

# XV International Symposium on Human-Induced Vibrations and Seismic Influences on Structures

29-30 November 2018, Krakow, Poland

<b>Scientific Programme<sup>1</sup></b>		
<b>Thursday (29 November 2018)</b>		
<b>09:00-10:00</b>	<b>REGISTRATION</b> <i>CUT Warszawska 24, 3<sup>rd</sup> floor, 311 room</i>	
<b>10:00-11:30</b>	<b>OPENING CEREMONY</b> <b>KEYNOTE LECTURE</b> STRUCTURAL CONCRETE from the past to the future <i>Prof. Maria Anna Polak, University of Waterloo</i> <i>CUT Warszawska 24, 2<sup>nd</sup> floor, Senate Hall (Sala Senacka)</i>	
<b>11:30-12:00</b>	<b>COFFEE BREAK</b> <i>CUT Warszawska 24, 3<sup>rd</sup> floor, 311 room</i>	
<b>12:00-14:00</b>	<b>SESSION 1 Chairs: Prof. J. Dulińska, Prof. M. Polak</b> <i>CUT Warszawska 24, 2<sup>nd</sup> floor, Senate Hall (Sala Senacka)</i>	
	11:00-11:20	Proposition of stiffness reduction in analysis of clay brick masonry under cyclic/seismic loads <i>Jan Kubica</i>
	11:20-11:40	Numerical analysis of monitoring of plastic hinge formation in frames under seismic excitations <i>Lukasz Huras, Piotr Bońkowski, Marek Nalepka, Seweryn Kokot, Zbigniew Zembaty</i>
	11:40-12:00	Some possibilities of modeling of moving load on concrete pavements <i>Veronika Valašková, Jozef Melcer</i>
	12:00-12:20	Human-induced vibration serviceability of arch pre-stressed concrete truss system <i>Xuhong ZHOU, Qingshan YANG, Jiang LI, Xiaoxue MA</i>
	12:20-12:40	Influence of crest factor on evaluation of human perception of traffic vibration <i>Alicja Kowalska-Koczwara, Krzysztof Stypula</i>
	12:40-13:00	Comparison of approximate assessments of the harmfulness of mining shocks using free-field and building foundation vibrations <i>Krystyna Kuźniar, Krystyna Stec, Tadeusz Tatara</i>
<b>14:00-15:00</b>	<b>LUNCH</b> <i>GIL Gallery CUT, Warszawska 24</i>	
<b>15:00-17:00</b>	<b>SESSION 2 Chairs: Prof. Natalino Gattesco, Prof. Zbigniew Zembaty</b> <i>CUT Warszawska 24, 2<sup>nd</sup> floor, Senate Hall (Sala Senacka)</i>	
	15:00-15:20	Experimental study of the effect of vertical acceleration component on the slope stability <i>Aleksandra Korzec, Robert Jankowski</i>
	15:20-15:40	Dynamic analysis of soil-structure interaction effects on NPP building using simplified and solid FE model of layered subsoil <i>Juraj Králik, Juraj Králik, jr.</i>
	15:40-16:00	Analysis of vibration propagation in the human body <i>Rafał Burdzik</i>
	16:00-16:20	Traffic seismicity effect on monumental buildings - Results of Case Studies <i>Veronika Valašková, Daniel Papán, Zuzana Papánová</i>
	16:20-16:40	Comparison of methods for assessing the influence of mining shocks on masonry residential buildings <i>Filip Pachla, Tadeusz Tatara</i>
16:40-17:00	Analysis of temporary steel grandstand with different bracing systems exposed to crowd load <i>Natalia Lasowicz, Tomasz Falborski, Robert Jankowski</i>	
<b>19:00</b>	<b>SYMPOSIUM BANQUET</b> <b>Galicyska Restaurant, Pijarska 9, 31-015 Cracow</b> <a href="http://restauracja-galicyska.pl/en/">http://restauracja-galicyska.pl/en/</a>	

<sup>1</sup> The XV International Symposium on Human-Induced Vibrations and Seismic Influences on Structures will be held at the Cracow University of Technology Warszawska 24 from November 29 to November 30. The conference proceedings will take place in the main building in the Senate Hall (Sala Senacka)

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<b>Friday (30 November 2018)</b>	
<b>08:30-09:30</b>	<b>PGISiP<sup>2</sup> meeting</b> <i>CUT Warszawska 24, 2<sup>nd</sup> floor, Senate Hall (Sala Senacka)</i>
<b>09:30-10:00</b>	<b>COFFEE BREAK</b> <i>CUT Warszawska 24, 3<sup>rd</sup> floor, 311 room</i>
<b>10:00-12:00</b>	<b>SESSION 3 Chairs: Prof. Krzysztof Stypula, Dr. Jiang Li</b> <i>CUT Warszawska 24, 2<sup>nd</sup> floor, Senate Hall (Sala Senacka)</i>
	10:00-10:20 Masonry vaults strengthened with a GFRP reinforced mortar coating: evaluation of the resisting peak ground acceleration <i>Natalino Gattesco, Ingrid Boem</i>
	10:20-10:40 Time History Analysis Formulation in SCAD FEA software <i>Sergiy Fialko, Viktor Karpilovskiy</i>
	10:40-11:00 Improved technique for the earthquake proof suspension building <i>Taliat Azizov, Nadzieja Jurkowska</i>
	11:00-11:20 Ambient vibration measurements of steel truss bridges <i>Michal Venglár, Milan Sokol, Rudolf Ároch</i>
	11:20-11:40 Assessing the dynamic response of a steel pipeline to a strong mining tremor using the multiple support response spectrum method <i>Pawel Boroń, Joanna Dulińska</i>
	11:40-12:00 Stress distribution in masonry infills connected with stiff and flexible interface <i>A. Tuğrul Akyıldız, Alicja Kowalska-Koczwara, Arkadiusz Kwiecień</i>
<b>12:00-13:00</b>	<b>LUNCH</b> <i>GIL Gallery CUT, Warszawska 24</i>
<b>13:00-14:40</b>	<b>SESSION 4 Chairs: Prof. Rafał Burdzik, Dr. Alicja Koczwara-Kowalska</b> <i>CUT Warszawska 24, 2<sup>nd</sup> floor, Senate Hall (Sala Senacka)</i>
	13:00-13:20 Acoustic analysis of building in seismic influence zone <i>Krzysztof Nering, Krzysztof Stypula</i>
	13:20-13:40 Potential interest of the Hashin failure theory for predicting the seismic damages in GFRP footbridges <i>Izabela Drygala, Joanna Dulińska, Marianna Polak</i>
	13:40-14:00 Application of CWT for identification of signal characteristics in the analysis of free field vibrations caused by trains <i>Barbara Kożuch, Tadeusz Tatara</i>
	14:00-14:20 <i>On the vibration based tests for the compactness evaluation of masonry</i> <i>Salvatore Russo</i>
14:20-14:40 Experimental dynamic analysis of traffic seismicity effect on historical building <i>Katarina Krkošková, Daniel Papán, Zuzana Papánová</i>	
<b>14:40-15:00</b>	<b>CLOSING CEREMONY</b> <i>CUT Warszawska 24, 2<sup>nd</sup> floor, Senate Hall (Sala Senacka)</i>

<sup>2</sup> The Polish Group of Seismic and Paraseismic Engineering