

Two webinars on working platforms for piling rigs and crawler cranes

The **Piling & Foundation Specialists Federation** jointly with **Australian Geomechanics Society** propose to run two webinars in relation to the design of working platforms for tracked plant, especially plant associated with piling work. Both will run for about 2 hours including questions and will include some preparation using example data which will be supplied. They will be presented by Stephen Buttlings, who has been closely associated with Working Platforms since 2009.

Registration - Both courses **free to attend**, numbers limited. Email admin@pilingfederation.org.au

1. Rig Bearing Pressures

This will concentrate on the determination of tracked rig bearing pressures for use in working platform design. It will be based on the very recent version 3 of the FPS (UK) spreadsheet FPS-Rig-Track-Pressure-Calculation-Tool. This has been revised as the result of some work which Stephen was doing in connection with an F2800 CFA rig for PFSF member Hully Foundations. It highlighted that there was an error in the previous version of the spreadsheet, in connection with the effect of crowd force on track pressure.

We will cover some of the basics of track bearing pressures, and stability, including tipping lines and the Instability Index. We will also cover the entry of data into the new FPS spreadsheet, manipulation of that data, optimizing the outcome, and reporting on the PFSF Working Platform Certificate. **November 30th 3.00pm to 5.00pm** (Eastern Summer Time)



2. Working Platform Design

This will cover how the FPS spreadsheet data is then used in the BR470 method to produce a working platform design.

The fundamentals of the method will be discussed, including how it was derived, and more recent work including that by the UK Temporary Works Forum, and the T-Value method, will be included. Special attention will be paid to questions of “conservatism”, and some mention will be made of geogrid reinforced platforms.

Numbers will be limited, to allow for opportunities to ask questions in both sessions. **December 8th 3.00pm to 5.00pm** (Eastern Summer Time)



Stephen Buttlings has nearly 50 years of experience in the UK, Hong Kong, Singapore, Thailand and Australia, and has been involved with Working Platforms since 2009, when he was with Piling Contractors and chaired a PFSF Technical Committee working on the topic. He also worked with Bill Kingwell, previous Managing Director of Vibropile, on piling rig stability issues. Between 2012 and 2016 he ran several workshops on Working Platforms.

Stephen has also assisted a number of piling contractors with the use of the FPS Rig Track Bearing Pressure Tool, through which he was able to identify an error in Version 2. He has recently carried out a benchmarking exercise to compare three independent methods of designing working platforms on clay subgrades, and shown that all methods are basically equivalent.

