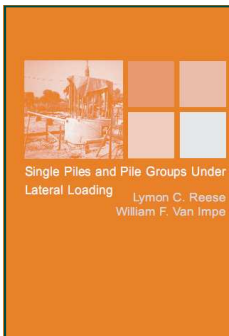


GENERAL NOTES

Course attendees are encouraged to bring a notebook computer running MS Windows. In order to permit each attendant to participate in the solution of design exercises, hardlock keys and software will be provided.

Participants are also encouraged to send design problems of interest to them and their employers to AGE well in time of the course. Interesting design problems will be discussed by the instructors during the software training sessions and advice will be giving on how to set up design computations.

Participants will also have the opportunity to order the **2nd edition (2009)** of the reference book *Single Piles and Pile Groups Under Lateral Loading* by Lymon C. Reese and William F. Van Impe at a 10% discount.



REGISTRATION

To register, please send the registration form to AGE fax +32 70421186 or training@AGE-be.net before **November 2nd, 2009**. The number of participants will be limited to 45. Registration will be based on a first come—first served basis. Registration is confirmed only after full payment has been received.

The registration form is included in this brochure or can be downloaded from our website:

WWW.AGE-BE.NET

Information on this and other courses can be found on our website :

www.AGE-be.net



AGE bvba

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AGE TRAINING

Lateral Loading on Piles and Pile Groups

December 7—9, 2009

AGE bvba

Geotechnical and Geo-environmental consultants



SPEAKERS

Dr. ir. William M. Isenhower (TX, US)

Project Manager at Ensoft, Inc. Dr. Isenhower has over 30 years of experience in civil engineering, with an emphasis on geotechnical engineering. His experience has been in consulting, government service, university teaching and contract research. He has served as an Expert on Mission for the UN Development Program and as a consultant to the USACE.

Prof. Dr. ir. William Van Impe (BE)

Full Professor of Civil Engineering and Director of the Laboratory of Geotechnics at Ghent University, Belgium. Prof. Van Impe has a more than 35 years long career in geotechnics. He was past Vice-President for Europe and past World President of ISSMGE. Since 2008, he is the President of FedIGS (Federation of the International Geo-Engineering Societies) since 2008. His main fields of expertise are deep foundations, ground improvement and soil parameter analysis.

Dear colleagues,



*Dr. ir. P. Van Impe,
Director AGE bvba*

AGE is pleased to announce a new training seminar in the framework of *AGE Training* :

Lateral Loading on Piles and Pile Groups.

The first edition of this 2-and-a-half day seminar will be held from

December 7th till 9th in Ghent, Belgium.

The course deals with the complexities of designing piles for lateral load, which is a critical design element in many contemporary constructions :

- horizontal loads from berthing of ships on marine structures,
- wind- and wave-loading on off-shore windmill structures
- wind forces on highrise buildings, ...

FORMAT

The course is designed so the participants are actively involved in the learning experience. It provides engineers with practical knowledge on which to base decisions concerning deep foundations at various levels of the foundation/design/construction process.

This course will be of most benefit to foundation design engineers (both structural and geotechnical engineers). The goal is to make each participant aware of the effective uses of and problems with deep foundations.

Participants will develop knowledge to recognize conditions in which deep foundations can be used effectively, develop the necessary skills to design

and evaluate deep foundations, and be alerted to the implications of design features on construction practices and inspection procedures. Actual design calculations are based on the computer programs LPILE Plus and Group, developed and marketed by Ensoft, Inc.

CONTENT

- Principles of soil-structure interaction
- Theoretical basis of lateral load-transfer (p-y) curves and experimental validation
- Description of the p-y curves used in LPILE and GROUP software
- Study of nonlinear moment-curvature behaviour of bored piles and prestressed concrete piles
- Software training with LPILE
- Practical considerations for design of bored piles
- Software training with GROUP
- Axial loading on piles
- Analysis of pile groups under combined axial and lateral loading
- Geotechnical testing related to lateral loading analysis

TIME AND VENUE

The course is organised to start at 9:00 a.m. on Monday December 7th and to end on Wednesday December 9th at 1:00 p.m.

Venue is the Ghent University Conference Centre 'Het Pand' (Onderbergen 1, 9000 Gent). This is a former 13th century Dominican monastery and is one of the oldest buildings in Ghent. A public underground parking place (Sint-Michiels) is situated in front of the building.