

Press release

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<http://www.efce.org>

EFCE presents Product Design Excellence Award to Christian Rieck

Dr. Christian Rieck has been awarded the **2021 EFCE Excellence Award in Product Design and Engineering**. The Award was conferred upon him for his excellent PhD thesis "*Microscopic and macroscopic modeling of particle formation processes in spray fluidized beds*" completed at the Otto von Guericke University Magdeburg, Germany, under the supervision of Professor Evangelos Tsotsas.



The judges praised his outstanding achievements in the development of process models for coating and layering granulation as well as agglomeration of amorphous particles with relevance to industrial application. They stressed the importance of coating and agglomeration in (binder-less) spray fluidized beds and their impact on controlled release formulations and underlined the value of Rieck's development of discrete stochastic models related to this application.

Furthermore, his work focussed on tracking the border of the agglomeration process applied for of binder-less spray fluidized bed agglomeration of related amorphous particles

The mentioned processes are of particular importance for new pharmaceutical applications amongst other industry applications such as food and fine chemicals.

Nominating him for the Award, Professor Tsotsas stated: "His PhD contributes to three major innovations which foster our ability to design particulate products in an efficient and knowledge-based way: (1) a discrete, stochastic model for particle coating and layering granulation; (2) a model for binder-less spray fluidized bed agglomeration of amorphous particles; (3) uniquely new layering-versus-agglomeration regime maps."

Christian Rieck obtained his Bachelor and Masters' degree in 'Verfahrenstechnik' from the Otto von Guericke University Magdeburg and his PhD from the Faculty of Process and Systems Engineering at the same University. From 2013 to 2020 he held the position of Research Assistant and Thermal Process Engineering Chair at the Otto von Guericke University Magdeburg. In Autumn 2020, he joined Glatt Engineering GmbH in Weimar, Germany.

The award will be presented to Dr. Rieck on Monday, 20 September 2021 at the Symposium on Future Directions in Product Design and Engineering, a satellite event ECCE13&ECAB6 which will be held as a virtual conference on 20-23 September 2021.

The Excellence Award is generously sponsored by Beiersdorf AG.

The logo for Beiersdorf, consisting of the word "Beiersdorf" in a bold, blue, sans-serif font.

Ends

Related links

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

EFCE Section on Product Design and Engineering (https://efce.info/Section_PDE)

13th European Congress of Chemical Engineering (ECCE13)
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Notes to media

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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

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Headquartered in Hamburg, the company generated sales of €7,025 million and an operating result (EBIT) of €828 million in fiscal year 2020. Beiersdorf employs over 20,000 people worldwide who are united by shared values, a strong corporate culture, and the Beiersdorf Purpose "Care Beyond Skin". With its [C.A.R.E.+](#) strategy, the company is pursuing a multi-year investment program aimed at achieving competitive, sustainable growth. The program is in line with Beiersdorf's ambitious [sustainability agenda](#), which creates clear added value for consumers, society, and the environment.

** Source: Euromonitor International Limited; NIVEA as an umbrella brand in the face, body and hand care categories; retail sales 2020.*

Additional information can be found at www.beiersdorf.com.