

Perspectives on European Chemical Engineering

Professor Richard Darton, EFCE President Brussels, 30 March 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 <u>all</u> member societies and <u>their</u> members address issues in **technology, business, education** and **regulation**









What are the big issues?

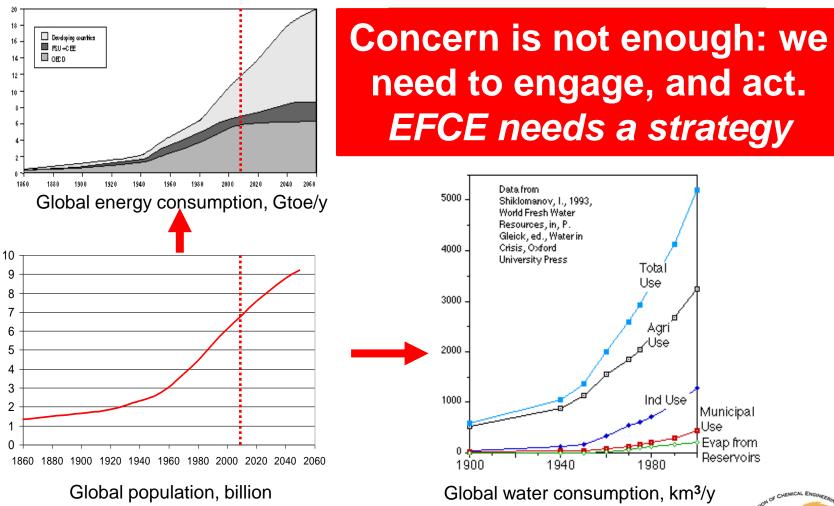


Ludwigshafen, 2007. Photo: BASF

We convert resources on a massive scale, cleanly, safely, and with respect for the environment, to create wealth and welfare for people, but...



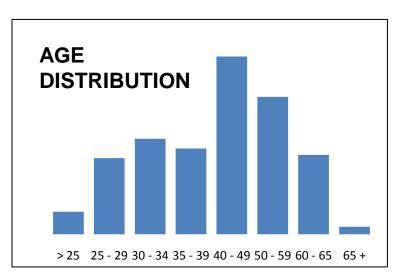
What are the big issues?

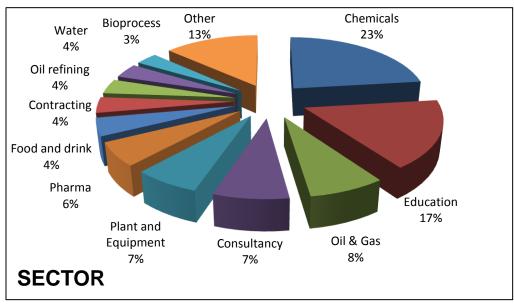


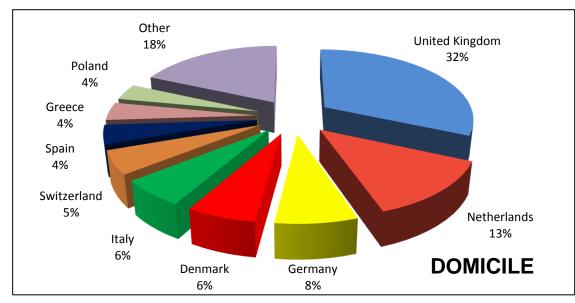
We are becoming increasingly concerned about sustainability



The EFCE 'Perspectives' Survey

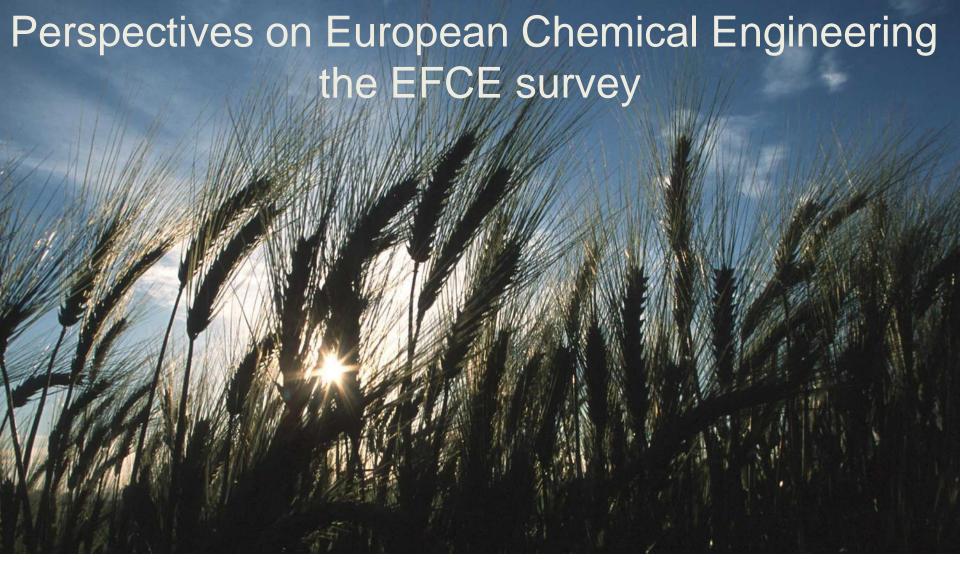






1797
Responses in 35 European Countries





Career Satisfaction

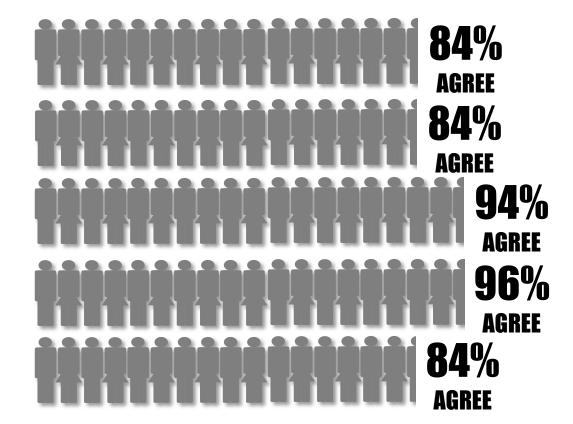


Chemical Engineering is the right career for me...













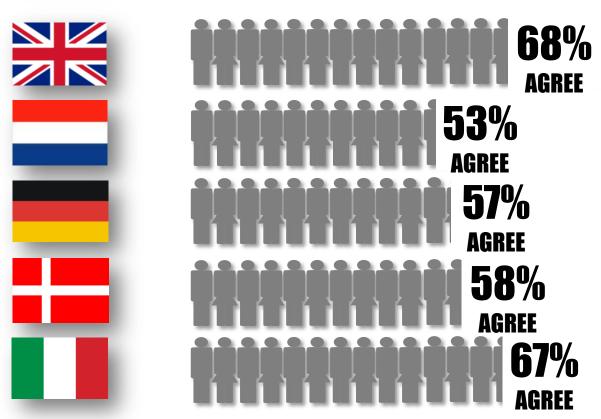
Industry Support



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











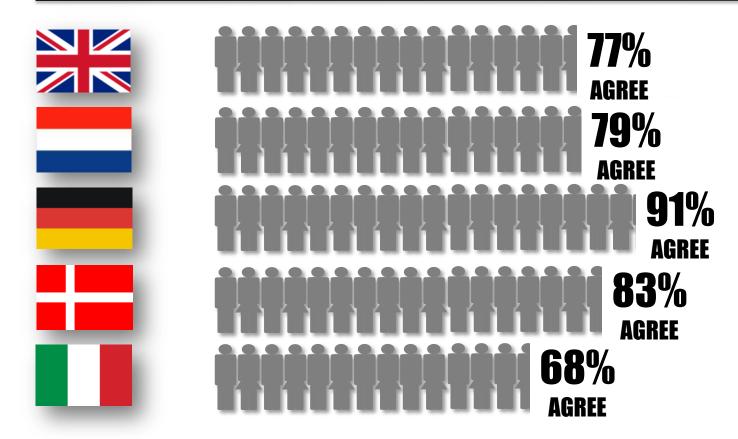
Prospects and Mobility



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





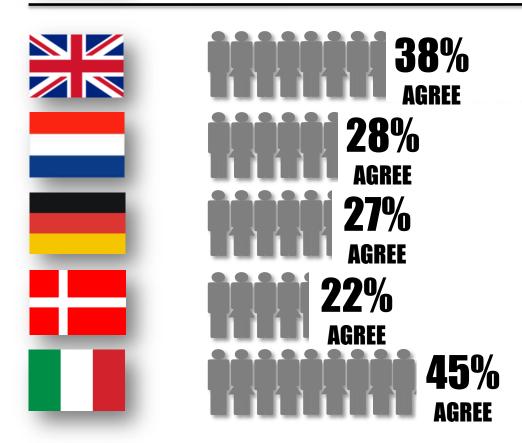




I may be working in another country in five years time..."











Ethical Standards

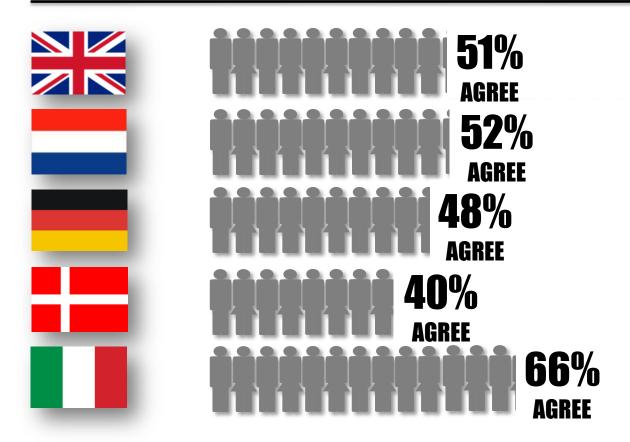


Ethics

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





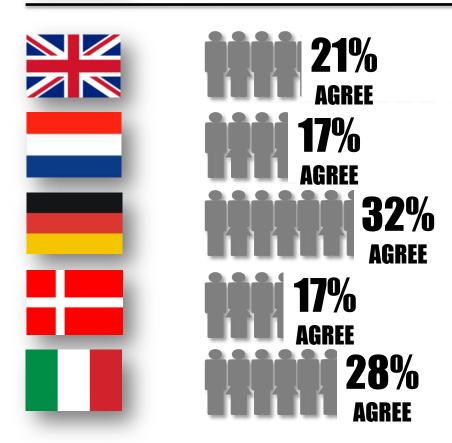




Ethics

"I require training to help me deal with ethical issues..."





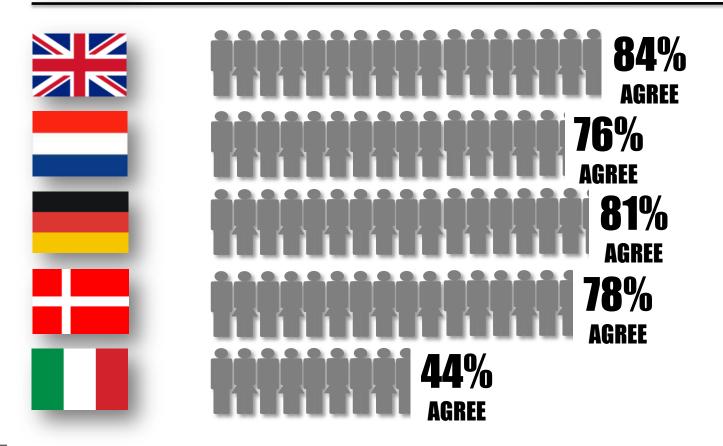


Ethics

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



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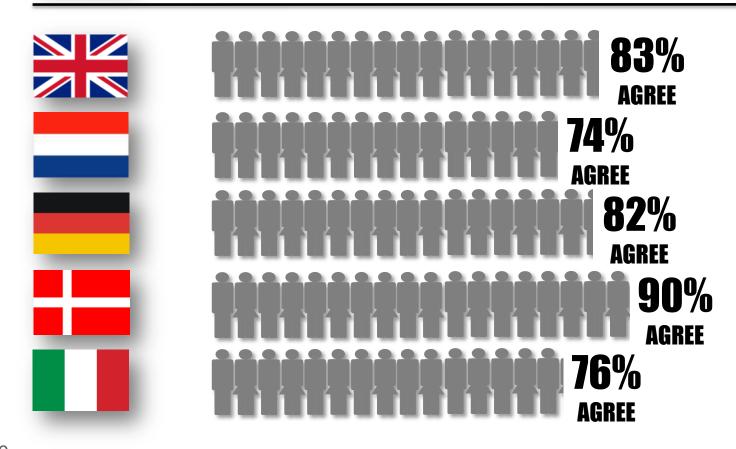




"Climate change is a big challenge for the future of humanity..."







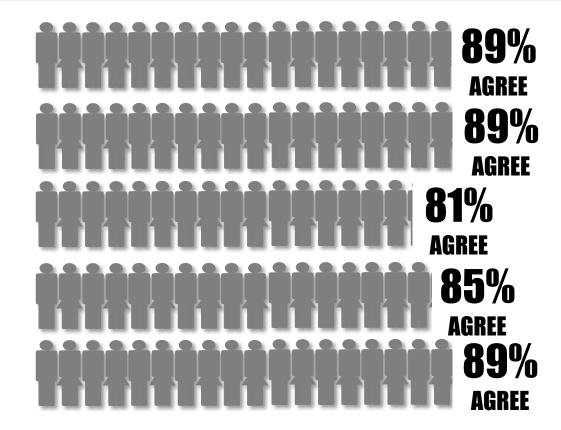


"My country must do more to reduce its reliance on fossil fuels..."







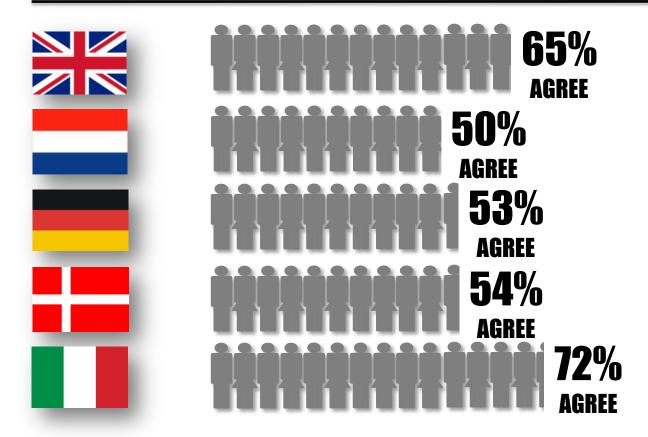




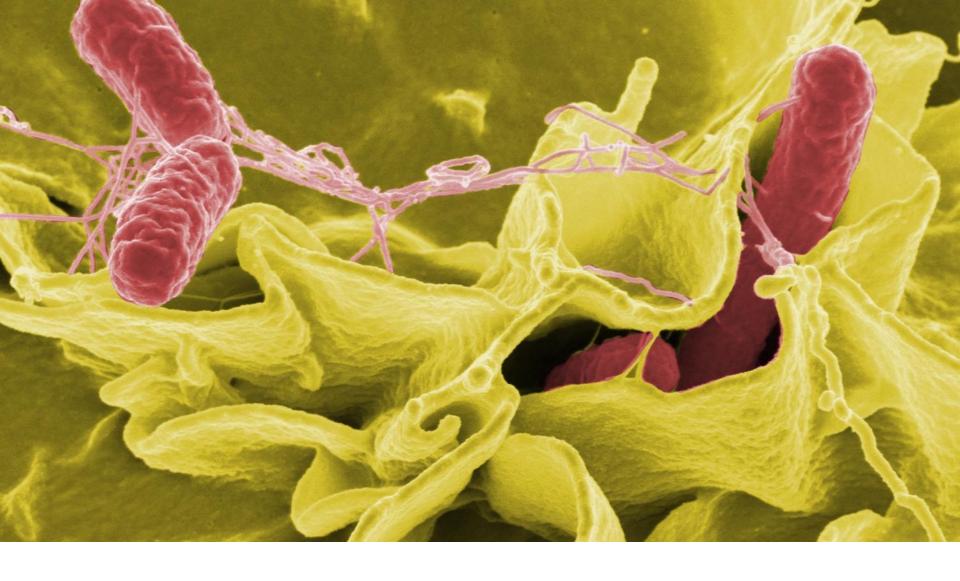
"I need more factual information to understand energy and climate issues..."











Biological Engineering

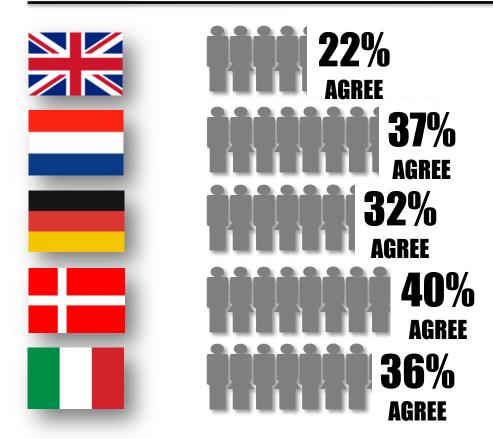


Biological Engineering

"Bioscience is important in my current role..."







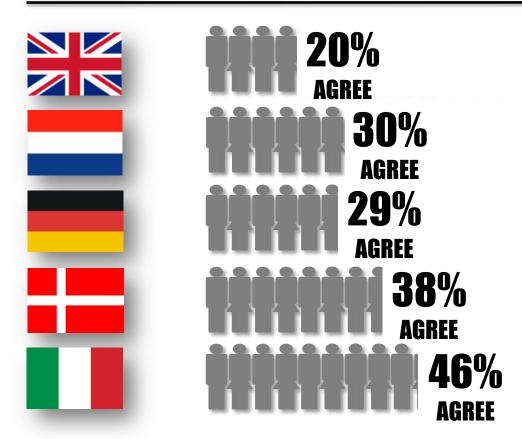


Biological Engineering

"My future lies in bioprocess engineering..."











From survey to strategy

- the low carbon economy
- sustainable wealth creation
- harnessing the bio-revolution
- ethics and standards
- to increase greatly the EFCE's contribution
- to engage more with industry and policy makers





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For further information on the EFCE Perspectives Survey

Contact:

Andy Furlong
EFCE Secretariat
c/o IChemE
Davis Building
Rugby, CV21 3HQ
UK

t: +44 1788 534484

e: afurlong@icheme.org

