of Filtration Processes – A Necessity for the Pharmaceutical Industry*, Vortrag, 10th World Filtration Congress, April, Leipzig.

Schriftliche Veröffentlichungen

- 1 Schreiner, A., König, A. (1998): *Unterkühlungsverhalten von organischen Schmelzen bei der Suspensionskristallisation*, Frankfurt, Max-Buchner Forschungsbericht.
- 2 Schreiner, A., König, A. (1999): *Kristallisationsverhalten von organischen Schmelzen bei der Suspensionskristallisation*, Frankfurt, Max-Buchner Forschungsbericht.
- 3 Schreiner, A., König, A. (2000): *Berechnungen zum Kristallisationsverhalten von organischen Schmelzen bei der Suspensionskristallisation*, Frankfurt, Max-Buchner Forschungsbericht.
- 4 Schreiner, A. (2000): *Kristallisationsverhalten von organischen Schmelzen bei der Suspensionskristallisation*, Dissertation, Erlangen.
- 5 Schreiner, A., König, A. (2001): *Bestimmung der Kristallisationskinetik von organischen Schmelzen bei der Suspensionskristallisation*, Chem. Ing. Tech., 73, No. 1-2, 44-50.
- 6 Schreiner, A., Jones, A. G. (2001): *Influence of Fluidynamic Conditions on the Crystallization Kinetics of Calcium Oxalate*, Chem. Ing. Tech., 73, No. 6, 710.
- 7 Schreiner, A., König, A. (2001): *Purification Potential of Melt Crystallization*, Powder Technol., 121, 88-92.
- 8 Schreiner, A., König, A. (2002): *Influence of Impurities on Nucleation and Growth Rates of Organic Melts*, Chem. Eng. Technol., 25, No. 2, 181-187.
- 9 Jermann, S., Schreiner, A., Schneeberger, R. (2008): *Untersuchungen zur Massstabsverkleinerung von Filtrationsprozessen*, Chem. Ing. Tech., 80, No. 5, 621-628.

European Federation of Chemical Engineering

Executive Board

Term of office: 01.01.2011 – 31.12.2014

Elected members from academia:

Prof. Dr. Vladimir Bales
Slovak Technical University
Rector
Vazovova 5
812 43 Bratislava
Slovakia

Tel: 00421-2 59 32 52 50
Fax: 00421-2 52 49 67 43
Email: vladimir.bales@stuba.sk

Prof. Jiri Drahos
President of the
Academy of Sciences of the
Czech Republic
Narodni 3
117 20 Praha 1
Czech Republic

Tel: 00420-224 229 610
Fax: 00420-224 240 512
Email: drahos@kav.cas.cz

Prof. Dr. Rafiqul Gani
Technical University
of Denmark - DTU
Dept. of Chemical Engineering
Soltofts Plads, Bygning 229
2800 Lyngby
Denmark

Tel: 0045-45 25 28 82
Fax: 0045-45 88 22 58
Email: rag@kt.dtu.dk

Prof. Dr. Angel Irabien
Universidad de Cantabria
Ingenieria Quimica y QI
Avd. de los Castros S/N
39005 Santander
Spain

Tel: 0034-94 2201 597
Fax: 0034-94 2201 591
Email: irabienj@unican.es

Prof. Bozenna Kawalec-Pietrenko
Politechnika Gdanska
Katedra Inzynierii Chemicznej
i Procesowej
ul. Narutowicza 11/12
80-952 Gdansk
Poland

Tel: 0048-58 347 26 10
Fax: 0048-58 347 26 94
Email: kawalec@chem.pg.gda.pl

Dr. Eva Sorensen
 University College London
 Dept. of Chemical Engineering
 Torrington Place
 London WC1E 7JE
 United Kingdom

Tel: 0044-207 679 38 02
 Fax: 0044-207 383 23 48
 Email: e.sorensen@ucl.ac.uk

Elected members from industry:

Dipl.-Ing. Konstantinos Kremalis
 G.P.C.E.
 Greek Pollution Control
 Engineering Company
 140 Harilaou Trikoupi Str.
 11472 Athens
 Greece

Tel: 0030-210 64 70 400
 Fax: 0030-210 64 70 950
 Email: kkrem@tee.gr

Dr. Robert Elliott Low
 INEOS Fluor Ltd.
 The Heath, Runcorn
 Cheshire WA7 4QX
 United Kingdom

Email: bob.low@ineosfluor.com

Mr. Francois Nicol
 VEOLIA Environnement
 Centre de Recherche sur la Propreté
 Dept. Procédés Thermiques et Chimiques
 291 Avenue Dreyfous Ducas
 Zone Portaire de Limay
 78520 Limay
 France

Tel: 0033-1 3098 1396
 Fax: 0033-1 3098 5499
 Email: francois.nicol@veolia.com

Co-opted members:

Dr. -Ing. Andreas Schreiner (*since 24 September 2011*)
 Novartis Pharma AG
 Technical R&D
 WSJ-Virchow 6.1
 4056 Basel
 Switzerland

Email: andreas.schreiner@novartis.com

Dr. Hermann J. Feise (*since 1 January 2012*)
 BASF SE
 GOH/B1
 67056 Ludwigshafen
 Germany

Tel: 0049-621 60 55175
 Fax: 0049-621 60 48990
 Email: hermann.feise@basf.com

EFCE officers and General Secretaries:

Dr. Wridzer Bakker (EFCE *Executive Vice-President*)
 AkzoNobel Industrial Chemicals B.V.
 Business Development Director
 P.O. Box 247
 3800 AE Amersfoort
 The Netherlands
 Tel: 0031-33 467 6719
 Fax: 0031-33 467 6108
 Email: wridzer.bakker@akzonobel.com

Dr. David Brown (*General Secretary*)
 The Institution of
 Chemical Engineers (IChemE)
 Davis Building
 165 - 189 Railway Terrace
 Rugby CV21 3HQ
 United Kingdom
 Tel: 0044-1788 53 4413
 Fax: 0044-1788 55 0904
 Email: dbrown@icheme.org

Prof. Richard C. Darton (*EFCE President*)
 University of Oxford
 Dept. of Engineering Science
 Parks Road
 Oxford OX1 3PJ
 United Kingdom
 Tel: 0044-1865 273 117
 Fax: 0044 1865-273 905
 Email: richard.darton@eng.ox.ac.uk

Jean-Pierre Dal Pont (*General Secretary*)
 SFGP - Société Française
 de Génie des Procédés
 Member of FFC
 28, rue Saint-Dominique
 75007 Paris
 France
 Tel: 0033-1 53 59 02 10
 Fax: 0033-1 45 55 40 33
 Email: delegatesfgp@wanadoo.fr

Prof. Rafiqul Gani (*Scientific Vice-President – since 1.1.2012*)
 Technical University
 of Denmark - DTU
 Dept. of Chemical Engineering
 Soltofts Plads
 2800 Lyngby
 Denmark
 Tel: 0045-45 25 28 82
 Fax: 0045-45 882258
 E-mail: rag@kt.dtu.dk

Dr. Willi Meier (*General Secretary*)
 DECHEMA e.V.
 Theodor-Heuss-Allee 25
 60486 Frankfurt
 Germany
 Tel: 0049-69 7564 143
 Fax: 0049-69 7564 201
 Email: meier@dechema.de

**Application for membership in the
European Federation of Chemical Engineering**

To

The EFCE Executive Board

SKR hereby apply for a membership in EFCE (European Federation of Chemical Engineering). SKR is a non-profit technical society in Sweden with about 1000 members. The society is open only for Chemical engineers. SKR = Sveriges Kemiingenjörers Riksförening (Swedish Association for Chemical Engineers).

SKR is run by a board consisting of six board-members from industry and academia with Dr Göran Svensson as the present chairman. Its main activities are to arrange events where chemical engineers can meet and learn. In principle the activities are arranged in the east (Stockholm area), west (Göteborg area) and south (Skåne area).

Since IVA, for unclear reasons, decided to leave EFCE there has been a lot of activity in Sweden to find another organization which could be a member in EFCE. The board of SKR agreed that SKR is the best body for this. SKR has even been a member in the past.

As a country with a large and important chemical industry we of course must have a member in EFCE and take an active part in the Working Parties and Sections. I hope that this application will be accepted so that Sweden can continue to take part in the EFCE activities.

Göteborg 22/9 2011

Best Regards,



Göran Svensson
(Chairman of SKR)

E-mail: gorans@gorans.se, phone INT + 31 7060452



Rules for Honorary Membership of the EFCE

AWARD

1. The purpose of Honorary Membership is to recognise outstanding leadership of European chemical and process engineering by an individual. The contribution to be recognised will be international in scope and its significance will not be restricted to a particular technical or scientific group.
2. Honorary Membership is awarded whenever the Executive Board of the EFCE shall so determine. The recipient will be presented with a certificate of Honorary Membership by the President of the EFCE at an appropriate international meeting.
3. The award is sponsored by EFCE. The certificate is donated by DECHEMA. Necessary travel and accommodation expenses are borne by EFCE.
4. A citation describing the leadership contribution and its significance will be agreed by the Executive Board, and published following the presentation.

DESIGNATION OF AWARD RECIPIENT

5. The recipient of the award is designated by the Executive Board.
6. Any member society of EFCE, Executive Board member or Chair of an EFCE Working Party or Section can nominate a candidate for Honorary Membership.
7. Nominations must be made in writing to the EFCE office responsible for all administrative affairs related to Honorary Membership and should include a short CV of the nominee and reasons for the nomination. Written proposals must be received by the EFCE office at least one month prior to an Executive Board meeting.
8. Serving members of the Executive Board are not eligible for nomination.
9. The decision of the Executive Board to make an award to a particular candidate is confirmed by vote at a Board meeting at least 3 months prior to the international meeting at which Honorary Membership is to be presented. The award must be supported by a majority of Executive Board members present at the Board meeting and eligible to vote, voting in favour.

ADMINISTRATION

10. The Frankfurt Office is responsible for all administrative affairs related to Honorary Membership.

Agreed by EFCE Executive Board at its meeting at Berlin, 24 September 2011.



EFCE Forum, Berlin, 25 September 2011

ECCE9, The Hague, Shaping a sustainable future



9TH
EUROPEAN
CONGRESS
OF
CHEMICAL
ENGINEERING



The theme will be
**Shaping a Sustainable Future:
Partnership of Academia, Industry
and Society**

The ambition is to make ECCE9 the most comprehensive congress in the 60 year history of the EFCE, encompassing all industrial branches, academic disciplines and society stakeholders related to process technology and chemical engineering.

WORLD FORUM
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