2015 International Highway Technology Summit

Cities·Transportation and People

April 21-23, 2015

Shanghai, China

Host

China Highway & Transportation Society (CHTS), founded in 1921, is the earliest society of science and technology in highway & transportation area. It is a national non-profit academic and social organization with membership composed of individuals and institutions in the profession, under the guidance of the Ministry of Transport of China.

Co-Sponsors

Technical Support

2015 International Highway Technology Summit

Invitation

In May 2002, the China Highway & Transportation Society (CHTS) sponsored the "First China National Highway Technology Summit" in Beijing, China. It has been held every two years since then. By 2013, the six summits have attracted a total of more than 10,700 participants and 790 corporate exhibitors. In 2013, the Summit evolved into an international event, thus was named 2013 International Highway Technology Summit (IHTS). The 2013 IHTS was attended by 1,100 attendees from China and more than 70 from other countries.

The 2015 IHTS is a comprehensive transportation event that aims to bring together administrators, researchers, and practitioners. The summit will cover a wide range of topics, with details provided as below, from the perspectives such as best practices, case studies, researches, knowledge and experience, methodologies, and toolkits.

1. Policy and Planning

1.1 Road policies and economic studies under recent trend of transportation demand;
1.2 Evolution of roles of road authorities in the new transportation age;
1.3 Internal and/or external organizational changes needed to support closer multi-modal integration in planning and delivery;
1.4 Use of performance data to support decision-making at different levels;
1.5 Factors and tools for strategic planning.

2. Pavement & Materials

2.1 Pavement design, construction, evaluation, and performance;
2.2 Pavement preservation and maintenance & rehabilitation techniques;
2.3 Pavement materials such as warm mix asphalt, and recycled concrete aggregate;
2.4 Bridge deck pavement;
2.5 Design and construction of concrete overlays;
2.6 Recycling and reuse of road pavement materials;
2.7 Advances in flexible or rigid pavement design.

3. Highway Infrastructure Design and Construction

3.1 Geometric design of roads;
3.2 Innovative and situational bridge and culvert design;
3.3 Retaining wall and foundation drainage;
3.4 Accelerated bridge construction;
3.5 New repair and rehabilitation methods for bridge;
3.6 Assessment of load carrying capacity of bridges based on damage and deficiency;
3.7 Road, bridge and tunnel design and operation in relationship with other infrastructure.

4. Urban Transport & ITS

4.1 Urban transportation policy and infrastructure;
4.2 Inter-modal connectivity;
4.3 Drivers' behavior, pedestrians and cyclists;
4.4 ITS architectures oriented to services for road network operations and mobility improvement;
4.5 System architecture, integration of services (network monitoring and maintenance, emergency management, traffic management);
4.6 Congestion management strategies and mechanism.

5. Sustainable Transport

5.1 Sustainable highway infrastructure: design and operation;
5.2 Impact of transportation development on the environment;
5.3 Environment management systems and sustainability ranking tools;
5.4 Energy harvesting technologies;
5.5 Self-healing materials for highway infrastructure;
5.6 Optimal use of local materials;
5.7 Impact of climate change on highway infrastructure.

6. Safety, Operation and Maintenance

6.1 Engineering of roads for safety;
6.2 Road safety programs;
6.3 Technologies for preventative maintenance;
6.4 Rapid maintenance technologies for high-volume highways;
6.5 Road condition monitoring and quality control;
6.6 R&D, and application of maintenance machinery and equipment.

7. Financing & Management

7.1 New development in funding & financing strategies and mechanisms, such as public-private partnership (PPP);
7.2 Performance measures and delivery;
7.3 Management of highway infrastructure, especially expressway infrastructure (all tolled in China);
7.4 Application of risk management as part of the asset management framework;
7.5 Emergency management and resilience;
7.6 Data needs and analysis for improved management of road infrastructure;
7.7 Management systems for large and medium maintenance projects.

Dec. 25, 2014	**Deadline for submission of abstracts**
Jan.7, 2015	**Acceptance notification of abstracts**
Feb.7, 2015	**Deadline for full papers**
Feb.21, 2015	**Acceptance notification of full papers**
April 21-23, 2015	**2015IHTS**

Submission:

--- Language: English
--- Maximum of 400 words for the abstract
--- Submission through the website: http://gclt.chinahighway.com or via email: ouou_meng@hotmail.com
--- Submission of abstract no later than December 30, 2014

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