

5<sup>th</sup> World Congress and Exhibition on

# CONSTRUCTION AND STEEL STRUCTURE

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World Congress on

# CONCRETE STRUCTURES & CONCRETE TECHNOLOGY

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### **Concrete extradosed and cable-stayed bridges recently built in Poland**

The road and railway infrastructure in Poland has been intensively developed and modernized over the last years. Within this investment program, several interesting large bridges were built. This paper will present the following structures:

- Two large prestressed concrete extradosed bridges – the bridge over the Vistula River in Kwidzyn with 204 long main spans and the bridge in Ostróda with spans of 206m – these are the largest extradosed bridges built in Europe.
- The Rędzński Bridge over the Odra River in Wrocław: 612m long concrete structure with two main spans of 256 m, two separate prestressed concrete decks are suspended to a single 122m high H-shaped pylon – the largest concrete cable-stayed bridge in Poland.
- Two cable-stayed bridges in Cracow and Rzeszów with spans longer than 200m.

The paper will describe construction technology, aesthetics and design solutions of the aforementioned bridges.

### **Biography**

Jan Biliszczyk is a Professor at Wrocław University of Science and Technology, Poland. He is Consultant of the General Directorate for National Roads and Motorways (GDDKiA) in the field of large bridge projects. He received PhD degree in 1978 and since 1972 he has been working at Wrocław University of Science and Technology, Department of Civil Engineering. He has authored or co-authored of over 320 publications (more than 50 published in English) and several textbooks. Also has authority in the field of landmark footbridge, large span arch and cable-stayed bridge design. His major projects include: (2002) The Siekierkowski Bridge over the Vistula River in Warsaw (Poland)–steel-concrete cable-stayed bridge with a span of 250m. Scientific advisor and consultant designer. (2005) The Solidarity Bridge over the Vistula River in Płock (Poland) –steel cable-stayed bridge with the longest span in Poland (375m). Scientific advisor and consultant designer. (2011) The Rędzński Bridge over the Odra River in Wrocław (Poland)–concrete cable-stayed bridge with two spans of 256 m. This bridge was nominated to the 2014 FIB Awards for Outstanding Concrete Structures.

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### **Notes:**