



Two-Phase Continuum Models for Geophysical Particle-Fluid Flows

International Workshop & Seminar 14 March - 15 April 2016

The focus of the program is on environmental phenomena that have strong interactions between grains and fluids, for example aeolian transport and turbidity currents. The program is intended to bring together physicists, applied mathematicians and experts on geological processes and to yield suggestions for new measurements that are informed by theory.



Topics

- Particle-turbulence interactions
- Particle-fluid interaction near, at, and in the particle bed
- Transient evolution and relaxation mechanisms toward steady flows
- Polydisperse flows
- Development of dunes, ripples and other bedforms
- Closures in continuum models
- Computational fluid dynamics
- Laboratory and field experiments

Key note speakers:

- E. Bodenschatz
Göttingen, Germany
- E. Guazzelli
Marseille, France
- J. Jenkins
Ithaca, USA
- E. Meiburg
Santa Barbara, USA

Scientific coordinators:

- G. Bewley
Göttingen, Germany
- J. McElwaine
Durham, United Kingdom
- A. Valance
Rennes, France

Organisation:

- M. Pätzold
MPIPKS Dresden

Applications received before 3 January 2016 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international seminar and workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

For further information please contact:

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