

ISSMGE TC 202, 2nd Japan-China Mini Workshop on High Speed Railway Geotechnics

August 27-30, 2017



Main conference room, Faculty House Trillium, Hokkaido University,
Sapporo, Japan

PROGRAM



北海道大学
HOKKAIDO UNIVERSITY



横浜国立大学
YOKOHAMA National University



九州大学
KYUSHU UNIVERSITY



公益財団法人 鉄道総合技術研究所
Railway Technical Research Institute



北京交通大学
BEIJING JIAOTONG UNIVERSITY



浙江大学
Zhejiang University



中南大学
CENTRAL SOUTH UNIVERSITY

COMMITTEES

Sponsored by: ISSMGE TC 202

Chair : Prof. Tatsuya Ishikawa, Hokkaido University, Japan

Co-Chairs: Prof. Erol Tutumluer, University of Illinois at Urbana-Champaign, USA
Prof. Jiankun Liu, Beijing Jiaotong University, China

Organizing committee:

Prof. Kimitoshi Hayano, Yokohama National University, Japan
Dr. Yoshitsugu Momoya, Railway Technical Research Institute, Japan
Prof. Takashi Okayasu, Kyushu University, Japan
Prof. Dingli Zhang, Beijing Jiaotong University
Prof. Chenggang Zhao, Beijing Jiaotong University
Prof. Baoguo Liu, Beijing Jiaotong University
Prof. Bing Bai, Beijing Jiaotong University
Prof. Xuecheng Bian, Zhejiang University
Prof. Jianqun Jiang, Zhejiang University
Prof. Yuanjie Xiao, Central South University

Organized by:

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WS SCHEDULE

August 28, Monday, (25min for presentation, 5min for discussion, except Keynote Session)

Time	Chairs	Presenters	Affiliations	Topics
9:30-9:40	Opening Address, Dean of the Civil Engineering Course Prof. Norihiro Izumi			
Keynote Session				
9:40-10:40	Prof. Tatsuya Ishikawa	Prof. Dingli Zhang	Beijing Jiaotong University	Risk Assessment in Underground Engineering
10:40-11:00	Coffee Break, Group photo			
Session 1: Laboratory Element Tests and Numerical modelling				
11:00-11:30	Prof. Takashi Okayasu	Prof. Yuanjie Xiao	Central South University	Investigating Strength and Deformation Characteristics of Heavy-Haul Railway Embankment Materials Using Large-Scale Undrained Cyclic Triaxial Tests
11:30-12:00		Prof. Chenggang Zhao	Beijing Jiaotong University	Limitations of Current Soil Mechanics Theory
12:00-12:30		Prof. Takashi Okayasu	Kyushu University	Prediction and Evaluation of Cyclic Loading Behavior for Railway Ballast Stones
12:30 Lunch at Restaurant "ELM" of Faculty House Trillium				
Session 2: Model Tests and Field Measurement				
13:30-14:00	Dr. Yoshitsugu Momoya	Prof. Xuecheng Bian	Zhejiang University	Full-scale model testings on ballasted and ballastless track settlement under train traffic loading
14:00-14:30		Prof. Kimitoshi Hayano	Yokohama National University	Lateral Resistance Characteristics of Ballasted Tracks with Countermeasures against Rail Buckling
14:30-15:00		Prof. Jianqun Jiang	Zhejiang University	Impact of inhomogeneous roadbed settlement on track vibrations
15:00-15:30		Prof. Bing Bai	Beijing Jiaotong University	The effect of temperature on the seepage transport of suspended particles
15:30-15:45	Coffee Break			

Session 3: Improvement and Maintenance				
15:45-16:15	Prof. Kimitoshi Hayano	Prof. Jiankun Liu	Beijing Jiaotong University	Mechanical Properties of Fiber Reinforced Soil
16:15-16:45		Mr. Takahisa Nakamura	Railway Technical Research Institute	Study on Countermeasure against Track Settlement using Polymer for Ballasted Tracks with a High-mixture Ratio of Fine Particles
16:45-17:15		Prof. Baoguo Liu	Beijing Jiaotong University	Geotechnical Problems in Crossing Tunneling
17:15-17:45		Prof. Tatsuya Ishikawa	Hokkaido University	Geotechnical Impacts of Ballast Fouling on Track Design and Maintenance in Japan
17:45-17:55	Closing Remarks, Prof. Jiankun Liu			

TOUR SCHEDULE

- 2017/08/26 (SAT) : Travel day from China to Sapporo (stay at Sapporo)**
2017/08/27 (SUN) : Technical visit around Sapporo (stay at Sapporo)
2017/08/28 (MON) : Workshop at Hokkaido Univ. (stay at Sapporo)
2017/08/29 (TUE) : Technical visit to RTRI (stay at Tokyo)
2017/08/30 (WED) : Tokyo Technical tour (stay at Tokyo)
2017/08/31 (THU) : Travel day from Tokyo to China