



PIARC International Conference on: **Sustainable roads and eco-** **infrastructures: new challenges**

Virtual, 18th – 19th MAY 2021

SECOND ANNOUNCEMENT

Organized in cooperation with:

- World Road Association (PIARC)
- Polish Road Congress (PKD) – Polish National Committee of PIARC
- General Directorate for National Roads and Motorways
- Department of Roads and Bridges of the Lublin University of Technology

PIARC Programme of International Seminars and Conferences

PIARC's mission is to disseminate and exchange knowledge in the area of road infrastructure and road transport. This is done through the World Road Congresses, the World Winter Service and Road Resilience Congresses, the international seminars held in low and middle income countries, and also through international conferences and through the discussions in Technical Committees.

Technical Committee 3.4: "Environmental Sustainability in Road Infrastructure and Transport"

Technical Committee identifies traffic operations to minimize the health impact of vehicle emissions, and improve pavement design, construction, and maintenance to reduce traffic noise. Also, understanding the road infrastructure and transport impact on wildlife habitats and their interconnections is essential for the road construction to be implemented in natural environment areas. Technical Committee carefully considers environmental sustainability, and diligently presents how road organizations commit to restraining air pollution and traffic noise, and the impact on wildlife habitats.

Issues:

3.4.1 Real-time evaluation of pollution and mitigation measures

3.4.2 Noise mitigation

3.4.3 Road infrastructure and road transport impact on wildlife habitats and their interconnections

Conference objectives and topics

The aim of this event is to facilitate an open and constructive dialogue between researchers and practitioners based on research and practical experience, which fosters a better understanding of the sustainability of roads and ecoinfrastructures in the context of energy transition and climate change.

Researchers and practitioners from all countries, especially PIARC member countries, are expected to attend the conference and to contribute in the domain of the following sub-topics:

- Impact of roads and traffic on the environment
- Methods and devices protecting human and natural environment
- The impact of climate change on roads resilience and sustainability
- New technologies, materials, trends
- COVID-19 impact on human and natural environment

Who should attend?

The “PIARC International conference on Sustainable roads and eco-infrastructures: new challenges” is intended for government agencies’ officials or private operators and managers responsible for the road network, for technical staff involved in designing, programming, executing, and overseeing road works, for university professors, researchers and engineering students interested in further exploring the topic of sustainable roads and eco-infrastructures.

Virtual Seminar and Dates

Although the city of Lublin, Poland, was selected as the seminar location, it has been decided that the seminar will take place in a virtual format due to the COVID-19 crisis. The seminar will take place from 18th to 19th of May 2021.

Format and Languages

The seminar will consist of various thematic sessions where the topics included in the programme (see next paragraph) will be addressed. These sessions have been planned for the two days of the seminar. Each session will include several presentations by members of the Technical Committee TC3.4 as well as by the Polish experts and experts from the other countries around the world.

Languages of the seminar will be **English and Polish with simultaneous translation available**.

Event Programme

Time of the seminar is scheduled as follows: Paris/Warsaw 10 am-3:45pm (1am to 6am Seattle, 3am to 8 am Mexico, 5am to 10am Buenos Aires, 1h30pm to 6h30pm New Delhi, 5pm to 10pm Tokyo)

Day 1 - May 18th (Tuesday)

10:00 Inaugural Session 1

- Opening remarks – **Zbigniew Kotlarek**, President of the Polish Road Congress, **Claude Van Rooten**, PIARC President, **Tomasz Żuchowski** GDDKiA, First Delegate of PIARC in Poland, **Zbigniew Pater**, Rector of Lublin University of Technology, 20’
- **Eric Dimnet** – The work of PIARC’s technical committee “Environmental Sustainability in Road Infrastructure and Transport” during the cycle 2020-2023 TC 3.4 Chair, 20’
- Development of an environmentally friendly road network – Polish Road Administration GDDKiA- tbc, 20’
- Trans-European Transport Network –**Mirosław Czech**, Director of GDDKiA branch in Lublin, 15’

Q&A 15’

11:30-11:45 break

11:45 Session 2 - Impact of roads and traffic on the environment

1. Fauna passages, **Elke Hahn**, Austria TC 3.4 PIARC 15'
2. Fauna passages, **Janusz Bohatkiewicz** or GDDKiA (Polish Road Administration) 15'
3. Fauna passages, Poland, Piotr Tomala, ViaCon 15'
4. Archeological research - roads S17 and S19, **Marta Kowalska**, GDDKiA Lublin, 15'
5. A new footbridge in Ludowy Park in Lublin, one of the most impressive built so far – dr inż. **Sławomir Karaś**, Department of Road and Bridges of the Lublin University of Technology, 15'

Q&A 30'

13:45-14:00 break

14:00 Session 3 - Methods and devices protecting human and natural environment

1. Acoustic durability of noise-reducing asphalt surfaces, **Stefan Pölzlbauer**, Austria, TC 3.4 PIARC, 15'
2. Optimazation of noise protection methods - the national road nr 94, **Maciej Hałucha**, **Janusz Bohatkiewicz**, Lublin University of Technology, 15'
3. Analysis of the impact of noise barriers on real estate values, **Jean Dubé**, Canada, TC 3.4 PIARC, 15'
4. Noise, partner's presentation, **Budimex**, 15'
5. Noise impacts evaluation on fauna near motorways: the evaluation biases in verges, **Eric Guinard**, France TC 3.4, 15'

Q&A 30'

15:45 End of Day 1

Day 2 - May 19th (Wednesday)

10:00 Session 4 - The impact of climate change on road resilience and sustainability

1. Energy, climate and sustainability of road transport – **Eric Dimnet**, TC 3.4 PIARC, 15'
2. Climate change impact on national roads in Poland, GDDKiA – JASPERS project, 15'
3. Rainfall as the damaging atmospheric phenomenon, **Professor Paweł Licznar**, PANDA, 15'
4. Concrete – a durable material, SPC, 15' tbc
5. Asphalt road surfaces, **Krzysztof Błażejowski**, ORLEN Asphalt tbc

Q&A 20'

11:35-11:45 break

11:45 Session 5 - New technologies, materials, trends

1. Recycling literature review in PIARC, **Emanuele Toraldo**, Italy, TECHNICAL COMMITTEE 4.1 Pavements, 15'

2. Pavement optimisation using biaxial geogrids as a way to reduce a project's carbon footprint, Piotr Mazurowski, Pavement Optimisation Systems Manager, Tensar15'
3. New technologies, **Nicola Ciont**, Romania, TC 3.4, 15', tbc
4. Road construction additives, **Professor Wojciech Franus**, Lublin University of Technology, 15'
5. Noise Diffraction - an innovative way for reducing traffic noise, Bart Willems, 4SilenceBV, Holland, 15'
6. ELANORE Project, **Grzegorz Ronowski**, 15'

Q&A 20'

13:35-13:45 break

13:45 Session 6 - COVID-19 impact on human and natural environment

1. PIARC response team report, **Patrick Mallejacq**, PIARC Secretary General, 15'
2. The impact on road traffic and communication in cities, **Andrzej Szarata**, 15'
3. Road accidents in Poland during the COVID-19 pandemic, **Mirosław Bajor**, 15', tbc
4. COVID-19 – the impact on environment, PIARC, 15', tbc
5. The measurements of national road traffic in Poland during the pandemic, GDDKiA, 15'

Q&A '20

15:20-15:30 closing remarks

Registration

To participate in the conference, it is required to complete an online registration form and pay the participation fee to the Polish Road Congress' bank account no later than May 14th, 2021.

An individual link to the broadcast will be sent to the e-mail address provided in the application on the day preceding the event.

The participation fee is 80 Euros.

The price covers participation of one person in the on-line event, access to materials related to the event and an electronic certificate confirming participation in the Forum.

TC 3.4 members are registered free of charge, please contact biuro@kongresdrogowy.pl

Registration link:

<https://en.kongresdrogowy.pl/konferencja/117-international-conference-on-line-sustainable-roads-and-eco-infrastructures-new-challenges>