

## Tuesday 10 December: Conference, day 1

28aug19

### Session 1: overview of mixing/demixing (solid-solid systems)

#### 8:00 Registration & Introduction

8:30 **Stefan Luding** University of Twente

Review on segregation in flowing and vibrated granular systems

9:15 **Jan Wieringa** Unilever

An industrial view on blending and segregation of consumer goods

#### 10:00 morning break (30 minutes)

10:30 abstract under review

11:00 Wouter K. den Otter University of Twente

Segregation of granular particles by mass, radius and density in a horizontal rotating drum

11:30 roundtable discussion: segregation

#### 12:00 Lunch break (90 minutes)

### Session 2: recent research

13:30 **Benjy Marks** University of Sydney

segregation, mixing and breakage during granular flow

14:15 Susantha Dissanayake The Wolfson Centre  
for Bulk Solids Handling Technology

Cellular automata modelling for simulating segregation of wood pellets in silo filling and discharge

14:45 p5: student presentation

#### 15:15 afternoon break (15 minutes)

15:30 flash presentations

16:30 poster reception

#### 19:00 Forum dinner

notes: 1-keynote presentations are highlighted in blue

2-Conference content and speakers placement are preliminary; final content/placement will be available one week before the Forum

## Wednesday, 11 December: Conference, day 2

### Session 3: Modelling & Simulation

#### 8:00 Introduction

- 8:15 **Nico Gray** University of Manchester Particle segregation in dense granular flows  
9:00 **Anthony Thornton** MercuryLab B.V. Multiscale modelling of industrial granular materials

#### 9:45 morning break (30 minutes)

- 10:15 Anton Kulchitsky Coupi, Inc. IBC blending performance analysis depending on particle dimension & shape  
10:45 Thomas Weinhart MercuryLab B.V. Coarse-graining with MercuryCG - from discrete particles to continuum fields  
11:15 Marina Sousani DEM Solutions Ltd Understanding the mechanistic behaviour of powder mixing with the use of DEM  
11:45 questions & answers: modelling & simulation

#### 12:00 Lunch break (90 minutes)

### Session 4: experimental aspects, case studies and applications

- 13:30 **Paul Mort** Purdue University (ex P&G) Powder flow and cohesion - balancing industrial and academic perspectives of product design and processing
- 14:15 Tong Deng The Wolfson Centre Influences of flowability and permeability on air elutriation segregation  
for Bulk Solids Handling Technology of Pharmaceutical powders
- 14:45 Naven Mani Tripathi Granutools Physical characterization of powder blends with a focus on electrostatic properties

#### 15:15 afternoon break (15 minutes)

- 15:30 Jack Saad Micromeritics Instrument Corp. In-line monitoring of powder mixing processes using a drag force flow sensor  
16:00 Discussion & conclusion

#### 16:30 End of the BSF2019-EU Scientific Conference