

13:30-15:20 Tuesday Oct. 30 2018

Engineering Barriers I

Chairs: Gemmina Di Emidio, Yonggui Chen

Room: Xixi I

1. Equivalent Design and Evaluation of the Liner System for A Hazardous Waste Landfill Vertical Expansion

Xuede Qian (USA), Te-Yang Soong, Xianda Zhao, Hang Shi*

2. Chemical compatibility of CMC-treated bentonite under heavy metal contaminants and landfill leachate

R.-D. Fan, S.-Y. Liu, Y.-J. Du (USA), Krishna R. Reddy, Y.-L. Yang*

3. Modeling Solute Transport through Geosynthetic Clay liners permeated with inorganic solutions

Francesco Mazzieri (Italy), Evelina Fratolocchi*

4. Impact of Heavy Metals On The Consolidation Properties of Bentonite

Saswati Ray (India), Bismoy Roy Chowdhury, Anil Kumar Mishra, Ajay Kalamdhad*

5. Effects of soil fabric on the thermal expansion coefficient of clay with reference to the crack formation in landfill barriers

Q. Y. Mu (China), C. W. W. Ng, C. Zhou, H. J. Liao*

6. Identifying active methanotrophs and mitigation of CH₄ emission in engineered landfill biocover

Raksha K. Rai (USA), Jyoti K. Chetri, Stefan J. Green, Krishna R. Reddy*

7. Influence of pore distribution characteristics on relative hydraulic conductivity in soil covers—a pore-scale numerical investigation

Guangyao Li (China), Liangtong Zhan, Sheng Dai*

8. Prediction of Vegetation-Induced Soil Suction using Numerical Modelling and AI

M. Indu Priya, Ankit Garg, S. Sreedeeep, Ajit Sarmah, Nik Norsyahariati Nik Daud (Malaysia)*

9. Study on soil-water characteristic curves of unsaturated silty clay of an old landfill cover

Zhan-hong Qiu, Zan-cheng Zhu, Qiao Wang Hai-jian Xie (China), Chenxi Zhao*

10. Testing of leachate levels at a landfill with multiple intermediate covering layers

Haijie He, Jiwu Lan (China), Yunming Chen, Pengcheng Ma*

11. Effect of initial compaction state on erosion potential for cover liner

Himanshu Kumar, Sanandam Bordoloi, S. Sreedeeep, Ankit Garg (China)*