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Annual Meeting of the EFCE Working Party "Mechanics of Particulate Solids"
09.06.2008 in Tromsø, Norway

Abstract

The Annual meeting of the EFCE Working Party Mechanics of Particulate Solids (WPMPS) took place on June 9th, 2008 in Tromsø, Norway. The Meeting was held in conjunction with the RelPowFlow 2008 conference. Chairman Prof. Gisle Enstad. The WPMPS ran a Technical and a Business Meeting.

New participants to the working party were welcomed and gave a presentation of their present activity: Prof. Rimantas Kacianauskas, Vilnius Gediminas Technical University, Estonia (as a new invited guest); Prof. Wilhelm Höflinger, Technical University Wien, Austria (as a new member); Prof. Antonio Castellanos, University of Seville, Spain (as a new guest); Dr. Irena Sielamowicz, Technical University of Białystok, Poland (as a new guest); Dr. Thierry Destoop, NEU International Process, France (as a new member).

Dr. Feise in his vest of EFCE scientific vice-president reported of some of the major issues treated at the annual meeting of the EFCE WP Chairpersons.

Advances were presented on the current WP tasks these regards in particular:

- 1) The wall friction project. An intense discussion led by Eddie McGee of Ajax developed around this project within the WP annual meeting and in dedicated meetings during the conference. The following step will be a 'round robin' test following the model of the work carried out 10 years ago by Haaker, with a closer definition of the procedure and samples of same material kindly provided by Dr. Karl Jacob of Dow Chemicals and by Prof. Mike Bradley of the Wolfson Centre at the University of Greenwich and test plates in 2B 304 stainless steel and silo grade aluminum, kindly provided by Zeppelin Silo - und Apparatechnik. The work will continue on the long stroke wall friction tester offered by Ajax.
- 2) Validation of DEM Simulation: a summary was given on the state of advancement of the project by Prof. Ugur Tuzun, University of Surrey and on the future possibility of funding by Prof. Jin Ooi, University of Edinburgh.

Other information was provided by Prof. Jean Luc Ilari, of E.N.I.T.I.A.A. presenting some results on the evaluation of food powder flowability and by Dr Rob Berry of the University of Greenwich on a project carried out at the Wolfson Centre to commercialize a new annular low cost shear tester.

Suggestion for new WP tasks such as lambda testing, wall shear tester on site, biomass bulk solids characterization, and minimizing power consumption in equipments will be discussed.

Next meeting will be held in 2009 in conjunction with the Chops Conference that will take place in Brisbane, August 3-7