



**Schedule for the 3<sup>rd</sup> YTGE Meeting – 4<sup>th</sup> ICTG, May 24, 2021**

08:00-08:10	<b>Opening of the 3<sup>rd</sup> YTGE Meeting – Dr. Yu Qian, University of South Carolina</b>		
08:10-08:30	Session 1	<b>Welcome Speech</b>	Prof. Antonio Gomes Correia, Univ. of Minho, Portugal
08:30-08:50		<b>(Invited Presentation) A study of particle migration in ballast bed under long-term train load using image analysis and "Smart Rock"</b>	Chuang Zhao*, Qiusheng Gu, Xuecheng Bian
08:50-09:10		<b>Influence of pile side grouting reinforcement on the compressive bearing capacity of existing piles</b>	Xinran Li*, Quanmei Gong, Yao Shan, Xiaofan Nie
09:10-09:30		<b>Steel slag aggregates characteristics evaluation as railway ballast</b>	Guoqing Jing, Peyman Aela*, Qiang Zhou, Wenli Jia
09:30-09:40	Discussion		
09:40-10:00	<b>Coffee Break</b>		
10:00-10:20	Session 2	<b>(Invited Presentation) Vibratory compaction characteristics and microstructure evolution of unbound railway embankment materials studies from smart sensing and X-ray CT technologies</b>	Wenjun Hua*, Yu Jiang, Yuanjie Xiao
10:20-10:40		<b>Long-term settlement of ballastless high-speed railway track under the conditions of ground water level variations</b>	Hongming Liu*, Xuecheng Bian, Lili Yan, Yunmin Chen
10:40-11:00		<b>Effect of degraded subgrade stiffness on rail geometry and train vibrations in high-speed railways</b>	Hongguang Jiang*, Shun Liu*, Yinxi Li, Haoran Chi, Jizhe Zhang, Ming Liang
11:00-11:20		<b>Characterizing the effect of fines content on small strain shear modulus of unsaturated sandy soils</b>	S. Mohsen Haeri, Mohammadreza Jebeli*, Ali Khosravi
11:20-11:30	Discussion		
11:30-13:00	<b>Lunch Break</b>		
13:00-13:20	Session 3	<b>(Invited Presentation) Field investigation of inverted pavements in Tennessee</b>	Xi Jiang*, Jay Gabrielson, Hani Titi, Baoshan Huang
13:20-13:40		<b>A study on suction properties, subgrade modulus and compressibility of marine soil subgrade for flexible pavement</b>	Ram Wanare*, Pritam Sinha, Dr. Kannan Iyer
13:40-14:00		<b>Shrinkage curve of treated sulfate-bearing soils with GGBS</b>	Hussein Al-Dakheeli*, Amir Hossein Javid, Mengting Chen, Rifat Bulut
14:00-14:20		<b>A back-analysis technique for condition assessment of ballasted railway tracks</b>	Shadi Fathi*, Moura Mehravar
14:20-14:30	Discussion		
14:30-15:00	<b>Refreshment Break</b>		
15:00-15:20	Session 4	<b>(Invited Presentation) Railroad ballast movements pattern recognition by using Smart Rock</b>	Kun Zeng*, Hai Huang
15:20-15:40		<b>Behavior of polymer-reinforced granular mixtures for railway sub-ballasts</b>	Eivy Alvarez*, Xiaobin Chen, Francisco Grajales-Saavedra
15:40-16:00		<b>Performance of jointed S&amp;C bearers</b>	Ali Shahbaz Khan*, Edgar Ferro, Louis Le Pen, William Powrie
16:00-16:20		<b>R-Value and resilient modulus prediction models based on soil index properties for Colorado soils</b>	Cara Fragomeni*, Reza Hedayat
16:20-16:30	Discussion		
16:30-17:00	<b>Closure</b>		

\*: Presenter