

Call for Papers

Embedded foundations under complex loading

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Géotechnique

Advisory sub-panel chair: Dr Michael Brown, University of Dundee, Scotland

Géotechnique is planning a themed issue for 2019 on embedded foundations under complex loading.

Recent developments, such as the installation of large numbers of wind turbines (both onshore and offshore) and the demand for fully earthquake-resistant foundations, have led to new research and innovative design solutions concerning the capacity, stiffness and dynamic behaviour of embedded foundations. Piles and caissons of unprecedented size are being contemplated and new installation technologies are being developed to allow large, multi-component and often cyclic loads to be carried with sufficient safety and with the desired long-term dynamic and static load–displacement characteristics.

In particular, the economical design of large-scale offshore developments for renewable electricity generation (using wind, wave and tidal power) is a topic of intense current interest in the UK, Europe and Asia as well as other parts of the world. These schemes offer a range of formidable challenges to geotechnical engineers, yet there is widespread recognition that current industry-standard design methodologies – often developed with a focus on typical offshore oil and gas platforms – are not always capable of ensuring good foundation performance with an appropriate level of conservatism.

Abstracts are invited for papers concerning, but not limited to, the following subject areas:

- engineering geology and site investigation
- difficult ground conditions including chalk and soft rock
- novel foundation solutions for offshore renewable energy devices
- numerical analysis of foundations under cyclic lateral loading
- physical modelling (laboratory, centrifuge, field) of foundations under cyclic loading
- case studies and field monitoring of in-service behaviour.

Abstracts of up to 200 words should be submitted by Friday 7th September 2018. The abstracts will be reviewed by an international panel of experts, who will then invite a number of authors to develop their papers for submission by Monday 7th January 2019.

These will then be refereed by *Géotechnique* according to usual practice. Papers accepted will be published in mid- to late- 2019.

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