

2006-04-10 / Fe

EFCE Working Party Mechanics of Particulate Solids to run Workshop on Discrete Element Modeling at the 5th International Conference for Conveying and Handling of Particulate Solids

Discrete Element Modeling (DEM) is currently been used extensively in bulk solids handling research. Therefore the EFCE Working Party Mechanics of Particulate Solids (WPMPs) has joined forces with ChoPS-05 to make DEM one special focus during the conference in Sorrento. ChoPS-05 will have two regular sessions, a poster session and a plenary lecture by *Prof. Stefan Luding, TU Delft* devoted to DEM. In addition WPMPs will run a workshop on DEM co-chaired by Profs. S. Luding (Delft), J. Ooi (Edinburgh) and U. Tuzun (Surrey) during the conference. Both the plenary lecture and the workshop will take place on Wednesday August 30th, 2006.

The WPMPs workshop endeavors to increase the acceptance of DEM-codes for simulation of bulk solids behavior. This requires the codes to be validated, which in turn needs carefully selected problems with a good experimental database for test runs. The workshop is intended to help identify a suitable set of problems for the *quantitative validation and verification of DEM type models* in the area of bulk solids handling. The workshop will commence with introductory presentations on the issues and methods relating to validation currently used in chemical, mining and agricultural engineering and physics research, as well as in industry. This will be followed by a discussion session by all workshop participants.

The workshop shall produce a framework for engagement between academic researchers, professional software companies and potential industrial beneficiaries of DEM numerical simulations that will identify areas that need significant further development both in terms of computational methodologies as well as the experimental validation procedures. It is hoped that in the longer term, the group of researchers brought together for the event will form the nucleus of a wider project formation aimed at setting the European/International standards of "best practice" in DEM Simulation software development and implementation in a broad range of industry sectors.

The EFCE Working Party Mechanics of Particulate Solids invites the scientific community to join the Workshop on DEM simulation of bulk solids behavior and would encourage participation in ChoPS-05. The workshop chairmen and Dr. H. Feise (hermann.feise@basf.com), chair of EFCE working party Mechanics of Particulate Solids, welcome all further enquiries in connection with attendance at the DEM workshop.

More information on the congress is available at <http://www.ortra.com/solids/>. Information about the EFCE Working Party Mechanics of Particulate Solids can be found at <http://www.efce.info/wpmps.html>