

ETC3 MEETING 26.02.2015 - MINUTES

Participants: Maurice Bottiau, Monika De Vos, Noel Huybrechts, Alain Le Kouby (replacing S. Burlon), Panu Tolla, Jean-Paul Volcke

Apologized: Gary Axelsson, Sébastien Burlon, Carlos Fernandez-Tadeo, Ken Gavin, Kazimir Gwizdala, Paul Hoelscher, Trevor Orr, Ole Møller, Christian Moormann,

1. Minutes of the previous webex meeting of 23.09.2014

Maurice Bottiau introduces the meeting and welcomes the participants.

No remarks with regard to the minutes of the previous meeting.

Open actions from the previous meeting will be addressed further in these minutes.

The minutes are approved.

2. ETC 3 membership

France delegates S. Burlon/A. Le Kouby and J.P. Voncke.

UK confirmed to nominate a representative soon.

A supplementary ETC3 member from Eastern Europe seems necessary. Possibly Vanicek can be contacted for that **(Action Noel)**.

Liasons with CEN TC 288 (Christian Gilbert) , CEN TC250/SC7 (A. Bond) as well as CEN TC 341/ISO TC 182 (via Paul) have to be established **(see further)**.

Note: after the meeting Spain asked to replace Mr. Rasines by Mr. Prieto

Updated list of ETC3 Members_03.03.2015: see annex

3. ETC3 website: www.ETC3.be

The website is important with regard to communication and data-transfer addressing the international symposium (see point 4)

Open actions from the previous meeting:

- Activating the website in the public domain **(Action Noel)**
- Sending relevant reference documents with regard to piles and the terms of reference (design, SLT, DLT, RLT, integrity testing) that can be posted on the new website **(action All ETC3 members)**.

4. International ETC3 seminar/symposium

- Date: 28-29 april 2016
- Location: Centre of Brussels e.g. Crown Plaza or Square. Aim 120 to 150 participants – providing capacity of 200 **(Action Noel)**

- Local Organizing committee: Belgian Member Society of ISSMGE (BGGG-GBMS) and BBRI (organizing secretariat), ABEF : M. Bottiau, N. Huybrechts, M. De Vos, M. Roovers, W. Maekelberg, J.F. Vanden Berghe, G. Van Alboom,...
- Establishing Int. Advisory Committee: ETC3 Members, A. Gens, Experts (F. De Cock, R. Frank, ..) + liaisons (ETC10, EC7, TC288 and TC341/ISO TC 182) **(Action Maurice/Noel)**
- Sponsoring will be possible
- No exhibition will be organized

- Possible title of the conference : **ETC 3 SYMPOSIUM – DESIGN OF PILES IN EUROPE - *How Eurocode 7 changed daily practice?***

- Proceedings:
 - Editing and publication by BGGG-GBMS & BBRI – possibly hard copies for participants
 - Proceedings available via ETC3 website – free download
 - Template for national report, key notes and general reports to be established , based on TC211 conference 2012 **(Action Noel)**

- 1st bulletin **(Action Noel – deadline end of April/begin of May 2015)**
- 2nd bulletin : ECSMGE Edinburgh September 2015
- 3rd bulletin with final programme : early 2016

- Key notes/SOA:
 - General overview/actual situation with regard to standardization issues on pile testing in Europe - CEN TC 341/ISO TC 182 (P. Hoelscher?) **(Action Noel)**
 - Static pile load testing (F. De Cock, ...?)
 - Practical application of Dynamic & Rapid pile load testing (Scandinavian expert? – **Action Panu)**
 - Actual situation with regard to CEN TC 288 standardization: general + focus on piles and evolutions (Christian Gibert?) **(Action Jean-Paul)**
 - Concrete for deep foundations: joint activities CEN TC 288/CEN TC 104 + Activities of the Task Group EFFC/DFI (K. Beckhaus?) **(Action Maurice)**
 - Overview EC7 (A. Bond?) & evolution of pile design (C. Moormann, ...?) **& (Action Monika)** - presentation of Monika in annex.
 - Comparative design exercises/ETC10 (?) **(Action Monika)**
 - Site topics (Quality control, monitoring, new measurement/integrity techniques,...)

- Panel discussion

- General reports based on national reports
 - Themes to be determined (e.g. design methods based on experience/SLT/lab tests/field tests, QC issues, ...)

- Design examples
 - Proposing and selecting 2 to 3 sites that cover a typical North European, UK-Central/Eastern Europe and South European subsoil profile **(Action Panu, Noel, Alain, ...)**
 - Sites: preferably extensive Ground investigation results: CPT, SPT, PMT and lab tests

- M. De Vos suggests to contact ETC10 (T. Orr) with regard to comparative design examples **(Action Monika)**

M. De Vos will ask to combine with CENTC250/SC7 April 2016 meeting (**Action Monika**)
Based on these topics and themes and the feedback from possible lecturers a proposal of the symposium program will be elaborated (**Action Maurice/Noel**)

- Content of the national report:
 1. Regional geology
 2. Current practice for Soil Investigation
 3. Piling Technology & Classification
 4. National relevant documents for the application of EC7
 5. National design method according to the principles of EC7
 - 5.1 *General principles* (Geot. Cat., Design Approach, methodology, ...)
 - 5.2 *Definitions & symbols*
 - 5.3 *Design based on experience*
 - 5.4 *Design based on load tests*
 - 5.5 *ULS design based on soil investigation test results (including installation, model, correlation and safety factors)*
 - 5.5.1 Introduction
 - 5.5.2 Axial compression – single pile
 - 5.5.3 Axial tension – single pile
 - 5.5.4 Lateral loading – single pile
 - 5.5.5 Specific issues (group effect, cyclic loading, seismic design ...)
 - 5.5.6 Problems not covered by NA and future steps
 - 5.6 *SLS design (including OM for SLS design)*
 - 5.7 *Structural safety*
 6. Design example (= local example)
 7. Quality control, monitoring and testing practice
 8. Particular national experiences/database with load tests
 9. References
- Procedure with regard to national reports
 - Template with some explanation will be distributed by end of March 2015 (**Action Noel**)
 - ETC3 representative will co-ordinate the establishment of the national report for his country, possibly via a mirror group (**Action ETC3 members**)
 - Deadline for the first draft of the national reports: Mid-October 2015
 - Feedback by organizing committee : End of November 2015
 - Final version of the national reports to be submitted by end 2015
- General reports: deadline end of March 2016

Open action from the previous meeting:

- Verification date and location of the next Stress Wave Conference / Foundation Engineering Conference (1-3 June 2016, USA?) (**action Paul**)

5. Guidelines Dynamic load testing

This topic is new for ETC3, and has been integrated in the terms of reference on demand of the TOC and R. Frank.

Dynamic testing (PDA) is quite popular in Northern Europe as QC for end bearing piles.

In Central Europe (B-F-NL) is not often use.

J.P. Volcke mentions possible refusal of the RLT standard that is elaborated in WG7 of CEN TC341. (**Action : to be verified with Paul**).

As it is a particular domain, ETC3 member(s) who take the lead and can contribute need to be identified.

Possible persons that could take the lead are Paul Hoelscher (research, standardization background) or Panu Tolla (practical background). **(Action - to be decided during the next Webex meeting)**

Open action from the previous meeting:

Gathering existing and relevant documents/guidelines on the execution and interpretation of DLT and RLT. **(Action Garry; Paul, Carlos and Arne)**

6. Any other business

-

7. Next meeting

An online webex meeting will be organized on:

- **2 April 2015 at 14h00 CET**
- **11 June 2015 at 15h00 CET**

A Face to face meeting will be organized in Edinburgh (ECSMGE September 2015) **(Action Noel/Maurice)**.