

# Perspectives on European Chemical Engineering

Professor Richard Darton, EFCE President Berlin, 25 September 2011

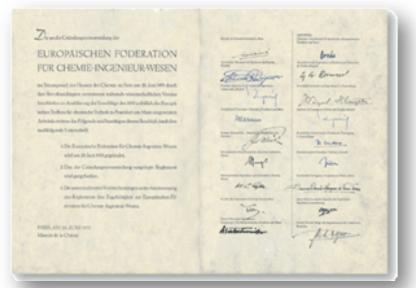


#### The European Federation of Chemical

**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 <u>all</u> member societies and <u>their</u> members address issues in

Technology, business, education and regulation

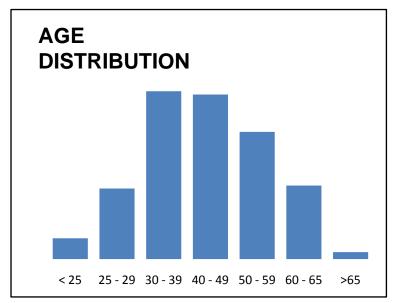


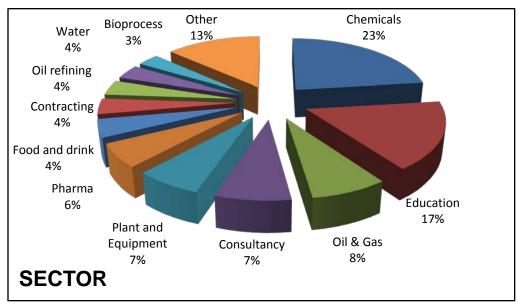


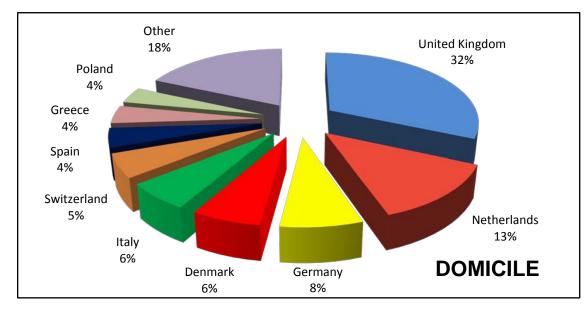




#### The EFCE 'Perspectives' Survey

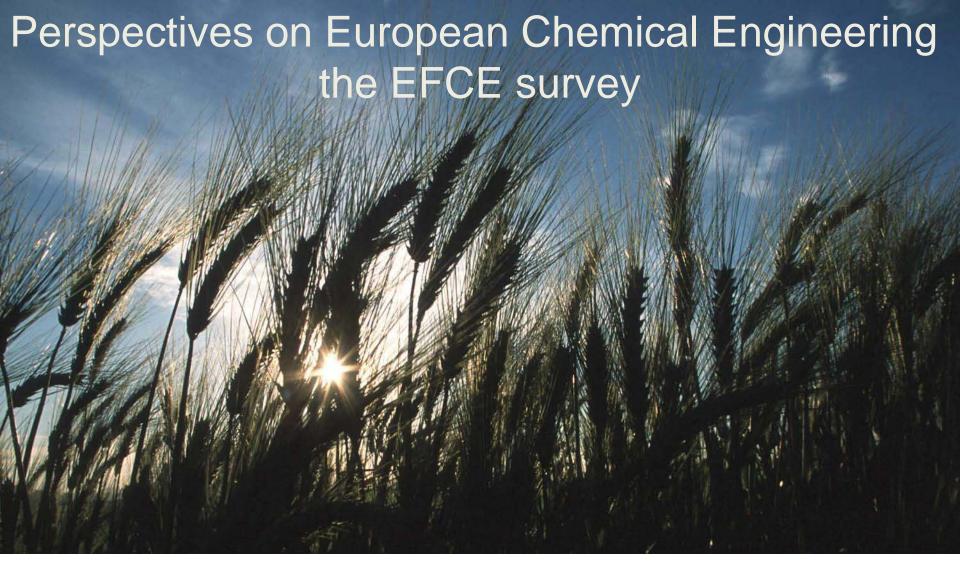






1797
Responses in 35 European Countries





### **Career Satisfaction**

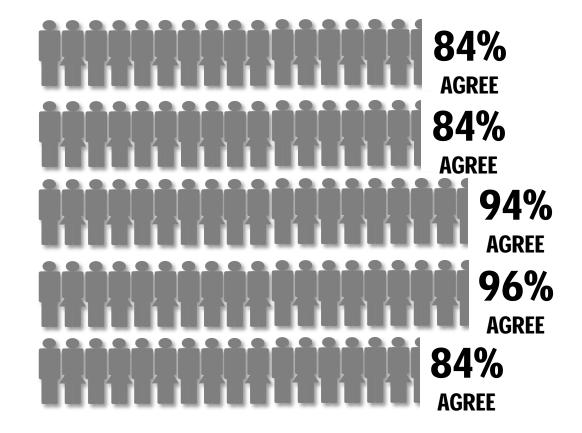


## Chemical Engineering is the right career for me...













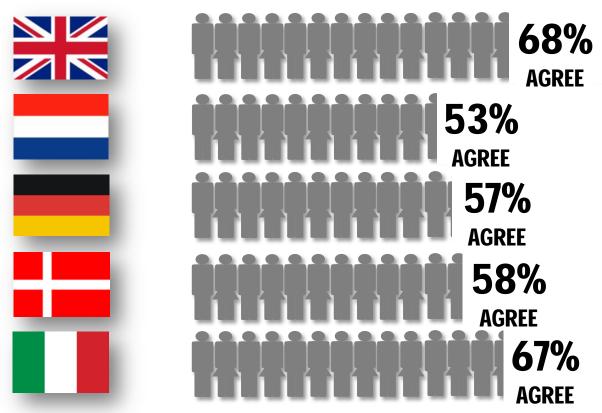
## Industry Support



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











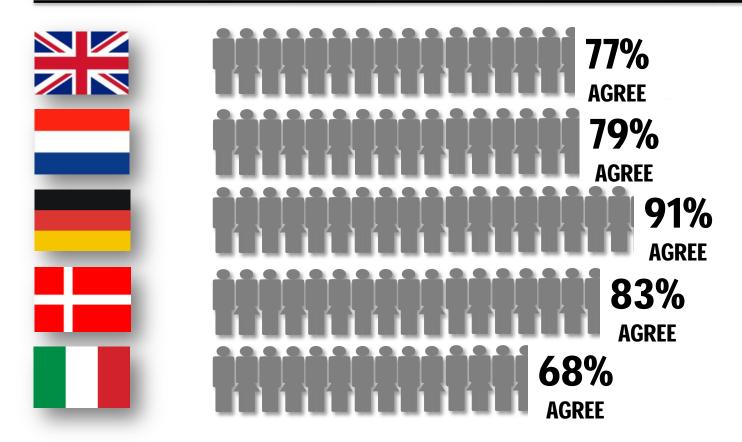
### **Prospects and Mobility**



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





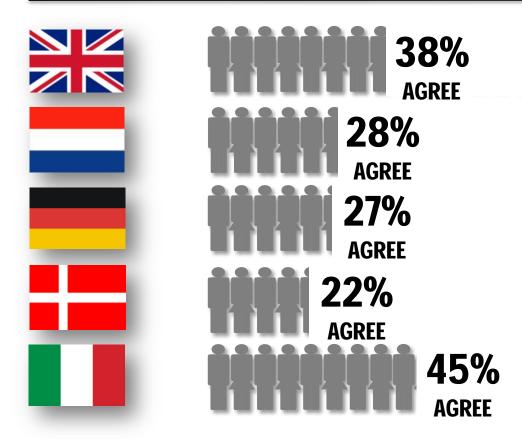




## I may be working in another country in five years time..."











## Ethical Standards

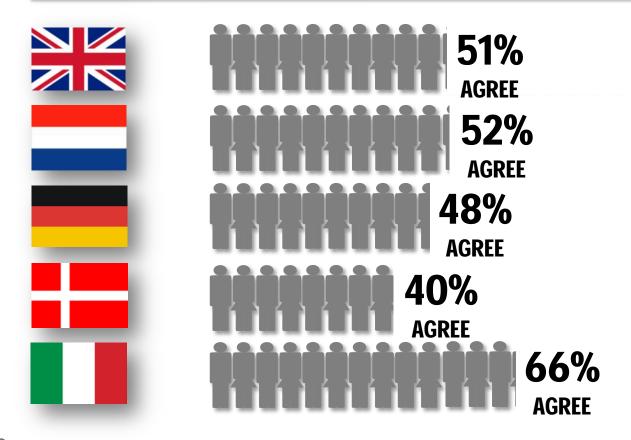


#### **Ethics**

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





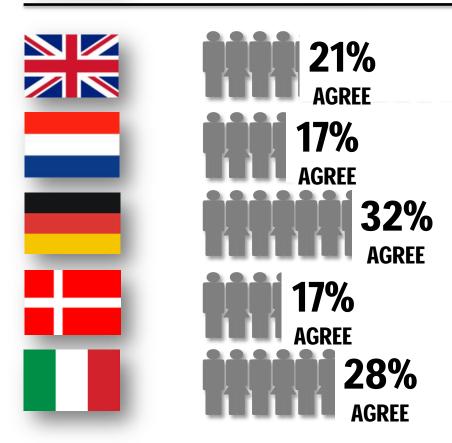




#### **Ethics**

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





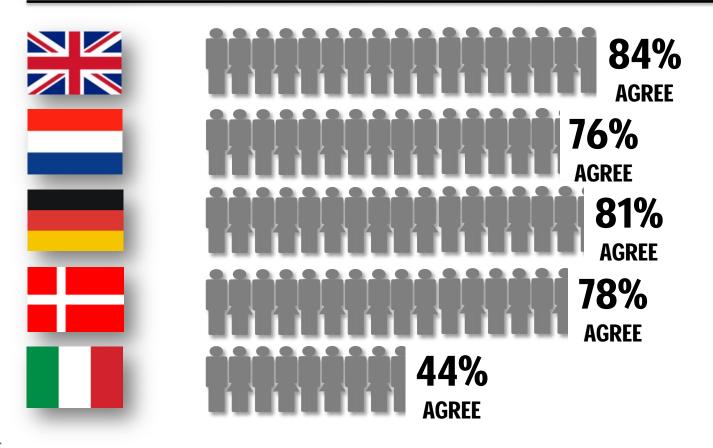


#### **Ethics**

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









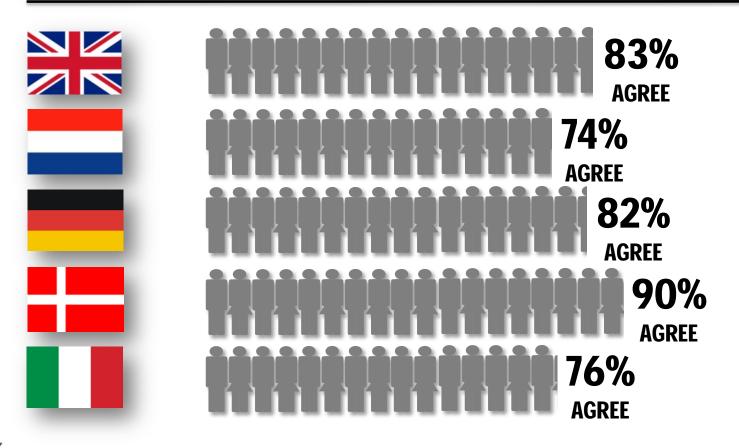




"Climate change is a big challenge for the future of humanity..."





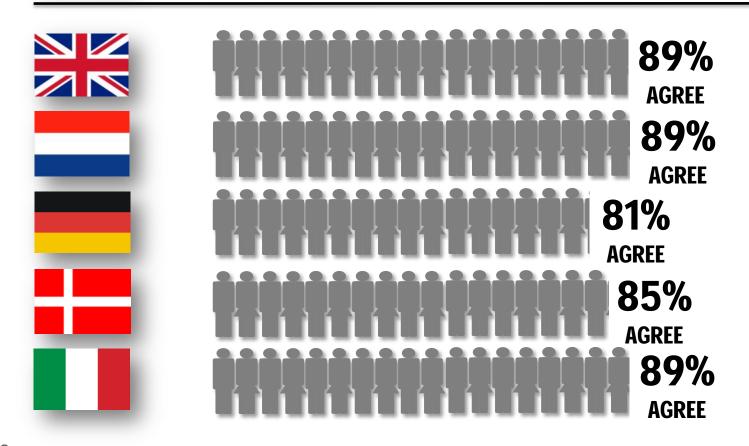




"My country must do more to reduce its reliance on fossil fuels..."





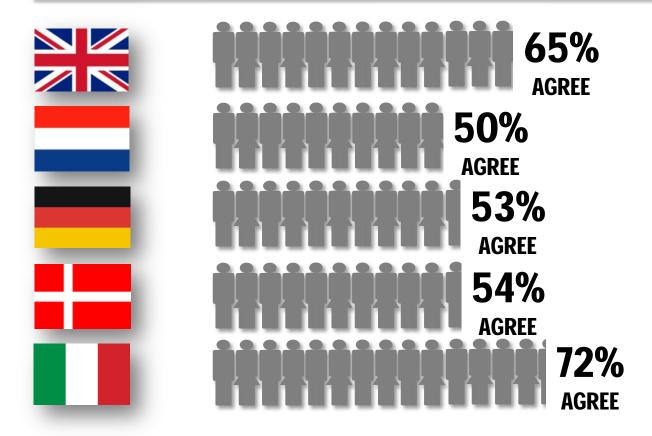




"I need more factual information to understand energy and climate issues..."











### **Biological Engineering**

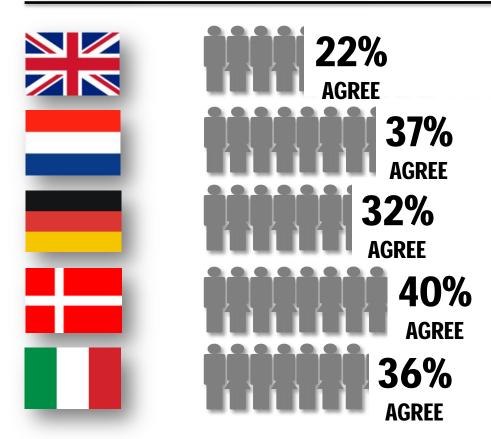


#### **Biological Engineering**

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







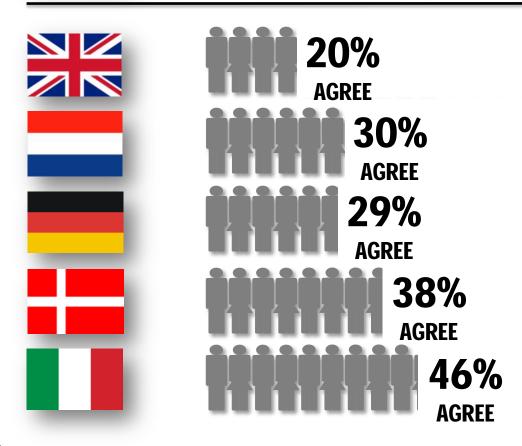


#### **Biological Engineering**

"My future lies in bioprocess engineering..."











#### From survey to strategy

- 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

