

## Organization

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## Fees

School: 100 Euro

The fee includes the participation and a lunch meal.

Workshop: 200 Euro

The fee includes the participation, lunch meals and a dinner during the workshop.

## Travel & Accommodation

The workshop will take place at the Technical University of Dresden, Germany. Dresden is located in the eastern part of Germany and can be reached easily by airplane, train or car. There is a sufficient number of hotels available. Please book sufficiently in advance – Dresden is a popular touristic attraction.

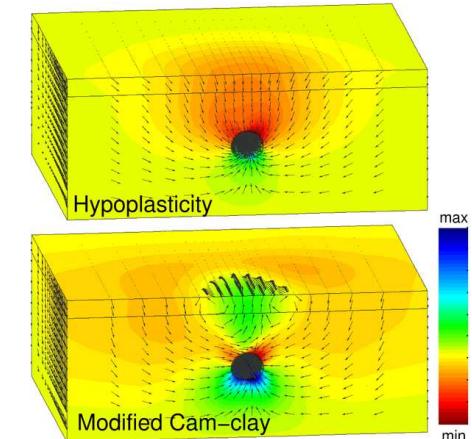


## Workshop on hypoplasticity

7-8 March 2013

(preceded by a school)

Dresden, Germany



<http://www.soilmodels.info/dresden2013>

## Scope

Hypoplasticity is a general framework for the constitutive modelling of granular materials and, particularly, of soils. Its development started more than 30 years ago in Karlsruhe and Grenoble and has become a successful alternative to traditional elasto-plastic models. The simplicity of the majority of hypoplastic models, which resign on yield and plastic potential surfaces in their formulations, is accompanied by a consistent treatment of asymptotic states, including the critical states.

Nevertheless, there are limitations in capabilities of the present constitutive models. Their development is still one of the major topics of soil mechanics, and a success of geotechnical design depends strongly on an appropriate selection and application of suitable constitutive models. Correspondingly, the framework of hypoplasticity is also subjected to a continuous criticism and to a further evolution.

### *Workshop (7-8 March 2013)*

The workshop on hypoplasticity intends to bring together researchers and practitioners who are involved in the development and application of this modelling framework. It should allow for an exchange of ideas and point out to possibilities and limitations of the hypoplasticity. It is also an opportunity for those who want to get informed about the hypoplastic models.

### *School (6 March 2013)*

The workshop will be preceded by a one-day school on hypoplasticity where an introduction to the hypoplastic models will be given. The school will include computer exercises using *octave* (freeware compatible to *matlab*). The lecturers will be professors Ivo Herle (TU Dresden) and David Mašín (Charles University in Prague).

See <http://www.soilmodels.info/dresden2013> for more details.

## Themes

The following themes are of special interest for the workshop of hypoplasticity:

- new hypoplastic models for particular soil types (sand, clay, silt, rockfill, lumpy soils)
- incorporating of special effects into hypoplasticity (small-strain effects, cyclic behaviour, partial saturation, grain crushing, anisotropy, time effects)
- numerical aspects of hypoplastic models (implementation into FE codes, integration algorithms, error control)
- hypoplastic macroelements
- application of hypoplasticity for boundary value problems (focus on geotechnical engineering but even beyond)

Other related themes can be submitted too.

## Important dates

The workshop is intended to be an informal meeting, thus no written contributions are expected. In order to make a presentation, a short abstract (maximum one page) should be submitted to the organizers. The abstracts of the selected lectures will be available on the webpage of the workshop.

30 September 2012

Submission of abstracts for the lectures  
(by email to the organizers)

31 October 2012

Notification on the lecture acceptance

31 January 2013

End of registration for the participants

Visit <http://www.soilmodels.info/dresden2013>  
for registration!