

MINUTES

12.06.2017

Prof. Álvaro Ramírez-Gómez
Dept. of Mechanical, Chemical and
Industrial Design Engineering
Technical University of Madrid
Ronda de Valencia, 3
Madrid - SPAIN
Tel.: +34 91 3366837
Fax: +34 91 3365620
alvaro.ramirez@upm.es

Annual Meeting of the EFCE Working Party “Mechanics of Particulate Solids”
12.06.2017 in Skien, Norway.

Abstract

The Annual meeting of the EFCE Working Party Mechanics of Particulate Solids (WPMPs) took place on June 12, 2017, 14.00h in the VIP Room of the Ibsen House, Skien, Norway. The Meeting was held in conjunction with the 2017 RELPOWFLOV Symposium.

Prof. Chandana Ratnayake (Telemark University, Norway), chairman of the RELPOWFLOV Symposium, introduced the meeting. The WPMPs gave a warm welcome to Dr. Jan Necaš (VSB-Technical University of Ostrava) and Dr. Denis Schütz (Anton Paar GmbH), as new Czech and Austrian members respectively of the WPMPs.

Dr. David Craig (Jenike & Johanson, USA) gave a presentation titled “R&D activities in industrial vessel design and industrial problem solving with the Jenike and Johanson perspective”. The presentation provided a historical review from the origin of the company of industrial problems presented and solutions provided. Dr. Jan Necaš from the Bulk Solids Centre - Czech Republic and Dr. Denis Schütz from Anton Paar – Austria, followed with a presentation on their scientific activity.

Advances were presented on the current WP tasks as follows:

- 1) **Flow properties of biomass:** Prof. Barletta provided an update of the activities related to flow properties of extreme shape particles such as solids biomass, (collaborations established and research project proposals).
- 2) **Validation of DEM Simulation:** Prof. Jin Ooi of The University of Edinburgh presented a report on the advancements of the **Multiscale Analysis of multiPhase Particulate Processes** (T-MAPPP) project (<http://www.t-mappp.eu>), funded for ~4.05 million EUR. This project has 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) **Wall friction project:** All participants have received the wall samples from Hans Schneider from Zeppelin Systems GmbH at this stage. As soon as the samples of material will be received, tests will be carried out. It is expected to obtain results during 2017 and to be presented in September 2018 during the next annual WPMPs meeting in CHoPS2018, Greenwich (United Kingdom).
- 4) **Internal friction project:** In the annual meeting held in CHISA2013 Dr David Craig of Jenike and Johanson Inc., presented some slides prepared in collaboration with Mr Tim Bell of Du Pont to highlight some issues related to the Jenike and, especially, to the ring

Prof. Álvaro Ramírez-Gómez

shear tester procedure that might have been faced by the WP in order to have a greater consciousness of the scientific meaning and of the correctness of some empirical practice often carried out in the measurement procedure. The WP has identified first which are the most used testers and for what purpose. A workshop could be organized in WCPT8.

- 5) **K/λ Testing:** Prof. Massimo Poletto presented results of the research conducted within this WP task at the Symposium. This presentation was titled as “A new split cell for the measurement of the horizontal to vertical stress ratio”.

Please note that the **next annual meeting of the WPMPS will be held in Greenwich (London) the 10th of September 2018 within CHoPS Conference.**

Mr. Filip Francqui (Granutools) was elected member as Belgium delegate.