

ETC3 WEBEX MEETING 23.09.2014 - MINUTES

Participants: Maurice Bottiau, Ken Gavin, Carlos Fernandez-Tadeo, Paul Hoelscher, Noel Huybrechts, Trevor Orr, Ole Møller, J. Pusztai, Arne Simonsen, Panu Tolla, (Alessandro Mandolini had problems with the webex connection)

Apologized: Robert Hoffman, Christian Moormann,

1. Minutes of the previous webex meeting of 03.07.2014

Maurice Bottiau introduces the meeting. Participants of the meeting introduce themselves. No remarks with regard to the minutes of the previous meeting. The minutes are approved

2. ETC 3 membership

New response since the previous meeting was received from Denmark, Finland, Hungary and Portugal.

If not already done, the delegates are asked to make sure that their participation in ETC3 is ok for their national member society of ISSMGE.

Up to now 13 European countries are represented in ETC3.

Trevor Orr confirmed to provide the liaison with ETC10.

No response was received from France. A new invitation will be sent **(action Noel)**.

For the moment, ETC3 has no formal representation from the UK. Contact to be taken via Melvin England and/or Andrew Bond **(action Maurice/Noel)**.

Updated list of ETC3 Members_23.09.2014: see annex

3. ETC3 website

A new ETC3 website with web address www.ETC3.be will be set up.

It is decided to use a simple logo (based on the official ISSMGE logo)

The following quite simple structure will be provided:

1. Homepage: ETC3 + terms of reference
2. Members
3. ETC3 activities/events (meetings, workshop, DLT guidelines, design example, ...)
4. Relevant reference documents (
5. International ETC3-symposium (bulletins, templates, program, ..., proceedings)

The website will be open to all (no passwords).

Delegates are asked to send relevant reference documents with regard to piles that can be posted on the new website **(action All ETC3 members)**.

Within a few weeks the website will be available.

4. International ETC3 seminar/symposium

Some guiding discussions points are given in Annex.

Remarks/suggestions/decisions during the meeting:

- Organization: **28-29 April 2016** seems the most appropriate time frame up to now. Paul Hoelscher mentions that in 2016 also the Stress Wave Conference (after verification: 1-3 June 2016, USA) and a/the Foundation Engineering Conference will be organized (not clear which conference: to be clarified/verified **action Paul?**)
- ETC 3 members have to co-ordinate the establishment of their national report, possibly via a national mirror group. ETC3 members are asked to take action in this respect before next meeting **(action: all ETC3 members)**.
- A proposal of the format for the national report is presented in annex and compared with the format of the previous 1997 Conference. Remarks during the meeting :
 - Important to focus on the essential things/methods that cover the design that corresponds with 90% of the market (no too much focus on exceptional situations).
 - With regard to the "design example": a common design example seems too complicated for the moment. It is preferred that each country works out a typical design example, relevant for the daily practice in the specific country. If possible, the reliability of the national design method should be assessed by comparing the pile design result(s) with load test results.
- With regard to the key notes a consensus exist to address certainly the following standardization issues: design (CEN TC250 + Evolution Groups), Execution (CEN TC 288) and Testing (CEN TC 341).
- With regard to the national reports: the thematic approach is preferred (themes and general reporters to be decided). In order to have a dynamic conference it seems useful to include discussion sessions with the national representatives/reporters in the program.
- All remarks/suggestions with regard to the composition of the international advisory committee, the format/content of the national report, the key-note themes, guest lecturers etc. are welcome **before end of October** **(action: all ETC3 members)**.
- A more detailed program will then be worked out and presented during the next meeting **(action: Maurice/Noel)**.

5. Guidelines Dynamic load testing

Preferably Rapid Load Tests (Statnamic e.g.) should also be included.

Execution guidance of DLT and RLT is already being worked out by CEN TC341 WG7 (Paul Hoelscher is involved in this WG).

According to Paul, more need exists with regard to the interpretation and the reliability of these tests methods.

On first instance it seems useful to gather existing and relevant documents/guidelines on the execution and interpretation of DLT and RLT. This task should be carried out by persons that have experience with these topics. From the actual ETC3 representatives Paul

Hoelscher and Carlos Fernandez have experience with DLT and/or RLT. Arne Simonsen will send the co-ordinates of a Swedish expert **(Action Paul, Carlos and Arne)**

6. Any other business

In order to make the next webex meeting more efficient, a short introduction will be given during the next meeting, a.o. how using the mute function in order to avoid interference with other talks, phone calls etc.

7. Next meeting

The next online webex meeting will be organized on **18 November 2014 at 14h00 CET**. It is the aim to organize such a webex meeting each 2 months.

Face to face meetings will be organized in Brussels (begin 2015) and Edinburgh (ECSMGE September 2015) **(Action Noel/Maurice)**.

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ANNEXES

Country	New membership listperiod 2013-2017	Delegates
ALBANIA		
AUSTRIA	Robert HOFMANN	hofmann.geotechnik@aon.at
BELARUS		
BOSNIA HERZEGOVINA		
BELGIUM	Maurice BOTTIAU (chair)	maurice.bottiau@ffgb.be
	Noel HUYBRECHTS (secr.)	nh@bbri.be
BULGARIA		
CROATIA		
CZECH & SLOVAK		
DENMARK	Ole MøLLER	nom@aarsleff.com
ESTONIA		
FINLAND	Panu TOLLA	Panu.tolla@fta.fi
FRANCE		
GEORGIA		
GERMANY	Christian MOORMANN	christian@moormann-geotechnik.de
GREECE		
HUNGARY	J. PUSZTAI	pusztai@fugro.hu
ITALY	Alessandro MANDOLINI	alessandro.mandolini@unina2.it
ICELAND		
IRELAND	Ken GAVIN	kenneth.gavin@ucd.ie
ISRAEL		
LATVIA		
LITHUANIA		
MACEDONIA		
THE NETHERLANDS	Ruud STOEVELAAR (?)	Ruud.Stoevelaar@deltares.nl
	Paul HOELSCHER (?)	Paul.Hoelscher@deltares.nl
NORWAY	A. SIMONSEN	arne.schram.simonsen@multiconsult.no
POLAND	Kazimierz GWIZDALA	kgwiz@pg.gda.pl
PORTUGAL	Jaime SANTOS	jaimе.santos@ist.utl.pt
ROMANIA		
RUSSIA		
SERBIA		
SLOVENIA		
SPAIN	José M ^a ECHAVE RASINES	echavejm@gmail.com
	Carlos Fernandez-Tadeo	carlos@fernandeztadeo.com
SWEDEN	Gary AXELSSON	gary.axelsson@elu.se
SWITZERLAND		
The former Yugoslav		
TURKEY		
UKRAINE		
UNITED KINGDOM	Melvin ENGLAND	melvin@loadtest.com ; europa_info@loadtest.com
LIASONS		
ECT 10	Trevor ORR	torr@tcd.ie
CEN TC 288		
EC7 (CEN TC 250)		
EC7 - evolution groups	C. MOORMANN	christian@moormann-geotechnik.de

ETC 3 – International Symposium on the design of piles in Europe

WHEN : Spring 2016 : ~~21-22-23/April~~ → *too early*
27-28-29/April (1 Mai on Sunday & 5 May OHH)
11-12-13/May (After OHH & before Pentecostweekend 15-16 May)
18-19-20/May → *to close to the Nordic geotechnical days (25-28/May)*
1-2-3 June (just before examinations) → *Stress Wave Conference*

WHERE : Brussels

DURATION : 1,5 days

- Day 1 : 10h00 – 18h00
- Day 2 : 9h00 – 14h00

LOCAL ORGANISATION COMMITTEE: M. Bottiau (Chairman), N. Huybrechts, M. De Vos, BGGG-GBMS board members (to be decided)

INTERNATIONAL ADVISORY COMMITTEE : A. Gens, ...

ORGANIZING SECRETARIAT: BBRI

PROCEEDINGS :

- Key notes / Guest lectures
- National contributions according to a fixed format (Cfr. ETC3 1997)
- Availability : online via ETC 3 website

PRESENTATIONS during symposium

- **Key notes** – Guest lectures - SOA lectures - proposals:
 - EC7 : actual situation - evolution groups – future - ... (Andrew Bond / C. Moormann?)
 - TC 288 : new execution codes for piles (Christian Gilbert/Chairmen WG displ. Piles Ericsson & WG Bored piles =Gilbert????)
 - TC 341 WG4 & 7 : SLT/DLT/RLT
 - SOA on load testing/*instrumentation/integrity testing* (new trends/techniques/...)
 - Reuse of existing foundations ?
 - Results of a design example?
 - ...

Possible guest lecturers: Dan Brown (Auburn University), ... (Russia), ...
- **Overview national contributions** : design of piles according to EC7
 - Serial overview of (all) national contributions? → perhaps too monotonic and too long?
 - Thematic overview by general reporters based on the national reports (per region/per DA / per method/...) → *this approach is preferred*

ACTIONS & DEADLINES

- Determining date/location/...→28-29 April 2019?
- Determining fixed format for national contributions → See next page
- National representatives : co-ordinate elaboration of the national contribution
- Elaborating program of the symposium
- Assigning key note speakers/general reporters/...
- ...

Content National Report ETC3-1997	Proposal content National Report ETC3-2016
<p>1. Regional geology</p> <p>2. Practice for Soil Investigation</p> <p>3. Piling Technology</p> <p>4. National relevant documents</p> <p>5. National design methods</p> <p>5.1 <i>General philosophy</i></p> <p>5.1.1 Background</p> <p>5.1.2. Basis of design</p> <p>5.2 <i>Definitions & symbols</i></p> <p>5.3 <i>Static load tests</i></p> <p>5.4 <i>Design by calculation based on ground test results</i></p> <p>5.4.1 cpt-related direct method for the ultimate resistance design of <u>compression piles</u></p> <p>5.4.2 other methods to determine ultimate resistance on basis of in situ ground tests</p> <p>5.4.3 Design methods based on laboratory tests</p> <p>5.4.4 Design methods for <u>tension piles</u> based on ground test results</p> <p>5.4.5 Particular load cases (donwdrag, cyclic)</p> <p>5.5 <i>Driving formulae</i></p> <p>5.6 <i>Wave equation analysis</i></p> <p>5.7 <i>Factors of safety</i></p> <p>5.7.1 General concept</p> <p>5.7.2 Factors of safety with regard to ultimate bearing resistance</p> <p>5.7.3 Structural safety</p> <p>5.8 <i>Serviceability</i></p> <p>6. Particular example</p> <p>7. Quality Control and Monitoring</p> <p>7.1 Monitoring of pile installation</p> <p>7.2 Visual inspection, static load testing and core sampling</p> <p>7.3 Non-destructive tests</p> <p>7.4 Dynamic load tests</p> <p>8. Particular national experiences</p> <p>9. References</p>	<p>1. Regional geology</p> <p>2. Current practice for Soil Investigation</p> <p>3. Piling Technology</p> <p>(4. Testing practice) or integrating it in §5.3 & §7</p> <p>4. National relevant documents for the application of EC7</p> <p>5. National design method according to the principles of EC7</p> <p>5.1 <i>General principles</i></p> <p>-..., Geot. Cat., Design Approach, methodology, ...</p> <p>5.2 <i>Definitions & symbols</i></p> <p>5.3 <i>Design based on load tests</i></p> <p>5.4 <i>ULS design based on soil investigation test results (including installation, model, correlation and safety factors)</i></p> <p>5.4.1 Introduction</p> <p>5.4.2 Axial compression – single pile</p> <p>5.4.3 Axial tension – single pile</p> <p>5.4.4 Lateral loading – single pile</p> <p>5.5.5 Specific issues (group effect, cyclic loading, ...)</p> <p>5.5.6 Problems not covered by NA and future steps</p> <p>5.5 <i>SLS design</i></p> <p>5.6 <i>Structural safety</i></p> <p>6. Design example (?) <-> test results/reliability?</p> <p>7. Quality control & monitoring</p> <p>8. Particular national experiences/database with load tests</p> <p>9. References</p>