

# 研究発表会の記録 2021年12月13～20日

## The 2nd IAfP international joint conference

Online via zoom service

### **Teshome Kebede Birhanu**

D1 student

The 2nd IAfP international joint conference was held on December 20, 2021 as part of the project, “Innovative Africa: Educational Networking Programs for Human Resource Development in Africa’s SDGs (IAfP: Innovative Africa Program)” in Kyoto University. This report summarizes what we discussed. In this conference, oral presentations and poster sessions was held by online via zoom service, and there were comments from faculty members and discussions with all participants. Organizers are IAfP and graduate school of Asian and African Area Studies in Kyoto University. Teshome Birhanu, D1 students, presented the research contents in oral presentation session where there were totally 13 presentations. This report summarizes the discussion with participants regarding the research and impression through this conference.

Table 1 Presentation title

	[Session 3: Land and Water]
Teshome Kebede Birhanu	Characterizing the hydromechanical properties of finely shredded paper treated soils

### **\* Contents of Q&A**

(18:10 – 19:10)

Title. April 16, 16:00 – 17:30

Q1: You mentioned the application of finely shredded paper with hydrated lime but the value of PH in the mix will affect the degradation of the stabilizing paper, how much is the PH value you set?

A1: Yes, the PH value has a clear effect even on the reaction process, the value will be up to 12 (where free calcium ion can be obtained) which I am planning to conduct with varying curing dates and amounts of lime additive.

Q2: As this stabilized soil is used for the embankment did you check its effect on the infiltration of the improved soil characteristics?

A2: The stabilization of Toyoura sand using FSP investigated and the hydraulic

conductivity result shows the additive increment reduces the infiltration by trapping the existing pore water. This test will also be extended for clay soils as well with varying additive amounts.

**\* Impression**

I am grateful to Professor Kimura for letting me get the chance to participate and present a paper at such kind of conference. It gives me different views and insights from the professors, coordinators, and researchers during the question and answers session of my work. I also develop good experience by discussing and sharing ideas with researchers and engineers. The conference provides potential areas and problems of the community which needs to study in addition to the achievement obtained from researchers' work.