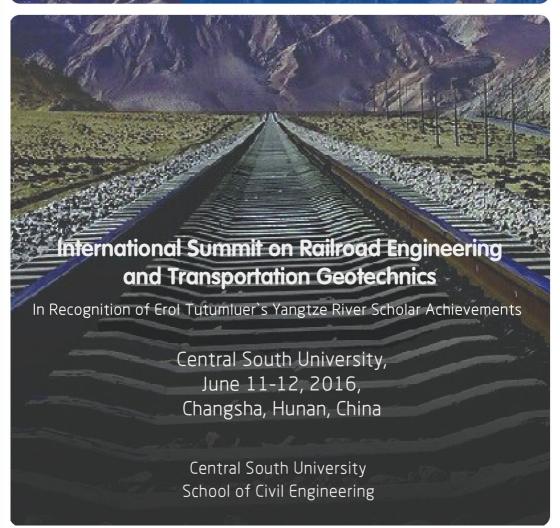


# International Summit Forum



## International Summit on Railroad Engineering and Transportation Geotechnics

In Recognition of Erol Tutumluer's Yangtze River Scholar Achievements



#### 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, Schoo of Civil Engineering, Central South University

#### **Contact**

Prof. Yuanjie Xiao, Central South University 22 South Shaoshan Road, Changsha 410075, China

Tel: +86-138-7580-0716 Email: yjxiao@csu.edu.cn

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	

	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 <i>Dr. Xiaobin Chen, Central South University</i>			
	11:30 am 12:10 pm	Invited Speech by Academician Prof. Yunmin Chen, Zhejiang University Introduced by Dr. Hai Huang, Pennsylvania State University			
Saturda	V	Lunch			
June 11		A()			
		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	
	16:30 pm 17:00 pm	-
	17:00 pm 17:30 pm	
	17:30 pm 18:00 pm	Invited Speech by Prof. Wuming Leng, Central South University Introduced by Dr. Yanjun Qiu, Southwest Jiao Tong University
	18:00 pm 18:30 pm	
		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 Geotechncial Engineering



Xiaobin Chen:



Lianheng Zhao: **Pavement Engineering** 



Shuying Wang: **Tunnel Engineering** 



Ying Wen: **Bridge Engineering** 



Xueming Zhang: **Tunnel Engineering** 



Yuanjie Xiao: Geotechnical Engineering

#### **Research Facilities**







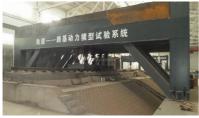
















#### **Research Goals in Next Five Years**

- 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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