

Invitation

On behalf of the Organizing Committee, we are pleased to invite you to attend the Fourth GeoChina International Conference 2016 to be held in Shandong, China from July 25 to 27, 2016. This Sustainable Civil Infrastructures using Innovative Technologies and Material is endorsed by a number of leading international professional organizations.

This conference will provide a showcase for recent developments and advancements in design, construction, and safety Inspections of transportation Infrastructures and offer a forum to discuss and debate future directions for the 21st century. Conference topics cover a broad array of contemporary issues for professionals involved in bridge, pavement, geotechnical, tunnel, railway, and emerging techniques for safety Inspections. You will have the opportunity to meet colleagues from all over the world for technical, scientific, and commercial discussions.

Shandong, with a history of more than 5,000 years, is considered one of the birthplaces of Chinese civilization. It is being developed into a modern international economic, financial, and trade center. Recent rapid construction in China has provided great opportunities for bridge, pavement, geotechnical, and tunnel engineers to use their knowledge and talents to solve many challenging problems involving highway bridge structures, pavements, materials, ground improvement, slopes, excavations, and tunnels with innovative solutions and cutting-edge technologies.

Local Organizing Committee

Prof. Zhanyong Yao, Shandong University, Chair
Prof. Zhi Ge, Shandong University, Co-Chair

Important Dates

Jan 15, 2015, Open for Abstract submission
April 15, 2015, Deadline for Abstract submission
May 30, 2015, Notify authors of accepted abstracts
September 30, 2015, Deadline for full paper submission
November 20, 2015, Notify authors of accepted paper
February 20, 2016, Final camera-ready papers
July 25-27, 2016-Conference

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Transportation Research Board (TRB), USA
University of Oklahoma, College of Engineering, USA

Conference Web Site

[Http://geoCHINA2016.geoconf.org](http://geoCHINA2016.geoconf.org)

The Official Language for the Conference is

English



Second Announcement

4th GeoChina International Conference
Sustainable Civil Infrastructures:
Innovative Technologies for Severe
Weathers and Climate Changes

July 25-27, 2016 • Shandong, China

Hosted by: Shandong University in
Cooperation with Shandong Department of
Transportation, Shandong High Speed
Group, National Science Foundation
(China), GeoChina Civil Infrastructure
Association, and University of Oklahoma

Secretary Generals

Dr. Zhanyong Yao
Shandong University

Dr. Dar Hao Chen
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Conference Themes

I: Transportation Geotechnical Engineering

- Non-Destructive Characterization of Geomaterials
- In-situ Test Methods for Site Characterization, Design and Quality Control of Earth Structures and Subgrades
- Soils and Rock Instrumentation, Behavior and Modeling
- Advances in Unsaturated Soil, Seepage, and Environmental Geotechnics
- Soil Behavior and Laboratory Testing
- Foundation Failure and Repair
- Earth Retaining Walls and Slope Stability
- Bridge Approach Embankment
- Geosynthetic Reinforced Soil Retaining Structure
- Engineering Issues in Ground Subsidence
- Dynamic Behavior of Soils and Foundations
- Physical, Numerical, Constitutive Modeling of Soil Behavior
- Innovative and Sustainable Geomaterials and Geosystems
- Transportation Issues in Developing Countries

II: Pavement Engineering

- Airfield pavement analysis, rehabilitation and performance
- Recycled Asphalt Pavement
- Pavement Design, Modeling, Performance Evaluation, & Management
- Sustainable Long Life Pavement
- Ground Improvement, and Chemical / Mechanical Stabilization for Pavement and Geotechnical Applications
- Moisture Damage in Asphaltic Concrete Materials
- Geotechnical Properties and Their Effects on Portland Concrete Pavement Behavior and Performance
- Warm Mix
- Rehabilitation strategy selection and preventative maintenance treatments
- Accelerated Testing of Pavement Structures and Materials
- Material, Design, Construction, Maintenance and Testing of Pavement
- Asphalt Binder and Mixture Characterization
- Construction and Rehabilitation of Jointed Concrete Pavement, Reinforced Concrete Pavement, and Continuously Reinforced Concrete Pavement
- Bridges Deck Pavement
- Stabilization, Recycling, Foamed Bitumen and Emulsion, Granular Materials
- Roadway Widening
- NanoTechnology & Its Application to Civil Infrastructure
- Asphalt Mix-Design, HMA Testing, & Material Property Characterization

Accepted papers will be published on ASCE GSP Series (EI Indexed).

Selected papers from the conference may be considered for publications in the special issues of (1) Journal of Performance of Constructed Facilities, ASCE (SCI Indexed) (2) Journal of Testing and Evaluation, ASTM (SCI Indexed), (3) International Journal of Geomechanics, ASCE (SCI Indexed) (4) Geomatics, Natural Hazards and Risk (GNHR) (SCI Indexed) (5) International Journal of Pavement Research and Technology (IJPRT) (EI Indexed), subjected to a full peer review process as set forth by the Editors of ASTM International, ASCE, GNHR, and IJPRT.

III: Bridge Engineering

- Non-Destructive Evaluation, Inspection Technologies, Structural Health Monitoring, Remote Monitoring of Structures, Scour Assessment
- Seismic Design Issues for Bridges, and Underground Structures
- Design Methods and Materials, Innovative Repair Methods and Materials, Durable and Sustainable Designs, Innovative Materials, Advances in Foundation Design/Construction, Accelerated and/or Performance Based Design/Construction, Aesthetics and Environment
- State-of-the-Arts and State-of-the-Practices on Bridge Design, Construction and Maintenance.
- Special Foundation Treatment and Settlement Control Technology

IV: Tunneling Engineering

- Tunnel Management and Inventory, Monitoring and Settlement Control
- Emerging Technologies, Lining Design & Precast Segment Advances
- Innovation in Tunneling Design, Construction, Repair, Rehabilitation
- Fire & Life Safety, Vulnerability & Security
- Tunneling in Soft Ground, Ground Conditioning and Modification
- Advanced prediction technology of tunnel construction geology
- Deep excavations and urban tunnelling

V: Railroad Engineering

- Railway Track Substructure
- High Speed Rail System
- Seismic Design for Railway Structures
- Economics of Railway Engineering and Operations
- Structures, Maintenance and Construction

VI: Dam, Geomatics, Geoscience, Geophysics, and Hazards

- Dam Engineering, Geo-Sciences, Geomatics, Geophysics, and Gravity
- Geophysical Testing in Civil and Geological Engineering in Transportation Geotechnical Engineering.
- Natural Hazard and Disaster Monitoring in Transportation Geotechnical Engineering.
- Seismically Induced Hazards and Mitigation in Transportation Geotechnical Engineering.
- Extreme-Hazard Resilient Structures - Risk/Reliability Assessments, Emergency Management Practices, Multi-hazard Design, Enhanced Post-Earthquake Serviceability, Scour Assessment and Restoration, Quality Control/Quality Assurance in Bridge Engineering.
- Geological Disaster Control Technology.

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