

## MINUTES OF A TECHNICAL COMMITTEE MEETING

**Date:** Thursday 24<sup>th</sup> November 2016

**Time:** 10:00am

**Location:** Hamilton House, Mabledon Place, London, WC1H 9BD

**PRESENT:**

Craig Burton	Aarsleff
Chris Barker	Arup
Graham Thompson	Bachy Soletanche
Owen Francis	BAM Ritchies
James Binns	Byland
Andrew Bell	Cementation Skanska
Sebastian Draghici	Central Piling
Martyn Ellis	ESG
Toby Hayward	Expanded
Jonathan Chaloner	Franki Foundations
Keith Miller	Laing O' Rourke
Derek Egan	Remedy Geotechnics
Neil Stone	Rock & Alluvium
Chris Oram	Roger Bullivant
Colin Ryan	Simplex Westpile
Iwan Jones	TestConsult
Darren Milo	Van Elle

**In the Chair:** Mark Pennington BBGE

**In Attendance:** Ciaran Jennings FPS Secretary  
Katie Kennedy FPS Secretariat

No	TOPIC	ACTION
1	<b>APOLOGIES FOR ABSENCE</b>	
	Apologies had been received from Mick Gavins (Atkins), David Hard (Bachy Soletanche), Steve Wade (Cementation Skanska), Chris Irvin (DYWIDAG), Andrew Heathcote (Keller).	
2	<b>MINUTES OF THE LAST MEETING</b>	
	The minutes of the meeting held on 6 <sup>th</sup> September 2016 were approved.	
3	<b>MATTERS ARISING</b>	
a)	<p><b>Current and Future PFA/GGBS supply in the UK</b></p> <p>At the last meeting, the Committee discussed how the supply of PFA/GGBS in the UK is becoming limited. Andrew Bell reported the Skanska Procurement Supply team are looking into how serious the issue is. Mark Pennington asked whether the situation is a company issue or whether FPS should to get involved.</p> <p>The Committee discussed if there are any alternatives, and whether it is down to the suppliers. Chris Barker suggested the supply chain needs to be made aware. It was noted the EFFC Tremie Guide research project may be looking at conventional mixes that will soon be out of date. Ciaran Jennings to raise the issue with EFFC Concrete Group.</p>	<b>C Jennings</b>
b)	<p><b>Feedback from Quarterly Committee</b></p> <p>Mark Pennington reported the FPS Secretariat had emailed a survey of four questions</p>	



	comments table.	
<b>5</b>	<b>SONIC TESTING VS TIP TESTING</b>	
	<p>Andrew Bell reported he will be setting up the small working group on testing methods in mid January 2017.</p> <p>It was reported at the Quarterly meeting, an article by John Chick, MD of Expanded, on Sonic Logging was discussed, which is being driven from a safety perspective.</p>	
<b>6</b>	<b>FAILURE OF CAGE CLAMPS</b>	
	<p>Mark Pennington has revised the FPS Design and Lifting of Cages guidance which was first issued in 2012. Mark Pennington reported that he has kept the bulldogs section on page seven, as he didn't think it was necessary to remove.</p> <p>Mark Pennington proposed for the guidance to be reissued and uploaded on the FPS website. Version control should be introduced into this document to indicate the date of revision.</p>	<b>FPS Secretariat</b>
<b>7/8</b>	<b>ADDRESSING THE ISSUES OF ECONOMY OF USING PR11 / C574 OVER PG6 DESIGN OF BORED PILES INTO CHALK</b>	
	<p>A paper on pile load tests from Keith Miller was circulated to the Committee before the meeting. The four pile loads were tested after different time periods from construction. It was noted that Chris Oram is working on a similar paper with chalk from 2004.</p> <p>There is limited information of test piles into structured chalk and the topic is yet to be discussed with EFFC.</p> <p>The Committee were asked to look at all testing in chalk from 2004 onwards for working piles and it was agreed for the item to be kept on the next agenda.</p>	<p><b>C Oram</b></p> <p><b>AII/FPS Secretariat</b></p>
<b>9</b>	<b>SPERWall</b>	
	Ciaran Jennings reported that SPERWall is due to be published in November 2016. The press release is ready to be issued on the FPS website when the document is published.	
<b>10</b>	<b>WORKING PLATFORMS</b>	
<b>a)</b>	<p><b>Rig Track Bearing Pressure Spreadsheet Workshop</b></p> <p>The updated Rig Track Bearing Pressure Spreadsheet is currently available on the Members' section of the FPS website only.</p> <p>The first set of workshops was held on 1<sup>st</sup> November 2016 in Derby and the next set of workshops is being held in London on 1<sup>st</sup> December 2016. It was suggested the workshop will be run once a year.</p> <p>Feedback from attendees of the first workshops included whether the spreadsheet should be protected and the workshop should include more worked examples from Rig Manufacturers.</p>	
<b>b)</b>	<p><b>David Corke's Paper</b></p> <p>The Chair reported that David Corke had published an article via Ground Engineering magazine that drew a relationship between the Eccentricity Index and a Stability Factor. The FPS view was that it did not agree with David's paper as the purpose of the sheet is to determine the bearing pressure of rigs and not touch on the issue of rig stability, which has affected by a number of variables. However the FPS is not actively opposing the paper as we do not wish to introduce confusion into the industry about the advice that is being given.</p>	

<b>11</b>	<b>PRE-AUGERING OF LARGE CASINGS</b>	
	<p>The document was circulated with the meeting papers. There were a few comments on the document from the Technical Committee. In the first paragraph on page two under Piling Rig and Driver Influence, it was suggested the use of the word often was too strong. It was also questioned whether the 45 degree angle given in the document was too conservative, however it was felt to err on the side of caution given that there was no scientific method for calculating what this angle should be in any given circumstance.</p> <p>It was agreed a change should be introduced to the effect that the granular strata should limit the depth to be above the level of the water table.</p>	<b>FPS Secretary</b>
<b>12</b>	<b>DESIGN PRACTICES FOR SELF-DRILLING ANCHORS</b>	
	Derek Egan has spoken to Chris Irvin regarding his comments on the note. Derek Egan will provide the document to FPS, which will be distributed by FPS Secretariat.	<b>D Egan/FPS secretariat</b>
<b>13</b>	<b>UPDATE OF DOCUMENTS</b>	
<b>a)</b>	<p><b>C580/C760</b> The launch of C580/C760 has taken place and the document should be published before Christmas.</p>	
<b>b)</b>	<p><b>Temporary Works Forum</b> Ciaran Jennings has spoken to Tony Suckling from a2-studio who has provided contact details. There has been no movement with the working platforms document.</p>	
<b>14</b>	<b>EUROCODES AND EXECUTION CODES</b>	
	<p>Derek Egan provided an update for codes and standards which was circulated with the meeting papers.</p> <p>The main changes since the last meeting in September 2016 were:</p> <ul style="list-style-type: none"> <li>• Ground anchors will be discussed in June 2017 regarding whether the standard should be revised or not.</li> <li>• Redrafting work on Sheet-pile walls has commenced, FPS members should contact David Baxter with any input and monitor ongoing work.</li> <li>• Progress on Grouting has been difficult due to the complexity of techniques covered. BSI are looking for UK experts to form a UK mirror group to review this standard and Jet Grouting which is discussed below.</li> <li>• A working draft on Jet Grouting is expected in 2017 for comment. It was noted by Derek Egan that BSI only have a two and half month window for comments.</li> <li>• It was recently agreed that Reinforced Fill will not be revised for another five years.</li> <li>• A working group has been created for Ground Freezing and Dewatering and FPS to consider if there is any interest.</li> <li>• Issues relating to tendon design of BS 8081:2015 have been raised elsewhere and are being dealt with by the standard's authors as a corrigendum.</li> <li>• BS 8006-1 was revised and published in July 2016.</li> </ul> <p>The report of the recent meeting in Brussels on TC341, which was attended by Peter Payne was circulated to the Committee. Pile Load Testing was discussed by the Committee. There are differences between the testing procedures of European Countries. The Committee agreed that they would prefer to keep the current method. Martyn Ellis noted the UK market is more advanced than European Market.</p> <p>The BSI Comments table which was circulated before the meeting should be maintained and sent to BSI in time for the next meeting.</p>	

a)	<p>Derek Egan reported EC7 – Geotechnical design is underway. There are three parts, the first part is General Rules and Coordination, the second part is Ground Investigation and the third part is Geotechnical design.</p> <p><b>BS8004 Appendix A</b></p> <p>The Helical Pile Position Paper from Chris Oram was circulated. It was noted that many FPS members do not offer Helical Piling. The Committee were asked to give comments on Appendix A from Network Rail.</p>	All
15	<b>BUILDING INFORMATION MODELLING</b>	
a)	<p><b>Developing AGS Data Format to Capture Piling as Built Information</b></p> <p>Owen Francis reported AGS Data Format is keen to take on the FPS Electronic Pile Schedule. They are creating a working group of four people, which will include two representatives from AGS and two representatives from FPS. It would be preferable if one of the FPS representatives could be a pile tester. Martyn Ellis is willing to be part of the group on the piling testing side.</p> <p>Owen Francis is happy to be in the working group, although he is unable to attend the next AGS Data Format meeting which is taking place in Coventry on 7<sup>th</sup> December 2016.</p>	
16	<b>ASSOCIATE MEMBERSHIP</b>	
	<p>Ciaran Jennings mentioned that Byrne Looby are looking to join as associate members. Although it was noted by Ciaran that the FPS are not actively looking to recruit new associate members. The Rig Bearing Pressure Spreadsheet Workshop has created an interest in associate membership.</p> <p>An associate members AGM was held in September 2016, which generated feedback from associate members.</p> <p>Mark Pennington noted that associate members are invited to all meetings.</p>	
17	<b>MSc STUDENT PRIZE</b>	
	<p>Ciaran Jennings reported there have been around ten applications for the MSc Student Prize which will be reviewed soon. Four or Five MSc students will be selected depending on the strength of the applications. The MSc students selected will be given an MSc project title, work placement with FPS members and will attend FPS awards dinner.</p> <p>One project topic mentioned was Piles in Chalk. Chris Barker will ask at Arup for ideas.</p> <p>Ciaran Jennings has asked the Technical Committee to provide potential MSc projects ideas.</p>	All
18	<b>SOCIAL EVENTS</b>	
	<p>It was noted there are no upcoming social events.</p>	
19	<b>ANY OTHER BUSINESS</b>	
	<p>Chris Barker mentioned the second edition of the EFCF Tremie Contrete Guide. FPS has sponsors involved. An EFCF Tremie Guide Task Group meeting is being held in January 2017 which Duncan Nicholson is involved with.</p> <p>The Support Fluids Task Group was also mentioned, which Chris Harnan is deputy chairing with Sabine Darson of Soletanche Bachy Chairing. Matt Smith from Expanded has put himself forward as an FPS representative.</p>	

20	DATE OF NEXT MEETINGS	
	<p>The dates for the 2017 Technical Committee meetings have been confirmed as follows;</p> <ul style="list-style-type: none"> <li>• Thursday 30<sup>th</sup> March 2017</li> <li>• Wednesday 7<sup>th</sup> June 2017</li> <li>• Wednesday 6<sup>th</sup> September 2017</li> <li>• Tuesday 7<sup>th</sup> November 2017</li> </ul> <p><b>All meetings are to start at 10am and will be held at Hamilton House, Mabledon Place, London, WC1H 9BD</b></p>	