

# 3<sup>rd</sup> China-Japan Mini Workshop: High Speed Railway Geotechnics

To be holding in Beijing Jiaotong University on 22 December 2019

Chair: Prof. Dingli Zhang from Beijing Jiaotong University

Co-chair: Prof. Tatsuya Ishikawa from Hokkaido University

## Workshop Scopes:

- High Speed Railway Geotechnics
- Cold Region Geotechnics
- Tunnel Engineering

## Workshop Schedule

( Current Plan, Changes will be updated timely )

Date	Time	Schedule
December 21 (Hongguoyuan Restaurant)	18:00~20:00	Welcoming Banquet
December 22 (1 <sup>st</sup> Floor Multifunctional Hall of Mechanical Building)	08:15~08:30	Opening Speech
	08:30~09:30	Keynote Reports
	09:30~09:45	<i>Coffee Break, Group photo</i>
	09:45~11:45	Keynote Reports
December 22 (Multifunctional Hall of Mechanical Building)	11:45~13:00	Lunch
	13:00~14:00	Visiting Lab (Tunnel Center)
December 22 (1 <sup>st</sup> Floor Multifunctional Hall of Mechanical Building)	13:30~15:30	Keynote Reports
	15:30~15:45	<i>Coffee Break</i>
	15:45~17:45	Keynote Reports
	17:45~18:00	Closing Remarks
December 22 (Hongguoyuan Restaurant)	18:00~20:00	Banquet

**Program I**  
**(22 December 2019, Sunday)**

<b>Time</b>	<b>Chairs</b>	<b>Presenters</b>	<b>Presentation title</b>
08:15-08:30	<i>Opening ceremony</i> <i>Dean of the School of Civil Engineering Prof. Dingli Zhang ( Chair: Prof. Baoguo Liu)</i>		
08:30-09:00	<b>Prof. Baoguo Liu</b>	<b>Dingli Zhang</b> <b>Beijing Jiaotong University</b>	Key scientific issues of Sichuan-Tibet Railway Tunnel construction
09:00-09:30		<b>Tatsuya Ishikawa</b> <b>Hokkaido University</b>	Hydro-mechanical characteristics of aged railroad ballast in unsaturated condition
09:30-09:45	<i>Coffee Break, Group Photo</i>		
09:45-10:15	<b>Prof. Bing Bai</b> <b>Prof. Tao Li</b>	<b>Jiankun Liu</b> <b>Sun Yat-Sen University</b>	<i>Professor, Sun Yat-Sen University</i>
10:15-10:45		<b>Kimitoshi Hayano</b> <b>Yokohama National University</b>	Integrated risk of rail buckling in ballasted tracks at transition zones and its countermeasures (tentative)
10:45-11:15		<b>Jilin Qi</b> <b>Beijing University of Civil Engineering and Architecture</b>	Influence of plasticity on unfrozen water content of frozen soils as determined by nuclear magnetic resonance
11:15-11:45		<b>Takahisa Nakamura</b> <b>Railway Technical Research Institute</b>	Study on the crushing and refining mechanism of ballast due to aging degradation
11:45-14.00	<i>Lunch Break</i> <i>(Lunch box, Multifunctional Hall of Mechanical Building)</i>		

**Program II**  
**(22 December 2019, Sunday)**

<b>Time</b>	<b>Chairs</b>	<b>Presenters</b>	<b>Presentation title</b>
14:00-14:30	<b>Prof. Chen Xi</b> <b>Prof. Shen Yupeng</b>	<b>Baoguo Liu</b> <b>Beijing Jiaotong University</b>	<i>Professor, Beijing JiaoTong University</i>
14:30-15:00		<b>Erol Tutumluer</b> <b>University of Illinois at Urbana-Champaign</b>	Railroad Track Substructure Behavior – US Perspective with Special Emphasis on Ballast
15:00-15:30		<b>Xuecheng Bian</b> <b>Zhejiang University</b>	Cyclic Settlement of roadbed in ballasted railway due to train moving loads
15:30-15:45	<i>Coffee Break</i>		
15:45-16:15	<b>Prof. Li Xu</b> <b>Prof. Cai Guoqing</b>	<b>Degou Cai</b> <b>Railway construction Research Institute, China Railway Academy</b>	<i>Associate Research Fellow, Railway construction Research Institute, China Railway Academy</i>
16:15-16:45		<b>Xiaobin Chen</b> <b>Central South University</b>	An Investigation into dilation properties of ballast-TDA mixtures in heavy-haul railway engineering
16:45-17:15		<b>Yuanjie Xiao</b> <b>Central South University</b>	Demonstrative Application of Smart Geogrids in Railway Embankments for Internal Cavity and Early-age Damage Detection
17:15-17:45		<b>Peng Jing</b> <b>Beijing University of Technology</b>	Mechanical Behavior of Unbound Granular Road Base Materials under Repeated Cyclic Loads
17:45-18:00	<i>Closing remarks, Prof. Tatsuya Ishikawa and Prof. Liu Jiankun</i>		

Please send any inquires to the workshop secretaries:

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