

## 5. DOCTORAL SYMPOSIUM IN CIVIL ENGINEERING

9 – 10 September 2019, Zagreb

Organizer: University of Zagreb Faculty of Civil Engineering

### SYMPOSIUM PROGRAM

#### DAY 1 - MONDAY, September 9, 2019, Hall 121

08.00 – 09.00	PARTICIPANT REGISTRATION
09.00 – 09.15	OPENING CEREMONY
<b>I Session</b> 09.15 – 10.50	Chairperson: prof. Ivana Banjad Pečur & prof. Vesna Dragčević
9.15 – 10.00	prof. Nenad Gucunski Knowledge creation about causes and processes of deterioration progression in concrete bridge decks through complementary use of NDE and SHM
10.00 – 10.25	Željko Stepan, prof. Vesna Dragčević Evaluation of the road infrastructure projects
10.25 – 10.50	Sandra Mihalinac, prof. Tatjana Rukavina, prof. Miroslav Šimun Grids application in asphalt pavement layers
Coffee break: 10.50 – 11.30	
<b>II Session</b> 11.30 – 12.45	Chairperson: prof. Mladen Vukomanović & prof. Ivica Završki
11.30 – 11.55	Ivona Ivić, prof. Anita Cerić A review of trust measurement models for construction projects
11.55 – 12.20	Mario Kralj, prof. Ivica Završki Construction of modern urban environments and the need for construction companies reengineering
12.20 – 12.45	M.Sc. Vladimir Križaić, prof. Ivica Završki Construction bid model standardization through dynamic structures programming method
Lunch break : 12.45 – 14.00	
<b>III Session</b> 14.00 – 16.00	Chairperson: prof. Bojan Milovanović & prof. Marijana Serdar
14.00 – 14.25	Sanjin Gumbarević, prof. Bojan Milovanović The impact of envelope airtightness on energy performance of buildings
14.25 – 14.50	Arta Sylejmani, prof. Bojan Milovanović Energy Efficiency of Buildings in Kosovo
14.50 – 15.15	Jelena Šantek Bajto, prof. Nina Štirmer Application possibilities of wood biomass ash in brick production
15.15 – 15.40	Matea Flegar, prof. Marijana Serdar, Diana Londono-Zuluaga, PhD, prof. Karen Scrivener Overview of clay as supplementary cementitious material
15.40 – 16.00	Antonino Runci, prof. Marijana Serdar, prof. John Provis Chloride-induced corrosion of steel embedded in AAMs: the current state of the art

Note for lecturers:

Time for presentation includes 5 minutes for questions and answers.

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#### DAY 2 – TUESDAY, September 10, 2019, Hall 121

<b>IV Session 09.00 – 10.40</b>	Chairperson: prof. <b>Maja Ahac</b> & prof. <b>Josipa Domitrović</b>
9.00 – 9.25	<b>Igor Majstorović</b> , prof. <b>Maja Ahac</b> Effect of the track geometry quality on tram transport system indicators
9.25 – 9.50	<b>Mate Ivančev</b> , prof. <b>Ivo Haladin</b> Impact of elastic rail fastening system on noise and vibration emissions
9.50 – 10.15	<b>Ivan Zovkić</b> , prof. <b>Stjepan Lakušić</b> Durability of reinforced-concrete track sleepers
10.15 – 10.40	<b>Zvonko Perčin</b> , prof. <b>Stjepan Lakušić</b> Possibility of application of concrete sleepers under sleeper pads on bridges
Coffee break: 10.40 – 11.15	
<b>V Session 11.15 – 12.30</b>	Chairperson: prof. <b>Ivan Halkijević</b> & prof. <b>Mario Bačić</b>
11.15 – 11.40	<b>Antonija Cikojević</b> , prof. <b>Gordon Gilja</b> Research approach for spatial and temporal development of deflected scour hole next to riprap scour protection
11.40 – 12.05	<b>Marko Mance</b> , <b>Mladen Cvetković</b> , prof. <b>Danijela Jurić Kačunić</b> Laboratory and field determination of hydraulic conductivity
12.05 – 12.30	<b>Alush Shala</b> , prof. <b>Jelena Bleiziffer</b> Analysis of existing reinforced concrete buildings and buildings with additional floors under seismic load
Lunch break: 12.30 – 13.30	
<b>VI Session 13.30 – 15.45</b>	Chairperson: prof. <b>Davor Skejić</b> & prof. <b>Ana Skender</b>
WORKSHOP: Presentation of additional education and training in 2018./2019.	
13.30 – 13.50	<b>Klaudija Bašić</b> Collaboration and training with the Deltares institute in the Netherlands
13.50 – 14.10	<b>Maja Baniček</b> Sharing experiences from the training course "Modelling Contact and Resolving Convergence Issues with Abaqus"
14.10 – 14.30	<b>Ivana Carević</b> Training at the École Polytechnique Fédérale de Lausanne doctoral school
14.30 – 14.45	prof. <b>Ivo Haladin</b> RUCONBAR presented at Silicon Valley International Invention Festival
14.45 – 15.05	prof. <b>Ivo Haladin</b> 12 <sup>th</sup> UIC Workshop on Railway Noise and Vibrations
15.05 – 15.25	<b>Tvrtko Renić</b> Summer school on risk and resilience estimation
15.25 – 15.45	prof. <b>Mislav Stepinac</b> Collaboration with the scientists abroad - UKF project: seismic behaviour of multi-storey buildings
15.45 – 16.00	<b>Closing ceremony</b>

Note for lecturers:

Time for presentation includes 5 minutes for questions and answers.