

**PIARC International Seminar on Disaster Prevention and Mitigation  
Technologies and Inputs from ITS in Network Operations**  
(Joint seminar of CCCC and PIARC TC1.5 TC2.1, 12-13/11/2014)

**Seminar**

PIARC International Seminar on Disaster Prevention and Mitigation Technologies and Inputs from ITS in Network Operations

**Sponsors**

The World Road Association (PIARC)  
CCCC First Highway consultants co.,LTD (CCCC)

**Organizers**

The World Road Association (PIARC) TC1.5 TC2.1  
National Center of ITS Engineering & Technology, China  
National Engineering Laboratory for Surface Transportation Weather Impacts Prevention (NELSTWIP)  
Key Laboratory of Shaanxi Provincial Highway Traffic Disaster Prevention and Mitigation

**Seminar Venue**

Shaanxi Hotel in the city of Xi'an, China.

**Topic**

1. Disaster Prevention and Mitigation Technologies
2. Inputs from ITS in Network Operations

**Delegates involved**

1. Officials from MOT of China
2. PIARC TC1.5 and TC2.1 members
3. Speakers on thematic speech
4. Delegates from CCCC First Highway consultants co.,LTD

It is expected that there will be 150 participants: 50 international delegates and 100 Chinese delegates (100 from administration and 50 from technical corporations)

**Officials at the Seminar**

Leaders of Road Bureau of MOT, CCCC First Highway consultants co.,LTD will attend the seminar.

**Introduction**

The PIARC international seminar on 'Disaster Prevention and Mitigation Technologies and Inputs from ITS in Network Operations' will be hosted by The World Road Association-PIARC and CCCC First Highway consultants co.,LTD. The seminar will be held in Xi'an during 13 and 14/11/2014.

This seminar is part of the PIARC Program of International Seminars. It will make the results of PIARC's work more widely known in Asia and meet the increasing demand of highway disaster prevention and mitigation risk management and ITS application in network operations in China.

It will bring together representatives of governments and related organizations as well as industry experts and researchers from many countries to share knowledge and expertise, to exchange ideas and experiences, to transfer information and technology and to study a wide range of issues particularly related to disaster prevention and mitigation technologies and inputs from ITS in network operations.

The seminar will be organized jointly with the PIARC Technical Committee TC1.5 "Risk Management", TC2.1 "Road Network Operations" and the CCCC First Highway consultants co.,LTD. Key Laboratory of Highway Construction in Permafrost Regions and Maintenance Technology, Key Laboratory of Mountain Hazards and Earth Surface Processes and Shaanxi Provincial Highway Institute will also be involved.

### **Preliminary Program**

The seminar tentatively sets 3 major themes, a total of 11 specific topics, and each topic contains 3-4 presentations and discussion period. Time allocated to each presentation is 20-30 minutes. There will be a discussion period of 30 minutes for each session.

#### **Theme 1: Risk management for roads and traffic operations under natural and man-made hazards**

1. Formation mechanism and impact of typical meteorological disasters (fog, icing, blizzard, sandstorm) on roads and traffic operations;
2. Theory and methodology of risk management for roads and traffic operations;
3. Monitoring and pre-warning on large scale hazards for roads and traffic operations;
4. Practices and case studies of risk management for roads and traffic operations

#### **Theme 2: Emergency management for roads and traffic operations under natural and man-made hazards**

1. Theory and methodology of emergency management for roads and traffic operations;
2. Practices and case studies of emergency management for roads and traffic operations;
3. ITS application in roads and traffic operations for emergency management;

#### **Theme 3: Inputs from ITS in Network Operations**

1. Highway network operation monitoring technology;
2. ITS frame structure;
3. Development and applications of dynamic transportation information sensing system;
4. Application of information technology in full life cycle project management and asset management operations

### **Objective of Seminar**

The main objective of the seminar is to provide a platform for participants to exchange ideas on risk management of road hazard, hazard prevention and mitigation and application of ITS technology. Special attention will be devoted to the establishment and implementation of risk management for emergency situations and to popularization of ITS in road network operations. All the participants will share approaches that have been using to identify, evaluate and treat

hazard risk and regarding the methodology of ITS applications. An objective of the seminar is also to mitigate hazard risk, improve risk management level, enhance the application process of ITS.

### **Languages**

Official language of the seminar will be English, Simultaneous interpretation will be provided in Chinese.

### **Technical Visit:**

Technical visit to Qinling Zhongnanshan tunnel operator monitoring system

### **Visa Application:**

The host country will issue an invitation letter

1. CCCC will provide the invitation letter.
2. Delegates from foreign governments can submit application for official invitation letter to CCCC, and MOT will deal with the application.

### **Registration fee**

International participants: 300 EUR.

*PIARC TC members are exempted from registration fee.*

Participants from lower income countries: 150 EUR.

Participants who are individual or collective members of PIARC: 240 EUR

Chinese participants: RMB1500

A light working meal is provided at the seminar venue

Accommodation is not included.

### **Seminar Contact persons**

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