

7th Korea-Japan

Geotechnical Workshop

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博士課程三年

2018年8月24日から8月25日まで、韓国、仁川において開催された、7th Korea-Japan Geotechnical Workshopに、宮崎が参加させて頂いた。下記の表に示す通り、研究内容を発表するとともに、関連分野においてディスカッションを行った。以下では発表時に頂いた質問と回答、参加した感想を報告する。

Research presentation title

	[Technical presentation 1, 24 th August 2018]
宮崎 祐輔	Evaluation of dynamic soil-culvert interaction in culvert longitudinal direction



Group photo

宮崎 祐輔 (D3)

*** 質問された内容**

From. Prof. Kim, Dong-Soo, KAIST.

Q: How about the numerical analysis on your experiments?

A: We did not conduct them. According to our experiments, the seismic deformation mode in the culvert longitudinal direction turned to be clear. That is why I considered modeling the observed seismic mode of the culverts as sufficient to evaluate their seismic performance with the present numerical analysis.

*** 質問した内容**

Presentation title: Topographic effects during the 2017 Pohang, Korea, earthquake

Q: The recorded acceleration spectrum has high frequency such as 10 Hz compared with the recorded earthquake in Japan such as 1 Hz. Do you have any comments on this kind of difference?

A: Bed rock widely accumulates on the Korean Peninsula. That is why the vibrational energy was not attenuated largely until the seismic wave reaches to the ground surface, which may keep high frequency of earthquake on the ground.

Presentation title: Estimation of strength parameters and soil classification based on Swedish weight sounding results

Q: In the presentation, you compared the observed internal friction of Silica sand with the demanded internal friction in other types of Japanese Design Code. Is it reasonable?

A: The Japanese Design Code considers the different sand material for the demanded friction angle, but we showed them as a reference for the required performance.

Presentation title: Advanced laboratory element tests for geomaterials in terms of transportation geotechnics

Q: Although traffic load has frequency dependent, how can you consider the frequency effect in your suggested tests?

A: As an academic research, we should refer to the frequency effect to clarify the damage mechanism of the pavement. However, considering the stage of the calculation of required performance of the road pavement, we suppose that we do not need to consider the frequency effect.

*** 感想**

今回初めて、日韓地盤工学ワークショップに参加した。本会議は、32編の口頭発表から構成され、比較的小規模であったが、少数ならでとは、質疑が活発に行われ、有意義な会議であった。私自身、他の会議より議論に参加しやすい空気があると感じ、ワークショップを楽しむことができた。今後も継続的に参加することで、ワークショップを盛り上げる側に立ってみたいと感じた。