

**Institution of Chemical Engineers
Particle Technology Subject Group**

**Electrostatic Phenomena
in
Powder Processes**

Thursday 17th January 2008

Weetwood Hall Conference Centre

Otley Road, Leeds LS16 5PS, UK

**Institute of Particle Science & Engineering
University of Leeds**

Electrostatic Phenomena in Powder Processes, 17 January 2008

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Electrostatic phenomena are ubiquitous in dry powder processing. They are encountered in a number of undesirable situations, such as dust explosion, segregation in powder formulations, powder deposition in conveying lines and blockages, but are also used advantageously in applications such as powder coating, separation and classification, copying and printing.

This one-day seminar will give both academics and industrialists a better understanding of the underlying phenomena, how to characterise them, how to mitigate the undesirable effects or make use of them to manipulate the particles. Oral presentations will be given by leading researchers in the field.

Programme

10:00	Registration and Coffee
10:25	Prof. Mojtaba Ghadiri : Introduction
10:30	Prof. Tatsushi Matsuyama , Soka University, Japan: <i>"Tribo-Electrification by Particle Impact"</i> .
11:00	Mr Enes Supuk , University of Leeds, UK: <i>"Analysis of a Simple Test Device for Tribo-Charging of Bulk Powders"</i> .
11:30	Prof. Wamadeva Balachandran , Brunel University, UK: <i>"Bipolar Charge Measurement System for Aerosol Characterization"</i> .
12:00	Prof. Shuji Matsusaka , Kyoto University, Japan: <i>"Analysis and Control of Tribo-Charging of Fine Particles in Gas-Solids Pipe Flow"</i> .
12:30	Dr Khashayar Saleh , University of Technology of Compiègne, France: <i>"Characterization of electrostatic behavior of powder paints used in automotive industry"</i>
13:00	LUNCH
14:00	Dr Caner Yurteri , Technical University of Delft, The Netherlands: <i>"Electrostatic Induction Probe Measurements in a Laboratory-Scale Fluidized Bed"</i> .
14:30	Dr Paul Miller , Pfizer Global Research and Development, UK: <i>"Charge Effects in Dry Powder Inhalation Processing"</i> .
15:30	Dr Jeremy Smallwood , Electrostatic Solutions Ltd, UK: <i>"Electrostatic Charging and Explosion Hazards in Powder Handling"</i> .
15:00	Dr Atsushi Ohsawa , National Institute of Occupational Safety and Health, Japan: <i>"A Computer Simulation for the Risk Analysis of Electrostatic Ignition during Vessel Filling with Powder"</i> .
16:00	Tea and Departure

VENUE - Weetwood Hall Conference Centre, Otley Road, Leeds LS16 5PS, providing on-site accommodation and complimentary parking.

ACCOMMODATION – In case overnight accommodation is required, the participants are responsible for booking accommodation directly with the conference hotel. For further information please see the link below:

http://homepages.see.leeds.ac.uk/~lecag/microscale/weetwood_map.pdf

There is another local hotel: Village Hotel (email:village.leeds@village-hotels.com; tel: +44 (0) 113 278 1000; Fax: +44 (0) 113 278 1111; www.Village-Hotels.co.uk)

