

# EFCE SpotLight Talks

Section on Chemical  
Engineering as Applied  
to Medicine

30 May  
2023

14:00 • 16:15

CEST

## CHEMICAL ENGINEERING AS APPLIED TO MEDICINE: CURRENT CHALLENGES AND OPPORTUNITIES



*The program of the Spotlight Talks of the new scientific Section of the EFCE will demonstrate how current approaches and toolkits used in Chemical Engineering can be applied to selected problems of physiology and medicine. Four talks will cover the modelling and systems engineering techniques showing their use to tackle the complexity of physiology and pharmacology. This event includes transport and reaction engineering being used to model biological systems across multiple levels for the development of new therapeutic strategies and pharmacological solutions.*

### PROGRAM

- 14:00      **Welcome and introduction**  
Prof. Tomasz R. Sosnowski, Chair Section on Chemical Engineering as Applied to Medicine  
Warsaw University of Technology - Poland  
Prof. David Bogle, Former EFCE Scientific Vice-President
- 14:10      **Metabolic clearance of uremic toxins in the artificial kidney**  
Prof. Maria Norberta de Pinho, Instituto Superior Técnico, University of Lisbon - Portugal
- 14:40      **Chemical engineering approach for new cancer treatments**  
Prof. Eva Maria Martin Valle, University of Salamanca - Spain
- 15:10      **Quantitative Systems Pharmacology**  
Dr. Roberto Abbiati, Boehringer Ingelheim - Germany
- 15:40      **Chemical engineering as a toolkit for precision crystallization, spherical agglomeration and formulation of pharmaceuticals**  
Prof. Brahim Benyahia, Loughborough University - UK
- 16:10      **Conclusion**  
Prof. Tomasz R. Sosnowski, Warsaw University of Technology - Poland

[\*\*Registration\*\*](#)

*free of charge but mandatory*

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