

EFCE SpotLight Talks

Working Parties on Process
Intensification and
Chemical Reaction Engineering

23 November
2022

16:00 • 18:30

CET



ELECTRIFICATION OF CHEMICAL PROCESSES AND THE CHEMICAL INDUSTRY

Electrification of the chemical industry represents a paradigm shift in chemical manufacturing and constitutes a decisive step towards partial decarbonization of the chemical industry. It is based on the use of electricity to carry out reaction, separation, purification and fluid transport processes, and provides the necessary utilities and equipment to that end. The scope of this webinar, comprising talks from industrial and academic speakers, is to highlight opportunities, niche applications, advantages and challenges of electrification of chemical processes and the chemical industry at large.

PROGRAM

- 16:00 **Welcome and introduction**
Georgios Stefanidis – Chair of the WP on Process Intensification
Olaf Hinrichsen – Chair of the WP on Chemical Reaction Engineering
Petr Kluson, EFCE Scientific Vice-President
- 16:10 **The electrification challenge requires them all - The obvious, and the next generation technologies"**
Dr. Thorsten Schultz, Evonik – Germany
- 16:40 **Fine Chemicals Production in a Carbon Neutral Economy: The Role of Electrification**
Dr. Dieter Foertsch, Bayer –Germany
- 17:10 **e-Refinery: towards sustainable production of bulk chemicals and fuels**
Prof. Ruud Van Ommen, TU Delft – The Netherlands
- 17:40 **Electrification of catalysts and chemical reactors**
Prof. Dion Vlachos, U. Delaware – USA
- 18:10 **Closing remarks**

Registration

free of charge but mandatory

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