

# DIGITALISATION IN CHEMICAL ENGINEERING

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

1st March 2019  
Frankfurt - Germany



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 Maréchal - 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*