



International Summit Forum

International Summit on Railroad Engineering and Transportation Geotechnics

In Recognition of Erol Tutumluer's Yangtze River Scholar Achievements

Central South University,
June 11-12, 2016,
Changsha, Hunan, China

Central South University
School of Civil Engineering

International Summit on Railroad Engineering and Transportation Geotechnics

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Introduction

Welcome to the International Summit on Railroad Engineering and Transportation Geotechnics, which will be held for the first time at the Central South University (CSU) located in Changsha, the capital city of Hunan Province, China on June 11-12, 2016. The summit will provide a forum for exchange of knowledge on recent developments, new concepts and innovative solutions in railroad engineering and transportation geotechnics. The summit will also recognize and celebrate Professor Erol Tutumluer's recent achievements as the 2016 Yangtze River Scholar award recipient, the highest academic award issued to an individual in higher education by China's Ministry of Education. Prof. Tutumluer has been competitively chosen to serve as the founding Director and Principal Investigator of the Yangtze River Scholar Innovation Team with the CSU's School of Civil Engineering with a focus exclusively on heavy-haul railway engineering structures.

Organizers

Chair: Prof. Erol Tutumluer, University of Illinois at Urbana-Champaign

Co-Chair: Vice President Chunyang Chen, Central South University

Secretary: Prof. Yuanjie Xiao, Central South University

Organizing Committee

Prof. Jiankun Liu, Beijing Jiaotong University, China

Prof. Hai Huang, Pennsylvania State University, USA

Prof. Xuecheng Bian, Zhejiang University, China

Prof. Xiaobin Chen, Central South University, China

Dr. Yu Qian, University of Illinois at Urbana-Champaign, USA

Prof. Long Wang, Harbin Institute of Technology, China

Prof. Yuanjie Xiao (Secretary), Central South University, China

Technical Themes

1. Transportation geotechnics challenges, new concepts and innovative solutions
2. Deformation behavior of granular ballast/base materials and subgrade soils
3. Environmental vibration and geodynamics in transportation infrastructure
4. Climatic effects influencing transportation infrastructure
5. Dynamic interaction of vehicle and heavy-haul and high-speed railway infrastructure
6. Structural safety and serviceability of heavy-haul and high-speed railway

Forum Venue

Conference Room, 14th Floor, Shiji Building, School of Civil Engineering,
Central South University

Contact

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Summit Agenda

Friday
June 10

6:00 pm

Welcome Dinner

All invited attendees and CSU administration
Grand Ballroom, Yingbin Hotel, CSU

Technical Sessions

(Co–presided by Prof. Tutumluer and Prof. Yu)

Conference Room (14th Floor), Shiji Building,
School of Civil Engineering, Central South University
22 South Shaoshan Road, Changsha 410075, Hunan,

Morning Session: 8:00am-12:00pm

Saturday
June 11

8:00 am

8:10 am

Welcome and Opening Speech

Vice President Chunyang Chen, Central South
University (CSU)

8:10 am

8:20 am

Announcement of Prof. Tutumluer's Yangtze River Scholar Title and Establishment of the New Innovation Team for Heavy-haul Railway Engineering Structures

Director of CSU's Office of Human Resources
Dean Youjun Xie of School of Civil Engineering,
CSU

8:20 am

9:00 am

Acceptance Speech by Prof. Erol Tutumluer

- Summary of future work plan with CSU and brief research plan for the newly established innovation team for heavy-haul railway engineering

- Prof. Tutumluer announces invited speakers

9:00 am

9:10 am

Introduction of Prof. Tutumluer's students/affiliates group

Prof. Yu introduces Prof. Tutumluer's students who organized this summit.

9:10 am

9:50 am

Invited Speech by Mr. Guotang Zhao

Introduced by *Dr. Yuanjie Xiao, Central South University*

Saturday
June 11

9:50 am
10:30 am

Invited Speech by Academician Prof. Wanming Zhai, Southwest Jiaotong University

Introduced by *Dr. Xuecheng Bian, Zhejiang University*

Break

10:50 am
11:30 am

Invited Speech by Prof. Antonio Gomes Correia, University of Minho, Portugal

Introduced by *Dr. Xiaobin Chen, Central South University*

11:30 am
12:10 pm

Invited Speech by Academician Prof. Yunmin Chen, Zhejiang University

Introduced by *Dr. Hai Huang, Pennsylvania State University*

Lunch

Afternoon Session: 13:30pm-18:30pm

13:30 pm
14:10 pm

Invited Speech by Prof. Theodore Sussmann, University of Hartford, Connecticut, USA

Introduced by *Dr. Hai Huang, Pennsylvania State University*

14:10 pm
14:50 pm

Invited Speech by Prof. Peter Woodward, Heriot-Watt University, Edinburgh, UK

Introduced by *Dr. Xiaobin Chen, Central South University*

14:50 pm
15:20 pm

Invited Speech by Prof. Zhiwu Yu, Central South University

Introduced by *Dr. Xuecheng Bian, Zhejiang University*

Discussion

Break

Saturday June 11	16:00 pm 16:30 pm	Invited Speech by Prof. Linbing Wang, Virginia Tech, Virginia, USA Introduced by <i>Dr. Xiaobin Chen, Central South University</i>
	16:30 pm 17:00 pm	Invited Speech by Prof. Jiankun Liu, Beijing Jiao Tong University Introduced by <i>Dr. Yuanjie Xiao, Central South University</i>
	17:00 pm 17:30 pm	Invited Speech by Prof. Shunhua Zhou, Tongji University Introduced by <i>Dr. Hai Huang, Pennsylvania State University</i>
	17:30 pm 18:00 pm	Invited Speech by Prof. Wuming Leng, Central South University Introduced by <i>Dr. Yanjun Qiu, Southwest Jiao Tong University</i>
	18:00 pm 18:30 pm	Discussion / Concluding Remarks Presided by Erol Tutumluer
	Dinner	
Sunday June 12	9:00 am 12:00 pm	Field Trip and Technical Tours in Changsha (place to be determined later)

Yangtze River Scholars Innovation Team

Director and Principal Investigator:
Dr. Erol Tutumluer
Yangtze River Scholar Chair Professor
Guest Professor of Civil Engineering
Central South University



Team Overview

Name

MOE-accredited Innovation Team for Rail Transportation Engineering Structures (RailTES)

Research Areas

- High-speed (Ballastless/Ballasted) Railway Engineering Structures
- Heavy-haul Railway Engineering Structures
- Transportation Geotechnics
(Highway/Railway/Airfield Pavement Foundations)
- Sustainable Construction Materials for Green Rail Transportation

Potential Funding Sources

- Ministry of Education of the People's Republic of China
- National Natural Science Foundation of China
- National Railway Administration, Ministry of Transport
- China Railway Corporation
- Hunan Provincial Department of Transport
- National Engineering Laboratory for High-speed Railway Construction
- School of Civil Engineering, Central South University

Team Administration



Erol Tutumluer:
Director Principal
Investigator



Jiasheng Zhang:
Executive Vice-Director
Co-Principal Investigator



Kejian Wu:
Counselor



Dingqing Li:
Counselor



Zhiwu Yu:
Counselor

Team Members



Shifan Qiao:
Geotechnical Engineering



Ping Lou:
Railway Engineering



Xiaobin Chen:
Geotechnical Engineering



Lianheng Zhao:
Pavement Engineering



Shuying Wang:
Tunnel Engineering



Ying Wen:
Bridge Engineering



Xueming Zhang:
Tunnel Engineering



Yuanjie Xiao:
Geotechnical Engineering

Research Facilities



Research Goals in Next Five Years

- Make the team one of the well-known research centers and hubs for freight/heavy-haul railroad, through hosting domestic and international symposiums
- Cultivate 2~3 young faculty members to be leading researchers in this area
- Secure national funds for freight/heavy-haul railroad research
- Publish high-quality research papers in prestigious journals (≥ 5 per year)
- Attract post-doctoral researchers and graduate students from outside



Contact Information:

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