## EFCE Spotlight Talks

Working Party on High Pressure Technology

## 27 April 2022



CEST

FCF

## Technology to improve conventional chemical engineering processes

Chemical engineering can provide the answers to the major challenges in developing sustainable processes. Pressure is a variable that allows the intensification of processes with compact equipment and with reaction media and solvents properties, which improve yield and selectivity, thereby simplifying downstream processing. Water and  $CO_2$  are widely recognised as green solvents, in which pressure can provide enhanced solvent properties for  $CO_2$  or in transforming water into a non-polar solvent. The constant improvement of pressurised technologies enables the goal of creating energy efficient processes. This webinar will present examples of high-pressure technologies that significantly improve the conventional processes used in chemical, food, and pharma sectors. As a result, they provide enhanced safety and quality of solvent-free products, which go beyond the requirements of more restrictive future legislation.

## PROGRAM

15:00	<b>Welcome and introduction</b> María J Cocero, Chair WP on High Pressure Technology, Valladolid University – Spain Giorgio Veronesi, EFCE President
15:10	Sterilization by supercritical CO <sub>2</sub> Lourdes Calvo, Complutense University of Madrid - Spain
15:40	Extraction of medicinal plants by high-pressure technologies Erika Mária Vági, Budapest University of Technology and Economics - Hungary
16:10	<b>CPF Technology</b> – <b>application of CO<sub>2</sub> extracts in industrial product development</b> Sabine Grüner-Lempart, Weihenstephan-Triesdorf University, Germany
16:40	<b>High-pressure food processing</b> Carl Schaschke, University of the West of Scotland, United Kingdom
17:10	Chemical Reaction Engineering for Sustainable Value Chains in the Chemical Industry Thomas E. Müller, Ruhr University Bochum, Germany
17:40	High-pressure technologies from a process engineering perspective Luis Vaquerizo, Técnicas Reunidas - Spain
10.10	Final yemayke and yanal discussion

18:10 Final remarks and panel discussion María J Cocero, Chair WP on High Pressure Technology

**Registration** 

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