

REGISTRATION

In order to register, please send the following information before February 13th 2010 to the course organiser.

Name: _____ (Mrs. / Mr.)

Organisation: _____

Address: _____

Country: _____

E-Mail: _____

Telephone: _____

Fax: _____

I will attend:

- Advanced Course (15-17 March) €1375
 Dynamics Day (18 March) €550
(A €95 discount is applied if both events are attended)

Hotel Resevation

- single (€95/night) double (€125/night)

Please reserve a room for me on:

- Sunday, 14 March
 Monday 15, March
 Tuesday, 16 March
 Wednesday 17, March
 Thursday, 18 March

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2600 AN Delft
The Netherlands
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Mr. Dennis Waterman
Tel: + 31 (0)15 2517720
Fax: + 31 (0)15 2573107
E-mail: courses@plaxis.nl

Registration by e-mail is preferred

Date: _____

Signature: _____

VENUE

The advanced course will be held at the Van der Valk Hotel Schiphol in Hoofddorp. It is situated 8 kms southwest from Schiphol International airport and next to the motorway A4 to The Hague. There are regular free shuttle buses from the airport to the hotel. For more information see <http://www.hotelschiphol.nl>

REGISTRATION

The total number of participants is limited to forty (40). Registration will be accepted in the order in which they are received. Participants who require a visa are suggested to register early. In some cases the process of obtaining a visa may take up to two months. To register for the course, please complete the registration form and send it to the course organiser. Directly after registration participants will receive a letter of confirmation, travel suggestions and additional information. Please note that when registering after February 13th or when the payment is made after February 26th, accomodation cannot be guaranteed. The organisers reserve the right to make any necessary amendments to the program.

CANCELLATION

Participants are requested to give immediate written notification if, after registration and confirmation formalities have been completed, they are unable to attend the course. Cancellation of course registration with refund of the course fee, less €125 service charge, will be accepted by the organizers in writing, if it is received no later than February 26th, 2010. Only 50% registration fee will be refunded

after that date or in case of no-show. Refund of the accomodation fee is subject to the regulations of the Hotel Schiphol. In case the course is cancelled by the organiser the fees for the course as well as the accomodation, if booked along with the registration, will be fully refunded.



PLAXIS Expert Services

This course relates to Plaxis Expert Services among which we can also provide:

For information contact: expert.services@plaxis.nl or look on our website: www.plaxis.nl

PLAXIS

essential for geotechnical professionals



ADVANCED COURSE ON COMPUTATIONAL GEOTECHNICS
15 - 18 March 2010, Schiphol, The Netherlands

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INTRODUCTION

The well established advanced course for experienced Plaxis users is organized every year as a continuation of the basic course on Computational Geotechnics.

One of the aims of this course is to teach the application of advanced soil models. Where the basic course concentrates on the Mohr-Coulomb model, attention is now fully focused on the Hardening Soil model and the very new extension to include the small-strain stiffness.

Another aim of the course is to teach the numerical analysis of geotechnical problems, such as excavations, soil improvements, embankments and foundation. On solving practical problems PLAXIS

SOFT SOILS

The second day will be fully dedicated to soft soils. Aspects of excavations in soft soil and embankments with creep behaviour and its interaction with consolidation as well as large deformation analysis will be addressed. Additionally the use of drains and soil improvement will be discussed. The second day lectures are:

- Soft Soil model – Dr. Ronald Brinkgreve
- 1-D Creep – Prof. Pieter Vermeer
- Anisotropic creep – Dr. Martino Leoni
- Consolidation – Prof. Pieter Vermeer
- Soil improvement – Prof. Helmut Schweiger
- Drains – Prof. Helmut Schweiger

FOUNDATIONS

The third day opens with lectures on the modelling of foundations, with particular attention to raft and pile-raft foundations. Furthermore, the 3D Foundation program is introduced and used for exercises on raft and piled raft foundations. The lectures given on the third day are:

software will be applied. For 2D problems version 9 will be used, which includes the extension to small strains and a feature to simulate standard laboratory tests. For groundwater flow the program PlaxFlow version 1.6 will be used.

For 3D problems the newest version 2.2 of the 3DFoundation program will be applied, which includes consolidation and new options to generate complex geometries.

LECTURES

Experts with a thorough theoretical background and an extensive experience in practical computer modelling have been invited to give lectures and to prepare exercises as well as case studies.

- Shallow foundations – Prof. Pieter Vermeer
- 3D Foundation – Dr. Ronald Brinkgreve
- Analysis of piles – Dr. Yasser El-Mossallamy
- Piled rafts – Dr. Yasser El-Mossallamy
- Embedded piles – Prof. Helmut Schweiger

DYNAMICS

This year there is an optional fourth day that will be fully dedicated to dynamics analysis. Soil behaviour and soil-structure interaction under dynamics loads as well as earthquake engineering aspects will be addressed.

FORMAT

The course starts with registration and a welcome drink on Sunday evening. The program format consists of three days, which are arranged in intensive session blocks, allowing for a compact and time effective course.

All days include a morning and an extended afternoon session ending with dinner. The blocks all contain two full 45min. lectures and a 60min. exercise with full tutoring. On Wednesday afternoon

HARD SOILS

On the first day of the course the focus will be on elastoplastic soil models and the simulation of standard laboratory tests. Special attention will be given to undrained soil behaviour, small-strain stiffness and parameter sets for different soils. To include small-strain soil stiffness the Hardening Soil model has been extended to the HS-Small model, as will be explained in full detail. The titles of the lectures are:

- Concepts of plasticity – Prof. Helmut Schweiger
- Shear and density hardening of soils – Prof. Pieter Vermeer
- Hardening soil model – Dr. Ronald Brinkgreve
- The HS-small model – Prof. Thomas Benz
- Undrained behaviour – Prof. Helmut Schweiger

the course ends with a dinner for those who do not subscribe for the Dynamics day on Thursday.

COST

The cost of only the course is €1375 and the cost of the extra dynamics day is €550. However, when both the course and the dynamics day are attended there will be a €95 discount. The cost includes all lunches and dinners. The course fee also includes a full set of instruction manuals and the use of a computer.

A single room in the hotel where the conference is held costs €95 including breakfast when booked along with the registration. A double room for two persons including breakfast costs €125.

Dates:	15 – 18 March, 2010
Location:	Hotel Schiphol, Hoofddorp, The Netherlands
Course leader:	Prof. P.A. Vermeer, University of Stuttgart
Organisers:	Plaxis bv

Prof. Helmut F. Schweiger – Graz University of Technology

Helmut obtained his Ph.D. from the University College of Swansea, UK and teaches courses on Advanced Soil Mechanics and Computational Geomechanics at the Graz University of Technology, Austria. He has over 15 years of experience in development and application of the finite element method in geotechnics.

Prof. Thomas Benz – Norwegian University of Science and Technology (NTNU) / Wechselwirkung GmbH

Thomas worked several years as field geophysicist, structural, and geotechnical engineer before he got into constitutive modelling of geo-materials. As part of his Ph.D. these he developed the HS-Small model, a small-strain extension of the Hardening Soil model before moving to NTNU. He also started his own company specialised in numerical geotechnics.

Dr. Yasser El-Mossallamy, - Senior Expert, Arcadis Consult, Germany

Yasser has been a researcher and consultant since 17 years. He has a wide experience by the design and construction of raft and piled raft foundations of high-rise buildings and bridge foundation. He was also involved in many projects dealing with stability of landslides, soil improvement, rock fall hazards and tunnelling.

Prof. Pieter Vermeer - Professor of Geotechnical Engineering, University of Stuttgart

Pieter teaches both basic courses on Soil Mechanics and special courses of Geotechnical Engineering. He has been involved in constitutive modelling and finite element analysis since the early seventies and initiated the development of the Plaxis code.

Prof. Youssef Hashash - University of Illinois at Urbana-Champaign (UIUC)

Youssef obtained both his Master's degree and PhD at MIT. After working for Parsons Brinckerhoff for 5 years he joined UIUC where he works on geotechnical earthquake engineering, seismic site response as well as constitutive modelling.

Dr. Martino Leoni – Wechselwirkung GmbH

Martino obtained his PhD from the University of Parma, Italy. Starting from 2007 he is a research fellow at the University of Stuttgart where he is involved in the development of a constitutive model for anisotropic creep.

THE LECTURERS