



XXVIII. POLISH-SLOVAK-RUSSIAN SEMINAR Theoretical Foundation of Civil Engineering Žilina, Slovakia September 9. – 13. 2019



TUESDAY, 10. 9. 2019

9:30 – 10:00

Conference opening

prof. Ing. Jozef JANDAČKA, PhD. - Rector of UNIZA
prof. Ing. Marián DRUSA, PhD. – Dean of FCE UNIZA

10:00 – 12:30

Session 1: Structural mechanics

Chairpersons: Vladimir Andreev, Zbigniew Wójcicki

10:00 – 10:10

Vladimir Andreev, Ivan Potekhin

Calculation of Equal Strength Thick-Walled Concrete Cylinder with Free Ends

10:10 – 10:20

Zbigniew Wójcicki

Eigen problem Sensitivity Analysis of Continuous Parametric Periodic Systems

10:20 – 10:30

Ivan Zotov, Anastasia Lapina, Batyr Yazyev, Anton Chepurnenko

Calculation of the Rectangular Cross-Section Beams On the Side Buckling Taking into Account Creep

10:30 – 10:40

Alexander Solovyev, Dmitry Solovyev, Liubov Shilova

Calculation of Dangerous Jumping Flows' Energy Beyond the Dams of Hydropower Station

10:40 – 11:10

Coffee break

11:10 – 11:20

Oleg Mkrtichev

Degradation of Dynamic Parameters of Reinforced Concrete Buildings during an Earthquake

11:20 – 11:30

Jacek Grosel, Przemyslaw Golicki

Investigation of the Degree of Vibrations' Transmission Transferred Through the Subsoil to the Structure

11:30 – 11:40

Marek Lechman

Rectangular Section Model for Analysis of the Resistance of Eccentrically Compressed Masonry Structures

11:40 – 11:50

Libor Ižvolt, Peter Dobeš, Martin Mečár

Testing the Suitability of the Reinforced Foam Concrete Layer Application in the Track Bed Structure

11:50 – 12:30	Discussion
12:30 – 13:30	Lunch
13:30 – 15:50	Session 2: Building structures
	Chairpersons: Vadim Alpatov, Peter Koteš
13:30 – 13:40	Denis Panfilov, Yuriy Zhiltsov, Alexander Pischulev
	Stress-strain Analysis of Reinforced Concrete Beam Strengthened with Carbon Fibre
13:40 – 13:50	Alexey Soloviev, Nailya Khamidullina
	Problem of Calculating Strength of Beams of Corrosion-Resistant Cross-section during Bending with Constrained Torsion
13:50 – 14:00	Vadim Alpatov, Andrey Saharov
	Variant Design of Metal Dome Frame
14:00 – 14:10	Ashot G.Tamrazyan, Michael S. Mineev, Iyudmila I. Zhukova
	Influence of Chloride Corrosion on Probabilistic Assessment of Bearing Capacity of Beamless Slabs Overlap
14:10 – 14:40	Coffee break
14:40 – 14:50	Paweł Bednarek, Jan Rządowski
	Analysis of Hollow Shape Semi Rigid Joints Made by use of Thermal Drilling Technology
14:40 – 14:50	Radoslav Ponechal, Peter Juráš,
	Selected Problems of Heat Transfer Measuring by Hotbox Apparatus in Climate Chambers
14:50 – 15:00	Jozef Prokop, Josef Vičan, František Bahleda, Jozef Jošt,
	Experimental and Numerical Analysis on Pinned-fixed Beam-columns
15:00 – 15:10	M. Strieška, P. Koteš, P. Bujňáková., J. Jost, M.Farbak
	Sensitivity Analysis of Zinc Dose-response Function according to Actual Standard Approach
15:10 – 15:50	Discussion
16:00	End of conference day

WEDNESDAY 11.9.2019

9:30 – 11:00	Session 3: Geodesy and Geotechnics
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Chairpersons: Marián Drusa, Armen Ter-Martirosyan

9:30 – 9:40

Zaven Ter-Martirosyan, Armen Ter-Martirosyan, Vitalii Sidorov

Settlement and Bearing Capacity of the Pile in A Three-Layer Base Taking into Account the Elastic-Visco-Plastic Properties of Soils

9:40 – 9:50

Beata Gajewska, Marcin Gajewski

Approximation Method for Evaluation of Strains and Forces in LTP Reinforcement of Embankments on Columns

9:50 – 10:00

Zaven Ter-Martirosyan, Armen Ter-Martirosyan, Lyubov Ermoshina

Creep of Clayey Soil with Kinematic Shear, Taking into Account Internal Friction, Adhesion and Viscous Resistance

10:00 – 10:10

Roman Jaskulski, Wojciech Kubissa, Karol Prałat

Influence of PCP Based Superplasticizer on Heat Emission During Portland Cement Hydration

10:10 – 10:20

Minh Tuan Le, Thi Anh Tuyet Cao, Nguyen Anh Quan Tran, Shukurov Ilkhomhon Sadriavich, Thi Khanh Phuong Nguyen, Thi Kim Cuong Le

Case Study of GIS Application in Analysing Urban Heating Island Phenomena in Tropical Climate Country

10:20 – 10:30

Tomáš Cesnek, Jakub Chromčák, Jana Ižvoltová

Geodetic and Microgravity Measurement used in St. Mary's Assumption Chapel

10:30 – 11:00

Coffee break

11:00 – 12:30

Session 4: Building materials, Technologies, Organization and Management in construction

Chairpersons: Monika Podwórna, Michał Krzemiński

11:00 – 11:10

Monika Podwórna, Paweł Śniady

Value of a Building – Decision Analysis

11:10 – 11:20

Tatyana Matseevich, Andrey Askadskii, Valeriy Kondrashchenko

Modification of WPC Materials by Introduction of Dioctyl Phthalate Plasticator

11:30 – 11:40

Michał Krzemiński, Tomasz Wojtkiewicz

Bidder Multiple Criteria Assessment with Simos Method Use

11:40 – 11:50

Anysz Hubert, Beskopylny Alexey, Remek Luboš

Influence of the Organizational Schemes of the Construction Process on the Quality of the Structures Erected Based on Selected Legal Aspects from Russia, Slovakia, and Poland

11:50 – 12:30

Discussion

12:30 – 13:30	Lunch
13:30 – 14:40	Session 5: Transport and Environmental Issues in Civil Engineering
	Chairpersons: Matúš Kováč
13:30 – 13:40	Marek Drličiak, Ján Čelko, Michal Cingel
	The Economically Active People in the Transport Process
13:40 – 13:50	Dušan Jandačka, Martin Decký, Daniela Ďurčanská
	Traffic Related Pollutants and Noise Emissions in the Vicinity of Different Types of Urban Crossroads
13:50 – 14:00	Zuzana Grúňová, Michaela Holešová
	Architecture of Concrete Prefabricated Apartment Houses in Slovakia in Relation to the Nesting Habits of Delichon Urbicum
14:00 – 14:10	Dana Sitanyiová, Francesco Edoardo Misso
	RUMOBIL – Feasibility of New Public Transport Services in European Rural Areas
14:10 – 14:40	Discussion
16:00	End of conference day

THURSDAY 12.9.2019

8:30 – 17:30	Excursion
8:30 – 11:30	Excursion (Vlkolinec – UNESCO heritage village)
12:00 – 13:00	Lunch at the Dobrý pastier resort restaurant
13:00 – 15:00	Excursion – Motorway D1 construction zone near Hrboltová