

## EUROMECH Colloquia

EUROMECH Colloquia are organised under the auspices of the EUROMECH Council. They are specialised in content, small in size and informal in character.

There are no parallel sessions. Participants are asked to provide a summary of the work they wish to report. Unfinished work is welcome, since an important objective of the meeting is to stimulate and assist current research.

## Scientific Scope of EUROMECH Colloquium 572

The accurate modelling of the mechanical behaviour of soil and rock is of great interest in geotechnical engineering. For modelling the complex behaviour of such materials, a large number of advanced material models has been developed in recent years. They are based on different theories, e.g. plasticity theory, damage mechanics and combinations of the latter two theories, and hypoplasticity.

The aim of the Colloquium is to review the various existing constitutive models for soil and rock and to assess the potential and drawbacks of the different approaches for applications in numerical simulations of geotechnical problems.

The Colloquium will contribute to obtain a valuable basis for the selection of reliable and efficient material models for soil and rock and to intensify the interaction between experts in the fields of continuum mechanics, numerical modelling and geotechnical engineering.

## Programme

The detailed programme including full session details is available at <http://572.euromech.org/programme>.

### Monday, 22 February 2016

08:00 – 08:30

#### Registration

08:45 – 09:00

#### Welcome address

09:00 – 10:30

Session I:

#### Fundamental aspects of constitutive modelling

11:00 – 12:00

Session II:

#### Models of organic soils and clays

14:00 – 15:30

Session III:

#### Coupled constitutive models

16:00 – 17:30

Session IV:

#### Extensions of classical models

### Tuesday, 23 February 2016

09:00 – 10:30

Session V:

#### Multiphase constitutive models

11:00 – 12:00

Session VI:

#### Modelling of localisation

14:00 – 15:30

Session VII:

#### Hypoplasticity and barodesy

This special session is devoted to Prof. Dimitrios Kolymbas on the occasion of his retirement in emeritus status in 2017.

15:30 – 16:00

#### Laudatio for Dimitrios Kolymbas

19:00 – 23:00

#### Colloquium Dinner

### Wednesday, 24 February 2016

09:00 – 12:30

Session VIII:

#### Modelling of rock, rock mass and rockfill

14:00 – 16:00

#### Excursion to the Brenner Base Tunnel

## Venue

Innsbruck, the capital of Tyrol in the heart of the Alps with 130000 inhabitants, is surrounded by picturesque mountain peaks.

The most well-known attractions include the Golden Roof, the Imperial Palace and the Ambras Castle. Furthermore, the city and its surrounding areas offer excellent opportunities for sports all year round.

The University of Innsbruck, founded in 1669, is one of Austria's oldest universities. Today, with its sixteen faculties and more than 27000 students, it is western Austria's largest institution of higher education and research.

The Colloquium will take place at the seminar center *Seehof* (<http://www.ak-seehof.com/>), located at an altitude of about 300 m above the city of Innsbruck, close to a skiing area. The seminar center is easily accessible from the city by car, public transportation and a funicular.

Innsbruck is an ideal place for hosting such a Colloquium, as it is close to the construction site of the Brenner Base Tunnel, which will be the longest underground railway connection in the world. Currently, the exploratory tunnel is excavated and an excursion will be organised to the tunnel construction site.

## Contact

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## Registration & Payment

The fee for the Colloquium of € 320 for EUROMECH members (plus € 24 for non-members) includes the technical programme as well as coffee, snacks, lunches and the Colloquium dinner on Tuesday evening, 23 February 2016. A reduced fee of € 250 (plus € 24 for non-members), not including the Colloquium dinner, is offered to Ph.D. students.

Early bird registration is valid until 20 December 2015. Late payments will be subject to a charge of € 30.

Registration and payment information will be available at

<http://572.euromech.org/>

## Accommodation

A limited number of comfortable rooms at reasonable rates is available at the seminar centre *Seehof* on a first come, first served basis. Please indicate in the registration form, if you would like to book a room at the seminar centre.

Innsbruck offers a wide range of hotels of different categories. Rooms can be booked via

<http://www.innsbruck.info/en/home>

Payments have to be made directly to the hotel.

Early booking is strongly recommended, since February is a peak season for skiing in Innsbruck.



# EUROMECH Colloquium 572

*Constitutive Modelling  
of Soil and Rock*  
22-24 February 2016  
Innsbruck, Austria



Organised by  
Prof. Günter Hofstetter  
Prof. Dimitrios Kolymbas  
University of Innsbruck, Austria  
and  
Prof. Alessandro Gajo  
University of Trento, Italy

