

MINUTES



8.04.2019
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Annual Meeting of the EFCE Working Party “Mechanics of Particulate Solids”
8.04.2019 in Nuremberg, Germany.

Abstract

The Annual meeting of the EFCE Working Party Mechanics of Particulate Solids (WPMPs) took place on April 8, 2019, 13.00h in Room Istanbul of the Nuremberg Convention Centre, Germany. The meeting was held in conjunction with the 2019 PARTEC Conference.

Dr. Harald Wilms (WPMPs honorary member) introduced the meeting.

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

New WPMPs members introduced their research activity and a warm welcome was given to all of them.

Advances were presented on the current WP tasks as follows:

- 1) **Powder flowability and heat transfer in SLS - MATHEGRAM:** Prof. Massimo Poletto provided a summary of the activity in MATHEGRAM project - Multiscale Analysis of Thermomechanical Behaviour of Granular Materials. MATHEGRAM is a H2020 MARIE Skłodowska-CURIE Innovative Training Network (MSCA-ITN).
- 2) **Handling of solid biomasses:** 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, such as the FEEDBIO MSCA-ITN.
- 3) **Activities on DEM:** 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-mappp.eu>), granted for the period 2014-2018. T-MAPPP was an Initial Training Network funded by FP7 Marie Curie Actions. He also informed about the submitted MSCA-ITN proposal TUSAIL and the Workshop organized in CHoPS2018 on Numerical Simulations of Particulate Systems and the Lorentz Workshop – Introduction Granular Matter Across Scales which happened in March 18-22, 2019.
- 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 agreed in previous rounds of tests.

The EFCE Excellence Award in Mechanics of Particulate Solids was presented in PARTEC2019 (<https://efce.info/ExcellenceAwardMPS.html>)

Dr. Matthew Arran is the winner of the EFCE Excellence Award in Mechanics of Particulate Solids 2019. His excellent paper “Intermittency between avalanche regimes on grain piles”, published in conjunction with your PhD studies on “Avalanching on dunes and its effects: Size statistics, stratification, & seismic surveys”, achieved the best evaluation results in terms of breadth and depth of the research undertaken, scientific impact, innovation and quality of publication.

Please note that the **next annual meeting of the WPMPS will be held in Prague (Czech Republic) within CHISA2019 Conference, date TBA (traditionally held in August).**