

地盤工学会関西支部 国際講演会のお知らせ

日時：2020年2月26日（水）17：00～18：00

場所：京都大学農学研究科 S-173講義室（京都大学農学部総合館）

主催：公益社団法人地盤工学会 関西支部

講師：Dr. Giovanna Biscontin
(Lecturer, University of Cambridge／京都大学客員教員)

講演タイトル：**Simple shear response of soils**

参加料：無料

講演内容：

Increasing interest in submarine slope stability, especially related to seismic loading, was the motivation for the development of a new multi-directional simple shear device, loading along three independent axes, two perpendicular horizontal directions to allow any stress or strain paths in the horizontal plane, and a third in the vertical direction. The device is also fitted with a pressure vessel providing the ability to control cell pressure and backpressure independently, in a manner similar to triaxial systems, for truly undrained tests.

The effects of multi-directional loading on the undrained behavior of both clay and sand have been studied with both monotonic and cyclic simple shear tests to better understand the response in more realistic loading conditions. A static shear stress causes the accumulation of permanent shear strain irrespective of the direction further shearing. The comparison of shear strains developed in several tests with uni-directional, oval and circular loading paths shows the detrimental effect of multi-directional loading. Multi-directional loading also shows faster accumulation of permanent strains at lower pore pressure ratios. The results will be explained within a newly formulated framework for the interpretation of multi-directional loading.

講演会の参加を希望される方は、所属・氏名を2月21日（金）までに下記宛ご連絡ください。

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本件に関する問い合わせ： 京都大学農学研究科 村上 章

会場地図



※京都大学北部構内図 (農学部総合館は「8番」の建物)

