

Press release

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Jaskulski wins Drying Excellence Award for the modelling of particle agglomeration in dryers

Dr. Eng Maciej Jaskulski has been named the winner of the **2019 EFCE Excellence Award in Drying and Freeze-Drying** of the European Federation of Chemical Engineering (EFCE). The Award recognises his excellent PhD thesis "*CFD Modeling of Particle Agglomeration in Counter – Current Spray Drying Process*" completed at the Lodz University of Technology, Poland, under the supervision of Prof. Dr. Hab. Eng Ireneusz Zbiciński. Upon evaluation, his work achieved the best results in terms of breadth and depth of the thesis, scientific impact, innovation and industrial relevance and dissemination of results. Dr. Jaskulski obtained his M.Sc.Eng and PhD degrees in Chemical Engineering from the Lodz University of Technology, Poland. Since 2017, he has been an Assistant Professor at Lodz University of Technology in the Faculty of Process and Environmental Engineering, Department of Heat and Mass Transfer.



In his PhD thesis, Dr. Jaskulski presents a new methodology for predicting morphological properties of powders obtained by the spray drying method. The particle agglomeration model developed as part of his work is the first comprehensive model combining the growth of agglomerates with the kinetic model of drying. In addition, the model was verified based on the experimental data obtained during pilot plant and industrial spray drying tower experiments.

In his nomination, Prof. Zbiciński stated: "His knowledge, competence and professionalism consolidated his position in the scientific market, Dr Eng. Maciej Jaskulski is recognisable and frequently invited for lectures in research labs and industry."

The Award jury commented: "Dr. Jaskulski prevails in consideration of the quality of the thesis, and for the innovative approach he adopted in his PhD thesis. ... His research is likely to be applied to various industrial problems, including operating conditions, optimisation and design. The candidate has also an excellent publication list, and good work experience."

The award was presented in Torino, Italy, in July 2019 in conjunction with the 7th European Drying Conference – EuroDrying'2019.

The 2019 Excellence Award in Drying and Freeze Drying is generously sponsored by Criofarma S.a.S.



Ends

Related links

EFCE media centre (<http://www.efce.info/News>)

EFCE Working Party on Drying (<https://efce.info/WPD>)

7th European Drying Conference EuroDrying'2019 (<https://www.eurodrying2019.com>)

Notes to media

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About the sponsor

CRIOFARMA is an Italian company with over 58 years of experience specialising in the production of pharmaceutical machines, particularly freeze-drying equipment and sterile production machines. CRIOFARMA is also rich in funds, experiences and comprehensive technology including vacuum technology, low temperature devices, electrical equipment and instrumentation. CRIOFARMA started the production of freeze-dryers in 1962, in Turin plant, and over the years have developed their own advanced technology to obtain the best possible performances in this field.

Knowledge as a fixed asset around which all the work at the company revolves. Knowledge as added value, to be able to stand out on the industrial panorama. These are the cardinal points at Criofarma.

About chemical engineers

Chemical, biochemical and process engineering is the application of science, maths and economics to the process of turning raw materials into everyday products. Professional chemical engineers design, construct and manage process operations all over the world. Oil and gas, pharmaceuticals, food and drink, synthetic fibres and clean drinking water are just some of the products where chemical engineering plays a central role.

About EFCE

Founded in 1953, The European Federation of Chemical Engineering (EFCE) is a non-profit-making association, whose object is to promote co-operation in Europe between non-profit-making professional scientific and technical societies in 30 countries for the general advancement of chemical engineering and as a means of furthering the development of chemical engineering. See www.efce.org