



University of Pécs Faculty of Engineering and Information Technology

MIK PARTNERS' DAYS

/Preliminary programme for special sessions/

17.10.2019 - Thursday

9.00 – 10.00: **REGISTRATION**

10.00 – 12.00: **OFFICIAL OPENING & PLENARY SESSION**

10.00 – 11.00: *Welcome speeches by the leaders of the university (rector, dean)*
Speech by the Hungarian Ministry of Technology and Innovation
Awards

11.00 – 11.20: *Speech by **Erik Slooten (IT Services Hungary)***

11.20 – 11.40: *Civil Engineers for sustainable and resilient future – research and education*
(in Hungarian with English translation)

Dr. Zoltán Orbán, University of Pécs, Institute of Engineering and Smart Technology

11.40 – 12.00: *Creation of energy-efficient home – Hungarian Nest**
(in Hungarian with English translation)

Dr. Tamás Kondor, University of Pécs, Faculty of Engineering and Information Technology

12.00 – 13.00: Buffet lunch

1st session: STRUCTURES AND SUSTAINABILITY

Chairman: Dr. Zoltán Orbán

13.00 – 13.25: *Doing more with less: optimization-driven conceptual design of structures*

Prof. Matthew Gilbert, University of Sheffield, UK

13.25 – 13.50: *Safety of Reinforced Concrete Bridges dating back to the '50s and '60s: case studies, degradation, maintenance and future strategies*

Dr. Antonio Brencich, University of Genoa, Italy

13.50 – 14.15: *Innovative solutions for the preservation of heritage masonry structures*

Dr. Jose Martín-Caro, INES Ingenieros Consultores, Spain

14.15 – 14.35: *Analysis and retrofitting existing structures to improve seismic resistance*

Prof. Ivica Guljas, University of Osijek, Croatia

14.35 – 14.45: *Discussions*

14.45 – 15.00: *Coffee Break*

2nd session: UIC WORKSHOP ON MASONRY ARCH BRIDGES

Chairmen: Dr. Zoltán Orbán, Harald Sattler

- **15.00-15.10**
Welcome & introduction of invited speakers – H. Sattler (UIC)
- **15.10-15.20**
General information on the UIC Masonry Arch Bridges project – Z. Orbán
- **15.20-15.50**
Structural behaviour - W. Harvey
- **15.50-16.30**
Deterioration, inspection, monitoring - J. Martin-Caro, Z. Orban

16.30-16.45: Coffee break

- **16.45-18.00**
Assessment - W. Harvey, M. Gilbert, A. Brencich

18.30: Social Dinner

18.10.2019 - Friday

3rd session: UIC WORKSHOP ON MASONRY ARCH BRIDGES

Chairmen: Dr. Zoltán Orbán, Harald Sattler

- **08.30-10.30**
Serviceability, permissible load, life expectancy - M. Gilbert, J. Martin-Caro, A. Tomor

10.30-11.00 Coffee break

- **11.00-12.20**
Repair, strengthening, extension of service life - J. Martin-Caro, A. Brencich
- **12.20-13.00**
Further research for sustainability, discussions

13.00 – 14.00: Buffet lunch

The Workshop on Masonry Arch Bridges is organised in collaboration between the University of Pécs and the UIC International Union of Railways (www.uic.org)