

MINUTES



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Annual Meeting of the EFCE Working Party “Mechanics of Particulate Solids”
10.09.2018 in Greenwich, United Kingdom.

Abstract

The Annual meeting of the EFCE Working Party Mechanics of Particulate Solids (WPMPs) took place on September 10, 2018, 13.00h in Room KW003 of the King William Building, Greenwich Campus, London. The meeting was held in conjunction with the 2018 CHoPS Conference.

Prof. Michael Bradley (Conference Chair of CHoPS2018 and Director of the Wolfson Centre, University of Greenwich, London) introduced the meeting.

Prof. Stefan Heinrich dedicated some words in the memory of Prof. Jörg Schwedes, honorary member of WPMPs, who left us on August 21, 2018.

Mr. Filip Francqui (Granutools, Belgium) gave a presentation summarizing the activities and research interests of the company. The WPMPs gave him a warm welcome as elected member.

Advances were presented on the current WP tasks as follows:

- 1) **Particle mechanics in 3D printing of non-metallic materials:** Prof. Massimo Poletto provided an insight on how particle mechanics are presented in 3D printing, more specifically using the technique of selective laser sintering. Areas relevant to particle mechanics are the characterization of materials sintered into light porous structures and the characterization of powders to assess flowability.
- 2) **DEM multiscale analysis:** Prof. Stefan Luding of The University of Twente presented an update of the **Multiscale Analysis of multiPhase Particulate Processes (T-MAPPP)** project (<http://www.t-mapppp.eu>), funded for ~4.05 million EUR. This project received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no ITN607453, for the period 2014-2018.
- 3) **Biomass handling:** Prof. Sylvia Larsson provided an update of the activities related to the handling of extreme shape particles such as solids biomass, (collaborations established and research project proposals).
- 4) **Wall friction project:** Prof. Álvaro Ramírez-Gómez informed on the state of the wall friction project. Wall friction tests will be carried out using PARDEM reference powder, HDPE powder, and Aluminium and Stainless Steel wall samples according to the procedure followed in previous rounds of tests.

Prof. Álvaro Ramírez-Gómez

The EFCE Excellence Award in Mechanics of Particulate Solids call is **now open until the 30th of November 2018**. It will be presented in PARTEC2019 in Nuremberg (Germany) (<https://efce.info/ExcellenceAwardMPS.html>)

Please note that the **next annual meeting of the WPMPS will be held in Nuremberg (Germany) 8th of April 2019** within PARTEC2019 Conference.