

EFCE Forum Berlin, 25 September 2011



Scientific Challenges for EFCE

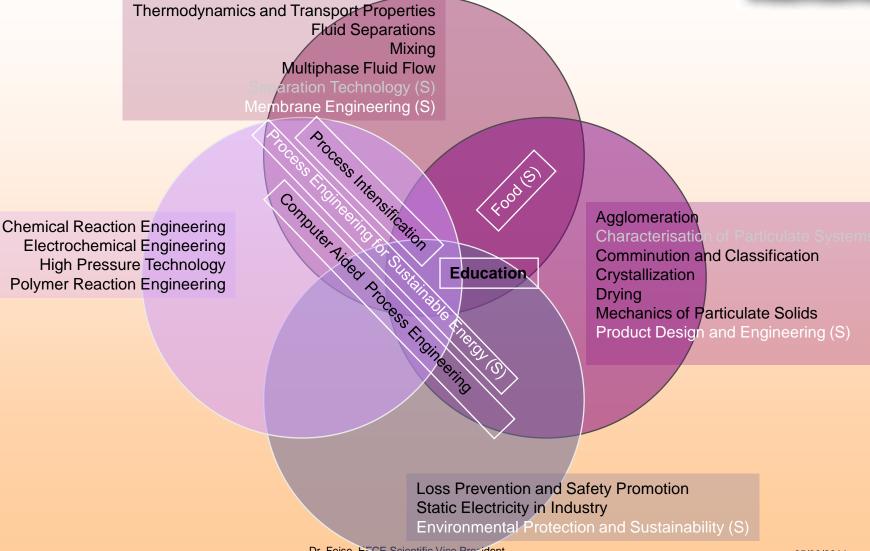
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EFCE Forum, Berlin, 25 September 2011

EFCE





Dr. Feise, EFCE Scientific Vice President

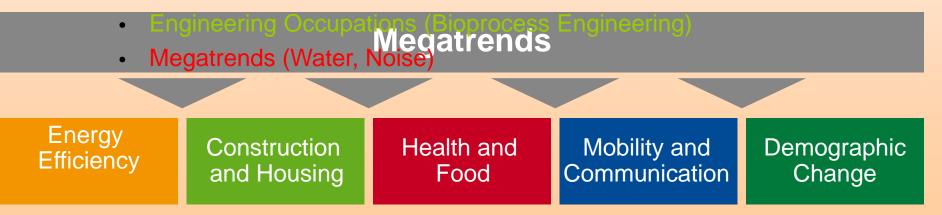
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What does Chemical Engineering cover?



• Old vs. New Fields of Science

- Unit Operations, Transport Phenomena (Thermodynamics, Fluid Separations, Drying ...)
- Industry Sectors (Food, Polymer Reaction Technology ...)
- Outreach (CAPE, Loss Prevention, Education ...)
- Engineering Occupations (Product Design)
- Megatrends (Energy)



Membership in Working Parties and Sections



- Small Working Parties without critical mass (12 people)
- Cumbersome delegation
 procedure
- New membership structure (delegate, elected, guest, honorary); General Assembly 2009; slowly implemented
- Sections with little outreach
 - Online membership forms (professionals)
 - Section flyers
- We rely on the leadership of the Working Party and Section chairs

Working Party Char Members ဂ **Honorary Guests** Membe Delegates Guest lected 111

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EFCE Scientific Activities

Conferences



- Standards
- Scientific Publications
- Prizes









- Dieter Behrens Medal
- Jacques Villermaux Medal
- Student Mobility Award
- Excellence Awards in
 - CAPE
 - Chemical Reaction Engineering
 - Crystallization
 - Drying
 - Fluid Separations
 - Membrane Engineering
 - Mechanics of Particulate Solids
 - Process Intensification
 - Process Safety
 - Product Design and Engineering
 - Thermodynamics and Transport Properties
- Georg Carl Hahn Research Prize
- Julius Maggi Research Award
- Carl Wagner Medal

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EFCE Section on Food

- European Workshop Food Engineering
 - Annual Workshop
 - 2007, Berlin, D
 - 2008, Massy, F
 - · 2009, Naples Portici, I
 - 2010, Belgrade; SER
 - 2011, Valencia, E
 - 2012, Singen, D
 - Presentations by 15 to 18 selected PhD students
 - invitations to Food Engineering Professors in all European countries
 - only top candidates in food engineering
 - one student per country
 - Julius Maggi Research Award; 2500€ (industrial sponsor)



Closing Comments



- EFCE volunteers in Working Parties and Sections do excellent scientific work, but ...
 - ... we need to make their work more visible
 - ... we need to incorporate new subject areas outside the classical canon
- EFCE volunteers need ...
 - ... recognition and support in their national societies
 - ... more participants, esp. for sections
- EFCE volunteers ...
 - ... are the heart of the European Chemical Engineering Community
 - ... need more colleagues to work with them