

EFCE Spotlight Talks

Working Party on Drying

13
March
2026

10:00-12:15
CET



Why spray drying keeps us busy: the science behind continuous innovation

Spray drying, invented more than 150 years ago, has become indispensable across food, pharmaceutical, and chemical industries — yet it still demands continuous innovation to meet modern performance and sustainability demands. In this webinar it will be explained why a technology so well established must still be redesigned, adapted, and re-engineered. You will see which stages of the classic spray drying process are being redesigned today and whether these innovations can be integrated into existing equipment or require entirely new systems. Each analyzed modification will be linked to the specific problem it aims to solve — from energy use, to product quality/stability and process robustness. Case studies will show research results demonstrating how these new concepts work in practice. Limitations, unresolved technical hurdles, economic factors and directions for future development will also be addressed. Altogether, the session will highlight how a century-and-a-half-old technology continues to evolve — and why these modifications matter.

PROGRAM

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| 10:00 | Welcome and introduction Prof. Maarten Schutyser, Chair WP on Drying, Wageningen Univ. & Research - The Netherlands Prof. Katarzyna Samborska, Warsaw Univ. of Life Sciences - Poland Boelo Schuur, EFCE Scientific Vice-President |
| 10:10 | Dehumidified air spray drying PhD Alicja Barańska-Dołomisiewicz, Warsaw Univ. Life Sciences, Dep. Food Engineering - Poland |
| 10:40 | Superheated steam spray drying Prof. Reinhard Kohlus, Univ. of Hohenheim, Dep. of Process Eng. and Food Powders - Germany |
| 11:10 | Vortex chamber spray drying Prof. Juray de Wilde, Univ. Catholique de Louvain - Belgium |
| 11:40 | Heat pump-assisted spray drying Dr. Cordin Arpagaus, OST, Eastern Switzerland Univ. App. Sci., Inst. Energy Syst. - Switzerland |
| 12:10 | Conclusion Prof. Maarten Schutyser, Chair WP on Drying Prof. Katarzyna Samborska, Warsaw Univ. of Life Sciences - Poland |

[REGISTRATION](#)

free of charge but mandatory

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