

15:20-17:00 Wednesday Oct. 31 2018

Biogeotechnical Engineering

Chairs: Peter Cleall, Fusheng Zha

Room: Xixi II

1. A modeling study of the bio-geochemical processes in microbially induced calcite precipitation

Xuerui Wang (Germany), Udo Nackenhorst*

2. Modelling the Effects of Thermal Gradient on Microbe Facilitated Mineral Precipitation Kinetics in Subsurface Flow Conditions

Shakil A. Masum (UK), Hywel R. Thomas*

3. The comparison of microbiologically-induced calcium carbonate precipitation and magnesium carbonate precipitation

Xiaohao Sun, Linchang Miao (China)*

4. Use of bionanocementation as a technique in increasing resistance to sandy soil

Bruna Bilhar Dall Agnol, Antonio Thome (Brazil)*

5. Complex Conductivity and Shear Wave Velocity Responses of Sand-Calcite Mixture

Junnan Cao, Chi Zhang, Bate Bate (China)*

6. Evaluation of the strength of compacted lateritic soil treated with *Sporosarcina Pasteurii*

Kolawole J. Osinubi, Emmanuel W. Gadzama, Adrian O. Eberemu (Nigeria), Thomas S. Ijimdiya, Sabo E. Yakubu*

7. A Model for Aerobic Biochemical Degradation of Municipal Solid Waste

Diankun Xiao, Wenjie Xu (China), Liangtong Zhan, Yunmin Chen*

8. Compacted Sewage Sludge as a Barrier for Tailing Impoundment: the Microbial Functional Diversity in the Compacted Sludge Specimen

Qing Zhang (China), Huyuan Zhang, Jinfang Wang*

9. Unconfined compressive strength of *Bacillus pumilus* treated lateritic soil

Kolawole J. Osinubi, John E. Sani, Adrian O. Eberemu (Nigeria), Thomas S. Ijimdiya, Sabo E. Yakubu*

10. Microbial induced solidification of municipal solid waste incineration fly ash

Guiwei Wang, Hui Xu (China), Xiaoqing Ding, Yanxu Gao, Ping Chen, Xiufang Hu*

11. Influence of physical and biochemical composition of three cellulose fibers on cracking of soil

Rishita Boddu, Hong Min, Yongkang Deng, Fengjiao Chen, Ankit Garg, Sanandam Bordoloi, Viroon Kamchoom (Thailand)*