



Powders & Grains
Since 1989

POWDERS AND GRAINS 2017

3-7 July 2017, Montpellier, France

CALL FOR ABSTRACTS

www.PG2017.org



INVITATION

This is the second announcement of the conference **Powders and Grains 2017**. Powders & Grains 2017 will be held in **Montpellier** (South of France) on **3-7 July 2017**. The aim of the conference is to give an up-to-date picture of the broad research field of granular media. Contributions from experts around the world will cover a wide range of hot research topics.

Powders & Grains is an international scientific conference held every four years that brings together both physicists and engineers interested in the physics and micro-mechanics of granular media. It distinguishes itself from other meetings on granular materials (i) by the mixture of disciplines, (ii) by a refereed conference papers ready at the conference and online available, and (iii) by its unique single-session concept.

We invite you to submit abstracts through the conference website www.pg2017.org **before June 5, 2016**. Authors of accepted abstracts will be invited by the Scientific Committee to submit full papers from August 1st 2016 to October 28, 2016. The conference proceedings will be published as ISI-referenced online papers before the conference.

The conference will be held at the Corum conference center (The Corum-Esplanade Charles De Gaulle BP 2220 - 34000 Montpellier). Montpellier is a central place in the south of France to which belong important sites of the UNESCO world heritage. It is located in 15' tramway from the Mediterranean sea, 150 km from Marseille, 350 km from Monaco (East), 350 km from Barcelona (South-West), and 250 km from Toulouse (West). Montpellier is the 8th largest and the fastest growing city in France. It has 300 days of sunshine a year on average. According to the New York Times, Montpellier was unique French city within 45 destinations to go in 2012.

To follow conference news and updates, please subscribe to the mailing list of the conference at the following address: http://www2.msm.ctw.utwente.nl/msm_www/AEMMG.

IMPORTANT DATES

5 June 2016

Abstract submission

31 July 2016

Notification of acceptance and request for full papers for peer review

28 October 2016

Deadline for full paper submission

6 January 2017

Reviewers reports available

10 February 2017

Paper re-submission for online publication

17 March 2017

Notification of acceptance of final paper

TOPICS

Powders & Grains 2017 will feature the highest quality of research presentations addressing the relevance of granular materials research from strong fundamental scientific problems to contemporary issues in various areas, including:

- ◆ Contemporary issues : (Packing texture, Nano-granular materials, Particle shape effects, Jamming, Nonlocal models, Mixing, Instabilities, Astroids...)
- ◆ Rheology and Constitutive modeling
- ◆ Powder processing, Food science, Pharmaceuticals

- ◆ Geomaterials (soils, rocks, concrete)
- ◆ Geological and environmental granular processes (avalanches, soil-root interactions...)
- ◆ Particle characterization and properties, Physics and chemistry of contact
- ◆ Multiphase granular materials (suspensions, unsaturated materials, cementitious materials...)
- ◆ Particle-based methods and algorithms

KEYNOTE SPEAKERS

Malcolm Bolton University of Cambridge, UK
Geo-phenomena: finding the granular mechanism

Karen Daniels North Carolina State University, USA
The Role of Force Networks in Granular Materials

Elisabeth Guazzelli Aix-Marseille University, France
Rheology of dense suspensions of noncolloidal particles

Ken Kamrin Massachusetts Institute of Technology, USA
Continuum modeling and continuum-level numerical simulation of granular flows

Jim Jenkins Cornell University, USA
Dense, Collisional, Shearing Flows

Takashi Matsushima University of Tsukuba, Japan
The granular processes in planetary surfaces

Vanessa Magnanimo University of Twente, Netherlands
Micromechanics of complex soils

Thorsten Poeschel Universitaet Erlangen-Nuernberg, Germany
History and Structure of Granular Packings

Roland Pellenq Massachusetts Institute of Technology, USA
Clays and cement under the nanoscope

Matthias Schroeter Max Planck Institute, Germany
A local view on the role of shape and friction

Matthieu Wyart Ecole Polytechnique Federale de Lausanne, Switzerland
Unifying Suspension and Granular flows near Jamming

Runyu Yang University of New South Wales, Australia
DEM investigation of strength of powder compacts

Iker Zuriguel Universidad de Navarra, Spain
Flow and clogging of grains in confined geometries

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Gioacchino Viggiani, France, Université Joseph Fourier
Aibing Yu, Australia, Monash University
Iker Zuriguel, Spain, Universidad de Navarra

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