

## MINUTES OF A TECHNICAL COMMITTEE MEETING

**Date:** Thursday 13<sup>th</sup> September 2018

**Time:** 10:00am

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

**PRESENT:**

Chris Barker	Arup
Andrew Brindle	A-Squared Studio
Graham Thompson	Bachy Soletanche
Emily Wood	BAM Ritchies
James Binns	Byland Engineering
Richard Ball	Card Geotechnics Ltd
Andrew Bell	Cementation Skanska
Steve Hadley	Central Piling
Toby Hayward	Expanded
Andrew Bond	Geocentrix
Ebenezer Adenmosun	Geofirma Ltd
Iwan Jones	James Fisher Testing Services
Jon Chantler	JRL Civil Engineering
Andrew Heathcote	Keller
David Roy	Keltbray
Keith Miller	Laing O'Rourke
David Illingworth	Pile Designs
Mark Toye	Socotec UK

**In the Chair:** Mark Pennington BBGE  
**Guest:** Chris Raison Raison Foster Associates

**In Attendance:** Ciaran Jennings FPS Secretary  
 Grace Hawkins FPS Secretariat

No	TOPIC	ACTION
1	<b>APOLOGIES FOR ABSENCE</b>	
	Apologies had been received from Andrew Fingland (Atkins Global), David Hard (Bachy Soletanche), Steve Wade (Cementation Skanska), Derek Egan (Remedy Geotechnics Ltd), Kayvan Kiany (Rock and Alluvium), Jonathan Ball (Roger Bullivant Ltd), Chris Oram (Roger Bullivant Ltd), Martyn Ellis (Socotec UK) and Colin Ryan (Westpile).	
2	<b>MINUTES OF THE LAST MEETING</b>	
	It was noted that Chris Barker sent in amendments to be made to the minutes of the meeting held on the 24th May 2018 for consideration. The Committee accepted these as the final approved minutes.	<b>FPS Secretariat</b>
3	<b>MATTERS ARISING</b>	
a)	<p><b>Load Cases guidance document Presentation</b></p> <p>At the last Technical Committee meeting Chris Barker reported he spoke to IStuctE (Institution of Structural Engineers) and has been given a contact with who he can discuss how to get it into the publications, he has put together a presentation, which was circulated for discussion and is open to comments.</p> <p>Chris reminded the Committee the presentation could be given regionally or to clients. He added the presentation includes wording from the guidance note, questions from pile designers, the benefits of an e-Pile schedule, it also highlights Sperwall 3<sup>rd</sup> Edition, with links to the website where it is available, and it references AGS data.</p>	

	<p>Mark Pennington asked how the FPS should share the presentation. He asked should the FPS target specific events or people and how to make the most of opportunities to use it.</p> <p>Andrew Bell suggested it is presented at BGA Conferences and at ICE events, going through IStructE. Chris advised he has names he can send across for IStructE.</p> <p>James Binns asked if the presentation would last 1 hour or be a brief 10 mins, Chris suggested the presentation could be linked as an add on to a presentation, there is some flexibility on its use.</p> <p>Andrew suggested the FPS could present on electronic piles, or a member of the FPS could present with a Structural Engineer.</p> <p>Ebenezer Adenmosum suggested the presentation could be linked as a webinar; Chris agreed that younger Structural Engineers could use a webinar as a form of CPD.</p> <p>Chris Raison stated Structural Engineers use software, he asked how to get data out of it and why would a Structural Engineer put data into the FPS spreadsheet. Mark replied the FPS may need to contact clients and make its use a requirement, he added currently the data being submitted is incorrect. It was noted the errors in interpretation of information are getting worse.</p> <p>Mark advised the FPS needs to sell the benefits to Structural Engineers to use it as an extra step; Chris added the Committee has also previously discussed contacting software companies to incorporate it into a converting output from pile design programme.</p> <p>Chris Raison advised it needs publicity to push it. Mark agreed to contact ICE, he asked Chris Barker to send his contacts at ICE and the FPS Secretariat to send their contacts. Mark asked the Committee members to highlight any industry events and to allocate a member of the Committee to present.</p> <p>Ciaran Jennings agreed to ask Debbie Darling to look at putting information in BGA and ICE publications. Ebenezer added that the FPS needs to establish contacts for Structural Engineers, so information can be circulated. James Binns stated that the Structural Engineer magazine should be targeted.</p> <p>Ciaran added he will look into how to set up a webinar which may require help from Debbie Darling.</p>	<p><b>Mark Pennington</b> <b>Chris Barker</b> <b>FPS Secretariat</b></p> <p><b>Debbie Darling</b></p> <p><b>Ciaran Jennings</b></p>
b)	<p><b>BSI 5975: Code of practice for temporary works procedures</b></p> <p>Andrew Bell reported at the Temporary Works Forum there is new code of practice aimed at major infrastructure projects, Andrew advised he has not yet seen the final draft; however, the update of BSI 5975 is with the BSI committee for approval and it will be published on the 26<sup>th</sup> October 2018.</p> <p>Andrew added this will have an impact on what FPS members do, there will be bit more work involved when looking at risks for temporary work, it was reported there will be at least two new classifications coming out. Mark Pennington noted the FPS may need to revise FPS guidance following this.</p>	
c)	<p><b>Working Platform Certificate: Modification to the Guidance</b></p> <p>At the last meeting Toby Hayward explained he has experienced a few issues on repairs to large voids on the piling mat; he asked should this be added to the guidance note. Mark Pennington suggested this should be reviewed if there are some issues.</p> <p>Toby agreed to propose a modification to the guidance and circulate to the Committee before the meeting in November.</p>	<p><b>Toby Hayward</b></p>



	<p>suggested Mark Toye join the volunteers. Emily Wood advised Owen Francis suggested James Elson is contacted to join.</p> <p>It was reported the survey was previously produced in 2008 and the results were published in Geotechnical Engineering. It was agreed there should be parallel questions to the previous survey.</p> <p>Andrew Bond highlighted that the Committee need to push this forward as the second generation of Eurocode will help push this, he added if the UK want to influence this, they need to push now. It was noted the FPS want to embed better pile design in the Eurocode and to encourage clients to invest in better site investigation.</p> <p>Toby Hayward asked if proposals can be circulated to the Committee.</p>	<p><b>FPS Secretariat</b></p>
<b>6.</b>	<b>FPS GUIDE TO DEEP PILES IN LONDON</b>	
	<p>Following the LDSA Guidance Note presentation it was agreed Deep piles in London or UK should be looked at as Members will be piling into Thanet sands and chalk and there are more, deeper piles being installed.</p> <p>Mark Pennington and Andrew Bell agreed to look at this; they reported this needs to be moved forward.</p> <p>Mark advised it will be similar to the LDSA; it was agreed that more data is needed to create a usable document.</p> <p>The FPS Secretariat will collect the data indicating the number of piles in dry London clay and piles found below London clay projects in the last 24 months from Members and Associate members of the Technical Committee. It was agreed the information provided should include project name and whether it is CFA or Rotary.</p>	<p><b>Mark Pennington Andrew Bell</b></p> <p><b>FPS Secretariat</b></p>
<b>7</b>	<b>EUROCODES AND EXECUTION CODES</b>	
<p><b>a)</b></p>	<p><b>Presentation on the revision of EN1997-3 Clause 6 – Pile Design by Chris Raison</b> Chris Raison presented on the revision of EN 1997-3 Clause 6 – Pile Design to the Committee, please <a href="#">click here</a> to view.</p> <p>It was reported there have been updates into the various different parts. The FPS are being asked to provide input to the revision of EN 1997-3 Clause 6 – Pile Design; previously the FPS inputted to part 1 by convening at Arup.</p> <p>Mark Pennington advised the following Committee members volunteered for a sub group to support Chris Raison; Ebenezer Adenmosun, Andrew Bell, Chris Oram, Jon Ball, James Hayward, David Illingworth, Toby Hayward, Chris Beynon and Ash Rogers.</p> <p>It was noted Chris Raison has been appointed by NEN to PT4 and EN 1990 has been reviewed. Chris Raison reported that all of the Eurocodes are under review to provide a second generation of codes. He added the main aims are to simplify and harmonise.</p> <p>Andrew Bond stated the preference is to have quality SI as a requirement in the Eurocode and to have an incentive for good quality information to be provided.</p> <p>James Binns suggested the consequence class could be increased; Andrew Bond added it must be assumed there is complicated ground.</p> <p>Ciaran Jennings stated that if it is felt by the EFFC that there is an epidemic of poor Site Investigation across Europe, the EFFC Technical Committee may be able to support it this change and ask their national standards bodies to support it within CEN.</p>	

	<p>Andrew suggested it should be a recommendation and made clearer; he added there may be argument for dc4 partial factor from Germany. James Binns referred to establishing ground water level, it should include a reference.</p> <p>Chris Raison said an FPS session is needed before October, Andrew also suggested the FPS could have a representative at the working group meeting in Naples. The Secretariat agreed to send the presentation to the volunteers and to the Committee asking for comments.</p> <p>Mark advised the parts on site investigation and testing will have comments, although he does not expect there will be much comment on DC1.</p> <p>Andrew advised there will be a draft following October which he will send to the FPS Technical Committee to comment on before Christmas. Mark proposed a session is arranged for the afternoon following the meeting in the morning on the 15<sup>th</sup> November 2018.</p> <p><b>b) Revision of Eurocode 7</b> Andrew Bond presented progress on the 2<sup>nd</sup> generation of Eurocode 7 on Structural Designs <a href="#">click here</a> to view the presentation.</p> <p>In the final part draft, they have reintroduced partial factors, and cast in place piles without permanent casing.</p> <p>Andrew Bond reported that EC2 had made some comments on bored piles and wanted to reintroduce the kf factor. He stressed that the group needed to be clear about our position so that he can speak to the EC2 Chair. It was agreed reintroducing kf factors is undesirable. Andrew agreed to feed this back.</p> <p><b>c) Update of Codes</b> David Hard sent his apologies ahead of the meeting and it was noted that no update of codes was available.</p> <p><b>d) Eurocode 2 Structural Capacity</b> It was noted the old guidance should not need to be reviewed until the new one has been issued.</p> <p><b>e) Tower Crane Loadings &amp; CIRIA C654</b> At the last meeting Mark Pennington advised he was going to raise this at the last CIRIA meeting, however there has not been a CIRIA meeting since the last FPS Technical Meeting.</p>	<p><b>Andrew Bond All</b></p> <p><b>Andrew Bond</b></p> <p><b>Mark Pennington</b></p>
<b>8</b>	<b>BUILDING INFORMATION MODELLING</b>	
<p><b>a)</b></p>	<p><b>AGS/FPS Data Information Transfer for Piling: HS2 Funding</b></p> <p>Following the presentation from Neil Chadwick on the AGS/FPS Data Information Transfer for Piling to the group, it was recognised as a good way forward, however there is difficulty getting funding and progressing; it was noted the scope is too big for the Technical Committee to lead, but they will input. Mark Pennington advised HS2 have shown interest and could provide funding.</p> <p>There has been wider discussion of how to improve the flow of data with HS2 support.</p> <p>Mark reported this item has been progressed, he had a meeting with Nick Sartain, HS2 to establish what support they are willing to provide. He noted the key is trying to develop use of format. HS2 have indicated that they are interested, but they need more information.</p> <p>Jason Boddy of Arup is keen to get the DFI Europe and FPS together to give more weight to developing a common data language for BIM and the use of geotechnical data.</p>	

	<p>Mark reminded the Committee that the BIM working group produced a number of guidance notes but has subsequently remained dormant for 18 months, Mark suggested the group should be reinvigorated; members are welcome to volunteer if they are interested. There should be a small working group from the FPS and a small working group from the DFI.</p>	<b>BIM Working Group</b>
<b>9</b>	<b>FPS WEBSITE</b>	
	<p>Ciaran Jennings reported the Committee need to establish what needs updating or reviewing on the website. Ciaran advised he has sourced the document which highlights what needs to be updated, he noted there are a few which are due for a revision. He asked if the FPS want to archive the documents relating to the previous editions of Sperwall and keep edition 3 online only or if the FPS would want to keep all editions online but highlight the third edition is most recent.</p> <p>Mark Pennington noted the FPS Technical Committee should focus on the more important actions and asked that the updating of documents on the website be placed on hold.</p>	
<b>10</b>	<b>RIG BEARING PRESSURE SPREADSHEETS</b>	
	<p>The FPS Secretariat reported that the Rig Bearing Pressure Spreadsheet training workshops are taking place on the 19<sup>th</sup> September in Derby and on the 11<sup>th</sup> December in London. It was noted the morning session in London has been sold out. Derek Egan will explain how to use the spreadsheet correctly using worked examples. The workshop is free to members and associate members.</p> <p>Mark Pennington reported Derek Egan is also doing a workshop online with the DFI.</p>	
<b>11</b>	<b>EFFC</b>	
	<p>Ciaran Jennings reported that the EFFC has formally asked its members including the FPS, for the Technical Committees to recommend subjects that the EFFC Technical Working Group should look at. He added they will be looking at the Tremie Concrete Guide and Support Fluids. Andrew Bell agreed he will think of subjects to recommend, the FPS Secretariat agreed to circulate a request for recommendations. It was noted that David Hard is the EFFC Technical Chair, so recommendations can also be relayed to him.</p> <p>Ciaran reported the EFFC has also been talking about the Contractor's point of view from EC7. Andrew Bond advised comments are welcome but need to be submitted as soon as possible.</p> <p><b>a) EFFC Tremie Concrete Guide: 2<sup>nd</sup> Edition: How to Implement the Guide in the UK</b></p> <p>Ciaran Jennings reported that the Tremie Concrete Guide was launched in June at the DFI/EFFC Conference in Rome. He also reported a working group will be formed to focus on the implementation of the guide.</p> <p>Ciaran also advised that there is Support fluids work ongoing to produce a best practice guide, they are looking to have a draft prepared by end of this year.</p>	<b>FPS Secretariat All</b>
<b>12</b>	<b>INDUSTRY EVENTS</b>	
	<p><b>Chalk Conference 2018</b></p> <p>Mark Pennington reported that the Chalk Conference will taking place next week and it has been well subscribed.</p> <p><b>Piling Conference 2020</b></p> <p>It has been previously reported that a Piling Conference will be taking place in 2020, Mark Pennington advised he is part of the organising committee and the FPS may be able to influence. Mark advised they asked if the FPS give approval for the FPS logo to be featured on the marketing information; the FPS Technical Committee all agreed they</p>	

	would be happy for the FPS logo to be featured. Steve Hadley agreed to request formal approval from the FPS Executive.	<b>Steve Hadley</b>
<b>13</b>	<b>SOCIAL EVENTS</b>	
a)	<b>FPS Golf Day 2018</b> The FPS Golf Day will be taking place at The Nottinghamshire & Country Club on the 12 <sup>th</sup> September 2018.	
b)	<b>FPS Annual Dinner 2018</b> The FPS Awards dinner will be taking place at the Intercontinental Park Lane in London on the 19 <sup>th</sup> October 2018. It was reported that the evening will be hosted by guest speaker Sir Clive Woodward.	
<b>14</b>	<b>ANY OTHER BUSINESS</b>	
	<b>Historic England Architectural guide</b> At the last meeting Chris Barker advised that the Historic England Architectural guide is being revised with updates, one big change is introduction to a risk register assessing the type of piling used in architecture. He reported that there was piling guidance public consultation in August and there is a meeting scheduled for October to go through the comments from Tony Suckling. There will be a number of FPS members present.	
<b>15</b>	<b>DATE OF NEXT MEETINGS</b>	
	15 <sup>th</sup> November 2018 <b>All meetings are to start at 10am and will be held at Hamilton House, Mabledon Place, London, WC1H 9BD</b>	