TOPICS TO BE COVERED

- Risk Analysis
- Ventilation and Lighting
- Emergency management
- Adaptation to regulations
- Resilience in road tunnels
- Management of urban and high traffic road tunnels
- ITS systems and their contribution to improved operations
- New vehicle propulsion energies and their impact on tunnels

ORGANIZE BY:

SUPPORTED BY:

IN COLLABORATE WITH:
Following the success of the 1st PIARC International Tunnels Conference held in Lyon, France, in October 2018, PIARC joins ATC to organise the 2nd PIARC International Conference and the 8th National Tunnels Symposium in October 2022 in Granada, Spain, which will bring together PIARC’s international knowledge and experience exchange with the traditional and large national event organised by the ATC every four years, with the expectation to gather around 1,000 road tunnel professionals from all over the world to generate a global debate on road tunnels.

PIARC is an apolitical and not-for-profit association, leading worldwide the knowledge exchange and the sharing of experiences in the field of roads and road transport. The work programs of the Association are organized in four-year cycles which corresponds to the periods between World Road Congresses. In addition to these, a Road Winter World Congress is organized in between.

The PIARC bodies developing the technical work to achieve the objectives are the Technical Committees. One of the most active being the one corresponding to Road Tunnel Operations, previously called Road Tunnels, which since 1995 has published 48 documents in addition to the Online Tunnels Manual and numerous articles in the Routes/Roads magazine.

For this reason, in October 2018, the initiative was taken to hold an International Conference on Tunnel Operation and Safety in Lyon, France, which was a great success in terms of the number of participants and quality of the technical exchanges.

In the face of the new challenges of climate change, sustainable economy, and with the challenge of COVID-19 it makes sense to talk about resilient infrastructure. This concept is equally applicable to tunnels, which must have high availability rates with an acceptable level of safety, even under circumstances involving major disruptions to normal operation, and must allow the definition of mitigation measures to reduce the impact after their implementation. This aspect will also involve a new definition of design and management standards through the integration of the concept of resilience into the whole life cycle.

On the other hand, the transport sector is undergoing a technological revolution with the challenges of the digital transformation. New phenomena such as the development of autonomous vehicles, shared vehicles, digital mobility platforms or electrification and new vehicle propulsion energies are now realities which have to be considered by their direct impact on the way in which tunnels are managed and operated. ITS systems and their ongoing development also have a lot to say about all these issues.

Other important issues are the management of large urban tunnels as well as, in general, the ventilation and lighting of the tunnels and their constant progress.

As a result, this 2nd International Conference has been organised, coinciding with the VIII Spanish National Tunnels Symposium.

This conference will allow a closer look at the state of the art of all these novel subjects and to provide a forum for feedback and exchange of ideas. This will allow the continued investigation of new tunnel projects in the face of the challenges that are evolving today, and that will be common in our future infrastructure.

**CALL FOR PAPERS**

Those interested in presenting on the matters listed on the agenda should send an abstract to the Conference Secretariat before 18 July 2021. This abstract must have a maximum length of 300 words typed on a single sheet of A4 format (210x297) written on one side. The official languages will be English, French and Spanish and abstracts can be written in any of them. The following information must be included:

- Title of the communication
- Author’s name
- Company or organization
- Address, Telephone, Fax and / or e-mail

The Technical Committee of the Symposium will study the abstracts received in the Secretariat of the same, will decide on its acceptance and will communicate its decision to the authors before the 5th October 2021, together with the pertinent instructions for the submission of the full papers.

The full papers must be received at the Symposium Secretariat before the 20th May 2022 at the email address: tunnels_spain_2022@atc-piarc.com

**DATES**

- **1 March 2021**
  Call for papers
- **18 July 2021**
  Limit for abstracts submission
- **5 October 2021**
  Acceptance of communications
- **22 May 2022**
  Deadline for reception of communications
- **20 June 2022**
  Acceptance of communications
- **22 August 2022**
  Final program
EXHIBITION
An exhibition of equipment and services related to the conference topics will be organized. To get information, those interested can contact the Secretariat.

ACCOMMODATION
Newsletter N°. 2, which will be distributed on 20 May 2021, will include detailed information regarding accommodation options.

PROGRAM FOR ACCOMPANYING PERSONS AND SOCIAL EVENTS
It is planned to organize a program of activities for persons accompanying the delegates. The details will be announced in due course.

CONFERENCE PROCEEDINGS
All participants will be given documentation that will include all the papers and presentations delivered in this conference.

TECHNICAL TOURS
A technical visit to the Calle 30 tunnels in Madrid or to the A-7 tunnels between Almeria and Malaga is foreseen, for which you should indicate your choice at the time of registration on the Conference website.

PLACES AND DATES
The Conference will be held at the Palacio de Congresos in the city of Granada (Spain) in October 2022.

ORGANIZATION
The Conference is organized by the Technical Committee 4.4 “Tunnels” (AIPCR / PIARC) and the Tunnels Committee of the Road Technical Association, the Spanish National Committee of the World Road Association.

CONFERENCE SECRETARIAT
The address of the conference secretariat is as follows:

Asociación Técnica de Carreteras
C/ Monte Esquinza, 24, 4º dcha
28010 Madrid (Spain)
Tel.: (0034) 91 308 23 18
Fax: (0034) 91 308 23 19
For technical presentations: tunnels_spain_2022@atc-piarcom