

7. DOCTORAL SYMPOSIUM IN CIVIL ENGINEERING

6. – 7. September 2021., Zagreb

Organizer: University of Zagreb Faculty of Civil Engineering

SYMPOSIUM PROGRAM

DAY 1 - MONDAY, September 6, 2021.

08.00 – 09.00	PARTICIPANT REGISTRATION, Hall P1
09.00 – 09.15	OPENING CEREMONY, Hall P1
I Session 09.15 – 11.00	Chairperson: prof. Lovorka Librić & prof. Mario Uroš (Hall P1)
9.15 – 9.45	Nenad Bijelić, PhD Wondering wanderer – academic experiences and thoughts to spark emergent phenomena
9.45 – 10.10	Božo Padovan, prof. Lovorka Librić Possibilities of applying seismic methods in the shallower submarine
10.10 – 10.35	Tea Žagar, prof. Mario Uroš, prof. Josip Atalić Exposure of standardised buildings in Zagreb built in the second half of the 20 th century
10.35 – 11.00	Luka Lulić, prof. Mislav Stepinac In-situ testing of masonry with flat-jacks
Coffee break: 11.00 – 11.30	
II Session 11.30 – 13.00	Chairperson: prof. Gordon Gilja & prof. Kristina Potočki (Hall P1)
11.30 – 11.55	Robert Fliszar, prof. Gordon Gilja Research approach for estimation of deflected scour hole characteristics developed next to riprap protection
11.55 – 12.20	Martina Kovačević, prof. Kristina Potočki Possible approach for evaluation of scour depth around bridges based on hydrological and meteorological parameters
12.20 – 12.45	Mirza Sarač, prof. Damir Bekić, prof. Mateo Gašparović An analysis of the possible application of remote sensing for interpolation of missing data in the operational hydrological forecasting
12.45 – 13.00	Tin Kulić, prof. Goran Lončar The application of agent-based modelling within the scope of environmental and coastal engineering
Lunch break: 13.00 – 14.00	
III Session 14.00 – 16.00	Chairperson: prof. Ivana Banjad Pečur & prof. Marijana Serdar (Hall 121)
14.00 – 14.20	Marina Bagarić, PhD Challenges in planning and conducting the experimental part of doctoral research
14.20 – 14.45	Alma-Dina Bašić, Martina Grubor, PhD, prof. Marijana Serdar, Ingrid Mikanović, MSc, Günther Walenta, PhD Strength development of calcium aluminate cement with slag
14.45 – 15.10	Josipa Skočibušić Pejić, Martina Grubor, PhD, prof. Marijana Serdar, dr.sc. Markus Schmid, PhD, Günther Walenta, PhD Assessing chemical reactivity of blast furnace slag as supplementary cementitious material
15.10 – 15.35	Ivana Vladić Kancir, prof. Marijana Serdar Synergy of red mud, calcined clay and limestone in cementitious binders
15.35 – 16.00	Marko Rukavina, prof. Marijana Serdar Ceramic-like inorganic polymer materials: recovery of bauxite residue

Note for lecturers:

Time for presentation includes 5 minutes for questions and answers.

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DAY 2 – TUESDAY, September 7, 2021.

IV Session 09.00 – 10.40	Chairperson: prof. Davor Skejić & prof. Marija Jelčić Rukavina (Hall 121)
9.00 – 9.25	Josip Pišković , PhD Experience from doctoral studies and the benefits of obtaining a doctorate for work in industry
9.25 – 9.50	Ivan Čudina , prof. Davor Skejić Flexural buckling of aluminium columns - Research review
9.50 – 10.15	Anton Kralj , prof. Davor Skejić Behaviour of thin-walled cold-formed steel structures in fire
10.15 – 10.40	Tomislav Ščapec , prof. Marija Jelčić Rukavina Review of thermal performance of LSF walls used for nZEB: Influence of components
Coffee break: 10.40 – 11.15	
V Session 11.15 – 12.30	Chairperson: prof. Tomislav Kišiček & prof. Mislav Stepinac (Hall 121)
11.15 – 11.40	Besart Avdyli , prof. Tomislav Kišiček , prof. Naser Kabashi Bond coefficients of beams reinforced with FRP and strengthened with FRC fibres (ONLINE PRESENTATION)
11.40 – 12.05	Krešimir Tarnik , prof. Tomislav Kišiček Effect of openings on stiffness of post-tensioned slabs
12.05 – 12.30	Ksenija Tešić , prof. Ana Baričević , prof. Marijana Serdar Influence of corrosion-induced damage in reinforced concrete on GPR signal parameters
Lunch break: 12.30 – 13.30	
VI Session 13.30 – 16.00	Chairperson: prof. Ivan Gabrijel & prof. Mario Bačić (Hall 121)
13.30 – 13.55	Katarina Didulica , prof. Ana Baričević Possibilities of using waste fibers in high- performance cementitious composites
13.55 – 14.20	Petra Štefanec , prof. Ivan Gabrijel Calculation methods for determining the apparent activation energy
WORKSHOP: Presentation of additional education and training in 2020./2021.	
14.20 – 14.40	prof. Marija Kušter Marić Incorporating changing climatic parameters in predicting the service life of structures
14.40 – 15.00	prof. Mario Bačić Energy geostructures: analysis and design
15.00 – 15.20	Ksenija Tešić Training in the application of ground penetrating radar in the assessment of structures
15.20 – 15.40	prof. Mislav Stepinac Challenges of academic mobility during a pandemic
15.40 – 16.00	prof. Kristina Potočki Collaboration with the scientists abroad using the example of mobility to Stockholm University

Note for lecturers:

Time for presentation includes 5 minutes for questions and answers.