

DIGITALISATION IN CHEMICAL ENGINEERING

1st March 2019
Frankfurt - Germany

Digitalisation has the potential to change the way we work in Chemical Engineering. In particular it is likely to change the way the process industries work with the potential of big data and its analysis making the operations and the supply chain much more responsive. It could also significantly change the innovation process in developing new products and processes. What are the potential effects on sustainability, quality, safety, predictive capability and of course profitability?

What are the challenges and opportunities, and how can the EFCE and its Working Parties and Sections work together to address them? How can we engage the European Chemical Engineering community, both academic and industrial?

The meeting will bring together some visionary speakers to set out the potential and the challenges. There will be the opportunity to discuss how to tackle these challenges, through discussion and through collaboration and application to funded programmes.

REGISTER
on line

Registration fee: 190 €
Business lunch and coffee break included

Registration:
http://efce.info/European_Forum.html

EASY
ACCESS
LOCATION

DECHEMA
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2nd EUROPEAN FORUM ON NEW TECHNOLOGIES
organized by DECHEMA
as part of a new event series of the European Federation of Chemical Engineering

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EFCE Event No. 763



8:30 • 8:40 **Welcome**, Hermann Feise - EFCE President
8:40 • 8:50 **Introduction**, David Bogle - EFCE Scientific Vice-President

1. VISION FOR DIGITALISATION IN THE PROCESS INDUSTRY

8:50 • 9:10 **Artificial Intelligence in Materials Research**, Hergen Schultze - BASF
9:10 • 9:30 **Digitalisation of Industry - the European Perspective**, Martin Winter - CEFIC
9:30 • 9:50 **A view from food industry**, Sebastian Carsch - Fraunhofer IVV

9:50 • 10:00 **Questions**

10:00 • 10:30 *Coffee Break*

2. THE POTENTIAL OF DIGITALISATION

10:30 • 10:50 **Why Data Science will Change Everything**, Michel Dumontier - Maastricht University
10:50 • 11:10 **Getting value from data – some examples and thoughts for future**, Frode Brakstad - SINTEF
11:10 • 11:30 **MindTwin: a digital twin for smart engineering and performing operations**,
Maurizio Rovaglio - Siemens
11:30 • 11:50 **Energy and Sustainability**, François Marechal - EPFL and EFCE Energy Section Chair
11:50 • 12:00 **Questions**

12:00 • 12:50 *Business Lunch*

3. THE ROLE OF DIGITALISATION ACROSS THE LIFE CYCLE: IN R&D, DESIGN, AND OPERATIONS

12:50 • 13:10 **R&D Digitalisation enables to increase speed to market**, Georgios Tetradis-Meris - Unilever
13:10 • 13:30 **Deep Knowledge in Process Industry Digitalisation**, Costas Pantelides -PSE Ltd
13:30 • 13:50 **Integrated digital twins and control strategies to ensure product life cycling**,
Christoph Herwig - TU Wien and EFCE Quality by Design Working Party Chair
13:50 • 14:10 **Supply chains of the Future**, Nilay Shah - Imperial College London
14:10 • 14:20 **Questions**

Round table discussions and potential outcomes include proposals, challenges, workshop ideas

14:20 • 15:45

- What are the main drivers in our industry for digitalisation?
- What is the current maturity of digitalisation in R&D, Design and Operations?
- What are the main technical challenges and barriers?

15:45 • 16:00 **Wrap up and next steps**, David Bogle

16:00 *Close of meeting*