



ANNUAL REPORT

2016



SLOVAK UNIVERSITY OF
TECHNOLOGY IN BRATISLAVA
FACULTY OF CIVIL ENGINEERING

2016

ANNUAL REPORT

of the Faculty of Civil Engineering

Bratislava

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Authorized contributions from the departments

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TABLE OF CONTENT

Introduction	5
Bodies of The Faculty	7

Departments

Department of Concrete Structures and Bridges	15
Department of Transportation Engineering	24
Department of Theoretical Geodesy	27
Department of Surveying.....	33
Department of Geotechnics	38
Department of Land and Water Resources Management.....	44
Department of Hydraulic Engineering	51
Department of Building Construction.....	58
Department of Steel and Timber Structures.....	68
Department of Mathematics and Descriptive Geometry	75
Department of Physics.....	85
Department of Structural Mechanics	87
Department of Material Engineering.....	95
Department of Building Technology.....	98
Department of Sanitary and Environmental Engineering	108
Department of Building Services	113
Department of Architecture	123
Institute of Forensic Engineering	127
Department of Languages	128
Department of Physical Education	129
Department of Humane Sciences.....	130
Contacts	132

INTRODUCTION

The activities of the Faculty are governed by Act No. 131/2002 Coll., on universities and other principal documents of the Faculty and University, including the Long-Term Development Goals of the Faculty.

In accordance with the Bologna Declaration, **the studies** at the Faculty of Civil Engineering have three levels that implement the credit system for assessments. The instruction is realized in 28 study programs with the following structure: 8 at the bachelor level, 11 at the engineering level and 9 at the doctoral level.

In the admissions process of students for bachelor studies, the entrance examination has been omitted since the academic year 2012/13. In addition, the Faculty of Civil Engineering organized a second round of the entrance examinations for bachelor and engineering studies in the assessed year. In spite of this fact, we again noticed a slight decline in students enrolled in the first year of the bachelor as well as the engineering studies. The number of graduates at the bachelor, engineering and doctoral levels declined. The percentage of students who successfully completed the last year of the bachelor and engineering levels remained balanced with 60% at the bachelor and 85% at the engineering level.

A long-term positive trend is the number of students who achieve excellent study scores as well as the number of students of the Faculty of Civil Engineering who take part in various competitions organized by the commercial sector and who receive numerous awards. We managed to increase the number of students who went to study abroad, but the number of foreign students at the FCE is consistently low. One of the Faculty's goals is to increase the number of foreign students as well as the number of students of the Faculty of Civil Engineering who will take advantage of student mobility programs.

The Faculty of Civil Engineering applies various tools to monitor the teaching process. The Faculty regularly organizes an anonymous evaluation of the teaching process by the students. In the previous two semesters approximately 50% of the students took part in this anonymous survey. We require the lecturers to consider this information and respond to the students by an email sent to all of them. The students said they appreciated this activity at several meetings.

In compliance with the provisions of the Act on Higher Education, creative scientific and research work is an integral part of the university's educational activities. Over the long run **the strategy of the scientific-research work** of FCE, STU in Bratislava is based on the national policy on science as well as predicted European and world trends in civil engineering and geodesy. The bodies of the Faculty have discussed, and the Scientific Board has approved, a new principal research orientation, while considering the condition of the experimental bases of the departments, the development of which was a priority for achieving a higher standard of outcomes. In the field of scientific-research activities, the Faculty of Civil Engineering will aim at intelligent construction and transportation systems, modern materials and constructions, modelling the processes of the internal environments of buildings, protection of the environment and renewable energy sources, automatic control systems

in civil engineering, the safety and reliability of constructions, optimization of planning, exploitation of hydraulic structures and their interactions with the environment, and integrated protection from hydrospheric extremes, including the monitoring of global and regional changes to the environment.

The Faculty constantly strives to disseminate information to the practice concerning the creation and updating of international, European and domestic standards, as well as the realization of tasks requested by companies or institutions.

In 2016, research teams of the Faculty submitted a total of 54 new projects. The Faculty has been working on 67 projects – out of that number, 33 were VEGA, 1 KEGA, 17 APVV, and 2 grant project from the Ministry of Culture. The total amount of funding from the national budget for these projects was 880 000 Euros.

Within the framework of **the Operational Research and Development Program**, the Faculty is involved in a number of university projects aimed at the field of diagnostics of deformations of the Earth's surface in Slovakia by the application of satellites, gravimetric and tropospheric measurements, the development of methods for the excavation of high-volume energy wells, the development of accumulative vacuum tanks, and the creation and development of environmental technologies in the flood protection of settlements in the region of the Small Carpathians. Projects are also aimed at the development of integration systems for the simulation of drain processes, the applied research of methods for the determination of climate and hydrological design variables, and the development of intelligent technologies for the use of electronics and computation in the systems and services of constructions. The Faculty devoted a large part of the year to the realization of tasks of the University Scientific Park and other projects funded from the Structural Funds (SF).

The Presidium of the Faculty, along with the Scientific Board of the Faculty, has recommended diversifying the Faculty's research activities and focusing on themes that are a priority from the point of view of the EU and SR (e.g., environmental, energy, and transportation infrastructure issues and efficiency in the production and operation of constructions).

Systematic research work substantiated by publications is one of the primary conditions for the success of the Faculty and the professional growth of its employees. Therefore, the Presidium of the Faculty strives at all control levels to ensure favourable conditions for creative work, including publishing work.

Due to the activities of its employees, FCE, STU is currently participating in all the significant EU programs, including TEMPUS, SOCRATES, and ERASMUS+, but we also have to mention other international activities, especially the CEEPUS II program and bilateral programs based on our employees' contacts with foreign partner universities. A total of 27 research and educational projects within various forms of EU framework programs were submitted in 2016. In 2016, the Faculty obtained 174,000 Euros for international projects.

The Faculty has to vigorously present its activities, even within our own country. Year by year the role of **Public Relations** has become more important

in informing the public about the range of study programs at the Faculty, our graduates' job prospects, and the promotion of the civil engineering professions. In accordance with the Long-Term Goals of the Development of the Faculty of Civil Engineering, the Faculty's Public Relations activities cover the most fundamental areas, including the promotion of studying at STU, student life, representing the Faculty at trade fairs and professional and scientific events, activities of the Industrial Board, competitions, media activities, social events, and the care of its employees.

In the previous year the Presidium of the Faculty continued in its effort to improve not only the teaching process but also the standard services provided to the students. As a result, many classrooms were renovated and equipped with data projectors, and the network's infrastructure was upgraded. The students can also consult on a daily basis with the professionals from the Centre of Information Technologies of the Faculty. The computer classrooms are visited by an average of 1,500 students per week, i.e., more than 40,000 students per year.

The arrangement of specialized zones in the library for notebooks to be connected to the Internet has enhanced the capacity of the reading room and the comfort of its users. This has resulted in higher attendance at the Library and Information Centre of the FCE, STU, with students spending longer periods

of time there on average. The modernization of the library and its higher quality services has had a positive impact on attendance in the library's reading room. In the year 2016 the number of visitors has reached more than 62,000 per year. The attendance at the library proves that the realization of the modernization project of the academic library at the Faculty of Civil Engineering STU has been successful and that the library has become a vital centre for education and the meaningful use of free time during breaks between classes.

From the point of view of investment activities in the year 2016, the Faculty is aiming at basic repair work and maintenance of the premises of the FCE, including the reconstruction of the Centre of Information Technologies, repairing of facade of main lecture hall, repairing of balconies around this hall etc.

The above-mentioned activities represent just a small part of the measures aimed at a common effort of improving the standard of our pedagogical and research infrastructure and improving the quality of the rooms where our lecturers have to work and where our students learn.

In the future it will be possible to continue this trend only through a higher degree of quality, not only in the Faculty's pedagogy and research, but also by focusing on international cooperation.

BODIES OF THE FACULTY

1. THE DEAN OF THE FACULTY

Prof. Ing. Stanislav Unčik, PhD.

2. PRESIDIUM OF THE FACULTY

Prof. Ing. Stanislav Unčik, PhD.

Prof. Ing. Ján Szolgay, PhD.

Assoc. Prof. Ing. Peter Makýš, PhD.

Prof. Ing. Vladimír Benko, PhD.

Ing. Peter Kyrinovič, PhD.

Ing. Tomáš Šatura

Assoc. Prof. Ing. arch. Jarmila Húsenicová, PhD.

Michal Karpel / Bc. Barbora Junasová

Ing. Miloslav Štujber

- The Dean
- The First Deputy Dean, Vice-Dean for Science, Research and Foreign Relations
- Vice-Dean for Education
- Vice-Dean for Public Relations
- Vice-Dean for Development of the Faculty
- Financial Manager
- Chairman of the Academic Senate FCE STU
- Chairperson of the Students' Association, FCE STU
- Chairman of the Trade Union Organisation

3. THE DEAN'S COUNCIL

Prof. Ing. Stanislav Unčik, PhD.

Prof. Ing. Ján Szolgay, PhD.

Assoc. Prof. Ing. Peter Makýš, PhD.

Prof. Ing. Vladimír Benko, PhD.

Ing. Peter Kyrinovič, PhD.

Ing. Tomáš Šatura

Assoc. Prof. Ing. arch. Jarmila Húsenicová, PhD.

Michal Karpel/ Bc. Barbora Junasová

Ing. Miloslav Štujber

Prof. Ing. Juraj Bilčík, PhD.

Ing. Tibor Schlosser, PhD.

- The Dean
- The First Deputy Dean, Vice-Dean for Science, Research and Foreign Relations
- Vice-Dean for Education
- Vice-Dean for Public Relations
- Vice-Dean for Development of the Faculty
- Financial Manager
- Chairman of the Academic Senate FCE STU
- Chairperson of the Students' Association, FCE STU
- Chairman of the Trade Union Organization
- Head of Department of Concrete Construction and Bridges
- Head of Department of Transportation Engineering

Assoc. Prof. Ing. Juraj Janák, PhD.	– Head of Department of Theoretical Geodesy
Prof. Ing. Alojz Kopáčik, PhD.	– Head of Department of Surveying
Prof. Ing. Alojz Kopáčik, PhD.	– Head of Department of Geotechnics
Prof. Ing. Viliam Macura, PhD.	– Head of Department of Land and Water Resources Management
Prof. Ing. Peter Dušička, PhD.	– Head of Department of Hydraulic Engineering
Prof. Ing. Boris Bielek, PhD.	– Head of Department of Building Construction
Prof. Ing. Ján Brodniansky, PhD.	– Head of Department of Steel and Timber Structures
Prof. RNDr. Radko Mesiar, DrSc.	– Head of Department of Mathematics and Descriptive Geometry
Assoc. Prof. RNDr. Jozefa Lukovičová, PhD.	– Head of Department of Physics
Prof. Ing. Norbert Jendželovský, PhD.	– Head of Department of Structural Mechanics
Ing. Alena Struhárová, PhD.	– Head of Department of Material Engineering
Prof. Ing. Jozef Gašparík, PhD.	– Head of Department of Building Technology
doc. RNDr. Ivona Škultétyová, PhD.	– Head of Department of Sanitary and Environmental Engineering
Prof. Ing. Dušan Petráš, PhD.	– Head of Department of Building Services
PhDr. Dagmar Špildová	– Head of Department of Languages
Mgr. Zuzana Híkl/Mgr. Marián Decký	– Head of Department of Physical Education
JUDr. Janka Zajacová, PhD.	– Head of Department of Humanities
Assoc. Prof. Ing. arch. Jarmila Húsenicová, PhD.	– Head of Department of Architecture
Assoc. Prof. Ing. Zora Petráková, PhD.	– Head of Institute of Forensic Engineering

4. SCIENTIFIC BOARD OF THE FACULTY

Members of the Scientific Board (full members from the Faculty)

Chair man: Prof. Ing. Stanislav Unčík, PhD.

Vice-Chair man: Prof. Ing. Ján Szolgay, PhD.

Prof. Ing. Ivan Baláž, PhD., Department of Steel and Timber Structures

Prof. prof. Ing. Vladimír Benko, PhD., Vice-Dean for Public Relations

Prof. Ing. Emília Bednárová, PhD., Head of Department of Geotechnics

Prof. Ing. Boris Bielek, PhD., Department of Building Construction

Prof. Ing. Jaroslav Halvonik, PhD., Department of Concrete Structures and Bridges

Prof. Ing. Jozef Gašparík, PhD., Department of Building Technology

Prof. Ing. Ján Hefty, PhD., Department of Theoretical Geodesy

Prof. Ing. Jozef Hraška, PhD., Department of Building Structures

Prof. Ing. Alojz Kopáčik, PhD., Dean of the Faculty, Department of Surveying

Assoc. Prof. Štefan Stanko, PhD., Vice-Rector of STU

Prof. Ing. Viliam Macura, PhD., Department of Land and Water Resources Management
Assoc. Prof. Ing. Peter Makýš, PhD., Department of Building Technology
Prof. RNDr. Radko Mesiar, DrSc., Department of Mathematics and Constructive Geometry
Prof. Ing. Dušan Petráš, PhD., Department of Building Services
Prof. Ing. Boris Bielek, PhD., Department of Building Structures
Prof. Ing. Norbert Jendželovský, PhD., Department of Structural Mechanics
Prof. Ing. Milan Sokol, PhD., Department of Structural Mechanics
Prof. Ing. Andrej Šoltész, PhD., Department of Hydraulic Engineering
Prof. Ing. Ján Szolgay, PhD., Vice-Dean for Science, Research and Foreign Relations
Assoc. Prof. Ing. Arch. Ľubica Vítková, PhD., Dean of the Faculty of Architecture, STU

Members of the Scientific Board (full members from external institutions)

Prof. Ing. Ján Čelko, PhD., Faculty of Civil Engineering, University of Žilina
Assoc. Prof. Ing. Peter Černík, PhD., STRABAG Development Slovakia, Ltd.
Assoc. Prof. RNDr. Ján Feranec, DrSc., Geographical Institute SAS Bratislava
Prof. Ing. Mária Kozlovská, PhD., Faculty of Civil Engineering, Technical University of Košice
Ing. Peter Matiašovský, CSc., Institute of Construction and Architecture SAS Bratislava
Prof. RNDr. Daniel Ševčovič, CSc., Faculty of Mathematics, Physics and Informatics, Comenius University Bratislava
Assoc. Prof. Ing. Peter Halaj, CSc., The Faculty of Horticulture and Landscape Engineering, Slovak University of Agriculture in Nitra
RNDr. Pavla Pekárová, DrSc., Slovak Academy Of Sciences, Bratislava

Members of the Scientific Board (honorary members)

Prof. Ing. Alena Kohoutková, CSc., Dean of the Faculty of Civil Engineering ČVUT Prague,
Prof. Ing. Rostislav Drochytka, CSc., Dean of the Faculty of Civil Engineering VUT Brno,
Prof. Ing. Radim Čajka, CSc., Dean of the Faculty of Civil Engineering VŠB TU Ostrava,
Prof. Ing. Josef Vičan, CSc., Dean of the Faculty of Civil Engineering ŽU Žilina,
Prof. Ing. Vincent Kvočák, PhD., Dean of the Faculty of Civil Engineering TU Košice,
Ing. Mária Frindrichová, Head of the Geodesy, Cartography and Cadastre Authority of the Slovak Republic,
Ing. Zsolt Lukáč, President of the Association of Construction Entrepreneurs in Slovakia,
Ing. Ján Hardoš, Chairman of the Board of the Chamber of Surveyors and Cartographers,
Ing. arch. Imrich Pleidel, Chairman of the Slovak Chamber of Architects,
Prof. Ing. Vladimír Benko, PhD., Chairman of the Slovak Chamber of Civil Engineers (he is also a regular member of the Scientific Board).

5. THE FACULTY'S ACADEMIC SENATE

After the election procedure and the approval of its results, the Academic Senate of the Faculty was appointed for the period from 2015 to 2019 at the session of the AS of the Faculty on 27.3.2015. The presiding officers were elected at this session, and the members were delegated their functions on the following working committees:

Presiding Officers:

Assoc. Prof. Ing. arch. Jarmila Húsenicová, PhD.	– Chairman of the AS
JUDr. Jana Zajacová, PhD.	– Deputy Chairman of the AS
Prof. RNDr. Radko Mesiar, DrSc.	– Presiding Officers
Prof. Ing. Ľudovít Fillo, PhD.	
Petra Danišová	
Bc. Kristína Vaňová	

Committees

The Academic Senate Member committee

Assoc. Prof. Ing. Ľudovít Možiešik, PhD. - chair

Pedagogy, science and research

Assoc. Prof. Ing. Ladislav Husár, PhD.

Prof. Ing. Ivan Baláž, PhD.

Ing. Mária Kurčová, PhD.

Ing. Alena Struhárová, PhD.

Ing. Peter Buday, PhD.

Monika Pračková

Ondrej Bruncko

Jozef Kováč

Assoc. Prof. Ing. Ľuboš Hruštinec, PhD. - chair

economics

PhDr. Alžbeta Pálová, PhD.

Ing. Marek Fraštia, PhD.

Assoc. Prof. RNDr. Ivona Škultétyová, PhD.

Bc. Monika Csehová

Bc. Matúš Mlynarčík

Assoc. Prof. Ing. Naďa Antošová, PhD. - chair

organizational and social

Prof. Ing. Silvia Kohnová, PhD.

Mgr. Zita Herzánová

Bc. Anna Kosíková

Andrea Dobiašová

Assoc. Prof. Ing. Gabriela Pavlendová, PhD. - chair

legislation

Assoc. Prof. Ing. Katarína Bačová, PhD.

Assoc. Prof. Ing. Oľga Ivánková, PhD.

Assoc. Prof. Ing. Zora Petráková, PhD.

Bc. Maroš Kamenský/ Bc. Miroslav Kováčik

Bc. Barbora Junasová

6. THE INDUSTRY BOARD

The Industry Board is the Dean's advisory body that consists mainly of leaders of the most significant companies and organisations in the fields of civil engineering and geodesy and cartography in Slovakia. Its sessions are held twice a year in the spring and autumn, and it comments on the Faculty's activities, especially on education, the structure of the study programs and the profile of the graduates of FCE from the point of view of their future employment.

The Industry Board provides a direct contact of the Faculty with the building industry, which is necessary for an institution training graduates for these companies and organisations.

Members of the Industry Board:

Prof. Ing. Vladimír Benko, PhD., Faculty of Civil Engineering STU, Vice-Dean for PR, Chair of the Slovak Chamber of Civil Engineers

Ing. Igor Beroun, Director General of JOHNSON CONTROLS CR and SR

Ing. Mikuláš Bobik, Director of Applied Precision, Ltd.

Mgr. Magdaléna Dobišová, Chairman of the Board and General Director of Skanska SK a.s.

Prof. Ing. Ľudovít Fillo, PhD., Faculty of Civil Engineering STU Bratislava

Ing. Ľuboš Fussek, Director of BAUMIT, Ltd.

Ing. Peter Glaus, Hydroconsulting, Ltd.

Ing. Martin Greguš, Saint-Gobain Construction Products, Ltd.

Ing. Peter Halász, Director of Jaga Group, Ltd.

Ing. Ján Hardoš, Chairman of the Chamber of Surveyors and Cartographers, Director of fy SIGEO

Ing. Juraj Hirner, Executive Manager and Director of STRABAG Corporation – Building and Civil Engineering Constructions, Ltd.

Ing. Oto Hornáček, General Director of HORNEX, a.s.

Ing. Stanislav Hreha, Chairman of the Board of the Association of Water Companies, Chairman of the Board of the East-Slovakian Water Company, a.s.

Ing. Milín Kaňuščák, Executive Manager of KAMI PROFIT, Ltd.

Ing. Arch. Pavol Kollár, Chief of Holding Invest-in

Prof. Ing. Alojz Kopáčik, PhD., President of the Association ABF Slovakia, Faculty of Civil Engineering STU Bratislava

Ing. Ľubica Kopčová, General Director of the Research Institute for Water Management, Chairman of the Executive Board of the Association of Employers in Water Management in Slovakia

Ing. Arch. Ivan Kubík, Ateliér Ivan Kubík, Ltd.

Ing. Peter Kyrinovič, PhD., Vice-Dean for Faculty Development, Faculty of Civil Engineering STU Bratislava

Ing. Miroslav Leško, Director, Premac

Ing. Zsolt Lukáč, President of the Association of Construction Entrepreneurs in Slovakia

Ing. Ján Majerský, Director of PROMA, Ltd.

Assoc. Prof. Ing. Peter Makýš, PhD., Vice-Dean for Education, FCE STU Bratislava

Prof. Ing. Dušan Petráš, PhD., President of ZSVTS, FCE STU Bratislava

Ing. Ladislav Piršel, Slovak Council for Green Buildings

Ing. Slavomír Podmanický, General Director of REMING Consult, a.s.

Ing. Peter Pochaba, T-Klíma, Ltd.

Ing. Jozef Ružanský, General Director of Drevona, a.s.

Ing. Vladimír Stromček, Director of Geodézia, a.s. Žilina, member of the Board of the Chamber of Surveyors and Cartographers

Assoc. Prof. Ing. Peter Suchánek, PhD., procurement officer, head of the branch of window and façade systems, REHAU, Ltd.

Ing. Marián Supek, General Director of the Slovak Water Management Enterprise

Prof. Ing. Ján Szolgay, PhD., Vice-Dean for Science, Research and International Relations, FCE STU Bratislava

Ing. Ján Šedivý, Chairman of the Board and Director of the company, SCS UNI&Co., a.s.

Ing. Róbert Šinály, General Director EUROVIA SK, a.s.

Prof. Ing. Andrej Šoltész, PhD., Alumni Chairman of FCE STU Bratislava

Ing. Vladimír Uhlík, General Director of Geodézia a.s.

Prof. Ing. Stanislav Unčík, PhD., Dean of FCE STU Bratislava

Ing. Ján Záhradník, Sales Director of Doprastav, a.s. Directorate General

Ing. František Zvrškovec, President of Divident Group Sk

DEPARTMENTS

DEPARTMENT OF CONCRETE STRUCTURES AND BRIDGES

Head of Department

Prof. Ing. Juraj Bilčík, PhD.

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Advanced Topics of Concrete Structures (Slovak and English)

Concrete and Masonry Members

Concrete Bridges I, II (Slovak and English)

Concrete Load-Bearing Members

Concrete Members (Slovak and English)

Concrete Structures I, II (Slovak and English)

Concrete Structures of Civil Engineering Works

Design and Execution of Civil Engineering Works

High - Rise Concrete Structures

Masonry Structures and Renovations

Prestressed Concrete

Structural Design Studio 1, 2, 3

Obligatory elective subjects

Repair of Concrete Structures

Special Problems of Concrete Structures

Obligatory elective subjects

Repair of Concrete Structures

Special Problems of Concrete Structures

1.2 Postgraduate courses

Experimental Testing of Concrete Structures

Modelling of Civil Engineering Works

Reliability and Strengthening of Concrete Structures

Special Problems of Concrete and Masonry Structures

Special Problems of Concrete Bridges

Structural Materials and Systems

2. THESES

2.1 Bachelor theses

There were 9 works.

2.2 Graduate theses

ÁCS, Z.: Office Building / Part B - Rožňavská, Bratislava: Cast-in-Situ Reinforced Concrete Structure with Flat Slabs and Stiffening Cores
Supervisor: ABRAHOIM, I.

BAĎO, L.: Hotel: Cast-in-Situ Reinforced Concrete Structure
Supervisor: BORZOVIČ, V.

BAJI, C.: Staré Grunty - Bratislava Hotel ***: Combined Cast-in-Situ Reinforced Concrete Structure with Stiffening Cores
Supervisor: ABRAHOIM, I.

BELICOVÁ, G.: 20-Storey Cast-in-Situ High-Rise Multifunctional Building
Supervisor: BENKO, V.

BENDÍK, P.: Road Bridge: Post-Tensioned Cast-in-Situ Concrete Structure
Supervisor: BORZOVIČ, V.

BOŠIAK, P.: Box Cast-in-Situ Reinforced Concrete Tank of a Cooling Tower
Supervisor: HUDOBA, I.

BRIATKA, P.: Bridge Structure No.219 on the Highway D3 near Čadca: Design and Assessment of the Lower Construction
Supervisor: PAULÍK, P.

BUČEK, F.: 24-Storey Cast-in-Situ High-Rise Building
Supervisor: BENKO, V.

CIBULKA, Š.: Load-Bearing Structure of a High-Rise Building
Supervisor: GRAMBLIČKA, Š.

ČERVENKA, T.: High-Rise Smokestack
Supervisor: ŠOLTÉSZ, J.

DANEKOVÁ, M.: Load-Bearing Structure of a Multifunctional High-Rise Building
Supervisor: GRAMBLIČKA, Š.

DEKRÉT, N.: Radar Tower: Reinforced Concrete Variant
Supervisor: ŠOLTÉSZ, J.

DINGA, B.: Office Building - Generali, Bratislava: Cast-in-Situ Combined Reinforced Concrete Structure with a Stiffening Core
Supervisor: ABRAHOIM, I.

FILLO, M.: Prestressed Concrete Bridge on Highway D1
Supervisor: HALVONÍK, J.

FIŠÁREK, R.: 33-Storey High-Rise Residential Building: Cast-in-Situ RC Structure with Flat Slabs and a Stiffening Core
Supervisor: HARVAN, I.

FRAŇO, P.: Factory Building with Social Services: Precast Concrete Structure
Supervisor: HARVAN, I.

FÚSKA, T.: Bridge Structure No.219 on the Highway D3 near Čadca: Design and Assessment of the Upper Construction
Supervisor: PAULÍK, P.

GENCS, G.: Multifunctional High-Rise Building: Cast-in-Situ RC Bearing Structure
Supervisor: BARTÓK, A.

HALOVÁ, B.: Multifunctional Building: Cast-in-Situ Reinforced Concrete Structure
Supervisor: BORZOVIČ, V.

HAŠTO, T.: Social and Operational Building - Jablonec Glass Works: Cast-in-Situ RC Structure with Stiffening Cores
Supervisor: HARVAN, I.

HAVLÍČEK, P.: Design of Terminal Supporting System for a Bus Centre in Banská Bystrica
Supervisor: ŠOLTÉSZ, J.

HOLLÝ, P.: Load-Bearing Structure of a Multifunctional Building
Supervisor: GRAMBLIČKA, Š.

HOREČNÁ, M.: High-Rise Residential Building: Cast in-Situ Reinforced Concrete Structure
Supervisor: BARTÓK, A.

IRSÁKOVÁ, C.: Office Building: Cast in-Situ Reinforced Concrete Structure
Supervisor: BORZOVIČ, V.

JAGELKOVÁ, M.: Roman Catholic Church: Cast in-Situ Reinforced Concrete Bearing Structure
Supervisor: BARTÓK, A.

JAKÚBEKOVÁ, K.: Concrete Bridge on D4 over the Danube River
Supervisor: HALVONÍK, J.

KIRKA, J.: Multi-Storey Parking Garage: Pre-Cast Concrete Structure
Supervisor: HOLLÝ, I.

KOCSISOVÁ, E.: Green Park - Vinohradis, Bratislava Apartment Building: Cast-in-Situ Reinforced Concrete Structure with Stiffening Cores
Supervisor: ABRAHOIM, I.

KOHÚT, M.: Incremental Bridge at Svrčinovec: Alternative Solution with Corrugated Steel Webs
Supervisor: PAULÍK, P.

KRAVEC, J.: Multifunctional Building: Cast-in-Situ RC Bearing Structure
Supervisor: BARTÓK, A.

LEPÁČEK, D.: Radar Tower: Reinforced Concrete Variant
Supervisor: ŠOLTÉSZ, J.

LIPTAI, P.: Egg-Shaped Prestressed Concrete Digestion Tank
Supervisor: ŠOLTÉSZ, J.

LUTTEROVÁ, P.: Use of Strengthening in a Multi-Storey Building
Supervisor: GAJDOŠOVÁ, K.

MAJERČÍK, J.: Incremental Bridge at Svrčinovec: Alternative Solution with Modified Geometry of the External Tendons After the Final Launch
Supervisor: PAULÍK, P.

MELEG, D.: Multifunctional Building: Cast-in-Situ Reinforced Concrete Structure
Supervisor: BORZOVIČ, V.

MIKULÁŠ, J.: Central Police Office in Bratislava: Multi-Storey RC Skeleton Structure with Stiffening Cores
Supervisor: HARVAN, I.

NÉMETH, Á.: Petržalka, Bratislava - Multifunctional Residential Building: Cast-in-Situ Reinforced Concrete Structure with Stiffening Cores
Supervisor: ABRAHOIM, I.

PAUHOF, L.: 3D Cinema: Cast-in-Situ Reinforced Concrete Structure
Supervisor: BARTÓK, A.

PLICOVÁ, M.: Multifunctional Building: Cast-in-Situ Reinforced Concrete Structure
Supervisor: BARTÓK, A.

RADOŠ, L.: Office Block: Suspended Structure
Supervisor: BENKO, V.

SALANCI, P.: Multifunctional Building: Cast-in-Situ Reinforced Concrete Structure
Supervisor: BORZOVIČ, V.

SALAY, F.: Integral Bridge on Highway D1, Section: Sverepec – Višňové
Supervisor: PAULÍK, P.

STOKLASOVÁ, M.: Concrete Bridge on D4 above Danube
Supervisor: HALVONÍK, J.

ŠTODER, M.: Multifunctional Building of a Circular Floor Plan Made from Concrete
Supervisor: BENKO, V.

ŠÚTHOVÁ, K.: Load-Bearing Structure of a Multifunctional Building
Supervisor: GRAMBLIČKA, Š.

TARČÁK, M.: 26-Storey High-Rise Building of an Administration Centre: Cast-in-Situ RC Structure with Flat Slabs and a Stiffening Core
Supervisor: HARVAN, I.

TEKÁČ, P.: Road Bridge: Post-Tensioned Cast-in-Situ Concrete Structure
Supervisor: BORZOVIČ, V.

TINKA, P.: High-Rise Building of a Residential Complex: Bearing Structure
Supervisor: GRAMBLIČKA, Š.

TODOROV, D.: 23-Storey High-Rise Residential Building: Cast-in-Situ RC Structure with Flat Slabs and a Stiffening Core
Supervisor: HARVAN, I.

2.3 Doctoral theses

FRÓLO, J.: Resistance of Composite Steel-Concrete Columns with a Solid Steel Core
Supervisor: GRAMBLIČKA, Š.

HRUŠOVSKÁ, A.: The Usage of a Plain Open-Shaped Profiled Sheet in a Composite Steel - Concrete Slabs
Supervisor: GRAMBLIČKA, Š.

PAŽMA, P.: Secondary Effects Due to Prestressing on Statically Indeterminate Structures at ULS
Supervisor: HALVONÍK, J.

3. RESEARCH

3.1 Research projects

Historical Experience and Current Requirements for the Design of Concrete Bridges and Knowledge Transfer of Information Acquired in Technical Practice (2013-2016, HALVONÍK, J.), APVV-0442-12

Reliability and Resistance of Concrete and Composite Steel-Concrete Structures (2014-2016, FILLO, L.), VEGA 1/0696/14

Analysis of Reliability Risks in the Design and Execution of Concrete Structures (2015-2017, BILČÍK, J.), VEGA /0583/15

Punching Resistance of Flat and Foundation Slabs and Footings (2016-18, HALVONÍK, J.), APVV 15-0658

Non-Metallic Reinforcement for Concrete Structures Made in Slovakia and Innovative Design Methods to Prevent the Progressive Collapse of Concrete Structures (2016-2020, BENKO, V.), APVV-15-0658

3.2 International cooperation

Cooperating institutions

Klokner Institute ČVUT Prague, Czech Republic

ETH – Laboratory for Building Materials, ETH Zurich, Switzerland

Baustoffinstitut, TU Munich, Germany

Institut für Baustatik und Konstruktion, ETH Zurich, Switzerland

Department of Civil and Materials Engineering, University of Illinois at Chicago, USA

RIB Bausoftware, Stuttgart, Germany

Betosan, s.r.o., Prague, Czech Republic

European Commission, DG Research, Brussels, Belgium

Imperia College for Science, Technology and Medicine, London, U.K.

St. Paul University, Brussels, Belgium

Fachhochschule Braunschweig – Wolfenbütel, Germany

Institut für Massivbau, TU Darmstadt, Germany

Fachhochschule Coburg, Germany

Membership in international professional organizations

BENKO, V.: Austrian Standard Institut. Standard Committees – ON-AG 01301, ON-AG 1011 01, ON-AG 010 01, ON-AG 176 02. ON-K 176, ON-K 010

BENKO, V.: ECEC European Council of Engineers Chamber

BENKO, V.: ECCE European Council of Civil Engineers

BENKO, V.: ASCE American Society of Civil Engineers

BILČÍK, J.: American Concrete Institute

BILČÍK, J. and GAJDOŠOVÁ, K.: TUD COST Action TU1207 – Management Committee WG 3: Next Generation Design Guidelines for Composites in Construction

FILLO, L.: CEN TC 250 – SC2 Eurocode: Design of Concrete Structures

FILLO, L.: Task Group fib TG 1.1 Design Application

FILLO, L.: Czech Concrete Society, Hradec Králové, Czech Republic

HALVONÍK, J.: CEN TC 250 SC1 Eurocodes

HALVONÍK, J.: CEN TC 250 Eurocodes

4. PUBLICATIONS

Journals

ABRAHOIM, I.: Local Stress of Reinforced Concrete Elements. In: Key Engineering Materials, ISSN 1013-9826. - Vol. 691 (2016), pp. 398-407 (in English)

BARTÓK, A.: Design of Concrete Slabs Reinforcement - Methods of FEM Results Interpretation Incorporating Twisting Moments. In: Key Engineering Materials, ISSN 1013-9826. - Vol. 691 (2016), pp. 388-397 (in English)

- BELLOVÁ, M.: Fire Walls Made from Concrete and Masonry - Barriers Against a Fire Spreading. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 408-419 (in English)
- BENKO, V. – KENDICKÝ, P. – GÚCKY, T.: Failure of Slender Concrete Columns of Loss of Stability. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 185-194 (in English)
- BILČÍK, J. – SONNENSCHNEIN, R. – GAJDOŠOVÁ, K.: Design and Execution of Watertight Concrete Constructions. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 209-219 (in English)
- BILČÍK, J. – ŠOLTÉSZ, J. – BAJZA, A.: Durability of Concrete Tanks for a Biogas Plant. In: *Beton. Technologie – Konstrukce – Sanace*, ISSN 1213-3116. - Vol. 16, No. 3 (2016), pp. 56-61 (in Slovak)
- BILČÍK, J. – SONNENSCHNEIN, R.: Measures for the Prevention of Early Age Cracking in a Base Plate. In: *Magazín stroje a mechanizácia*, ISSN 2453-7500. - Vol. 11, No. 6 (2016), pp. 36-38 (in Slovak)
- BILČÍK, J. – ŠOLTÉSZ, J.: Reliability of Concrete Tanks for Biogas Plants. In: *TZB-info.cz*, ISSN 1801-4399. - Vol. 18, No. 52 (2016), (online), p. 4 (in Slovak)
- BILČÍK, J.: The Best Concrete Structure in Slovakia. In: *Magazín stroje a mechanizácia*, ISSN 2453-7500. -Vol. 11, No. 6 (2016), p. 34 (in Slovak)
- BILČÍK, J. – ŠOLTÉSZ, J.: Causes of Failures in Concrete Tanks for a Biogas Plant. In: *Konstrukce*, ISSN 1213-8762. - Vol. 15, No. 6 (2016), pp. 56-58 (in Slovak)
- BORZOVIČ, V. – LACO, J. – PECNÍK, M. – PAŽMA, P.: The Crack Development Mechanism of Prestressed Girder Influenced by Different Bond Between Prestressed Tendons and Concrete. In: *Key Engineering Materials*, ISSN 1013-9826, Vol. 691 (2016), pp. 309-320 (in English)
- BORZOVIČ, V. – GAJDOŠOVÁ, K. – PECNÍK, M. – LACO, J.: The Cracking of Two-Span Girders Influenced by Decreased Bond of Prestressing Reinforcement. In: *Interdisciplinarity in Theory and Practice*, ISSN 2344-2409. - No. 11 (2016), (on-line), pp. 18-25 (in English)
- FILLO, L. – KNAPCOVÁ, V. – AUGUSTÍN, T.: Design of Slender Concrete Columns. In: *Key Engineering Materials*, ISSN 1013-9826 - Vol. 691 (2016), pp. 220-229 (in English)
- FRÓLO, J. – GRAMBLIČKA, Š.: Steel Core in Composite Steel-Concrete Columns. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 195-206 (in English)
- GRAMBLIČKA, Š. – HRUŠOVSKÁ, A.: Slenderness Influence on Behavior of Composite Columns. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 40-50 (in English)
- GRAMBLIČKA, Š. – ŽIVNER, T.: Failures and Repairs of Steel Bearing Structure of a Factory HARD Type. In: *Stavebné materiály*, ISSN 1336-7617. - Vol. 12, No. 6 (2016), pp. 54-56 (in Slovak)
- HALVONÍK, J. – PAŽMA, P. – GAJDOŠOVÁ, K.: Secondary Effects of Prestressing on Ultimate Loads. In: *Beton. Technologie – Konstrukce – Sanace*, ISSN 1213-3116. - Vol. 16, No. 3 (2016), pp. 68-74 (in Slovak)
- HOLLÝ, I. – BILČÍK, J. – KESELI, O. – GAŽOVIČOVÁ, N.: Bond of GFRP Reinforcement with Concrete. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 356-365 (in English)
- HOLLÝ, I. – HARVAN, I.: Connections in Precast Concrete Elements. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 376-387 (in English)
- HUDOBA, I.: Composite C-C Columns by Utilizing of UHPFRC. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 108-118 (in English)
- HUDOBA, I.: Application of Fibre-Reinforced Concrete in Civil Engineering Structures. In: *Inžinierske stavby*, ISSN 1335-0846. - Vol. 64, No. 3 (2016), pp. 62-64 (in Slovak)
- IGNAČÁK, M. – ŠOLTÉSZ, J.: Influence of Different Factors on Formation of Cracks on the Foundation Slabs, Concrete Pavements and Industrial Floors at an Early Stage - Parametric Study. In: *Key Engineering Materials*, ISSN 1013-9826. -Vol. 691, (2016), pp. 129-137 (in English)
- JANOTKA, I. – PAULÍK, P. – ŠEVČÍK, P. – BAČUVČÍK, M.: Physical and Chemical State of Concrete Piers of the Former Franz Joseph Bridge Built in 1891. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 297-308 (in English)
- JURÍČEK, I. – FILLO, L.: Minimisation of Water Content in Concrete. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 230-238 (in English)
- LACO, K. – BORZOVIČ, V.: Influence of Creep and Shrinkage on the Stress State of a Bridge Structure. In: *Inžinierske stavby*, ISSN 1335-0846. - Vol. 64, No. 1 (2016), pp. 53-56 (in Slovak)
- LACO, K. – BORZOVIČ, V. – GAJDOŠOVÁ, K.: Nonlinear Response of Approach Slab on Cyclic Loading. In: *Key Engineering Materials*, ISSN 1013-9826. -Vol. 691 (2016), pp. 73-85 (in English)
- MAJTÁNOVÁ, L. – HANZEL, J. – HALVONÍK, J.: Experimental Verification of Maximum Punching Shear Resistance. In: *Interdisciplinarity in Theory and Practice*, ISSN 2344-2409. -No. 10 (2016), (online), pp. 217-222 (in English)
- MATIAŠKOVÁ, L. – ŠOLTÉSZ, J.: Developments and Their Current State in the Production of Biogas Plants in Slovakia. In: *Odpadové hospodárstvo*, ISSN 1338-595X. - Vol. 5, No. 11 (2016), pp. 14-16 (in Slovak)
- PAULÍK, P.: Innovative Bridge Construction Technologies: Part I. In: *Inžinierske stavby*, ISSN 1335-0846. - Vol. 64, No. 1 (2016), pp. 45-47 (in Slovak)
- PAULÍK, P.: Deterioration of Concrete by Leaching in Conditions of Long-Term Bending Performance - Simplified Theoretical Approach. In: *Key Engineering Materials*, ISSN 1013-9826. - Vol. 691 (2016), pp. 28-39 (in English)

PAULÍK, P. – CHANDOGA, M.: The fib in Slovakia. In: Structural Concrete, ISSN 1464-4177. - Vol. 17, No. 2 (2016), pp. 298-299 (in English)

PAULÍK, P.: Innovative Bridge Construction Technologies: Part II. In: Inžinierske stavby, ISSN 1335-0846. - Vol. 64, No. 2 (2016), pp. 24-25 (in Slovak)

PAULÍK, P. – BAČUVČÍK, M. – ŠEVČÍK, P. – JANOTKA, J.: Material Properties of Seven More-than-100-Years-Old Concrete Bridges. In: Beton. Technologie – Konstrukce – Sanace, ISSN 1213-3116. - Vol. 16, No. 6 (2016), pp. 50-56 (in Slovak)

PAŽMA, P. – BORZOVIČ, V. – HALVONÍK, J.: Secondary Effects of Prestressing at ULS on Hyperstatic Structures. In: Key Engineering Materials, ISSN 1013-9826. - Vol. 691 (2016), pp. 138-147 (in English)

SONNENSCHIN, R. – BILČÍK, J. – GAJDOŠOVÁ, K.: Parameter Analysis of the Reinforcement for the Width and Spacing Control of the Early-Age Cracks in Concrete. In: Key Engineering Materials, ISSN 1013-9826. - Vol. 691 (2016), pp. 14-27 (in English)

Conference Proceedings

ABRAHOIM, I.: The Calculation of Time Dependent Prestress Losses for Pre- and Post-Tensioning. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, Nov. 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 155-159 (in English)

ABRAHOIM, I. – BOČEK, J. – BAJI, C. – VARGA, Á.: Static Analysis of the Structural Modifications of a Panel House in Ružinov. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 345-350 (in Slovak)

ABRAHOIM, I. – HARVAN, I.: Calculating Wind Effects When Designing Multi-Storey and High-Rise Concrete Buildings. In: Proceedings of 23rd Concrete Days 2016 Conference, Litomyšl, Czech Republic, 30.11.- 1.12. 2016, 1. ed. Prague: Czech Concrete Society ČSSI, 2016, [Electronic Source], ISBN 978-80-906097-6-1, p. 8 (in Slovak)

AUGUSTÍN, T. – FILLO, L. – BARTÓK, A.: Influence of Unbalanced Bending Moments on Punching Resistance of Flat Slabs. In: Book of full texts of 22nd international conference on Engineering Mechanics 2016, Svatka, Czech Republic, 9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. - pp. 33-36 (in English)

AUGUSTÍN, T. – FILLO, L.: Punching - Brittle and Sudden Way of Concrete Structures Failing. In: ESaT 2016: Proceedings of the 2nd international conference on Engineering Sciences and Technologies, Tatranské Matliare, Slovak Republic, 29.6. – 1.7. 2016, Košice: Technical University of Košice, Faculty of Civil Engineering, 2016. - [CD-ROM], ISBN 978-80-553-2564-4. - p. 4 (in English)

BELLOVÁ, M.: Analysis of Time of Fire Classification of Walls Depending on Their Thickness. In: Proceedings of 11th Concrete Days 2016 Conference,

Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 337-342 (in Slovak)

BENKO, V. – FILLO, L. – KENDICKÝ, P. – KNAPCOVÁ, V.: Experimental and Numerical Analysis of Concrete Slender Columns by Stability Failure. In: Applied Mechanics and Materials: Selected, peer reviewed papers from the 21st international conference on Engineering Mechanics 2015, Svatka, Czech Republic, 11. - 14. 5. 2015. Vol. 821 (2016). - ISSN 1660-9336, pp. 747-752 (in English)

BENKO, V. – GÚCKY, T. – KENDICKÝ, P. – ČUHÁK, M.: Experimental Analysis of Slender HPC Columns at the Stability Failure. In: Influence of Unbalanced Bending Moments on Punching Resistance of Flat Slabs. In: Book of full texts of 22nd international conference on Engineering Mechanics 2016, Svatka, Czech Republic, 9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. - pp. 57-60 (in English)

BENKO, V. – GÚCKY, T. – VALAŠÍK, A.: The Overall Reliability of Slender Concrete Columns at the Stability Failure. In: ESaT 2016: Proceedings of the 2nd international conference on Engineering Sciences and Technologies, Tatranské Matliare, Slovak Republic, 29.6. – 1.7. 2016, Košice: Technical University of Košice, Faculty of Civil Engineering, 2016. - [CD-ROM], ISBN 978-80-553-2564-4. - p. 4 (in English)

BILČÍK, J. – ŠOLTÉSZ, J.: Errors and Failures of Concrete Tanks for a Biogas Plant. In: Proceedings of 26th international Symposium on Repair of Concrete Structures 2016, Brno, Czech Republic, 18.-20.5.2016, Association for Repair of Concrete Structures, Brno, 2016. - ISBN 978-80-214-5340-1. - pp. 43-49 (in Slovak)

BILČÍK, J. – SONNENSCHIN, R.: Measures to Restrict the Formation of Separation Cracks in Foundation Slabs Due to Temperature Changes. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 239-244 (in Slovak)

BILČÍK, J. – HOLLÝ, I.: Structural Evaluation of Reinforced Concrete Industrial Chimneys. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 357-362 (in Slovak)

BORZOVIČ, V. – GAJDOŠOVÁ, K. – PECNÍK, M. – LACO, J.: Crack Width and Crack Spacing of Prestressed Girders Influenced by Decreased Bond of Tendons. In: ESaT 2016: Proceedings of the 2nd international conference on Engineering Sciences and Technologies, Tatranské Matliare, Slovak Republic, 29.6. – 1.7. 2016, Košice: Technical University of Košice, Faculty of Civil Engineering, 2016. - [CD-ROM], ISBN 978-80-553-2564-4. - p. 4 (in English)

BRODŇAN, M. – KOTEŠ, P. – BAHLEDA, F. – VIČAN, J. – PAULÍK, P. – BAČUVČÍK, M.: Evaluation of Material Properties of the Arch Bridge in Krásno nad Kysucou. In: Procedia Engineering: 9th international conference on Bridges in Danube Basin 2016, Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156. - [online] 2016, ISSN 1877-7058. - pp. 62-68 (in English)

- FILLO, L. – AUGUSTÍN, T. – HANZEL, J. – KNAPCOVÁ, V.: Punching Resistance of Flat Slabs. In: Applied Mechanics and Materials: Selected, peer reviewed papers from the 21st international conference on Engineering Mechanics 2015, Svatka, Czech Republic, 11. - 14. 5. 2015. Vol. 821 (2016). - ISSN 1660-9336. - pp. 761-766 (in English)
- FILLO, L. – KNAPCOVÁ, V. – AUGUSTÍN, T.: Verification of Concrete Slender Columns Resistance. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, Nov. 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 185-190 (in English)
- FILLO, L. – AUGUSTÍN, T. – KNAPCOVÁ, V. – LABUDKOVÁ, J.: Punching Resistance Verification of Footings. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, Nov. 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 179-184 (in English)
- FILLO, L. – AUGUSTÍN, T. – KNAPCOVÁ, V. – LABUDKOVÁ, J.: Influence of Footings Stiffness on Punching Resistance. In: Proceedings of the 1st international Czech-China scientific conference on Perspectives in Science 2015, Ostrava, Czech Republic, 7. 10. 2015. Vol. 7. - [online] 2016, ISSN 2213-0209. - pp. 204-207 (in English)
- FILLO, L. – KNAPCOVÁ, V. – ČUHÁK, M.: Analysis of Concrete Slender Columns Design. In: ESaT 2016: Proceedings of the 2nd international conference on Engineering Sciences and Technologies, Tatranské Matliare, Slovak Republic, 29.6. – 1.7. 2016, Košice: Technical University of Košice, Faculty of Civil Engineering, 2016. - [CD-ROM], ISBN 978-80-553-2564-4. - p. 4 (in English)
- FILLO, L. – AUGUSTÍN, T.: Punching Resistance of Footings. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 265-270 (in Slovak)
- FILLO, L. – AUGUSTÍN, T. – BARTÓK, A. – KESELI, O.: Resistance of Flat Slabs. In: Proceedings of 23rd Concrete Days 2016 Conference, Litomyšl, Czech Republic, 30.11.- 1.12. 2016, 1. ed. Prague: Czech Concrete Society ČSSI, 2016, [Electronic Source], ISBN 978-80-906097-6-1. -6 p. (in Slovak)
- FRÓLO, J.: Experimental and Numerical Analysis of Composite Steel-Concrete Columns with a Steel Core. In: Juniorstav 2016: 18th scientific conference of PhD Students with international participation, Brno, Czech Republic, 28.1.2016, 1. ed. Faculty of Civil Engineering, VUT Brno, 2016. - [CD-ROM], ISBN 978-80-214-5311-1. - p. 8 (in Slovak)
- FRÓLO, J. – GRAMBLIČKA, Š.: The Steel Core Covered by Reinforced Concrete in the Composite Steel-Concrete Columns. : Influence of Unbalanced Bending Moments on Punching Resistance of Flat Slabs. In: Book of full texts of 22nd international conference on Engineering Mechanics 2016, Svatka, Czech Republic, 9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. -pp. 157-160 (in English)
- FRÓLO, J. – GRAMBLIČKA, Š.: Design of Composite Steel and Concrete Columns with the Cross-Section of the Steel Core Covered by Reinforced Concrete. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 181-186 (in Slovak)
- GAŽOVIČOVÁ, N. – BILČÍK, J. – HOLLÝ, I.: Calculation of Crack Width in GFRP Reinforced Concrete Members. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 217-220 (in Slovak)
- GRAMBLIČKA, Š.: Failures of Bearing Structures and Their Influence on the Safety of Buildings. In: Proceedings of 21st Conference on Statics of Buildings 2016, Piešťany, Slovak Republic, 10.-11.3.2016. 1st ed. Bratislava: Association of Structural Engineers of Slovakia, 2016, ISBN 978-80-89842-00-1, pp. 46-49 (in Slovak)
- GRAMBLIČKA, Š. – ŽIVNER, T.: Failures of the Bearing Structure of the Factory HARD Type. In: Proceedings of 21st Conference on Statics of Buildings 2016, Piešťany, Slovak Republic, 10.-11.3.2016. 1st ed. Bratislava: Association of Structural Engineers of Slovakia, 2016, ISBN 978-80-89842-00-1.- pp. 117-120 (in Slovak)
- GRAMBLIČKA, Š. – ŽIVNER, T.: Repairs of Steel Structures After Long-Term Use in Aggressive Environment. In: Key Engineering Materials: Proceedings of the 17th Conference on the Rehabilitation and Reconstruction of Buildings (CRRB 2015). Vol. 714 (2016). - ISSN 1013-9826. - pp. 213-220 (in English)
- GRAMBLIČKA, Š. – ŽIVNER, T. – FRÓLO, J.: Design and Assessment of Composite Steel and Concrete Cross-Section for the Bridge Pillar of a Bridge over the Danube in Bratislava. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9.- pp. 193-198 (in Slovak)
- GRAMBLIČKA, Š. – FRÓLO, J.: Composite Steel - Reinforced Concrete Columns for High-Rise Buildings. In: Proceedings of Performance-Based Approaches for Concrete Structures: Cape Town, South Africa, Nov. 21-23, 2016. 1. ed. Lausanne: Fédération Internationale du Béton (fib), 2016.- [CD-ROM], ISBN 978-2-88394-121-2, p. 10 (in English)
- HALVONÍK, J. – HANZEL, J. – MAJTÁNOVÁ, L.: Punching Resistance of Foundation Slabs and Footings. In: Proceedings of Performance-Based Approaches for Concrete Structures: Cape Town, South Africa, Nov. 21-23, 2016. 1. ed. Lausanne: Fédération Internationale du Béton (fib), 2016.- [CD-ROM], ISBN 978-2-88394-121-2.- p. 7 (in English)
- HALVONÍK, J. – HANZEL, J. – MAJTÁNOVÁ, L.: Reliability of the Models for Assessment of Punching Resistance of Footings. In: ESaT 2016: Proceedings of the 2nd international conference on Engineering Sciences and Technologies, Tatranské Matliare, Slovak Republic, 29.6. – 1.7. 2016, Košice: Technical University of Košice, Faculty of Civil Engineering, 2016.- [CD-ROM], ISBN 978-80-553-2564-4. - p. 4 (in English)

- HANZEL, J. – MAJTÁNOVÁ, L. – HALVONÍK, J.: Safety Evaluation of EC2 and MC 2010 Models for Assessment of Punching Resistance of Footings. In: Applied Mechanics and Materials: Selected, peer reviewed papers from the 21st international conference on Engineering Mechanics 2015, Svatka, Czech Republic, 11. - 14. 5. 2015. Vol. 821 (2016). - ISSN 1660-9336. - pp. 703-708 (in English)
- HANZEL, J.: Determination of the Punching Shear Resistance of Foundation Footings by Various Calculation Procedures. In: Juniorstav 2016: 18th scientific conference of PhD Students with international participation, Brno, Czech Republic, 28.1.2016, 1. ed. Faculty of Civil Engineering, VUT Brno, 2016.- [CD-ROM], ISBN 978-80-214-5311-1. - p. 8 (in Slovak)
- HOLLÝ, I. – BILČÍK, J.: Modeling of Reinforcement Corrosion in Concrete. : Influence of Unbalanced Bending Moments on Punching Resistance of Flat Slabs. In: Book of full texts of 22nd international conference on Engineering Mechanics 2016, Svatka, Czech Republic, 9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. - pp. 205-208 (in English)
- HOLLÝ, I. – BILČÍK, J. – GAJDOŠOVÁ, K.: Numerical Modeling of Reinforcement Corrosion on Bond Behaviour. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, November 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 191-196 (in English)
- HRUŠOVSKÁ, A. – GRAMBLIČKA, Š.: The Usage of Smooth Open-Shaped Profiled Sheet in a Composite Steel-Concrete Slab. In: Book of full texts of 22nd international conference on Engineering Mechanics 2016, Svatka, Czech Republic, 9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. - pp. 221-224 (in English)
- HRUŠOVSKÁ, A. – GRAMBLIČKA, Š.: Composite Steel-Concrete Slab Containing Smooth Thin-Walled Sheet. In: ESaT 2016: Proceedings of the 2nd international conference on Engineering Sciences and Technologies, Tatranské Matliare, Slovak Republic, 29.6. – 1.7. 2016, Košice: Technical University of Košice, Faculty of Civil Engineering, 2016.- [CD-ROM], ISBN 978-80-553-2564-4. - p. 4 (in English)
- HRUŠOVSKÁ, A. – GRAMBLIČKA, Š.: Composite Slabs Formed with the Smooth Open Profiled Steel Sheeting. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 187-192 (in Slovak)
- HUDOBA, I.: The Factors Influencing the Utilization of Fibre Reinforced Concrete in Load-Bearing Constructions. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 255-260 (in Slovak)
- JANOTKA, I. – BAČUVČÍK, M. – PETHŐ, D. – PAULÍK, P.: Assessment of Concrete and Steel Reinforcement Properties of a 100-Year-Old Reinforced Concrete Truss Bridge Girder. In: Monografie technologii betonu: IX. konferencja Dni betonu. Wisla, Poland, Oct. 10-12, 2016. 1. ed. Kraków: Stowarzyszenie Producentów Cementu, 2016. - ISBN 978-83-61331-24-7. - pp. 493-508 (in English)
- JANOTKA, I. – BAČUVČÍK, M. – ŠEVČÍK, P. – PAULÍK, P.: Physical and Chemical State of 124-Years Old Reinforced Concrete Bridge. In: Monografie technologii betonu: 9th konferencja Dni betonu. Wisla, Poland, Oct. 10-12, 2016. 1. ed. Kraków: Stowarzyszenie Producentów Cementu, 2016. - ISBN 978-83-61331-24-7. - pp. 509-524 (in English)
- KENDICKÝ, P.: Stability Failure of Concrete Columns. In: Juniorstav 2016: 18th scientific conference of PhD Students with international participation, Brno, Czech Republic, 28.1.2016, 1. ed. Faculty of Civil Engineering, VUT Brno, 2016.-[CD-ROM], ISBN 978-80-214-5311-1. - p. 6 (in Slovak)
- KENDICKÝ, P. – BENKO, V. – GÚCKY, T.: Experimental Analysis of Slender Concrete Columns at the Loss of Stability. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, Nov. 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 203-208 (in English)
- KESELI, O. – BILČÍK, J.: Deformation of a Flat Slab During Strengthening Against Punching Shear. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016.- ISBN 978-80-227-4622-9. - pp. 369-374 (in Slovak)
- KESELI, O.: Strengthening of Flat Slabs Against Punching Shear Using Concrete Screws. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovak Republic, Oct. 26, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016.- [CD-ROM], ISBN 978-80-227-4645-8. - pp. 347-352 (in Slovak)
- LACO, K. – BORZOVIČ, V.: Reliability of Approach Slabs and Modelling of Transition Zones of Bridge. In: Applied Mechanics and Materials: Selected, peer reviewed papers from the 21st international conference on Engineering Mechanics 2015, Svatka, Czech Republic, 11. - 14. 5. 2015. Vol. 821 (2016). - ISSN 1660-9336. - pp. 741-746 (in English)
- LACO, K.: Fatigue Resistance of an Approach Slab Using a Simply Supported Structural Scheme. In: Juniorstav 2016: 18th scientific conference of PhD Students with international participation, Brno, Czech Republic, 28.1.2016, 1. ed. Faculty of Civil Engineering, VUT Brno, 2016.- [CD-ROM], ISBN 978-80-214-5311-1. - p. 8 (in Slovak)
- LACO, K. – BENKO, V.: Nonlinear Deflection and Its Comparison with a Geodetic Survey. In: Proceedings of 21st Conference on Statics of Buildings 2016, Piešťany, Slovak Republic, 10.-11.3.2016. 1st ed. Bratislava: Association of Structural Engineers of Slovakia, 2016.- ISBN 978-80-89842-00-1.- pp. 85-98 (in Slovak)
- LACO, K. – BORZOVIČ, V.: Numerical Analysis of the Approach Slab Experiment for Parametrical Study. In: Book of full texts of 22nd international conference on Engineering Mechanics 2016, Svatka, Czech Republic,

9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. - pp. 341-344 (in English)

LACO, K. – BORZOVIČ, V.: Design of Approach Slab of Road Bridges. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, Nov. 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 215-220 (in English)

LACO, K. – BORZOVIČ, V.: Design and Principles of Construction of Approach Slabs in Slovakia and Abroad. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - ISBN 978-80-227-4622-9. - pp. 307-312 (in Slovak)

LACO, K.: Change in the Structural Scheme of an Approach Slab in Laboratory Conditions. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovak Republic, Oct. 26, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - [CD-ROM], ISBN 978-80-227-4645-8. - pp. 353-358 (in Slovak)

LACO, K. – BORZOVIČ, V.: Approach Slab Experiment - Set up and Design. In: Proceedings of 23rd Concrete Days 2016 Conference, Litomyšl, Czech Republic, 30.11.- 1.12. 2016, 1. ed. Prague: Czech Concrete Society ČSSI, 2016, [Electronic Source], ISBN 978-80-906097-6-1. - p. 7 (in Slovak)

LIPTAI, P. – ŠOLTÉSZ, J. – MATIAŠKOVÁ, L.: Egg-Shaped Pre-Stressed Concrete Digestion Tank. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - ISBN 978-80-227-4622-9. - pp. 325-330 (in Slovak)

MAJTÁNOVÁ, L. – HANZEL, J. – HALVONÍK, J.: Evaluation of Safety of Models for Assessment of the Punching Shear Resistance of Flat Slabs Without Shear Reinforcement. In: Book of full texts of 22nd international conference on Engineering Mechanics 2016, Svatka, Czech Republic, 9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. -pp. 361-364 (in English)

MAJTÁNOVÁ, L. – HANZEL, J. – HALVONÍK, J.: The Maximum Punching Shear Resistance. In: ESaT 2016: Proceedings of the 2nd international conference on Engineering Sciences and Technologies, Tatranské Matliare, Slovak Republic, 29.6. – 1.7. 2016, Košice: Technical University of Košice, Faculty of Civil Engineering, 2016. - [CD-ROM], ISBN 978-80-553-2564-4. - p. 4 (in English)

MAJTÁNOVÁ, L. – HALVONÍK, J.: Determination of Maximum Punching Shear Resistance. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - ISBN 978-80-227-4622-9. - pp. 271-276 (in Slovak)

MAJTÁNOVÁ, L.: Determination of the Maximum Punching Capacity of Flat Slabs. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovak Republic, Oct. 26, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - [CD-ROM], ISBN 978-80-227-4645-8. - pp. 359-364 (in Slovak)

MAJTÁNOVÁ, L. – HALVONÍK, J. - HANZEL, J.: The Maximum Punching Capacity. In: Proceedings of 23rd Concrete Days 2016 Conference, Litomyšl, Czech Republic, 30.11.- 1.12. 2016, 1. ed. Prague: Czech Concrete Society ČSSI, 2016, [Electronic Source], ISBN 978-80-906097-6-1. -6 p. (in Slovak)

MARČIŠ, M. – FRAŠTIA, M. – TRHAN, O. – HRUŠOVSKÁ, A.: Digital Photogrammetry in the Testing of Construction Elements. In: Proceedings of Surveying in Civil Engineering and Industry. Brno, Czech Republic, 21. 4. 2016. 1. ed. Prague: Czech Association of Geodesists and Cartographers, 2016. -ISBN 978-80-02-02656-3. - pp. 32-38 (in Slovak)

MATIAŠKOVÁ, L. – IGNAČÁK, M. – ŠOLTÉSZ, J.: Thermodynamic Analysis of a Selected Detail in a Waterproof Concrete Basement Structure Using an Experimentally Verified Computing Model. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - ISBN 978-80-227-4622-9. - pp. 319-324 (in Slovak)

MATIAŠKOVÁ, L.: Modeling and Crack Assessment of a Waterproof Concrete Underground Structure at an Early Age. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovak Republic, October 26, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - [CD-ROM], ISBN 978-80-227-4645-8. - pp. 365-370 (in Slovak)

PAULÍK, P. – HUDOBA, I. – ŠEVČÍK, P.: Effect of Axial Stress on Air Permeability of HPFRC. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, Nov. 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 46-51 (in English)

PAULÍK, P. – BAČUVČÍK, M. – ŠEVČÍK, P. – JANOTKA, I. – GAJDOŠOVÁ, K.: Experimental Evaluation of Properties of 120 Years Old Concretes at Two Concrete Bridges in Slovakia. In: Solid State Phenomena: Selected, peer reviewed papers from the 22nd international conference on Concrete Days 2015, Litomyšl, Czech Republic, Nov. 25-26, 2015. Vol. 249 (2016). - ISSN 1012-0394. - pp. 227-234 (in English)

PAULÍK, P. – ŠEVČÍK, P. – BAČUVČÍK, M. – JANOTKA, I.: Materials Properties of the Oldest Reinforced Concrete Bridges Selected in Slovakia. In: Proceedings of 11th Concrete Days 2016 Conference, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016. - ISBN 978-80-227-4622-9. - pp. 401-408 (in Slovak)

- PAULÍK, P. – BAČUVČÍK, M. – ŠEVČÍK, P. – JANOTKA, I.: Material Properties and Carbonation Depths Measured on Seven More than a 100 Years Old Concrete Bridges in Slovakia. In: *Procedia Engineering: 9th international conference on Bridges in Danube Basin 2016*, Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156.- [online] 2016, ISSN 1877-7058. - pp. 326-333 (in English)
- PAULÍK, P. – BAČUVČÍK, M. – BRODŇAN, M. – KOTEŠ, P. – VIČAN, J.: Reconstruction of the Oldest Reinforced Concrete Bridge in Slovakia in Krásno nad Kysoucou. In: *Procedia Engineering: 9th international conference on Bridges in Danube Basin 2016*, Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156.- [online] 2016, ISSN 1877-7058. - pp. 334-339 (in English)
- PAULÍK, P. – BAČUVČÍK, M. – ŠEVČÍK, P. – JANOTKA, I.: Material Properties Study of Seven 100-Years Old Concrete Bridges in Slovakia. In: *Proceedings on Performance-Based Approaches for Concrete Structures: Cape Town, South Africa, Nov. 21-23, 2016*. 1. ed. Lausanne: Fédération Internationale du Béton (fib), 2016.- [CD-ROM], ISBN 978-2-88394-121-2, p. 10 (in English)
- PAŽMA, P. – LABUDKOVÁ, J. – HALVONÍK, J.: Experimental Verification of Secondary Effects of Prestressed Beam at ULS. In: *Proceedings of the 1st international Czech-China scientific conference on Perspectives in Science 2015*, Ostrava, Czech Republic, 7. 10. 2015. Vol. 7.- [online] 2016, ISSN 2213-0209. - pp. 282-286 (in English)
- PAŽMA, P. – HALVONÍK, J. – BORZOVIČ, V.: Secondary Effect of Prestressing at ULS. In: *Proceedings on Performance-Based Approaches for Concrete Structures: Cape Town, South Africa, Nov. 21-23, 2016*. 1. ed. Lausanne: Fédération Internationale du Béton (fib), 2016.- [CD-ROM], ISBN 978-2-88394-121-2.- p. 8 (in English)
- PECNÍK, M.: Influence of the Surrounding Soil on Deformations of Laterally Loaded Piles. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. Bratislava, Slovak Republic, Oct. 26, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016.- [CD-ROM], ISBN 978-80-227-4645-8. - pp. 384-389 (in Slovak)
- PECNÍK, M. – LACO, K. – BORZOVIČ, V.: Nonlinear Analysis of Transition Areas of Integral Bridges. In: *Proceedings of 23rd Concrete Days 2016 Conference*, Litomyšl, Czech Republic, 30.11.- 1.12. 2016, 1. ed. Prague: Czech Concrete Society ČSSI, 2016, [Electronic Source], ISBN 978-80-906097-6-1. - p. 6 (in Slovak)
- SONNENSCHN, R. – BILČÍK, J. – GAJDOŠOVÁ, K.: Crack Width Control in Concrete Structures with FRP Reinforcement. In: *Book of full texts of 22nd international conference on Engineering Mechanics 2016*, Svratka, Czech Republic, 9. - 12. 5. 2016, 1st. ed. Prague: Institute of Thermomechanics, Academy of Sciences of the Czech Republic, 2016. - ISBN 978-80-87012-59-8. -pp. 517-520 (in English)
- SONNENSCHN, R. – GAJDOŠOVÁ, K. – HOLLÝ, I.: FRP Composites and Their Using in the Construction of Bridges. In: *Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016*. Prague, Czech Republic, 13. - 17. 6. 2016, Vol. 161.- [online] 2016, ISSN 1877-7058. - pp. 477-482 (in English)
- VALAŠÍK, A.: Preliminary Design of Pre-Tensioned Concrete Slabs with GFRP Reinforcement. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. Bratislava, Slovak Republic, October 26, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016.- [CD-ROM], ISBN 978-80-227-4645-8. - pp. 412-416 (in Slovak)
- VIDA, R. – HALVONÍK, J.: Shear Resistance of Bridge Slabs with Concentrated Loads. In: *Proceedings of 11th Concrete Days 2016 Conference*, Bratislava, Slovak Republic, Oct. 20-21, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016.- ISBN 978-80-227-4622-9. - pp. 261-296 (in Slovak)
- VIDA, R.: Shear Resistance Analysis of Bridge Slabs under Concentrated Loads. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. Bratislava, Slovak Republic, Oct. 26, 2016, 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016.- [CD-ROM]d, ISBN 978-80-227-4645-8. - pp. 417-423 (in Slovak)
- VIDA, R. – HALVONÍK, J.: Shear Resistance of Existing Concrete Bridges. In: *Procedia Engineering: 9th international conference on Bridges in Danube Basin 2016*, Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156.- [online] 2016, ISSN 1877-7058. - pp. 515-522 (in English)
- VIDA, R. – HALVONÍK, J.: Shear Resistance of Slabs under Local Loads. In: *Proceedings of 23rd Concrete Days 2016 Conference*, Litomyšl, Czech Republic, 30.11.- 1.12. 2016, 1. ed. Prague: Czech Concrete Society ČSSI, 2016, [Electronic Source], ISBN 978-80-906097-6-1. - p. 7 (in Slovak)

DEPARTMENT OF TRANSPORTATION ENGINEERING

Head of Department

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Airport Planning and Design

Bachelor Thesis

Design and Realization of Road

Design Studio of Urban Planning I

Design Studio of Urban Planning II

Design Studio of Spatial Planning

Diploma Thesis

Ecology of Urban Settlements and Urban Transportation Design

Environmental Transport

Excursion

Modeling of Transport Structures

Pavement Diagnosis and Reconstruction

Pavement Mechanics

Project: Road Constructions

Railway

Road Construction

Road Construction Quality Assessing

Roads and Motorways

Roads in Urban Areas

Road Intersections

Territorial Transport Systems

Town and Land Use Planning

Traffic Management

Transport Structure Engineering

Transportation Planning

Urban Roads and Infrastructure

Obligatory elective subjects

Design and Realization of a Transport Infrastructure

Ecology of Urban Settlements and Urban Transportation Planning

Project II

Project II: Transport Infrastructure

Selected Chapters on Roads and Motorways

Special Lectures of Transportation Structures

Technology of Engineering Construction

Transport Construction

Urban Transportation Planning

Urban Planning I

2. THESES

2.1 Bachelor theses

There were 8 works.

2.2 Graduate theses

RICHARD, L.: The Need to Modify the Characteristics of a Temperature Regime for Road Calculations

Supervisor: BAČOVÁ, K.

TRENČSIK, J.: Study of R7 Expressway in the Holic - Dunajská Streda Section

Supervisor: BAČOVÁ, K.

PETROVIČ, M.: The Effect of Congestion and Its Effect on the Structural Design of a Pavement

Supervisor: BAČOVÁ, K.

ŠTAFEN, J.: Assessment of Road Safety in the Trenčín Region

Supervisor: KAPUSTA, V.

STANČÍK, P.: The Impact of an Aggregate Type on the Mechanical Properties of CBGM

Supervisor: ČÁPAYOVÁ, S.

BRANIŠ, M.: Technical Requirements of an Airport's Paved Movement Areas

Supervisor: ZUZULOVÁ, A.

BRČÁK, L.: The Structural Design of Concrete Pavements on the I/65

Turčianske Teplice - Príbovce Road

Supervisor: ZUZULOVÁ, A.

BUDINSKÝ, Ľ.: Effects of the Climatic Conditions in the Design of Road Constructions

Supervisor: ZUZULOVÁ, A.

RAJT, S.: Reconstruction of the Road Traffic from Kostolná pri Dunaji – Hrubá Borša

Supervisor: ZUZULOVÁ, A.

CMEROVÁ, D.: Design of a Transport Model for an Industrial Park in Nitra

Supervisor: SCHLOSSER, T.

DROBNÝ, L.: Kollárova - Hospodárska overpass Intersection in Trnava

Supervisor: NEMČEK, M.

JELÍNEK, F.: Effect of Vision from a Motor Vehicle on Projection Parameters

Supervisor: NEMČEK, M.

3. RESEARCH

3.1 International cooperation

Bauhaus-University Weimar, Weimar, Germany

Cologne University of Applied Science, Cologne, Germany

Czech Technical University in Prague, Faculty of Civil Engineering, Prague, Czech Republic

Czech Technical University in Prague, Faculty of Transportation Sciences, Prague, Czech Republic

Hellenic Institute of Transport, Thessaloniki, Greece

Institute for Transport Studies, Department of Landscape, Spatial and Infrastructure Sciences, BOKU, Vienna, Austria

Cracow University of Technology, Faculty of Civil Engineering, Cracow, Poland

Széchenyi István University, Department of Transportation Infrastructure and Municipal Engineering, Győr, Hungary

University of Maribor, Faculty of Civil Engineering, Department of Transportation Engineering, Maribor, Slovenia

University of Pardubice, Jan Perner Transport Faculty, Pardubice, Czech Republic

Vienna University of Technology, Faculty of Civil Engineering, Institute of Transportation, Vienna, Austria

Vilnius Gediminas Technical University, Faculty of Transport Engineering, Vilnius, Lithuania

VŠB-Technical University of Ostrava, Faculty of Civil Engineering, Ostrava, Czech Republic

Wroclaw University of Technology, Faculty of Civil Engineering, Institute of Building Engineering, Wroclaw, Poland

Membership in international professional organizations

BEZÁK, B.: Member of the PIARC - TC 3.2 Design and Operation of Safer Road Infrastructure, Paris, France

BEZÁK, B.: Member of the Editorial Board – Acta Technica Jaurinensis, Győr, Hungary

CÁPAYOVÁ, S.: Member of the Editorial Board – Drogownictwo, ISSN: 0012-6357, Warsaw, Poland

CÁPAYOVÁ, S.: Member of the Scientific Committee - International Journal of Advanced Information Science and Technology (IJAIST), ISSN 2319-2682, online magazine

CÁPAYOVÁ, S.: Member of the PIARC – TC D.2 Pavements, Paris, France

GSCHWENDT, I.: Member of the PIARC – TC D.2 Pavements, Paris, France

GSCHWENDT, I.: Member of the Editorial Board – Silniční obzor, Prague

GSCHWENDT, I.: Member of the Editorial Board – Inžinierske stavby, Slovakia

GSCHWENDT, I.: The American Bibliographical Institute: Research Board of Advisors

GSCHWENDT, I.: Czech Association for Mechanics, ČSM Prague, Czech Republic

GSCHWENDT, I.: Slovak Chamber of Civil Engineers, Slovakia

SCHLOSSER, T.: Member of the Scientific Committee - International Journal of Advanced Information Science and Technology (IJAIST), ISSN 2319-2682, online magazine

SCHLOSSER, T.: Deputy of Slovak Chamber of Civil Engineers in IFME (International Federation of Municipal Engineering), Slovakia

ZUZULOVÁ, A.: Member of the Editorial Board - Przegląd komunikacyjny, ISSN 0033-22-32, Wroclaw, Poland

ZUZULOVÁ, A.: Member of the PIARC – TC D.2 Pavements, Paris, France

4. PUBLICATIONS

Journals

SCHLOSSER, T. - SCHLOSSER, P. - ZUZULOVÁ, A. - CÁPAYOVÁ, S.: Traffic Model for PPP Project in Bratislava. In: International Journal of Advanced Information Science and Technology. Vol. 5, June issue (2016), online magazine, pp. 42-49. ISSN 2319-2682

ZUZULOVÁ, A. - MÚDRY, P.: Paving Traffic Areas in an Urban Space. In: Silniční obzor. Vol. 77, Nos. 7-8 (2016), pp. 190-193. ISSN 0322-7154 (in Slovak)

BAČOVÁ, K.: Unbound and Bound Base Layers of Road Constructions. In: Magazín stroje a mechanizácia (Journal of Building Mechanism and Mechanization). Vol. 11, No. 1 (2016), pp. 30-32. ISSN 2453-7500 (in Slovak)

BAČOVÁ, K.: Traffic Engineering and Road Construction as a System. In: Magazín stroje a mechanizácia (Journal of Building Mechanism and Mechanization). Vol. 11, No. 6 (2016), pp. 28-29. ISSN 2453-7500 (in Slovak)

Conference Proceedings

BAČOVÁ, K.: Use of Crushed Building Waste in Subbase Layers. In: Podkladní vrstvy a podloží vozovek 2016. Conference proceedings, Brno, Czech Republic, 22. 11. 2016. 1st ed. Prague: Sdružení pro výstavbu silnic Prague, 2016, pp. 38-44. ISBN 978-80-903925-8-8.

BACHRATÁ, M. - JEVÍNOVÁ, A. - CÁPAYOVÁ, S.: Comparison of the Effects of Various Additives on Asphalt Binder Properties. In: TRINfra 2016. Prague, Czech Republic, 20. 6. 2016. Trends and Innovations in Transport Infrastructure, proceedings of the International Students' Scientific

- Conference. 1st. ed. Prague : Czech Technical University in Prague, Faculty of Civil Engineering, 2016, USB key, pp. 140-146. ISBN 978-80-01-05973-9.
- CÁPAYOVÁ, S. - GSCHWENDT, I. - ZUZULOVÁ, A.: Asphalt Mix Properties and Pavement Structure Mechanics. In: Proceedings of 6th Eurasphalt & Eurobitume Congress 2016: Prague, Czech Republic, 1st - 3rd June 2016. 1st ed. Prague : Czech Technical University in Prague, 2016, CD-ROM, ISBN 978-80-01-05962-3.
- CÁPAYOVÁ, S. - ZUZULOVÁ, A. - SCHLOSSER, T.: Road Construction Materials from the Perspective of Energy Savings. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 4. Energy and Clean Technologies: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1st. ed. Sofia: STEF 92 Technology, 2016, pp. 127-132. ISSN 1314-2704. ISBN 978-619-7105-64-3. In database: WOS,
- HODÁKOVÁ, D. - ZUZULOVÁ, A.: Cement Concrete Pavements of Road Tunnels. In: TRInfra 2016. Prague, CZECH REPUBLIC, 20. 6. 2016. Trends and Innovations in Transport Infrastructure, proceedings of the International Students' Scientific Conference. 1st. ed. Prague: Czech Technical University in Prague, Faculty of Civil Engineering, 2016, USB key, pp. 57-64. ISBN 978-80-01-05973-9
- ORTHOVÁ, M. - SCHLOSSER, T.: Experience Gained from Project of Public Transport System in Bratislava Carrier. In: TRInfra 2016. Prague, Czech Republic, 20. 6. 2016. Trends and Innovations in Transport Infrastructure, proceedings of International Students' Scientific Conference. 1st. ed. Prague: Czech Technical University in Prague, Faculty of Civil Engineering, 2016, USB key, pp. 29-36. ISBN 978-80-01-05973-9.
- SCHLOSSER, T. - SCHLOSSER, P.: New Tramway Infrastructure in Bratislava - How Can a Well Prepared Traffic Engineering Analysis and Planning Tools Influence Decision Making. In: Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, Czech Republic, 13. - 17. 6. 2016. Vol. 161, (2016), online, pp. 247-252. ISSN 1877-7058. In database: SCOPUS; WOS; DOI: 10.1016/j.proeng.2016.08.545.
- SCHLOSSER, T. - SCHLOSSER, P.: Knowledge Gained from the Preparation of the PPP Bratislava Bypass Project. In: Pozemní komunikace 2016 (Roads 2016): Conference with international participation, Conference proceedings, Prague, Czech Republic, 21. 6. 2016. Prague: Czech Technical University in Prague, Faculty of Civil Engineering, 2016, CD ROM, ISBN 978-80-01-05964-7.
- SCHLOSSER, T. - ZUZULOVÁ, A. - CÁPAYOVÁ, S. - SCHLOSSER, P.: New Public Transport Tramway Line in Bratislava - Way of Improving the Environmental Conditions. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 4. Energy and Clean Technologies: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1st. ed. Sofia: STEF 92 Technology, 2016, pp. 475-482. ISSN 1314-2704. ISBN 978-619-7105-64-3. In database: WOS.
- ZUZULOVÁ, A. - CÁPAYOVÁ, S. - SCHLOSSER, T.: Environmental Trend of Transport in Slovakia. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 4. Energy and Clean Technologies: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1st. ed. Sofia: STEF 92 Technology, 2016, pp. 353-358. ISSN 1314-2704. ISBN 978-619-7105-64-3. In database: WOS.
- BAČOVÁ, K.: Drainage to Urban Roads. In: Dopravné stavby a dopravné inžinierstvo ako systémové riešenie (Transportation Structures and Traffic Engineering as a System Solution). Proceedings of the 21th Seminar of Ivan Poliaček with international participation. Jasná, Slovak Republic, 14. - 16. 11. 2016. 1st ed. Bratislava: Kongres STUDIO, 2016, pp. 131-137. ISBN 978-80-89565-27-6.
- BACHRATÁ, M.: Use of Low Temperature Asphalt Mixtures. In: Advances in Architectural, Civil and Environmental Engineering [electronic source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak Technical University in Bratislava, 2016, CD-ROM, pp. 312-316. ISBN 978-80-227-4645-8.
- BALCIERÁKOVÁ, M.: Noise Measurement Theory. In: Dopravné stavby a dopravné inžinierstvo ako systémové riešenie (Transportation Structures and Traffic Engineering as a System Solution). Proceedings of the 21th Seminar of Ivan Poliaček with international participation. Jasná, Slovak Republic, 14. - 16. 11. 2016. 1st ed. Bratislava: Kongres STUDIO, 2016, pp. 138-142. ISBN 978-80-89565-27-6.
- CÁPAYOVÁ, S. - JEVÍNOVÁ, A.: Properties of Asphalt Binders Modified With Various Additives. In: Dopravné stavby a dopravné inžinierstvo ako systémové riešenie (Transportation Structures and Traffic Engineering as a System Solution). Proceedings of the 21th Seminar of Ivan Poliaček with international participation. Jasná, Slovak Republic, 14. - 16. 11. 2016. 1st ed. Bratislava: Kongres STUDIO, 2016, pp. 156-163. ISBN 978-80-89565-27-6.
- GSCHWENDT, I. - ZUZULOVÁ, A.: The Influence of Climate Condition Changes on Road Pavement Dimensions. In: Dopravné stavby a dopravné inžinierstvo ako systémové riešenie (Transportation Structures and Traffic Engineering as a System Solution). Proceedings of the 21th Seminar of Ivan Poliaček with international participation. Jasná, Slovak Republic, 14. - 16. 11. 2016. 1st ed. Bratislava: Kongres STUDIO, 2016, pp. 124-130. ISBN 978-80-89565-27-6.
- SCHLOSSER, T.: The Impact of Land Use and Traffic Engineering Documentation on Road Network Development in Rural Areas. In: Dopravné stavby a dopravné inžinierstvo ako systémové riešenie (Transportation Structures and Traffic Engineering as a System Solution). Proceedings of the 21th Seminar of Ivan Poliaček with international participation. Jasná, Slovak Republic, 14. - 16. 11. 2016. 1st ed. Bratislava : Kongres STUDIO, 2016, pp. 74-82. ISBN 978-80-89565-27-6.
- ZUZULOVÁ, A. - GSCHWENDT, I. - CÁPAYOVÁ, S.: Degradation of Concrete Pavements on Airport Movement Areas. In: Airport Pavements 2016, Proceedings of the 3rd International Conference. Štrbské Pleso, Slovak Republic, 16. - 17. 5. 2016. 1st ed. Bratislava: Kongres STUDIO, 2016, CD-ROM, pp. 52-57. ISBN 978-80-89565-25-2.
- ZUZULOVÁ, A. - MÚDRY, P.: Block Pavements with LED Lighting in Urban Spaces. In: Dopravné stavby a dopravné inžinierstvo ako systémové riešenie (Transportation Structures and Traffic Engineering as a System Solution). Proceedings of the 21th Seminar of Ivan Poliaček with international participation. Jasná, Slovak Republic, 14. - 16. 11. 2016. 1st. ed. Bratislava: Kongres STUDIO, 2016, pp. 116--123. ISBN 978-80-89565-27-6.

DEPARTMENT OF THEORETICAL GEODESY

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Information Technologies
Cartographic Techniques and Norms
Processing and Analysis of Measurements 1
Interactive Graphics Systems
Geoinformatics
Processing and Analysis of Measurements 2
Global Geodesy 1
Local Geodetic Networks
CAD Systems in Surveying 1
Physical Geodesy 1
Cartographic Creation and Reproduction
Programming
Spherical Astronomy and Space Geodesy
Global Navigation Systems
Field Education in Geodetic Controls
Global Geodesy 2
Space Geodesy 2
Physical Geodesy 2
Spatial Data Management
Processing and Analysis of Measurements 3
Database Systems in GIS
Satellite Geodesy
Specialized Field Education
Metrology in Geodesy
Mathematical Models in Geodesy
GIS in Building Sciences
Geodesy in Spatial Planning (Institute of Management)

Obligatory elective subjects

Gravimetry
Web Technologies in GIS
Geodynamics
GIS Design and Implementation

Optional subjects

Quality Analysis of Geodata
Geometry and Relativity in Geodesy
Object-Oriented Programming in C#
Programming Websites Using PHP and JavaScript

1.2 Postgraduate courses

Processing and Analysis of Measurements
Global Geodesy
Geodynamics
Geographic Information Systems

2. THESES

2.1 Bachelor theses

There were 11 works.

2.2 GRADUATE THESES

BULLA, B.: Modeling of Spruce Forest Damage Using Spatio-Temporal Model of Bark Beetle Attack TANABBO
Supervisor: ĎURAČIOVÁ, R.

ČIČKA, F.: Processing Measurements of Very Long Baseline Interferometry (VLBI)
Supervisor: HUSÁR, L.

DUFALOVÁ, E.: Analysis of Precision of Global Geopotential Models of Current Satellite Missions and New Possibilities for Their Application
Supervisor: JANÁK, J.

HOREČNÝ, J.: Assess the Potential of Terrestrial Laser Scanning Method in the Domain of Forest Protection
Supervisor: FAIXOVÁ CHALACHANOVÁ, J.

HURAJOVÁ, M.: Modelling of Covariance Functions from Gradiometric Measurements from Satellite Mission GOCE
Supervisor: HÁBEL, B.

IGONDOVÁ, M.: Spatial Data Integration Based on Determining Similarity Measures
Supervisor: ĎURAČIOVÁ, R.

JURKASOVÁ, K.: Usage of Modern Surveying Methods in Microgravimetry Research
Supervisor: PAPČO, J.

KELLNEROVÁ, R.: Assessment of GOCE Satellite Missions
Supervisor: JANÁK, J.

LEŠKO, M.: Exploitation Satellite Mission Sentinel-1 in Radar Interferometry
Supervisor: PAPČO, J.

HARNOŠOVÁ, V.: Analysis of Data Flow and Processes in the Domain of Cultural Heritage
Supervisor: FAIXOVÁ CHALACHANOVÁ, J.

MOJŠOVÁ, D.: Optimizing the Distortion of a Territory in Simple Cartography Map Projections
Supervisor: VAJSÁBLOVÁ, M.

REICHEL, R.: Data Usage of Airborne Laser Scanning for Mapping of Forests
Supervisor: FENCÍK, R.

SERES, C.: Design and Creation of Web-Map Application for Indoor Navigation
Supervisor: ĎURAČIOVÁ, R.

SULOVÁ, A.: Design and Realization of Database for Supporting Forest Protection
Supervisor: ĎURAČIOVÁ, R.

2.3 Graduate theses

BUCHA, B.: Gravity Field Modelling in Terms of Spherical Radial Basis Functions
Supervisor: JANÁK, J.

3. RESEARCH

3.1 Research projects

COST - Advanced Tropospheric Products of Global Navigation Satellite Systems for Monitoring Severe Events and the Climate (GNSS4SWEC) (2013-2017, HEFTY, J.), ES1206

Analysis of Global Data Sources and Possibilities of Their Application in the Refinement and Testing of Earth Gravity Field Models (2015-2017, JANÁK, J.), VEGA 1/0954/15

Detection of Underground Cavities in Environmental and Archaeological Applications Using Satellite Radar Interferometry (2016, PAPČO, J.), COSMOSkyMed Constellation Open Call For Science 00016/8/416/182

Solution of Actual Problems in Geophysical and Geodetic Detection of Underground Cavities in Environmental and Archaeological Applications (2016-2019, PAŠTEKA, R.), VEGA 1/0462/16

Optimization of Geomodeling Processes Using Probabilistic and Fuzzy Data (2016-2019, STUPŇANOVÁ, A.), VEGA 1/0682/16

3.2 International cooperation

Cooperating institutions

CEGRN - Central European Geodynamic Regional Network Consortium

EPN - EUREF Permanent Network

Freie Universität Berlin - Tell Fecheriye Research Project, Germany

Chinese University of Hong Kong, Institute of Space and Earth Information Science, China SAR

Italian National Research Council, Institute for Marine Sciences, Italy

Kiel University, Institute of Geosciences, Germany

North Carolina State University, Department of Marine Earth and Atmospheric Sciences, United States of America

Purdue University, School of Civil Engineering, Indiana, United States of America

Research Institute of Geodesy, Topography and Cartography, Czech Republic
Technical University of Munich, Institute for Astronomical and Physical Geodesy, Germany

Technical University of Ostrava, Institute of Geoinformatics, Czech Republic

UNAVCO - A Non-Profit University-Governed Consortium, Facilitates Geoscience Research and Education Using Geodesy

University of Environmental and Life Sciences, Institute of Geodesy and Geoinformatics, Wrocław, Poland

University of New Brunswick, Department of Geodesy and Geomatics Engineering, Canada

University of Stuttgart, Institute of Navigation, Germany

University of Trás-os-Montes e Alto Douro, Vila Real, Portugal

University of Trieste, Department of Earth Sciences, Italy

University of Trieste, Department of Mathematics and Geosciences, Italy

University of Vienna, Department of Meteorology and Geophysics, Austria

University of West Bohemia in Pilsen, Faculty of Applied Sciences, Department of Mathematics, Czech Republic

Warsaw University of Technology, Faculty of Geodesy and Cartography, Poland

Membership in international professional organizations

HEFTY, J.: American Geophysical Union

HEFTY, J.: European Geosciences Union

HEFTY, J.: International Association of Geodesy

HEFTY, J.: International Astronomical Union

JANÁK, J.: European Geosciences Union
 MOJZEŠ, M.: American Geophysical Union
 MOJZEŠ, M.: CEGRN Consortium
 MOJZEŠ, M.: European Geosciences Union
 MOJZEŠ, M.: International Association of Geodesy

4. PUBLICATIONS

Parts of Books

DRÁPELA, T. – KOVÁČ, M. – LIESKOVSKÝ, T.: Field Survey of Uaxactun and Its Surroundings. In: *Nuevas Excavaciones en Uaxactun VII.: Temporada de Campo 2015*. Bratislava: Center for Mesoamerican Studies (CMS), Comenius University - Chronos, ISBN 978-80-89027-45-3, 2016, online, pp. 476-519 (in Spanish)

LIESKOVSKÝ, T. – STRAKA, J. – PESCHL, R. – DRÁPELA, T.: Mapping of Uaxactun. In: *Nuevas Excavaciones en Uaxactun VII.: Temporada de Campo 2015*. Bratislava: Center for Mesoamerican Studies (CMS), Comenius University - Chronos, ISBN 978-80-89027-45-3, 2016, online, pp. 520-527 (in Spanish)

Journals

BEDNÁRIK, M. – PAPČO, J. – POHÁNKA, V. – BEZÁK, V. – KOHÚT, I. – BRIMICH, L.: Surface Strain Rate Colour Map of the Tatra Mountains Region (Slovakia) Based on GNSS Data. In: *Geologica Carpathica*, ISSN 1335-0552. - Vol. 67, No. 6 (2016), pp. 509-524 (in English)

BUCHA, B. – JANÁK, J. – PAPČO, J. – BEZDĚK, A.: High-Resolution Regional Gravity Field Modelling in a Mountainous Area from Terrestrial Gravity Data. In: *Geophysical Journal International*, ISSN 0956-540X. - Vol. 207, No. 2 (2016), pp. 949-966 (in English)

ĎURÍČKOVÁ, Z. – JANÁK, J.: RTM-Based Omission Error Corrections for Global Geopotential Models: Case Study in Central Europe. In: *Studia Geophysica et Geodaetica*, ISSN 0039-3169. - Vol. 60, No. 4 (2016), pp. 622-643 (in English)

GERHÁTOVÁ, L. – HEFTY, J. – ŠPÁNIK, P.: Short-Term and Long-Term Variability of Antenna Position Due to Thermal Bending of Pillar Monument at Permanent GNSS Station. In: *Reports on Geodesy and Geoinformatics*, ISSN 2391-8365. - Vol. 100, No. 1 (2016), pp. 67-77 (in English)

JANÁK, J.: Research Activities and Projects of Department of Theoretical Geodesy, Faculty of Civil Engineering, Slovak University of Technology in Bratislava. In: *Slovenský geodet a kartograf*, ISSN 1335-4019. - Vol. 21, No. 4 (2016), pp. 12-18 (in Slovak)

LIESKOVSKÝ, T.: Digital Non-Destructive Methods in Archaeology. In: *Informácie SvF STU*. - Vol. 16, No. 2 (2016), p. 8 (in Slovak)

MAJKRÁKOVÁ, M. – PAPČO, J. – ZAHOREC, P. – DROŠČÁK, B. – MIKUŠKA, J. – MARUŠIAK, I.: An Analysis of Methods for Gravity Determination and Their Utilization for the Calculation of Geopotential Numbers in the Slovak

National Levelling Network. In: *Contributions to Geophysics and Geodesy*, ISSN 1335-2806. - Vol. 46, No. 3 (2016), pp. 179-202 (in English)

ONDREJKA, P. – BAKOŇ, M. – PAPČO, J. – LIŠČÁK, P. – ŽILKA, A.: Monitoring the Activity of the Prievidza-Hradec Landslide Area. In: *Geotechnika*, ISSN 1211-913X. - Vol. 19, No. 1 (2016), pp. 3-12 (in Slovak)

PÁNISOVÁ, J. – MURIN, I. – PAŠTEKA, R. – HALIČKOVÁ, J. – BRUNČÁK, P. – POHÁNKA, V. – PAPČO, J. – MILO, P.: Geophysical Fingerprints of Shallow Cultural Structures from Microgravity and GPR Measurements in the Church of St. George, Svätý Jur, Slovakia. In: *Journal of Applied Geophysics*, ISSN 0926-9851. - Vol. 127 (2016), pp. 102-111 (in English)

RÁŠOVÁ, A. – LIESKOVSKÝ, T.: Surveyors from STU Help to Discover the Secrets of the Maya Civilization. In: *Informácie SvF STU*. - Vol. 16, No. 3 (2016), p. 5 (in Slovak)

ŠPÁNIK, P. – GERHÁTOVÁ, L. – JANÁK, J.: Visualization of Geodetic Measurements Using a Generic Mapping Tool Software Package. In: *Kartografické listy*, ISSN 1336-5274. - Vol. 24, No. 1 (2016), pp. 23-34 (in Slovak)

ZAHOREC, P. – VAJDA, P. – PAPČO, J. – SAINZ-MAZA APARICIO, S. – PEREDA DE PABLO, J.: Prediction of Vertical Gradient of Gravity and Its Significance for Volcano Monitoring – Example from Teide Volcano. In: *Contributions to Geophysics and Geodesy*, ISSN 1335-2806. - Vol. 46, No. 3 (2016), pp. 203-220 (in English)

Conference Proceedings

BAKOŇ, M. – OLIVEIRA, I. – PERISSIN, D. – SOUSA, J.J. – PAPČO, J.: A Data Mining Approach for Multivariate Outlier Detection in Heterogeneous 2D Point Clouds: An Application to Post-Processing of Multi-Temporal InSAR Results. In: *IGARSS 2016 - Advancing the Understanding of Our Living Planet: Proceedings of 2016 IEEE International Geoscience & Remote Sensing Symposium*. Beijing, China, 10.-15.7.2016. - New York: IEEE - Institute of Electrical and Electronics Engineers, 2016. - ISBN 978-1-5090-3332-4. - pp. 56-59 (in English)

BAKOŇ, M. – PAPČO, J. – PERISSIN, D. – SOUSA, J.J. – LAZECKÝ, M.: Multi-Sensor InSAR Deformation Monitoring over Urban Area of Bratislava (Slovakia). In: *Procedia Computer Science: CENTERIS 2016 /ProjMAN 2016/ HCist 2016*. Porto, Portugal, 5.-7.10.2016. - 2016, online. - ISSN 1877-0509. - Vol. 100. - pp. 1127-1134 (in English)

BAKOŇ, M. – MARCHAMALO, M. – QIN, Y. – GARCÍA-SÁNCHEZ, A.J. – ALVAREZ, S. – PERISSIN, D. – PAPČO, J. – MARTÍNEZ, R.: Madrid As Seen from Sentinel-1: Preliminary Results. In: *Procedia Computer Science: CENTERIS 2016 /ProjMAN 2016/ HCist 2016*. Porto, Portugal, 5.-7.10.2016. - 2016, online. - ISSN 1877-0509. - Vol. 100. - pp. 1155-1162 (in English)

BAKOŇ, M. – PAPČO, J. – PERISSIN, D. – SOUSA, J.J.: Multi-Sensor InSAR Deformation Monitoring Over Buildings and Infrastructures in Bratislava (Slovakia). In: *Living Planet Symposium 2016: Interactive Abstract Book*. Prague, Czech Republic, 9.-13.5.2016. - European Space Agency, 2016, USB. - ISBN 978-92-9221-305-3. - p. 1 (in English)

- DANÁČOVÁ, M. – FENCÍK, R. – NOSKO, R.: Historical Development of the Permanent Gully Erosion - Case Study Tura Luka. In: SGEM 2016, 16th International Multidisciplinary Scientific GeoConference, Water Resources, Forest, Marine and Ocean Ecosystems: Conference Proceedings. Albena, Bulgaria, 30.6.-6.7.2016. - Sofia: STEF 92 Technology, 2016. - ISSN 1314-2704, ISBN 978-619-7105-61-2. - pp. 391-398 (in English)
- DRÁPELA, T. – KOVÁČ, M. – LIESKOVSKÝ, T. – STRAKA, J. – PESCHL, R.: New Mayan Sites in Central and Northeastern Petén: Field Survey of the SAHI Team between the Northern Border of Tikal Park to the Border of Mexico (2009-2015). In: 29th Simposio de Investigaciones Arqueológicas en Guatemala. Ciudad de Guatemala: Ministerio de Cultura y Deportes, 2016. - ISBN 978-9929-48-004-9. - pp. 357-370 (in Spanish)
- DROŠČÁK, B. – BUBLAVÝ, J. – MAJKRÁKOVÁ, M.: Preparations for New Realizations of Vertical Reference Systems in Slovakia. In: EUREF Symposium 2016. San Sebastian, Spain, 25.-27.5.2016. - Donostia: Sociedad de Ciencias Aranzadi, 2016. - p. 1 (in English)
- ĎURAČIOVÁ, R. – MUŇKO, M. – KARELL, L.: Validation of Reclassified Predictive Maps. In: Cartographic Activities Devoted to Ján Pravda 2016. Bratislava, Slovakia, 20.-21.10.2016. - Košice: Pavol Jozef Šafárik University in Košice, 2016. - ISBN 978-80-8152-433-2. - p. 10 (in Slovak)
- ĎURÍČKOVÁ, Z.: A Comparison of Different Methods to Evaluate the Gravitational Effect of Residual Topography. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovakia, 26.10.2016. - Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM. - ISBN 978-80-227-4645-8. - pp. 140-146 (in Slovak)
- ĎURÍČKOVÁ, Z. – JANÁK, J. – PAPČO, J. – ZAHOREC, P.: Residual Terrain Model and Its Application for Testing of Gravity Field Models. In: GGHS 2016: 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016. Thessaloniki, Greece, 19.-23.9.2016. - Thessaloniki: Aristotle University of Thessaloniki, 2016, online. - p. 1 (in English)
- GERHÁTOVÁ, Ľ. – ŠPÁNIK, P. – HEFTY, J.: Possibilities for the Visualisation of an Earthquake's Effects on a Map. In: Cartographic Activities Devoted to Ján Pravda 2016. Bratislava, Slovakia, 20.-21.10.2016. - Košice: Pavol Jozef Šafárik University in Košice, 2016. - ISBN 978-80-8152-433-2. - p. 16 (in Slovak)
- CHALACHANOVÁ FAIXOVÁ, J. – HOREČNÝ, J.: Representation of Objects with Complicated Structures Obtained by Terrestrial Laser Scanning Methods. In: Cartographic Activities Devoted to Ján Pravda 2016. Bratislava, Slovakia, 20.-21.10.2016. - Košice: Pavol Jozef Šafárik University in Košice, 2016. - ISBN 978-80-8152-433-2. - p. 11 (in Slovak)
- IMRIŠEK, M.: Comparison of the Forecasted Properties for the Decomposition of a Time-Series and the Seasonal ARIMA Modelling of a Precipitable Water Vapour Time-Series. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovakia, 26.10.2016. - Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM. - ISBN 978-80-227-4645-8. - pp. 147-156 (in Slovak)
- JANÁK, J. – HÁBEL, B. – DUFALOVÁ, E. – HURAJOVÁ, M. – KELLNEROVÁ, R.: Analysis of Empirical Covariance Functions of GOCE Satellite Gravity Gradiometry Data. In: Living Planet Symposium 2016: Interactive Abstract Book. Prague, Czech Republic, 9.-13.5.2016. - European Space Agency, 2016, USB. - ISBN 978-92-9221-305-3. - p. 1 (in English)
- KOVÁČ, M. – NAJARRO, S.A. – DRÁPELA, T. – VÁZQUEZ LÓPEZ, V. – SAVCHENKO, I. – LIESKOVSKÝ, T. – KUPPRAT, F.: Petnal, an Unknown City in the Northeast of Uaxactun: Preliminary Investigations. In: 29th Simposio de Investigaciones Arqueológicas en Guatemala. Ciudad de Guatemala: Ministerio de Cultura y Deportes, 2016. - ISBN 978-9929-48-004-9. - pp. 273-284 (in Spanish)
- KOVÁČ, M. – JOBBOVÁ, E. – NAJARRO, S.A. – DÍAZ, M. – ALVAREZ, C. – LIESKOVSKÝ, T. – KREMPEL, G.: The Centre of Uaxactun: Recent Archaeological Findings and the Written Message in the Paraphernalia of a Preclassic King. In: 29th Simposio de Investigaciones Arqueológicas en Guatemala. Ciudad de Guatemala: Ministerio de Cultura y Deportes, 2016. - ISBN 978-9929-48-004-9. - pp. 63-78 (in Spanish)
- LAZECKÝ, M. – CANASLAN-COMUT, F. – NIKOLAEVA, E. – BAKOŇ, M. – PAPČO, J. – RUIZ-ARMENTEROS, A.M – QIN, Y. – SOUSA, J.J. – ONDREJKA, P.: Potential of Sentinel-1A for Nation-Wide Routine Updates of Active Landslide Maps. In: The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences (ISPRS Archives): ISPRS Congress, Commission VII. Prague, Czech Republic, 12.-19.7.2016. - online, 2016. - ISSN 2194-9034. - Vol. XLI-B7. - pp. 775-781 (in English)
- LAZECKÝ, M. – CANASLAN-COMUT, F. – BAKOŇ, M. – QIN, Y. – PERISSIN, D. – HATTON, E. – SPAANS, K. – GONZALEZ-MENDEZ, P.J. – GUIMARAES, P. – SOUSA, J.J. – KOCICH, D. – USTUN, A.: Concept of an Effective Sentinel-1 Satellite SAR Interferometry System. In: Procedia Computer Science: CENTERIS 2016 / ProjMAN 2016/ HCist 2016. Porto, Portugal, 5.-7.10.2016. - 2016, online. - ISSN 1877-0509. - Vol. 100. - pp. 14-18 (in English)
- LAZECKÝ, M. – HLAVÁČOVÁ, I. – BAKOŇ, M. – PAPČO, J. – KOLOMAZNÍK, J. – SOUSA, J.J.: Satellite InSAR Applicability for Monitoring Bridge Deformations. In: Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks: Proceedings of the 8th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2016). Foz do Iguaçu, Paraná, Brazil, 26.-30.6.2016. - London: Taylor and Francis Group, CRC Press, 2016. - ISBN 978-1-138-02851-7. - pp. 356-362 (in English)
- LETKO, P.: Reference Ellipsoids and Curvature Tensors. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava,

Slovakia, 26.10.2016. - Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM. - ISBN 978-80-227-4645-8. - pp. 164-169 (in Slovak)

MAHMUD, M.U. – YAKUBU, T.A. – ADEWUYI, T.O. – SOUSA, J.J. – RUIZ-ARMENTEROS, A.M. – BAKOŇ, M. – LAZECKÝ, M. – PERISSIN, D.: Subsidence Monitoring in the Coastal Region of Nigeria Using Multi-Temporal Interferometric Synthetic Aperture Radar (MT-InSAR). In: Living Planet Symposium 2016: Proceedings. Prague, Czech Republic, 9.-13.5.2016. - European Space Agency, 2016, CD-ROM. - ISSN 1609-042X, ISBN 978-92-9221-305-3. - 5 p. (in English)

MAHMUD, M.U. – YAKUBU, T.A. – OLUWAFEMI, O. – SOUSA, J.J. – RUIZ, A.M. – ARROYO-PARRAS, J.G. – BAKOŇ, M. – LAZECKÝ, M. – PERISSIN, D.: Application of Multi-Temporal Interferometric Synthetic Aperture Radar (MT-InSAR) Technique to Land Deformation Monitoring in Warri Metropolis, Delta State, Nigeria. In: Procedia Computer Science: CENTERIS 2016 /ProjMAN 2016/ HCist 2016. Porto, Portugal, 5.-7.10.2016. - 2016, online. - ISSN 1877-0509. - Vol. 100. - pp. 1220-1227 (in English)

MAJKRÁKOVÁ, M.: Calculation of Normal Heights at the 1st Order Points of the National Levelling Network Using Different Approaches for Determining Gravity. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovakia, 26.10.2016. - Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM. - ISBN 978-80-227-4645-8. - pp. 170-181 (in Slovak)

MAJKRÁKOVÁ, M. – PAPČO, J. – ZAHOREC, P. – DROŠČÁK, B. – MIKUŠKA, J.: Comparison of Different Approaches to Gravity Determination and Their Utilization for Calculation of Geopotential Numbers in the Slovak National Levelling Network. In: GGHS 2016: 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016. Thessaloniki, Greece, 19.-23.9.2016. - Thessaloniki: Aristotle University of Thessaloniki, 2016, online. - p. 1 (in English)

MIKUŠKA, J. – MARUŠIAK, I. – ZAHOREC, P. – PAPČO, J. – PAŠTEKA, R.: Approximate CRUST1.0 Model-Based and Space-Domain Calculated Gravitational Effect of the Earth Crust. In: 78th EAGE Conference & Exhibition 2016. Efficient Use of Technology - Unlocking Potential: Conference Proceedings, Extended Abstracts. Vienna, Austria, 30.5.-2.6.2016. - Houten: EAGE, 2016, USB. - ISSN 2214-4609, ISBN 978-94-6282-185-9. - p. 5 (in English)

MINÁRIKOVÁ, M. – GERHÁTOVÁ, Ľ. – HEFTY, J.: Velocity Map of the Central European GNSS Network. In: Cartographic Activities Devoted to Ján Pravda 2016. Bratislava, Slovakia, 20.-21.10.2016. - Košice: Pavol Jozef Šafárik University in Košice, 2016. - ISBN 978-80-8152-433-2. - p. 25 (in Slovak)

MOJZEŠ, M.: Deformation of the Earth Surface Determined by Water Mass Loading/Unloading Effects. In: Setplan 2016. Bratislava, Slovakia, 1.-2.12.2016. - Bratislava: Slovak Foreign Policy Association, 2016, online. - p. 1 (in English)

MUŇKO, M. – ĎURAČIOVÁ, R.: Pitfalls and Risks of Scientific Modeling in GIS. In: Cartographic Activities Devoted to Ján Pravda 2016. Bratislava, Slovakia, 20.-21.10.2016. - Košice: Pavol Jozef Šafárik University in Košice, 2016. - ISBN 978-80-8152-433-2. - p. 27 (in Slovak)

MUŇKO, M. – KARELL, L. – STRAKA, J.: Detection of Vine Rows from UAV Multispectral Imagery Using CNN. In: Cartographic Activities Devoted to Ján Pravda 2016. Bratislava, Slovakia, 20.-21.10.2016. - Košice: Pavol Jozef Šafárik University in Košice, 2016. - ISBN 978-80-8152-433-2. - p. 28 (in Slovak)

MUŇKO, M.: S2VMC - Tool for Classification of the Spatial Phenomenons with the Use of Machine Learning. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovakia, 26.10.2016. - Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM. - ISBN 978-80-227-4645-8. - pp. 182-186 (in English)

PAŠTEKA, R. – KUŠNIRÁK, D. – ZAHOREC, P. – PAPČO, J.: Role of Discretization Parameters in Source Depth Estimation Using Tikhonov's Downwards Continuation of Potential Fields. In: 78th EAGE Conference & Exhibition 2016. Efficient Use of Technology - Unlocking Potential: Conference Proceedings, Extended Abstracts. Vienna, Austria, 30.5.-2.6.2016. - Houten: EAGE, 2016, USB. - ISSN 2214-4609, ISBN 978-94-6282-185-9. - p. 5 (in English)

PUTIŠKA, R. – KUŠNIRÁK, D. – DOSTÁL, I. – VYBÍRAL, V. – PAŠTEKA, R. – PAPČO, J.: Landfill Geophysical Imaging - Babica Landfill Case Study. In: Near Surface Geoscience 2016: Proceedings of the 222nd European Meeting of Environmental and Engineering Geophysics. Barcelona, Spain, 4.-8.2016. - Houten: European Association of Geoscientists & Engineers, 2016. - ISBN 78-94-6282-155-2. - p. 5 (in English)

RÁŠOVÁ, A.: Optimization of Total Viewshed: Parallel Computation with Reduced Number of Observing Points. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovakia, 26.10.2016. - Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM. - ISBN 978-80-227-4645-8. - pp. 187-192 (in English)

RUIZ, A.M. – BAKOŇ, M. – LAZECKÝ, M. – DELGADO, J.M. – SOUSA, J.J. – PERISSIN, D. – CARO-CUENCA, M.: Multi-Temporal InSAR Processing Comparison in Presence of High Topography. In: Procedia Computer Science: CENTERIS 2016 /ProjMAN 2016/ HCist 2016. Porto, Portugal, 5.-7.10.2016. - 2016, online. - ISSN 1877-0509. - Vol. 100. - pp. 1181-1190 (in English)

SOUSA, J.J. – RUIZ, A.M. – BAKOŇ, M. – LAZECKÝ, M. – HLAVÁČOVÁ, I. – PATRICIO, G. – DELGADO, J.M. – PERISSIN, D.: Potential of C-Band SAR Interferometry for Dam Monitoring. In: Procedia Computer Science: CENTERIS 2016 /ProjMAN 2016/ HCist 2016. Porto, Portugal, 5.-7.10.2016. - 2016, online. - ISSN 1877-0509. - Vol. 100. - pp. 1103-1114 (in English)

STRAKA, J. – SOJČÁKOVÁ, M. – FENCÍK, R.: Model of the Dynamic Labelling of Populated Places in Slovakia for the Purposes of the State Map Series. In: Progress in Cartography: EuroCarto 2015, 1st ICA European Symposium on Cartography. Vienna, Austria, 10.-12.11.2015. - Springer: 2016. - ISSN 1863-2246, ISBN 978-3-319-19601-5. - pp. 31-45 (in English)

ŠPÁNIK, P.: Phase Multipath Effect on GNSS Measurements. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, Slovakia, 26.10.2016. - Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM. - ISBN 978-80-227-4645-8. - pp. 193-201 (in English)

ŠPÁNIK, P. – GERHÁTOVÁ, L.: Detection of Multipath Effects in GNSS Measurements. In: Družicové metody v geodézii a katastru: sborník referátů ze semináře s mezinárodní účastí. Brno, Czech Republic, 4.2.2016. - Brno: ECON, 2016. - ISBN 978-80-86433-60-8. - pp. 56-63 (in Slovak)

ŠTEFANIČKA, T. – ĎURAČIOVÁ, R. – SERES, C.: Web Mapping Application for Indoor Navigation in the Complex of the Faculty of Natural Sciences of Comenius University. In: Cartographic Activities Devoted to Ján Pravda 2016. Bratislava, Slovakia, 20.-21.10.2016. - Košice: Pavol Jozef Šafárik University in Košice, 2016. - ISBN 978-80-8152-433-2. - p. 35 (in Slovak)

DEPARTMENT OF SURVEYING

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Bachelor Thesis

Cadastral Mapping

Cadastr

Cartometry and Analysis of Cadastral Data

Diploma Seminar

Diploma Thesis

Engineering Surveying I, II

Environmental Modelling and Landscape Evaluations

Field Practice in Surveying

Field Practice in Cadastral Mapping and the Cadastre

Field Practice in Engineering Surveying

History of Surveying

Industrial Surveying

Land Consolidation I, II

Legislation of Geodetic Activities

Photogrammetry I, II

Professional Practice

Remote Sensing

Special Seminar

Staking and Monitoring of Construction Objects

Surveying I, II, III

Surveying

Surveying, Cartography and Cadastre

Surveying in Civil Engineering (English)

Practice in Cadastre

Obligatory elective subjects

Applied Close-Range Photogrammetry

Surveying in Underground Areas

Optional subjects

Application of Information Technology to the Cadastre of Real Estate and Land Consolidation

Measurement Systems in Engineering Surveying

1.2 Postgraduate courses

Cadastr and Land Consolidation

Engineering Surveying

Photogrammetry

2. THESES

2.1 Bachelor theses

There were 15 works.

2.2 Graduate theses

BADŽGONĽ, J.: Geodetic Measurements for Healths Care Monitoring a Bridge
Supervisor: KYRINOVIČ, P.

FRÁTRIKOVÁ, E.: Modelling Anti-Erosion Structures Against Water Erosion in a Land Consolidation Project
Supervisor: GEISSE, R.

GORIDKOVÁ, L.: Monitoring of Drifts and Deformations of a Structure Using Sensors Based on Optical Fibers
Supervisor: LIPTÁK, I.

HARENČÁKOVÁ, V.: Terrestrial Laser Scanning Application in a National Cultural Monument Documentation
Supervisor: SOKOL, Š.

KAPOLKA, J.: Analysis of Vibrations of Bridge Structures
Supervisor: LIPTÁK, I.

KAPUSTA, J.: Geodetic Monitoring of a Store's Construction Framework
Supervisor: BAJTALA, M.

KLEMPA, B.: Integrated Cadastral Map
Supervisor: HUDECOVÁ, Ľ.

KOŽÍKOVÁ, L.: Measurement of Deformations by Videogrammetry
Supervisor: MARČIŠ, M.

MRUZEKOVÁ, M.: Point Classifications of Laser Scanning and Image-Based Modelling
Supervisor: FRAŠTIA, M.

OKRES, V.: Determination of the Volume of a Landfill Using Terrestrial and Satellite Measurement Methods
Supervisor: JEŽKO, J.

RADVÁNYI, R.: Project of Simple Adjustment of Property
Supervisor: GEISSE, R.

REISINGER M.: Creation of 3D Land Models by Means of Geodetic Data Collection
Supervisor: JEŽKO, J.

ŠILLE, M.: Geodetic Monitoring of a Reinforced Concrete Roof Structure Using TLS
Supervisor: ERDÉLYI, J.

ŠVANCARA, R.: Optimization of the Location of Control Points Used in Image Triangulation
Supervisor: MARČIŠ, M.

TÓTH, K.: Frequency Analysis of the Movement of a Chemical Reactor
Supervisor: KOPÁČIK, A.

TYBOROVÁ, S.: Measurement of Displacements Using Picture Element Detection
Supervisor: FRAŠTIA, M.

VARDŽÁKOVÁ, M.: Land Fragmentation
Supervisor: HUDECOVÁ, L.

3. RESEARCH

3.1 Research projects

Modernisation and Development of the Technical Skills in the Teaching of Geodesy and Photogrammetry (2016–2018, SOKOL, Š. – JEŽKO, J. – FRAŠTIA, M. – BAJTALA, M. – MARČIŠ, M. – HUDECOVÁ, L.), KEGA 037STU–4/2016

Monitoring the Structural Health of a Bridge via Repeated Dynamic Tests (2013–2017, SOKOL, M. – KOPÁČIK, A. – KYRINOVIČ, P. – ERDÉLYI, J. – LIPTÁK, I.), APVV–0236–12

Detection of an Area and Discrete Shifts in a Fragile Territory Using Low–Cost Photogrammetry, Terrestrial and Satellite Technologies (2014–2016, SOKOL, Š. – FRAŠTIA, M. – JEŽKO, J. – BAJTALA, M. – MARČIŠ, M. – TRHAN, O.), VEGA 1/0133/14

Competence Center for SMART Technologies for Electronics and Informatics Systems and Services (2016, KOPÁČIK, A. – KYRINOVIČ, P. – ERDÉLYI, J. – LIPTÁK, I. – ILKOVIČOVÁ, L. – KAJÁNEK, P.), ITMS 26240220072

University Science Park STU Bratislava (2016, KOPÁČIK, A. – ERDÉLYI, J.), ITMS 26240220084

3.2 International cooperation

Cooperating institutions

Department of Special Geodesy, Czech Technical University in Prague, Czech Republic

Institute of Geodesy, Brno University of Technology, Czech Republic

Institute of Geodesy and Mine Surveying, Technical University of Ostrava, Czech Republic

Chair of Geodesy, Technical University Munich, Germany

Faculty of Geodesy, University of Zagreb, Croatia

Geodetic and Geophysical Institute, Hungarian Academy of Science, Hungary

Department of Geodesy and Geoinformation, Vienna University of Technology, Austria

Kavala Institute of Technology, Greece

“1 Decembrie 1918” University of Alba Iulia, Romania

Institute of Geoinformatics, Alba Regia Faculty of Technology, University of Óbuda, Hungary

“Politehnica” University of Timisoara, Romania

Membership in international professional organizations

ERDÉLYI, J.: National Delegate to International Federation of Surveyors (FIG), WG 10.2: BIM

FRAŠTIA, M.: International Society for Photogrammetry and Remote Sensing (ISPRS)

HUDECOVÁ, L.: National Delegate to International Federation of Surveyors (FIG), Commission 3: Spatial Information Management, Commission 7: Cadastre and Land Management

KOPÁČIK, A.: German Geodetic Commission of the Bavarian academy of Science, National Delegate to International Federation of Surveyors (FIG), Commission 2: Education, Commission 6: Engineering Surveying, WG 10.2: BIM

4. PUBLICATIONS

Books

HUDECOVÁ, L.: Cadastre of Real Estates, 1st Part. Bratislava: Slovak University of Technology, 2016. ISBN 978–80–8152–433–2 (in Slovak)

KOPÁČIK, A. – ERDÉLYI, J. – KYRINOVIČ, P. – LIPTÁK, I. – LUKÁČ, Š.: Industrial Surveying. Bratislava: Slovak University of Technology, 2016, ISBN 978–80–227–4661–8 (in Slovak)

Journals

FÁBRY, M. – ÁROCH, R. – LIPTÁK, I.: System Identification of Bridges and Modal Models. In: *Interdisciplinarity Theory and Practice*. ISSN 2344–2409. No. 11 (2016), online, pp. 79–84 (in English)

FUNTÍK, T. – ĎUBEK, M. – ERDÉLYI, J.: Geometric Tolerance Verification – Innovative Evaluation of Facade Surface Flatness Using TLS (Terrestrial Laser Scanning). In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. ISSN 1660–9336. Vol. 820 (2016), pp. 81–89 (in English)

FUNTÍK, T. – ĎUBEK, M. – ERDÉLYI, J.: Possibilities of Control of the Construction of Facades Using Modern Technologies. In: *Connoisseur Almanac*. ISSN 1336–3174. Vol. 16, No. 3 (2016), CD-ROM, pp. 26–30 (in Slovak)

HUDECOVÁ, L.: The Future of a Cadastre from a Multinational Point-View. In: *Slovak Surveyor and Cartographer*. ISSN 1335–4019. Vol. 21, No. 1 (2016), pp. 5–9 (in Slovak)

HUDECOVÁ, L. – GEISSE, R.: The Calculation of Fragmentation in Land Ownership. In: *Slovak Surveyor and Cartographer*. ISSN 1335–4019. Vol. 21, No. 3 (2016), pp. 15–18 (in Slovak)

ILKOVIČOVÁ, L. – KAJÁNEK, P. – KOPÁČIK, A.: Pedestrian Indoor Positioning and Tracking Using Smartphones Sensors, Step Detection and Map Matching Algorithm. In: *Surveying Journal*. ISSN 0016–710X. Vol. 70 (93), No. 1 (2016), pp. 1–24 (in English)

JEŽKO, J.: Development and Visualisation of a 3D Industrial Plant Map. In: *Czech Journal of Civil Engineering*. ISSN 2336–7148. Vol. 2, No. 1 (2016), online, pp. 56–63 (in Slovak)

JEŽKO, J.: Control and Testing of Rotary Laser Devices. In: *Czech Journal of Civil Engineering*. ISSN 2336–7148. Vol. 2, No. 2 (2016), online, pp. 60–69 (in Slovak)

LIPTÁK, I.: Software for Displacement Determination from Accelerometer Data. In: *Interdisciplinarity in Theory and Practice*. ISSN 2344–2409. No. 10 (2016), online, pp. 81–83 (in English)

KOPÁČIK, A. – KAJÁNEK, P. – LIPTÁK, I.: Systematic Error Elimination Using Additive Measurements and Combination of Two Low Cost IMSS. In: *IEEE Sensors Journal*. ISSN 1530–437X. Vol. 16, No. 16 (2016), pp. 6239–6248 (in English)

KOPÁČIK, A. – KYRINOVIČ, P. – ERDÉLYI, J. – FRAŠTIA, M.: Research Activities and Projects of the Department of Surveying, Faculty of Civil Engineering STU Bratislava. In: *Slovak Surveyor and Cartographer*. ISSN 1335–4019. Vol. 21, No. 4 (2016), pp. 5–11 (in Slovak)

SOKOL, Š. – BAJTALA, M. – ČERNOTA, P.: Estimation of a Horizontal Refraction in a Geodetic Network. In: *Mineral Engineering*. ISSN 1640–4920. Vol. 16, No. 1 (37), pp. 201–212 (in English)

Conference Proceedings

BAJTALA, M. – SOKOL, Š. – FRAŠTIA, M. – HUDECOVÁ, L.: Estimation of the Horizontal Refraction in the Control Network Using the Least Squares Method and Robust Statistical Methods. In: *SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing: Conference Proceedings*. Albena, Bulgaria, 30 June – 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 255–262. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)

BAJTALA, M. – SOKOL, Š. – FRAŠTIA, M. – MARČIŠ, M.: Use the Method of Least Squares and Robust Statistical Methods for the Estimation of Horizontal Refraction in Control Network. In: *Geodesy, Cartography and Geographical Information Systems 2016: Proceedings*. Demänovská dolina, SR, Sep. 21–23, 2016, Košice: Technical University of Košice, 2016. CD. ISBN 978–80–553–2603–0 (in English)

ERDÉLYI, J. – KYRINOVIČ, P. – LIPTÁK, I. – KOPÁČIK, A.: New Trends in Engineering Surveying – Bridge Monitoring Using TLS, Accelerometers and Ground-Based Radar Interferometry. In: *SIG 2016: Proceedings of International Symposium on Engineering Geodesy*. Varaždin, Croatia, May 20 – 22, 2016. Zagreb: Croatian Geodetic Society, 2016, pp. 27–40. ISBN 978–953–59018–0–8 (in English)

ERDÉLYI, J. – KYRINOVIČ, P. – LIPTÁK, I. – FUNTÍK, T.: Diagnostic of Aeration Tank of Wastewater Treatment Using Terrestrial Laser Scanning. In: *SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing: Conference Proceedings*. Albena, Bulgaria, 30 June – 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 223–230. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)

ERDÉLYI, J. – KOPÁČIK, A. – LIPTÁK, I. – KYRINOVIČ, P.: Pedestrian Bridge Monitoring Using Terrestrial Laser Scanner. In: *Advances and Trends in Engineering Sciences and Technologies: Proceedings*. Tatranská Štrba, SR, May 27–29, 2015. London: Taylor & Francis Group, 2016. pp. 51–56. ISBN 978–1–138–02907–1 (in English)

ERDÉLYI, J. – KOPÁČIK, A. – LIPTÁK, I. – KYRINOVIČ, P.: Automated Point Cloud Processing to Increase the Accuracy of Deformation Monitoring. In: *JISDM 2016*. Vienna, Austria, March 30 – April 1, 2016. Vienna: Vienna University of Technology, 2016. USB (in English)

FÁBRY, M. – ÁROCH, R. – LIPTÁK, I.: Measurement of a Suspension Footbridge in Bratislava. In: *ESaT 2016: Proceedings*. Tatranské Matliare, SR, 29 June – 1 July, 2016. Košice: Technical University of Košice, 2016. CD. ISBN 978–80–553–2564–4 (in English)

FRAŠTIA, M. – MARČIŠ, M. – JEŽKO, J.: Teaching Photogrammetry and Remote Sensing at the Faculty of Civil Engineering STU Bratislava. In: *Geodesy and Mining Surveying 2016: 23rd Conference of the Society of Mining Surveyors and Geologists*. Karolinka, CR, Oct. 19 – 21, 2016. Ostrava: University of Technology in Ostrava, 2016, USB. ISBN 978–80–248–3977–6 (in Slovak)

- FRAŠTIA, M. – MARČIŠ, M. – BAJTALA, M. – TRHAN, O.: Measurement of Building Components Deformations by the Methods of Digital Photogrammetry. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing: Conference Proceedings. Albena, Bulgaria, 30 June – 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 955 – 962. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)
- FRAŠTIA, M. – MARČIŠ, M. – BAJTALA, M. – SOKOL, Š. – PLAKINGER, M.: Possibilities of a Time Baseline in Digital Photogrammetry. In: Geodesy, Cartography and Geographical Information Systems 2016: Proceedings. Demänovská dolina, SR, Sep. 21–23, 2016, Košice: Technical University of Košice, 2016. CD. ISBN 978–80–553–2603–0 (in Slovak)
- FRAŠTIA, M. – MARČIŠ, M. – TRHAN, O.: Quality of a Digital Surface Model Created by Computer Vision Algorithms – A Comparative Study. In: Cartographic Conference 2016: Abstracts. Bratislava, SR, Oct. 20–21, 2016. Košice: Pavol Jozef Šafárik University in Košice, 2016. ISBN 978–80–8152–433–2 (in Slovak)
- FUNTÍK, T. – ERDÉLYI, J. – ĎUBEK, M. – GAŠPARÍK, J.: Innovative Assessment of Selected Properties of Industrial Floors. In ISARC 2016: proceedings of the 33rd International Symposium on Automation and Robotics in Construction and Mining. Auburn, Alabama, USA, July 18–21, 2016. International Association for Automation and Robotics in Construction, 2016, pp. 93–100. ISBN 978–1–5108–2992–3 (in English)
- HUDECOVÁ, L. – NEMCOVÁ, P. – GEISSE, R. – BAJTALA, M.: Renewal of Cadastral Maps. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing: Conference Proceedings. Albena, Bulgaria, 30 June – 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 511–518. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)
- ILKOVIČOVÁ, L. – KAJÁNEK, P. – KOPÁČIK, A.: An Improved Indoor Smartphone Localization and Tracking Using Step Detection and Map Information. In: SIG 2016: Proceedings of International Symposium on Engineering Geodesy. Varaždin, Croatia, May 20 – 22, 2016. Zagreb: Croatian Geodetic Society, 2016, pp. 439–450. ISBN 978–953–59018–0–8 (in English)
- ILKOVIČOVÁ, L.: Estimating Indoor Positions Using Radio–Frequency Technology. In: Juniorstav 2016: 18th Professional Conference of Postgraduate Students. Brno, CR, Jan. 28, 2016. Brno: Brno University of Technology, 2016. CD. ISBN 978–80–214–5311–1 (in Slovak)
- ILKOVIČOVÁ, L. – KAJÁNEK, P.: Positioning System in Indoor Environment Using Ultrasound Technology. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing: Conference Proceedings. Albena, Bulgaria, 30 June – 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 487–494. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)
- ILKOVIČOVÁ, L. – KOPÁČIK, A.: Development of an Indoor Navigation System Using NFC Technology. In: Advances and Trends in Engineering Sciences and Technologies: Proceedings. Tatranská Štrba, SR, May 27–29, 2015. London: Taylor & Francis Group, 2016. pp. 275–280. ISBN 978–1–138–02907–1 (in English)
- JEŽKO, J.: Milan Rastislav Štefánik – Slovak Astronomer and Soldier. In: History of Surveying and Cartography 18: Maps, Surveying Work, Devices and Personalities. Prague: National Technical Museum, 2016, pp. 307–314. ISBN 978–80–707–262–3 (in Slovak)
- JEŽKO, J.: Control and Testing of a Universal Measuring Station According to Technical Standards. In: Testing and Quality in Construction 2016: Proceedings. Brno, CR, May 18–20, 2016. Brno: Brno University of Technology, 2016. pp. 69–77. ISBN 978–80–214–5341–8 (in Slovak)
- JEŽKO, J.: Comparison of a Electro–Optic Range–Finder According to STN ISO 17 123–4. In: Geodesy and Mining Surveying 2016: 23rd Conference of the Society of Mining Surveyors and GeologistsAt. Karolinka, CR, Oct. 19 – 21, 2016. Ostrava: University of Technology in Ostrava, 2016, USB. ISBN 978–80–248–3977–6 (in Slovak)
- JEŽKO, J. – SOKOL, Š. – BAJTALA, M.: Field Practice in Surveying – Current Status and Perspectives. In: Geodesy and Mining Surveying 2016: 23rd Conference of the Society of Mining Surveyors and Geologists. Karolinka, CR, Oct. 19 – 21, 2016. Ostrava: University of Technology in Ostrava, 2016, USB. ISBN 978–80–248–3977–6 (in Slovak)
- JEŽKO, J.: Measuring the Vertical Displacement of Flood Protection Objects in Bratislava. In: Geodesy, Cartography and Geographical Information Systems 2016: Proceedings. Demänovská dolina, SR, Sep. 21–23, 2016, Košice: Technical University of Košice, 2016. CD. ISBN 978–80–553–2603–0 (in Slovak)
- KAJÁNEK, P.: Determining the Trajectory for a Machine Using IMS. In: Juniorstav 2016: 18th Professional Conference of Postgraduate Students. Brno, CR, Jan. 28, 2016. Brno: Brno University of Technology, 2016. CD. ISBN 978–80–214–5311–1 (in Slovak)
- KAJÁNEK, P.: Using the Rotation of an IMS Platform to Eliminate Systematic Errors. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy and Applied Mathematics. Bratislava, SR, Oct. 26, 2016. Bratislava: STU Bratislava, 2016. ISBN 978–80–227–4645–8. pp. 157–163 (in Slovak)
- KOPÁČIK, A. – LIPTÁK, I. – ERDÉLYI, J. – KYRINOVIČ, P.: Structurel Health Monitoring of the Bridge of Slovak National Uprising Using Automated System. In: SIG 2016: Proceedings of International Symposium on Engineering Geodesy. Varaždin, Croatia, May 20 – 22, 2016. Zagreb: Croatian Geodetic Society, 2016, pp. 127–136. ISBN 978–953–59018–0–8 (in English)
- KYRINOVIČ, P. – LIPTÁK, I. – ERDÉLYI, J. – ILKOVIČOVÁ, L.: Application of Tilt Meters for Monitoring a Water Management Building. In: 51st Geodetic Information Days: Proceedings. Brno, CR, Feb. 24–25, 2016. Brno: Czech Union of Surveyors and Cartographers – Surveyor Association Brno, 2016, CD. ISBN 978–80–02–02645–7 (in Slovak)

LIPTÁK, I. – KOPÁČIK, A. – ERDÉLYI, J. – KYRINOVÍČ, P.: Dynamic Monitoring of the Apollo Bridge in Bratislava. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing: Conference Proceedings. Albena, Bulgaria, 30 June – 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 231–238. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)

LIPTÁK, I. – KOPÁČIK, A. – ERDÉLYI, J. – KYRINOVÍČ, P.: Structural Health Monitoring of Bridges Using Terrestrial Radar Interferometry. In: Advances and Trends in Engineering Sciences and Technologies: Proceedings. Tatranská Štrba, SR, May 27–29, 2015. London: Taylor & Francis Group, 2016. pp. 117–122. ISBN 978–1–138–02907–1 (in English)

LIPTÁK, I. – KOPÁČIK, A. – ERDÉLYI, J. – KYRINOVÍČ, P. – PATASSY, G.: Vibration Analysis of Bridges Using Fiber Optic Sensors. In: JISDM 2016. Vienna, Austria, March 30 – April 1, 2016. Vienna: Vienna University of Technology, 2016. USB (in English)

MARČIŠ, M. – FRAŠTIA, M. – TRHAN, O. – HRUŠOVSKÁ, A.: Digital Photogrammetry in the Testing of Construction Elements. In: Surveying in Construction and Industry: Proceedings, Brno, CR, April 21, 2016. Prague: Czech Union of Surveyors and Cartographers, 2016, pp. 32–38. ISBN 978–80–02–02656–3 (in Slovak)

MARČIŠ, M. – BARTÁK, P. – VALAŠKA, D. – FRAŠTIA, M. – TRHAN, O.: Use of Image Based Modelling for Documentation of Intricately Shaped Objects. In: The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences: ISPRS Congress, Commission 5. Prague, CR, July 12–19, 2016. ISPRS, 2016, pp. 327–334. ISSN 2194–9034 (in English)

MARČIŠ, M. – FRAŠTIA, M. – BAJTALA, M. – SOKOL, Š.: Photogrammetric Measurement During the Testing of a Concrete Panel. In: Geodesy, Cartography and Geographical Information Systems 2016: Proceedings. Demänovská dolina, SR, Sep. 21–23, 2016, Košice: Technical University of Košice, 2016. CD. ISBN 978–80–553–2603–0 (in English)

NOSKO, R. – VÝLETA, R. – FRAŠTIA, M. – ŠKRINÁR, A. – DANÁČOVÁ, M.: Estimation of Changes in Erosion Gully on a Hillslope. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: Proceedings. Vienna, Austria, Nov. 2–5, 2016. Sofia: STEF 92 Technology, 2016, pp. 823–830. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)

TRHAN, O.: Building Detection Based on Source Data. In: Juniorstav 2016: 18th Professional Conference of Postgraduate Students. Brno, CR, January 28, 2016. Brno: Brno University of Technology, 2016. CD. ISBN 978–80–214–5311–1 (in Slovak)

TRHAN, O. – FRAŠTIA, M. – MARČIŠ, M.: Building Models Created from UAV Photogrammetry Data. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing: Conference Proceedings. Albena, Bulgaria, 30 June – 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 823–830. ISSN 1314–2704. ISBN 978–619–7105–59–9 (in English)

TRHAN, O.: Editing of Digital Masks for 3D Models of Buildings. In Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy and Applied Mathematics. Bratislava, SR, Oct. 26, 2016. Bratislava: STU Bratislava, 2016. ISBN 978–80–227–4645–8. pp. 202–211 (in Slovak)

DEPARTMENT OF GEOTECHNICS

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Engineering Geology

Engineering Geology and Rock Mechanics

Soil Mechanics

Foundation Engineering

Soil Mechanics and Foundations

Geotechnical Structures

Geotechnical Constructions

Geology

Underground Constructions

Properties of Rocks and Soils

Spread and Deep Foundations

Foundation Pits

Water Reservoirs and Dams

Landfills and Ponds

Special Problems of Geotechnical Engineering

Geology and Geomorphology

Geomechanics

Soil Construction

Optional subjects

Spread and Deep Foundations

Basics of the Design of Geotechnical Structures

Engineering Geology

Reconstruction in Geotechnics

Geotechnical Structures

Dumps, Tailing Ponds and Waste Recycling

Engineering Geology and Hydrogeology

Underground Constructions

Hydrogeology

Complex Project of Geotechnical Constructions

Filtration and Stability Tasks

Foundation of Hydraulic Structures

Water Management Systems

Dams and Water Reservoirs

Soil Construction

Recommended subjects

Spread and Deep Foundations

Diploma Seminar

Roads and Highway Tunnels

Laboratories of Soil Mechanics

Urban Underground Construction

The Aging and Reconstruction of Dams

Underground Water Management Constructions

Construction, Maintenance and Reconstruction of Railway Tunnels

1.2 Postgraduate courses

Engineering Geology and Hydrogeology

Soil Mechanics

Foundation Engineering

Geotechnical Structures

Filtration and Stability Tasks of Embankment Dikes

Dams and Water Reservoirs – Selected Topics

2. THESES

2.1 Bachelor theses

There were 8 works.

2.2 Graduate theses

BLAHOVÁ, E.: Effect of the Long-Term Operation of the Pálcianska Maša Water Project on the Safety of the Dam.

Supervisor: BEDNÁROVÁ, E.

ALAMRO, B. I.M.: Instability Problems of Slopes in Difficult Ground Conditions.

Supervisor: TURČEK, P.

SMETANOVÁ, I.: Alternative Proposal of Bridge 200 Foundation Through Danube on D4.

Supervisor: TURČEK, P.

GALLUSOVÁ, Z.: Stabilization of a Landslide, Which is Endangering a Railway Line.

Supervisor: SLÁVIK, I.

HRIVA, J.: Foundation Design of Nitrification Reservoirs in Complex Base Conditions.

Supervisor: SLÁVIK, I.

BOROVSKÁ, P.: Numerical Modeling of Bored Piles.

Supervisor: STACHO, J.

DURMEK, M.: Stabilization of Cutting on Highway D1.

Supervisor: FRANKOVSKÁ, J.

HACURA, L.: Foundation Design of the Bridge on Highway D4.

Supervisor: FRANKOVSKÁ, J.

REJDUGA, M.: Foundation Design for Railway Bridge over River Váh.

Supervisor: FRANKOVSKÁ, J.

FORTUNA, F.: Design for Excavation Security by Nailing.

Supervisor: SÚLOVSKÁ, M.

JANČOVIČ, F.: Design of Reinforced Retaining Wall with a Parking Area in Nitra.

Supervisor: SÚLOVSKÁ, M.

LENHARD, M.: Foundation of an Apartment Building in Cramped Conditions in Bratislava.

Supervisor: SÚLOVSKÁ, M.

MACHO, P.: The Stabilization Measures of the D3 Highway in Čadca.

Supervisor: SÚLOVSKÁ, M.

SZABÓOVÁ, N.: Improving Subsoil for the Foundation of a Production Hall for the Engineering Industry.

Supervisor: SÚLOVSKÁ, M.

SPARGIA, A.: Slope Stability Analysis in a Flysch Environment.

Supervisor: ONDRÁŠIK, M.

ZIMANOVÁ, M.: Influence of Properties of Rocks on the Excavation of Underground Structures.

Supervisor: KOPECKÝ, M.

3. RESEARCH

3.1 Research projects

Influence of Boundary Conditions on Limit States of Geotechnical Structures (2016-2018, TURČEK, P.), VEGA 1/ 0882/16

Determination of Critical Parameters of the Activation of Landslide Areas That Threaten Transport Construction and Water Works (2014-2016 KOPECKÝ, M.), VEGA 1/0533/14

3.2 International cooperation

Membership in international professional organizations

BEDNÁROVÁ, E.: Representative of the Slovak Republic on the Slovak National Committee on Large Dams (SkCOLD)

FRANKOVSKÁ, J.: Representative of the Slovak Republic on CEN – TC 396 Earthworks

FRANKOVSKÁ, J.: Representative of the Slovak Republic on CEN – TC 250/ SC7 Geotechnical design, convener of WG2 Ground investigation

FRANKOVSKÁ, J.: Representative of the Slovak Republic on the Regional Committee of the Czech and Slovak Society for Soil Mechanics and Geotechnical Engineering of the International Society (ISSMGE)

FRANKOVSKÁ, J.: Representative of the Slovak Republic on TC 308 Energy Geotechnics of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

FRANKOVSKÁ, J.: Representative of the Slovak Republic on ETC 10 Evaluation of Eurocode 7 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

CHABROŇOVÁ, J.: Representative of the Slovak Republic on the German – Czech Scientific Foundation (WSDT) of the European Forum Underground Construction (EFUC)

HRUŠTINEC, L.: Member of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

HULLA, J.: Member of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

KOPECKÝ, M.: Representative of the Slovak Republic on the Slovak Committee of the International Association of Engineering Geology (IAEG)

ONDRÁŠIK, M.: Representative of the Slovak Republic to the International Association for Engineering Geology and the Environment (IAEG)

SLÁVIK, I.: Member of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

SÚLOVSKÁ, M.: Member of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

TURČEK, P.: Representative of the Slovak Republic in the Regional Committee of the Czech and Slovak Society for Soil Mechanics and Geotechnical Engineering of the International Society (ISSMGE)

TURČEK, P.: Representative of the Slovak Republic for the ETC 10 Evaluation of Eurocode 7 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

4. PUBLICATIONS

Books

CHABROŇOVÁ, J.: *Underground Structure: Exercises*. 1. ed. Slovak University of Technology in Bratislava, Script edition, 2016, 187 pp. ISBN 978-80-227-4526-0 (in Slovak)

TURČEK, P. – SÚLOVSKÁ, M. – STACHO, J.: *Foundation Engineering: Excavations, Retaining Structures and Soil Improvement*. 1. ed. Slovak University of Technology in Bratislava, Script edition, 2016, 203 pp. ISBN 978-80-227-4558-1 (in Slovak)

Journals

KOTULOVÁ, J. – KORČÁK, M. – ŠÁLY, B. – ZAVADA, R. – PAVLÍK, V. – KUPKA, D. – FRANKOVSKÁ, J. – KYŠKA-PIPIK, R.: Large Capacity Energy Storage Based on Hydrogen as a Future Solution. In: *SLOVGAS*. Vol. 25, No. 4 (2016), pp. 8 – 12. ISSN 1335-3853 (in Slovak)

ŠUJAN, M. – SLÁVIK, I. – GALLIKOVÁ, Z. – DOVIČIN, P. – ŠUJAN, M.: Pre-Quaternary Basement of Bratislava (part 1): Genetic vs. Geotechnical Characteristics of the Neogene Foundation Soils. In: *Acta Geologica Slovaca*. Vol. 8, No. 1 (2016), pp. 71 – 86. ISSN 1338-0044 (in English)

Conference Proceedings

BALIAK, F. – BRČEK, M. In: In Remembrance of Assoc. Prof. Nemčok on the Occasion of His 90th Birthday. In: *Geo - Engineering 2016 : Engineering Geology and Geotechnical Engineering in Civil Engineering Practice*. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 - 17, 2016, Slovak University of Technology in Bratislava, 2016, 10 pp. ISBN 978-80-227-4573-4 (in Slovak)

BEDNÁROVÁ, E. – ŠKVARKA, J. – GRAMBLIČKOVÁ, D. – MACKOVJAK, P.: Experience Gained from Designing Remedial Actions on Levees in Slovakia. In: *SGEM 2016. 16th International Multidisciplinary Scientific GeoConference*. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 101 – 108. ISBN 978-619-7105-57-5 (in English)

BEDNÁROVÁ, E. – GRAMBLIČKOVÁ, D. – ŠKVARKA, J. – PÍSEČNÁ, B. – UHORŠČÁK, L.: The Starina Dam Interacts with the Environment. In: *35th Dam Days 2016 – Conference proceedings*, Vol. 2, Ostrava, Czech Republic, June 21 – 23, 1. ed., Prague: Czech Technical University in Prague, 2016, pp. 4 – 13. ISBN 978-80-01-05970-8 (in Slovak)

BEDNÁROVÁ, E. – GRAMBLIČKOVÁ, D. – MINÁRIK, M. – ŠKVARKA, J. – KOPČÁKOVÁ, B.: The Filtration Stability Safety Assessment of the Dam Liptovská Mara After Grouting Curtain Reconstruction. In: *Appropriate Technology to Ensure proper Development, Operation and Maintenance of Dams in Developing Countries: proceedings of International Symposium*. Johannesburg, South Africa, May 18, 2016, 1. ed., Pretoria (South Africa): South African National Committee on Large Dams (SANCOLD), 2016, 9 pp. ISBN 978-0-620-71042-8 (in English)

BEDNÁROVÁ, E. – HULLA, J.: Elements of the Sealing Barriers at the Dams at the Liptovska Mara and Čierny Vah Reservoirs. In: *Geotechnics 2016. Advanced Methods and Traditions in Geotechnics : conference proceedings of the 15th International Conference*. Horný Smokovec, Slovakia, Sep. 21 – 22, 2016, 1. ed., Ostrava: Faculty of Civil Engineering VŠB – Technical University of Ostrava, 2016, pp. 60 – 67. ISBN 978-80-248-3935-6 (in Slovak)

BEDNÁROVÁ, E.: Effect of Long – Term Operation of the Vlčia dolina Reservoir concerning the Dam's Safety. In *20th District Water Day: Reviewed conference proceedings*. Michalovce, Slovakia, April 14 – 15, 2016, 1. ed., Michalovce: East Slovak Water Company, a.s., Košice, The Michalovce factory, 2016, pp. 15 – 20. ISBN 978-80-89139-37-8 (in Slovak)

BEDNÁROVÁ, E.: The Role of Water Reservoirs in the Extreme Hydrological Conditions in Slovakia. In: *Adolf Patera Seminar 2016: The Role of Dams in Coping with Extreme Hydrological Events and Floods*. Conference proceedings, Prague, Czech Republic, Nov. 16, 2016, 1. ed., Prague: Czech Technical University in Prague, 2016, pp. 45 – 48. ISBN 978-80-01-06048-3 (in Slovak)

FÁBRY, M. – ÁROCH, R. – FÁBRYOVÁ CHALUPKOVÁ, K.: Steel bridges – Reconstruction of a Bridge in Trenčín. In: *XXXXI. Assets of Employees of the Department of Steel Structures: State and Development Prospects: Conference proceedings*, Štrbské Pleso, Slovakia, Oct. 19 – 21, 2016, 1. ed., Technical University in Košice, Faculty of Civil Engineering, 2016, pp. 93 – 96. ISBN 978-80-553-2612-2 (in Slovak)

FÁBRYOVÁ CHALUPKOVÁ, K.: Numerical Analysis of an Oedometer Test. In: *Juniorstav 2016: 18th International conference of PhD students*, Brno, Czech Republic, Jan. 28, 2016, 1. ed., Brno University of Technology, 2016, 8 pp. ISBN 978-80-214-5311-1 (in Slovak)

FÁBRYOVÁ CHALUPKOVÁ, K.: Analysis of an Oedometer Test Using Numerical Modeling. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. Oct. 26, 2016, Bratislava, Slovakia, 1. ed., Slovak University of Technology in Bratislava, 2016, pp. 335 – 340, ISBN 978-80-227-4645-8 (in Slovak)

FRANKOVSKÁ, J.: European Standardization in Geotechnics. In: *Geo – Engineering 2016, Engineering Geology and Geotechnical Engineering in Civil Engineering Practice*. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, 8 pp. ISBN 978-80-227-4573-4 (in Slovak)

FRANKOVSKÁ, J. – ZAJACOVÁ, J.: Development of an Integrated EU – Wide Registration System of Ground Engineering. In: *Geo – Engineering 2016, Engineering Geology and Geotechnical Engineering in Civil Engineering Practice*. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, 9 pp. ISBN 978-80-227-4573-4 (in Slovak)

FRANKOVSKÁ, J.: Collapsibility of Loess Evaluated from Field and Laboratory Tests. In: *SGEM 2016. 16th International Multidisciplinary Scientific*

GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 731 – 737. ISBN 978-619-7105-55-1 (in English)

FRANKOVSKÁ, J. – ZAJACOVÁ, J. – DURMEKOVÁ, T.: Legislative Aspects of Landslides Stabilization Design in Slovakia. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 887 – 892. ISBN 978-619-7105-55-1 (in English)

FRANKOVSKÁ, J. – ONDRÁŠIK, M. – KÄLLBERG, CH.: Deep Geothermal Energy Wells Based on Artificial Large Area Fractures. In: Energy Geotechnics : proceedings of the 1st International Conference on Energy Geotechnics, ICEGT 2016, Kiel, Germany, Aug. 29 – 31, 2016., 1. ed. London: Taylor & Francis Group, 2016, pp. 53 – 56. ISBN 978-1-138-03299-6 (in English)

FRANKOVSKÁ, J. – ŠOLTÉSZ, A.: Joint Doctoral Programme Geo – Engineering and Water Management. In: Geotechnics 2016. Advanced Methods and Traditions in Geotechnics: conference proceedings of the 15th International Conference. Horný Smokovec, Slovakia, Sep. 21 – 22, 2016, 1. ed., Ostrava: Faculty of Civil Engineering VŠB – Technical University of Ostrava, 2016, pp. 17 – 22. ISBN 978-80-248-3935-6 (in Slovak)

GRAMBLIČKOVÁ, D. – ŠKVARKA, J. – BEDNÁROVÁ, E.: Leakages Remedation on Hydraulic Structure Karolinka. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 163 – 170. ISBN 978-619-7105-57-5 (in English)

HRUŠTINEC, L.: The Interaction of a Pile Foundation with the Subsoil – a Comparison of the Calculated and Measured Values. In: New Trends in Statics and Dynamics of Buildings: Conference proceedings. 14th International Conference. Bratislava, Slovakia, Oct. 13 – 14, 2016, 1. ed., Bratislava: Slovak University of Technology in Bratislava, 2016, 14 pp. ISBN 978-80-227-4613-7 (in Slovak)

HRUŠTINEC, L. – SUMEC, J.: Numerical Analysis of Vertical Displacements of the Interim Spent Fuel Storage Building for Different Loading States. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 202 – 209. ISBN 978-619-7105-57-5 (in English)

HRUŠTINEC, L. – SUMEC, J.: Numerical Analysis of Deformations of the Shallow Square Foundations with Variable Relative Stiffness. In: Applied Mechanics and Materials: Trends in Statics and Dynamics of Construction II. Selected, peer reviewed papers from the 13th International Conference on New Trends in Statics and Dynamics of Buildings, Bratislava, Slovakia, Oct. 15 – 16, 2015, Vol. 837, 2016, pp. 5 – 9. ISSN 1660-9336 (in English)

HULLA, J. – BEDNÁROVÁ, E.: Developing the Effectiveness of Sealing Elements in Quarternary Soils and Neovolcanites. In: Reinforcement, Sealing and Anchoring of Rock Massif and Building Structures 2016, proceedings of

the 21st International Seminar. Ostrava, Czech Republic, Feb. 18 – 19, 2016, 1. ed., Ostrava: Faculty of Civil Engineering VŠB – Technical University of Ostrava, 2016, pp. 52 – 57. ISBN 978-80-248-3890-8 (in Slovak)

CHABROŇOVÁ, J. – BEDNÁR, M. – SNOPKO, J. – OTTMAR, R.: Analysis of Geotechnical Monitoring of Tunnel Branisko. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 43 – 50. ISBN 978-619-7105-57-5 (in English)

JANTÁK, V. – MUŠEC, P.: Methods for the Geotechnical Monitoring of Bridge Structures and Their Subsoil on the R1 Nitra, West - Tekovské Nemce. In: Geo - Engineering 2016: Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, 8 pp. ISBN 978-80-227-4573-4 (in Slovak)

KOPECKÝ, M. – TURINIČ, L. – BRČEK, M. – ONDRÁŠIK, M.: Geotechnical Problems during Construction of a Railway Cut. In: Geotechnics 2016. Advanced Methods and Traditions in Geotechnics : the confefence proceedings of the 15th International Conference. Horný Smokovec, Slovakia, Sep. 21 – 22, 2016, 1. ed., Ostrava: Faculty of Civil Engineering VŠB – Technical University of Ostrava, 2016, pp. 117 – 124. ISBN 978-80-248-3935-6 (in Slovak)

ONDRÁŠIK, M. – KOPECKÝ, M. – BRČEK, M.: Indirect Identification and Importance of the Pore Structure of Rocks Used in Slovakia in the Building Industry. In: Geo – Engineering 2016: Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, 6 pp. ISBN 978-80-227-4573-4 (in Slovak)

PANUŠKA, J. – HUDACSEK, P.: Bender Elements as a Tool for the Measurement of the Small Strain Stiffness of Soil: Test on Dry and Saturated Sand Samples in Triaxial Conditions. In: Geo – Engineering 2016: Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, 11 pp. ISBN 978-80-227-4573-4 (in English)

PANUŠKA, J. – FRANKOVSKÁ, J.: Effect of a Void Ratio on the Small Strain Shear Modulus G_{max} for Coarse – Grained Soils. In: Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, Czech Republic, June 13 – 17, 2016, Vol. 161, 2016, pp. 1235 – 1239. ISSN 1877-7058 (in English)

PANUŠKA, J.: Small Strain Shear Modulus: Testing of the Dry and Unsaturated Sand with Fines. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. October 26, 2016, Bratislava, Slovakia, 1. ed., Slovak University of Technology in Bratislava, 2016, pp. 377 – 383, ISBN 978-80-227-4645-8 (in Slovak)

POLLÁK, P.: Software "S-CALC" for Calculation of a Shallow Foundation Settlement. In: Juniorstav 2016: 18th International conference of PhD students, Brno, Czech Republic, Jan. 28, 2016, 1. ed., Brno University of Technology, 2016, 6 pp. ISBN 978-80-214-5311-1 (in Slovak)

POLLÁK, P.: Analysis of the Interface Elements in the Modeling of Soil – Structure Interactions. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Oct. 26, 2016, Bratislava, Slovakia, 1. ed., Slovak University of Technology in Bratislava, 2016, pp. 390 – 397, ISBN 978-80-227-4645-8 (in Slovak)

SLÁVIK, I.: Stability Analysis of the Mine Impoundment. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 989 – 996. ISBN 978-619-7105-55-1 (in English)

SLÁVIK, I.: Penetration Testing of Liquefaction Potential of Ashes Due to Seismic Load. In: Applied Mechanics and Materials: Trends in Statics and Dynamics of Construction II. Selected, peer reviewed papers from the 13th International Conference on New Trends in Statics and Dynamics of Buildings, Bratislava, Slovakia, October 15 – 16, 2015, Vol. 837, 2016, pp. 140 – 145. ISSN 1660-9336 (in English)

STACHO, J.: The Impact of Input Parameters for Calculation of a Pile Foundation Using The Cavity Expansion Theory. In: Geo – Engineering 2016: Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, pp. 269 – 279. ISBN 978-80-227-4573-4 (in English)

STACHO, J.: Analysis of Static Load Tests of Bored Piles Using The Limit Load Curve Method. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June- 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 691 – 698. ISBN 978-619-7105-55-1 (in English)

STACHO, J.: Determination of Vertical Resistance of a Drilled Displacement Pile. In: Geotechnical Field Methods 2016: Conference proceedings. 33rd International Conference, Ústí nad Labem, Czech Republic, Sep. 8 – 9, 2016, 1. ed., Ústí nad Labem : AZ Consult, 2016, pp. 55 – 60. ISSN 1213-1237 (in English)

SÚLOVSKÁ, M. – KOPECKÝ, M. – PANUŠKA, J.: Stabilization of Landslide Area for Foundations of Highway Bridge. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 293 – 300. ISBN 978-619-7105-57-5 (in English)

SÚLOVSKÁ, M. – TURČEK, P.: Impact of Construction of Halls in Nitra on the Behavior of the Subsoil. In: Geo – Engineering 2016: Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, 7 pp. ISBN 978-80-227-4573-4 (in Slovak)

SÚLOVSKÁ, M. – TURČEK, P.: Load Tests as the Basis for Design of the Stone Columns. In: Geotechnical Field Methods 2016: Conference proceedings. 33rd International Conference, Ústí nad Labem, Czech Republic, Sep. 8 – 9, 2016, 1. ed., Ústí nad Labem : AZ Consult, 2016, pp. 71 – 76. ISSN 1213-1237 (in English)

SÚLOVSKÁ, M. – TURČEK, P. - ŠTEFUNKOVÁ, Z.: Quality Control of a Base Course Below a Hall Floor. In: Foundation Engineering - Brno 2016: 44th conference with international participation. Foundation Engineering – Brno 2016, Brno, Czech Republic, Nov. 14 – 15, 2016, 1. ed., Prague: Czech Geotechnical Society, 2016, pp. 57 – 62. ISBN 978-80-87920-04-6 (in Slovak)

SUMEC, J. – HRUŠTINEC, L.: Time – Dependent Response of Mass Continuous Solid Phase Media by Integral Form of Constitutive Equations – Mathematical Modeling. In: Applied Mechanics and Materials: Trends in Statics and Dynamics of Construction II. Selected, peer reviewed papers from the 13th International Conference on New Trends in Statics and Dynamics of Buildings, Bratislava, Slovakia, Oct. 15 – 16, 2015, Vol. 837, 2016, pp. 163 – 166. ISSN 1660-9336 (in English)

ŠKVARKA, J.: Analysis of the Filtration Stability Criteria for the Subsoil of a Hydraulic Structure – MVE Tekov. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Oct. 26, 2016, Bratislava, Slovakia, 1. ed., Slovak University of Technology in Bratislava, 2016, pp. 700 – 705, ISBN 978-80-227-4645-8 (in Slovak)

TURČEK, P. – FRANKOVSKÁ, J.: Comparing the Expected and Real Water Inflow into the Deep Excavation. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 747 – 752. ISBN 978-619-7105-55-1 (in English)

TURČEK, P.: Influence of the Quality of Engineering-Geological Investigation on Realised Construction. In: Geo – Engineering 2016: Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, pp. 300 – 307. ISBN 978-80-227-4573-4 (in Slovak)

TURČEK, P. – SÚLOVSKÁ, M.: Dynamic Load Tests on Bored Piles. In: Polní geotechnické metody 2016: sborník příspěvků. 33. mezinárodní konference, Ústí nad Labem, Czech Republic, Sep. 8 – 9, 2016, 1. ed., Ústí nad Labem: AZ Consult, 2016, pp. 77 – 82. ISSN 1213-1237 (in Slovak)

TURČEK, P. – SÚLOVSKÁ, M.: Design of Subsoil Improvements Below Halls of Industrial Parks. In: Foundation Engineering - Brno 2016 : 44th conference with international participation. Foundation engineering – Brno 2016, Brno, Czech Republic, Nov. 14 – 15, 2016, 1. ed., Prague: Czech Geotechnical Society, 2016, pp. 127 – 132. ISBN 978-80-87920-04-6 (in Slovak)

TURČEK, P.: Failures of Retaining Structures. In Foundation Engineering 2016: Proceeding of 18th conference, Stará Lesná, Slovakia, Oct. 12 – 14, 2016, Trnava: Structural Engineers Association of Slovakia, 2016, pp. 89 – 98. ISBN 978-80-89842-01-8 (in Slovak)

TURČEK, P. – SÚLOVSKÁ, M.: Assurance of the Inconsistency of Slopes. In: Foundation Engineering 2016: Proceeding of 18th conference, Stará Lesná, Slovakia, Oct. 12 – 14, 2016, Trnava: Structural Engineers Association of Slovakia, 2016, pp. 15 – 20. ISBN 978-80-89842-01-8 (in Slovak)

VLČKO, J. – GREIF, V. – BRČEK, M.: Effect of Thermal Cycles as a Potential Factor of Slope Movements. In: Geo – Engineering 2016: Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Nový Smokovec, Slovakia, June 16 – 17, 2016, Slovak University of Technology in Bratislava, 2016, 1. pp. ISBN 978-80-227-4573-4 (in Slovak)

ZLATINSKÁ, L.: Anisotropy of Seepage of Hydraulically Deposited Ash Tailing Impoundments. In: Juniorstav 2016: 18th International conference of PhD students, Brno, Czech Republic, Jan. 28, 2016, 1. ed., Brno University of Technology, 2016, 6 pp. ISBN 978-80-214-5311-1 (in Slovak)

ZLATINSKÁ, L. – SLÁVIK, I.: Compactibility and Its Influence on the Shear Strength of Selected Geomaterials Deposited into the Impoundments. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed., Sofia: STEF 92 Technology, 2016, pp. 739 – 745. ISBN 978-619-7105-55-1 (in English)

ZLATINSKÁ, L.: Liquefaction of Ash Sediment. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Oct. 26, 2016, Bratislava, Slovakia, 1. ed., Slovak University of Technology in Bratislava, 2016, pp. 424 – 430, ISBN 978-80-227-4645-8 (in Slovak)

DEPARTMENT OF LAND AND WATER RESOURCES MANAGEMENT

Head of Department

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Hydrology

Landscape Ecology

Landscape Ecology and Bioecology

Meteorology and Hydrology

Landscape Engineering

Engineering Structures in a Landscape

River Training

Pedology

River Restoration

Integrated River Basin Management

Water Management

Hydrological Field Measurements

CAD Systems in Landscape Engineering

Water Regime of a Landscape

Irrigation and Drainage

GIS in Water Management

Optional subjects

Project 1 – Sustainable Landscape Development

Basics of the Design of Landscape Structures

CAD Systems in Water Management

Project Work

Computer Modelling in Water Management

Design of Small Water Reservoirs

Revitalization of Wetlands

CAD Systems in Environmental Engineering

1.2 Postgraduate courses

Hydrology

Hydrology of Surface Waters

Hydrology of Sub-Surface Waters

Hydrodynamics of Porous Media

Methods of Field and Laboratory Experiments in Hydrology

Mathematical Modelling of Hydrological and Hydraulic Processes

Simulation Methods, Algorithms and Programming

Evaluation of the Risk of Extreme Hydrological Processes

Geoinformatics

Methods and Models of Hydrological Balance

Methods of Hydrological Forecasting

Deterministic and Stochastic Models of Hydrological Processes

Landscape Planning

Revitalization of Rivers

Soil Water Regime

Hydrochemistry and Hydrobiology

2. THESES

2.1 Bachelor theses

There were 12 works.

2.2 Graduate theses

BEHAN, Š.: Analysis of Changes in Land Use and Their Impact on Runoff in a River Basin

Supervisor: VÝLETA, R.

BEREC, A: Proposals for Landscape Engineering Measures in a Selected River Basin

Supervisor: HLAVČOVÁ, K.

CELLER, M.: Proposals for Erosion Control and Evaluation of Their Effectiveness in the Sobotište Cadastral Area

Supervisor: VÝLETA, R.

HABURAJÓVÁ, M.: Application of a Rainfall Simulator for the Solution of Tasks in Water Management

Supervisor: DANÁČOVÁ, M.

HORDÓSI, G.: Design of the Garden of a Family House, Including Irrigation

Supervisor: BAJTEK, Z.

HUDCOVIČ, L.: Design of Erosion Control in the Turá Lúka Region

Supervisor: HLAVČOVÁ, K.

HUDEC, A.: Design of Drip Irrigation for Vineyards
Supervisor: BAJTEK, Z.

LISOVSZKI, E.: The Potential of Flood Risk Reduction through Changing the Land Use in Mid-Sized Catchments in the Myjava Region of Slovakia
Supervisor: SZOLGAY, J.

REŠUTÍKOVÁ, I.: Analysis of Soil Erosion in the Svacenícký Jarok Catchment
Supervisor: KOHNOVÁ, S.

ŠAJERMANOVÁ, B.: Restoration of the River Channel and Adjacent Landscape Near a Former Water Mill
Supervisor: ŠKRINÁR, A.

VASILAKI, M.: Analysis of Projected Changes of Short-Term Rainfall Characteristics for Selected Stations in Slovakia
Supervisor: KOHNOVÁ, S.

2.3 Doctoral theses

IVAN, P.: Evaluating Quality of Aquatic Habitat of Mountainous Rivers
Supervisor: MACURA, V.

JARABICOVÁ, M.: Soil Water Regime Predictions
Supervisor: SKALOVÁ, J.

RONČÁK, P.: Parameterization of Rainfall-Runoff Models for Modelling Runoff under Climate Change
Supervisor: HLAVČOVÁ, K.

SZŐKEOVÁ, D.: Application of Multi-Regime Models for Analysis of Discharge Series
Supervisor: KOHNOVÁ, S.

VOJTKOVÁ, J.: Vegetation Effect on Erosion-Sedimentation Processes in the Floodplain Soils of the Schwechat River, Austria
Supervisor: MACURA, V.

3. RESEARCH

3.1 Research projects

Sensitivity of Flood Generation to Intensive Precipitation and Land Use in Headwater Catchments (2016-2019, SZOLGAY, J.), Research Project of APVV-15-0497

Impact of Natural Hazards on Forest Ecosystems in Slovakia under the Conditions of a Future Climate (2016-2019, SZOLGAY, J.), Research Project of APVV-15-0425

Analysis of Drought by Multicriterial Statistical Methods and Methods of Data Mining for the Design of Adaptation Measures in a Landscape (2016-2019, ČISTÝ, M.), Research Project of APVV-15-0489

Preventing and Remediating Degradation of Soils in Europe through Land Care (RECARE). (2013-1018, SZOLGAY, J.), Research Project of 7FP No. 603498

Predicted Impact of Climate and Morphological Changes on the Ecosystem of Mountainous Catchments Using Soft-Computing Technologies (2015-2018, MACURA, V.), VEGA 1/0625/15

Analysis of Climate and Hydrological Extremes by Data Mining and Hydroinformatic Methods for Adaptation Measures in a Landscape (2015-2018, ČISTÝ, M.), VEGA 1/0665/15

Parametrization of Rainfall-Runoff Processes for Modelling Extreme Runoff in Small Catchments (2015-2018, KOHNOVÁ, S.), VEGA 1/0710/15

Study of Local and Spatial Properties of Hydrometeorological Extremes in the Conditions of Nonstationarity by Copulas (2013-2016, SZOLGAY, J.), VEGA 1/0776/13

3.2 International cooperation

Cooperating institutions

Department of Hydraulic Engineering, Faculty of Civil Engineering, Czech Technical University, Prague, Czech Republic

Department of Landscape and Water Management, Faculty of Civil Engineering, Technical University, Brno, Czech Republic

Institute of Hydraulics, Hydrology and Water Management, Faculty of Civil Engineering, Vienna University of Technology, Vienna, Austria

Department of Hydraulic Structures, Warsaw Agricultural University, Poland
University of Uppsala, Sweden

Delft Hydraulics, Delft, The Netherlands

Wageningen University, Wageningen, The Netherlands

European Joint Research Centre, ISPRA, Italy

University of Bologna, Italy

Institute of Hydromechanics and Water Resources Management, Swiss Federal Institute of Technology, Zürich, Switzerland

University of Padova, Department of Land and Agroforest Environments, Italy

University of Jean Moulin Lyon 3, Lyon, France

University of Thessaly, Volos, Greece

University of Natural Resources and Life Sciences, Institute of Hydrobiology and Aquatic Ecosystem Management, Vienna, Austria

Membership in international professional organizations

HLAVČOVÁ, K.: Member of the International Association of Hydrological Sciences

HLAVČOVÁ, K.: Member of the European Geosciences Union

KOHNOVÁ, S.: Member of the European Geosciences Union

KOHNOVÁ, S.: Member of the International Association of Hydrological Sciences

SZOLGAY, J: Member of the Editorial Board of the Journal of River Basin Management

SZOLGAY, J: Member of the Editorial Board of Water Resources Management

SZOLGAY, J: Member of the Editorial Board of the Journal of Hydrology

SZOLGAY, J: Member of the Editorial Board of the Journal of Hydrological Sciences

SZOLGAY, J: National Correspondent of IAHS for Water Management Systems

SZOLGAY, J: National Representative of the International Association for Hydrological Sciences

SZOLGAY, J: Chairman of the Subdivision for Hydrological Forecasting of the Hydrological Division of the EGU

SZOLGAY, J.: Member of the Association of Hydrological Sciences

4. PUBLICATIONS

Books

NÁNÁSIOVÁ, O. – KOHNOVÁ, S.: Statistics and Probability. 1. ed. Bratislava: STU, 2016, 199 pp. University Textbook Edition. ISBN 978-80-227-4527-7 (in Slovak)

Parts of Books

MACURA, V. – IVAN, P.: Effect of Land Use Changes on the Length of Surface Runoff. In: AQUA 2016 : Proceedings. 1. ed. Bratislava : STU Bratislava, 2016, CD-ROM, pp. 217-225. ISBN 978-80-227-4612-0 (in Slovak)

SZOLGAY, J. – CAMERRA, C. – SKARBOVIK, E. – HLAVČOVÁ, K.: Flooding and Landslides. In: Soil Threats in Europe: Status, Methods, Drivers and Effects on Ecosystem Services. 1. ed. Luxembourg: European Union, 2016, pp. 128-144. ISSN 1018-5593, ISBN 978-92-79-54018-9 (in English)

Journals

AL-BEYROUTIOVÁ, M. – SABO, M. – SLEZIAK, P. – DUŠINSKÝ, R. – BIRČÁK, E. – HAUPTVOGEL, P. – KILIAN, A. – ŠVEC, M.: Evolutionary Relationships in the Genus *Secale* Revealed by DaTseq DNA Polymorphism. In: Plant Systematics and Evolution. Vol. 302, No. 8 (2016), pp. 1083-1091. ISSN 0378-2697 (in English)

BLÖSCHL, G. – SZOLGAY, J. – PARAJKA, J. – KOHNOVÁ, S. – MIKLÁNEK, P.: Thematic Issue on Floods In the Danube Basin - Processes, Patterns, Predictions. In: Journal of hydrology and hydromechanics. Vol. 64, No. 4 (2016), pp. 301-303. ISSN 0042-790X. (in English)

ČISTÝ, M. – BECOVÁ, A. – ČELÁR, L.: Analysis of Irrigation Needs Using an Approach Based on a Bivariate Copula Methodology. In: Water Resources Management. Vol. 30, No. 1 (2016), pp. 167-182. ISSN 0920-4741 (in English)

ČISTÝ, M. – ČELÁR, L.: Conversion of the Time Series of Measured Soil Moisture Data to a Daily Time Step - A Case Study Utilizing the Random Forests Algorithm. In: Journal of Sustainable Development of Energy, Water

and Environment Systems. Vol. 4, No. 2 (2016), online, pp. 183-192. ISSN 1848-9257 (in English)

DANÁČOVÁ, M. – ĎURIGOVÁ, M. – MALIARIKOVÁ, M. – HLAVČOVÁ, K.: Experimental Measurements of a Surface Runoff Formation Using a Rainfall Simulator in Laboratory Conditions. In: Acta Hydrologica Slovaca. Vol. 17, No. 2 (2016), pp. 252-259. ISSN 1335-6291 (in Slovak)

GAÁL, L. – SZOLGAY, J. – BACIGÁL, T. – KOHNOVÁ, S. – HLAVČOVÁ, K. – VÝLETA, R. – PARAJKA, J. – BLÖSCHL, G.: Similarity of Empirical Copulas of Flood Peak-volume Relationships: a Regional Case Study of North-West Austria. In: Contributions to Geophysics and Geodesy. Vol. 46, No. 3 (2016), pp. 155-178. ISSN 1335-2806 (in English)

HLAVČOVÁ, K. – KOHNOVÁ, S. – BORGA, M. – HORVÁT, O. – ŠŤASTNÝ, P. – PEKÁROVÁ, P. – MAJERČÁKOVÁ, O. – DANÁČOVÁ, Z.: Post-Event Analysis and Flash Flood Hydrology in Slovakia. In: Journal of Hydrology and Hydromechanics. Vol. 64, No. 4 (2016), pp. 304-315. ISSN 0042-790X (in English)

IVAN, P. – CHEBEŇOVÁ, T.: Assessment of the Ecological Stability of the Village of Bielovce as a Result of Changes in Land Use. In: Slovak Journal of Civil Engineering. Vol. 24, No. 2 (2016), pp. 1-6. ISSN 1210-3896 (in English)

JARABICOVÁ, M. – MINARIČ, P.: Soil-Water Storage Predictions for Cultivated Crops on the Záhorská Lowlands. In: Slovak Journal of Civil Engineering. Vol. 24, No. 2 (2016), pp. 31-40. ISSN 1210-3896 (in English)

JENEIOVÁ, K. – KOHNOVÁ, S. – HALL, J. – PARAJKA, J.: Variability of Seasonal Floods in the Upper Danube River Basin. In: Journal of Hydrology and Hydromechanics. Vol. 64, No. 4 (2016), pp. 357-366. ISSN 0042-790X (in English)

KOHNOVÁ, S. – BOHDALOVÁ, M. – BOHDAL, R. – OCHABOVÁ, K. [Zechelová, K.]: Applicability of Basic Radial Functions for the Interpolation of Short-Term Rainfall Scaling Exponents in Slovakia. In: Acta Hydrologica Slovaca. Vol. 17, No. 2 (2016), pp. 243-251. ISSN 1335-6291 (in Slovak)

KOHNOVÁ, S. – GAÁL, L. – BACIGÁL, T. – SZOLGAY, J. – HLAVČOVÁ, K. – VALENT, P. – PARAJKA, J. – BLÖSCHL, G.: Process-Based Selection of Copula Types for Flood Peak-volume Relationships in Northwest Austria: a Case Study. In: Contributions to Geophysics and Geodesy. Vol. 46, No. 4 (2016), pp. 245-268. ISSN 1335-2806 (in English)

MACURA, V. – ŠTEFUNKOVÁ, Z. – ŠKRINÁR, A.: Determination of the Effect of Water Depth and Flow Velocity on the Quality of an In-Stream Habitat in Terms of Climate Change. In: Advances in Meteorology. Vol. 2016, (2016), [17] pp. ISSN 1687-9309 (in English)

MAJOROŠOVÁ, M.: DPSIR Framework - A Decision-Making Tool for Municipalities. In: Slovak Journal of Civil Engineering. Vol. 24, No. 4 (2016), pp. 45-50. ISSN 1210-3896 (in English)

MALIARIKOVÁ, M. – NOSKO, R. – LÁTKOVÁ, T. – SKALOVÁ, J. – MINARIČ, P.: The Determination of Options Provided for Water Retention Curves of the Myjava River Basin. In: Acta Hydrologica Slovaca. Vol. 17, No. 2 (2016), pp. 313-321. ISSN 1335-6291 (in Slovak)

MARKOVÁ, R. – XHAJA, A. – KOHNOVÁ, S.: Trend and Seasonality Analysis of the Maximum Annual Discharges in Selected Gauging Stations at the Hron River Basin. In: *Acta Hydrologica Slovaca*. Vol. 17, No. 2 (2016), pp. 224-234. ISSN 1335-6291 (in Slovak)

PAPAIANOANNOU, G. J. – KOHNOVÁ, S. – BACIGÁL, T. – SZOLGAY, J. – HLAVČOVÁ, K. – LOUKAS, A.: Joint Modelling of Flood Peaks and Volumes: A Copula Application for the Danube River. In: *Journal of Hydrology and Hydromechanics*. Vol. 64, No. 4 (2016), pp. 382-392. ISSN 0042-790X (in English)

RONČÁK, P. – HLAVČOVÁ, K. – LÁTKOVÁ, T.: Estimation of the Effect of Changes in Forest Associations on Runoff Processes in Basins: Case Study in the Hron and Topľa River Basins. In: *Slovak Journal of Civil Engineering*. Vol. 24, no. 3 (2016), pp. 1-7. ISSN 1210-3896 (in English)

SLEZIAK, P. – SZOLGAY, J. – HLAVČOVÁ, K. – PARAJKA, J.: The Impact of the Variability of Precipitation and Temperatures on the Efficiency of a Conceptual Rainfall-Runoff Model. In: *Slovak Journal of Civil Engineering*. Vol. 24, No. 4 (2016), pp. 1-7. ISSN 1210-3896 (in English)

SOČUVKA, V. – IVAN, P. – HLAVČOVÁ, K. – KOHNOVÁ, S. – VELÍSKOVÁ, Y.: Clogging Analysis of the Svacenícký Jarok Polder. In: *Acta Hydrologica Slovaca*. Vol. 17, No. 1 (2016), pp. 117-124. ISSN 1335-6291 (in Slovak)

SZOLGAY, J. – GAÁL, L. – BACIGÁL, T. – KOHNOVÁ, S. – HLAVČOVÁ, K. – VÝLETA, R. – PARAJKA, J. – BLÖSCHL, G.: A Regional Comparative Analysis of Empirical and Theoretical Flood Peak-Volume Relationships. In: *Journal of Hydrology and Hydromechanics*. Vol. 64, No. 4 (2016), pp. 367-381. ISSN 0042-790X (in English)

VALACH, J. – VIDO, J. – ŠKVARENINA, J.: Occurrences of Drought in the Horné Požitavie Region over the Period 1966-2013. In: *Acta Hydrologica Slovaca*. Vol. 17, No. 1 (2016), pp. 30-36. ISSN 1335-6291 (in Slovak)

VALENT, P. – RONČÁK, P. – MALIARIKOVÁ, M. – BEHAN, Š.: Utilization of Historical Maps in the Land Use Change Impact Studies: a Case Study from Myjava River Basin. In: *Slovak Journal of Civil Engineering*. Vol. 24, No. 4 (2016), pp. 15-26. ISSN 1210-3896 (in English)

VÝLETA, R. – CELLER, M. – DANÁČOVÁ, M.: Effect of Erosion Control Protections on Water Erosion and Sediment Transport in the Village of Sobotišťe. In: *Czech Journal of Civil Engineering*. Vol. 2, No. 2 (2016), online, pp. 162-168. ISSN 2336-7148 (in Slovak)

Conference Proceedings

ČELÁR, L. – ČISTÝ, M.: RIRR – New Open-Source Model for the Design, Analysis and Modelling of Irrigation Systems. In: *SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: Conference Proceedings. Extended Scientific Sessions. Vienna, Austria, 2 - 5 Nov. 2016. 1. ed. Sofia : STEF 92 Technology, 2016, pp. 251-258. ISSN 1314-2704. ISBN 978-619-7105-81-0 (in English)*

ČELÁR, L.: Two-Phase Optimization for the Design of an Irrigation System. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 613-618. ISBN 978-80-227-4645-8 (in Slovak)*

ČISTÝ, M. – JARABICOVÁ, M. – MINARIČ, P.: Spatial Assessment of Soil Water Storage as an Identifier of Areas Threatened by Drought. In: *Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, CR, 13. – 17. 6. 2016. Vol. 161, (2016), online, pp. 1738-1744. ISSN 1877-7058 (in English)*

DANÁČOVÁ, M. – FENCÍK, R. – NOSKO, R.: Historical Development of the Permanent Gully Erosion - Case Study Tura Luka. In: *SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: Conference Proceedings. Albena, Bulgaria, 30 June - 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 391-398. ISSN 1314-2704. ISBN 978-619-7105-61-2 (in English)*

DANÁČOVÁ, M. – SZOLGAY, J. – NOSKO, R.: Hydrological Flow Routing for Flow Conditions Before and After the Completion of the Gabčíkovo Hydropower Scheme. In: *HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Abstracts of the Conference. Vienna/ Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 6. ISBN 978-963-334-296-1 (in English)*

ĐURIGOVÁ, M.: Examination of the Potential Formation of Surface Runoff on a Slope with a Rainfall Simulator. In: *28. Conference of Young Hydrologists. Conference Proceedings. Bratislava, SR, 9. 11. 2016. Bratislava: SHMI, 2016, CD-ROM, [12] pp. ISBN 978-80-88907-94-7 (in Slovak)*

HLAVČOVÁ, K. – RONČÁK, P. – MALIARIKOVÁ, M. – LÁTKOVÁ, T. – KORBELOVÁ, L.: Changes in Hydrological Regime under Changed Climate and Forest Conditions in Mountainous Basins in Slovakia. In: *Geophysical Research Abstracts. Volume 18/2016: the Open-Access Abstracts of the EGU General Assemblies. Göttingen: Copernicus Publications, 2016, online, [1] pp. ISSN 1607-7962 (in English)*

HLAVČOVÁ, K. – ŠTEFUNKOVÁ, Z. – VALENT, P. – KOHNOVÁ, S. – VÝLETA, R. – SZOLGAY, J.: Modelling the Climate Change Impact on Monthly Runoff in Central Slovakia. In: *Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, CR, 13. – 17. 6. 2016. Vol. 161, (2016), online, pp. 2127-2132. ISSN 1877-7058 (in English)*

HLAVČOVÁ, K. – GAÁL, L. – SZOLGAY, J. – KOHNOVÁ, S. – VÝLETA, R. – DANÁČOVÁ, M. – PARAJKA, J.: Analysis of the Factors Controlling the Relationship between Flood Peaks and Volumes of Annual Maximum Flood Discharges: a Regional Case Study in Austria. In: *HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Abstracts of the Conference. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 11. ISBN 978-963-334-296-1 (in English)*

- IVAN, P.: Modification of the Suitability Curve of the Depth of a Habitat for the Stone Loach. In: Juniorstav 2016: 18. Conference of Doctoral Study. Brno, CR, 28. 1. 2016. Brno: VUT in Brno, 2016, CD-ROM, 7 pp. ISBN 978-80-214-5311-1 (in Slovak)
- IVAN, P. – MACURA, V. – ŠTEFUNKOVÁ, Z. – ŠKRINÁR, A. – MAJOROŠOVÁ, M. – VOJTKOVÁ, J.: Use of Bioindication for Design Parameters of River Training in Urbanized Areas. In: Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, CR, 13. – 17. 6. 2016. Vol. 161, (2016), online, pp. 36-41. ISSN 1877-7058 (in English)
- IVAN, P. – MACURA, V.: Application of Extended Habitat Suitability Curves for Depth in Nitrica River. In: ENVIRO 2015: Conference Proceeding. Račkova dolina, SR, 18. 11. – 20. 11. 2015. Nitra: Slovak Agricultural University in Nitra, 2016, CD-ROM, pp. 54-61. ISSN 2453-7357. ISBN 978-80-552-1553-2 (in English)
- JARABICOVÁ, M.: Using Monitoring in the Simulation of a Soil Water Regime. In: Juniorstav 2016: 18. Conference of Doctoral Study. Brno, CR, 28. 1. 2016. Brno: VUT in Brno, 2016, CD-ROM, 6 pp. ISBN 978-80-214-5311-1 (in Slovak)
- KORBEOVÁ, L.: Ecosystem Services of Soil in the RECARE Project. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 213-221. ISBN 978-80-227-4645-8 (in Slovak)
- LÁTKOVÁ, T. – SKALOVÁ, J.: Climate Change in Poiplie. In: Transport of Water, Chemicals and Energy in the Soil-Plant-Atmosphere System. 23rd International Poster Day and Institute of Hydrology Open Day. Proceedings of Peer-Reviewed Contributions. Bratislava, SR, 10. Nov. 2016. Bratislava: Institute of Hydrology of SAS, 2016, CD-ROM, pp. 77-87. ISBN 978-80-89139-38-5 (in Slovak)
- LÁTKOVÁ, T.: Analysis of Runoff Generation on a Hillslope by a Rainfall Simulator. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 657-664. ISBN 978-80-227-4645-8 (in Slovak)
- MACURA, V. – ŠTEFUNKOVÁ, Z. – ŠKRINÁR, A. – HALAJ, P.: Design of Restoration of Regulated Rivers Based on Bioindication. In: Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, CR, 13. – 17. 6. 2016. Vol. 161, (2016), online, pp. 1025-1029. ISSN 1877-7058 (in English)
- MACURA, V. – ŠKRINÁR, A.: Restorative Measures of the Porec Brook in the Abrod Reserve. In: ENVIRO 2015: Conference Proceedings. Račkova dolina, SR, 18. 11. – 20. 11. 2015. Nitra: Slovak Agricultural University in Nitra, 2016, CD-ROM, pp. 201-207. ISSN 2453-7357. ISBN 978-80-552-1553-2 (in English)
- MAJOROŠOVÁ, M.: DPSIR Framework for Fallopia Japonica. In: Science of Young 2016: Proceedings. 7. – 9. Sept. 2016, Brno, CR. Nitra: Slovak Agricultural University in Nitra, 2016, online, pp. 90-95. ISBN 978-80-552-1535-8 (in Slovak)
- MAJOROŠOVÁ, M.: DPSIR Framework - A Decision Making Tool for Municipalities. In: HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: abstracts of the conference. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 16. ISBN 978-963-334-296-1 (in English)
- MAJOROŠOVÁ, M.: Decision Support Management Tool for Fallopia Japonica (Houtt.) Ronse Decr. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. October 2016, Bratislava. Bratislava: Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 222-225. ISBN 978-80-227-4645-8 (in Slovak)
- MALIARIKOVÁ, M. – NOSKO, R. – MINARIČ, P. – LÁTKOVÁ, T.: The Determination of Options Provided for Water Retention Curves for the River Basin of the Myjava River. In: Transport of Water, Chemicals and Energy in the Soil-Plant-Atmosphere System. 23rd International Poster Day and Institute of Hydrology Open Day. Bratislava, SR, 10. Nov. 2016. Bratislava: Institute of Hydrology SAS, 2016, p. 14. ISBN 978-80-89139-38-5 (in Slovak)
- MALIARIKOVÁ, M. – NOSKO, R. – LÁTKOVÁ, T.: Experimental Field Measurements of Surface Runoff Using a Rainfall Simulator. In: Workshop of Adolf Patera 2016: Extreme Hydrological Events in Catchments. Proceedings. Prague, CR, 16. 11. 2016. Prague: CVUT in Prague, 2016, CD-ROM, pp. 133-142. ISBN 978-80-01-06048-3 (in Slovak)
- MALIARIKOVÁ, M.: Analysis of Land Use Changes in the Myjava River Basin and Their Impact on the Runoff Processes from the Catchment. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 226-233. ISBN 978-80-227-4645-8 (in Slovak)
- MARKOVÁ, R. – ĎURANOVÁ, K.: Regionalization of the SCS-CN Method Parameters for Selected Areas of Slovakia. In: 28. Conference of Young Hydrologists: Conference Proceedings. Bratislava, SR, 9. 11. 2016. Bratislava: SHMI, 2016, CD-ROM, [13] pp. ISBN 978-80-88907-94-7 (in Slovak)
- MARKOVÁ, R. – XHAJA, A. – KOHNOVÁ, S.: The Analysis of the Seasonality and Trends of the Annual Maximum Discharges in the Upper Danube River. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: Conference Proceedings. Extended scientific sessions. Vienna, Austria, 2 - 5 Nov. 2016. Sofia: STEF 92 Technology, 2016, pp. 303-310. ISSN 1314-2704. ISBN 978-619-7105-81-0 (in English)

MARKOVÁ, R. – XHAJA, A. – KOHNOVÁ, S.: Trend and Seasonality Analysis of Maximum Annual Discharges for Selected Gauging Stations at the Hron River Basin. In: Transport of Water, Chemicals and Energy in the Soil-Plant-Atmosphere System. 23rd International Poster Day and Institute of Hydrology Open Day, abstracts. Bratislava, SR, 10. Nov. 2016. Bratislava: Institute of Hydrology of SAS, 2016, pp. 16. ISBN 978-80-89139-38-5 (in English)

MARKOVÁ, R. – KOHNOVÁ, S. – RANDUSOVÁ, B. [Karabová, B.]: Watershed Parameterization of the SCS-CN in the Upper Hron River and Myjava Basins. In: HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: abstracts of the conference. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, pp. 18. ISBN 978-963-334-296-1 (in English)

MARKOVÁ, R.: Regionalisation of the SCS-CN Method for the Myjava Subbasins. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 665-672. ISBN 978-80-227-4645-8 (in Slovak)

MARKOVÁ, R. – KOHNOVÁ, S. – RANDUSOVÁ, B. [Karabová, B.]: Watershed Parameterization of the SCS-CN in the Upper Hron River and Myjava Basins. In: HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Posters of the Conference. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, pp. 11. ISBN 978-963-334-296-1 (in English)

NÉMETOVÁ, Z. – VASEKOVÁ, B.: Modelling Surface Runoff from an Agricultural Area. In: 28. Conference of Young Hydrologists: Conference Proceedings. Bratislava, SR, 9. 11. 2016. Bratislava: SHMI, 2016, CD-ROM, 11 pp. ISBN 978-80-88907-94-7 (in Slovak)

NOSKO, R. – VÝLETA, R. – FRAŠTIA, M. – ŠKRINÁR, A. – DANÁČOVÁ, M.: Estimation of Changes in Erosion Gully on a Hillslope. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: Conference Proceedings. Extended scientific sessions. Vienna, Austria, 2 - 5 November 2016. Sofia: STEF 92 Technology, 2016, pp. 95-102. ISSN 1314-2704. ISBN 978-619-7105-81-0 (in English)

NOSKO, R.: Monitoring Gully Erosion. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 234-240. ISBN 978-80-227-4645-8 (in Slovak)

RANDUSOVÁ, B. [Karabová, B.] – KOHNOVÁ, S. – STUDVOVÁ, Z. – MARKOVÁ, R. – NOSKO, R.: Assessment of Watershed Regionalization for the Land Use Change Parameterization. In: Geophysical Research Abstracts. Vol. 18/2016: the Open-aAccess Abstracts of the EGU General Assemblies. Göttingen: Copernicus Publications, 2016, online, [1] pp. ISSN 1607-7962 (in English)

RANDUSOVÁ, B. [Karabová, B.] – STUDVOVÁ, Z.: The Curve Number Method Adjustment to the Conditions of the Myjava River Subcatchment. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 719-725. ISSN 1314-2704. ISBN 978-619-7105-61-2 (in English)

SLEZIAK, P.: The Impact of the Selection the Objective Function on the Parametrization of Conceptual Rainfall-Runoff Model. In: Juniorstav 2016: 18. Conference of Doctoral Study. Brno, CR, 28. 1. 2016. Brno: VUT in Brno, 2016, CD-ROM, 8 pp. ISBN 978-80-214-5311-1 (in English)

SLEZIAK, P.: Identification of Factors Affecting the Efficiency of a Hydrological Model by Decision Trees. In: 28. Conference of Young Hydrologists: Conference Proceedings. Bratislava, SR, 9. 11. 2016. Bratislava: SHMI, 2016, CD-ROM, 12 pp. ISBN 978-80-88907-94-7 (in Slovak)

SLEZIAK, P. – SZOLGAY, J. – HLAVČOVÁ, K. – PARAJKA, J.: Assessment of the Performance of a Hydrological Model in Relation to Selected Climatic Characteristics. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: Conference Proceedings. Extended scientific sessions. Vienna, Austria, 2 - 5 Nov. 2016. Sofia: STEF 92 Technology, 2016, pp. 43-52. ISSN 1314-2704. ISBN 978-619-7105-81-0 (in English)

SLEZIAK, P.: Assessment of the Relationship between the Selected Parameters of a Hydrological Model and the Climatic Characteristics. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 686-692. ISBN 978-80-227-4645-8 (in Slovak)

SLEZIAK, P. – SZOLGAY, J. – HLAVČOVÁ, K. – PARAJKA, J.: The Impact of the Variability of Precipitation and Temperatures on the Efficiency of a Conceptual Rainfall-Runoff Model. In: HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Abstracts of the Conference. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, pp. 21. ISBN 978-963-334-296-1 (in English)

SOLDÁNOVÁ, V.: Creation of the Klinger Water Reservoir Bottom Profiles with the Use of GIS. In: 28. Conference of Young Hydrologists: Conference Proceedings. Bratislava, SR, 9. 11. 2016. 1. ed. Bratislava : SHMI, 2016, CD-ROM, [8] pp. ISBN 978-80-88907-94-7 (in Slovak)

STUDVOVÁ, Z. – DANÁČOVÁ, M.: Erosion and Transport Processes and Their Quantification by Erosion Models in Terms of Erosion Control. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems: Conference Proceedings. Albena, Bulgaria, 30 June - 6 July 2016. Sofia: STEF 92 Technology, 2016, pp. 289-296. ISSN 1314-2704. ISBN 978-619-7105-61-2 (in English)

STUDVOVÁ, Z.: Modelling Erosion and Surface Runoff from the View Point of Prevention of Soil Erosion. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. Bratislava: STU Bratislava, 2016, CD-ROM, pp. 693-699. ISBN 978-80-227-4645-8 (in Slovak)

SZOLGAY, J. – GAÁL, L. – BACIGÁL, T. – KOHNOVÁ, S. – HLAVČOVÁ, K. – VÝLETA, R. – BLÖSCHL, G.: A Regional Look at the Selection of a Process-Oriented Model for Flood Peak/Volume Relationships. In: *Proceedings of the International Association of Hydrological Sciences: The spatial dimensions of water management – Redistribution of benefits and risks*. Vol. 373, (2016), online, pp. 61-67. ISSN 2199-8981 (in English)

ŠTEFUNKOVÁ, Z. – ŠKRINÁR, A. – BELČÁKOVÁ, I. – HALAJ, P. – IVAN, P.: Determination of the Qualitative Features of Watercourses for Restoration in the Urban Environment. In: *Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016*. Prague, CR, 13. – 17. 6. 2016. Vol. 161, (2016), online, pp. 23-29. ISSN 1877-7058 (in English)

VALACH, J.: Evaluation of the Growing Season in the Horné Požitavie Area. In: *Interactive Conference of Young Scientists 2016: Abstracts*. Bratislava: Preveda, 2016, online, [1] pp. ISBN 978-80-972360-0-7 (in Slovak)

VALACH, J.: Evaluation of the Singularity of May: Pankrác, Servác, Bonifác and Sophia. In: *Interactive Conference of Young Scientists 2016: Abstracts*. 2016. Bratislava: Preveda, 2016, online, [1] pp. ISBN 978-80-972360-0-7 (in Slovak)

VALENT, P. – VÝLETA, R. – DANÁČOVÁ, M. – SLEZIAK, P. – KOTRÍKOVÁ, K.: Multi-Objective Calibration of a Spatially Semi-distributed Rainfall Runoff Model and its Snow Water Equivalent Module. In: *Geophysical Research Abstracts*. Vo. 18/2016: the Open-Access Abstracts of the EGU General Assemblies. Göttingen: Copernicus Publications, 2016, online, [1] pp. ISSN 1607-7962 (in English)

VALENT, P. – BULÍK, M.: The Selection of an Appropriate Baseflow Separation Method: A Case Study from Jalovecký Creek. In: *HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Posters of the Conference*. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 6. ISBN 978-963-334-296-1. (in English)

VALENT, P. – RONČÁK, P. – MALIARIKOVÁ, M. – BEHAN, Š.: Utilization of Historical Maps in Studies on the Impact of Changes in Land Use: A Case Study from the Myjava River Basin. In: *HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Abstracts of the Conference*. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 25. ISBN 978-963-334-296-1 (in English)

VASEKOVÁ, B. – KRISTIÁNOVÁ, K.: Renovation of the Holy Valley in Marianka by Bratislava in Relationship to a Pilgrimage Destination. In: *Student Scientific Conference FZKI 2016*, 20. 4. 2016, Nitra. Nitra: Slovak Agricultural University in Nitra, 2016, pp. 22-23. ISBN 978-80-552-1543-3.

VELÍSKOVÁ, Y. – SOČUVKA, V. – STUDVOVÁ, Z. – HLAVČOVÁ, K. – KOHNOVÁ, S.: Estimation of Soil Erosion and Sediment Transport to the Water Reservoir of Svacenicý Creek. In: *HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Abstracts of the Conference*. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 26. ISBN 978-963-334-296-1 (in English)

VÝLETA, R. – DANÁČOVÁ, M. – VALENT, P. – SZOLGAY, J.: Analysis and Evaluation of the Hydrological Balance on the Parná River and Water Management Systems of the Horné Orešany Reservoir. In: *Workshop of Adolf Patera 2016: Extreme Hydrological Events in Catchments. Conference Proceedings*. Prague, CR, 16. 11. 2016. Prague: CVUT in Prague, 2016, CD-ROM, pp. 90-103. ISBN 978-80-01-06048-3 (in Slovak)

VÝLETA, R.: A Stochastic Modelling Approach for Synthetic Mean Monthly Flows Using a Modified Thomas-Fiering Model. In: *HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Posters of the Conference*. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 12. ISBN 978-963-334-296-1 (in English)

VÝLETA, R.: Modelling a Runoff Regime Depending on the Method of Calculation of the Potential Evapotranspiration. In: *HydroCarpath 2016. Catchment Processes in Regional Hydrology: From Plot to Regional Scales - Monitoring Catchment Processes and Hydrological Modelling: Abstracts of the Conference*. Vienna/Bratislava/Sopron, 27. 10. 2016. Sopron: University of West Hungary Press, 2016, p. 28. ISBN 978-963-334-296-1 (in English)

DEPARTMENT OF HYDRAULIC ENGINEERING

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Basics of River Hydraulics
Biocorridors and EIA
Energy Utilization of Water Sources
Flood Protection and Energy Utilization of Reservoirs
Flow of Liquids
Groundwater Hydraulics
Hydraulic Structures
Hydraulic Structures in Land
Hydraulics
Hydrodynamics of a Porous Environment
Hydroinformatics
Hydromechanics
Project 1
Project 2
Project 3
Structures for the Protection and Utilization of Land
Studio Work – Hydraulic Engineering
Utilization of Water Power
Waterways
Weir Structures
Weirs and Waterways

Obligatory elective subjects

Biocorridors and Fish-Passes
CAD Systems in Land Planning
Computer Design Support in Hydraulic Engineering
Flood Hydraulics and GIS Mapping
Hydroinformatics
Management of Water Management
Mathematical Modelling in Water Management
Operational Management of Hydraulic Structures

Operation of Hydropower Plants
Planning and Constructing Water Structures
Practical Problems in Flood Protection
Project 1
Small Hydropower Plants
Software Applications in Hydraulics
Water Management Structures
Water Structures

Obligatory elective subjects

CAD in Hydraulic Structures
Computer Design Support in Hydraulic Engineering
Small Hydropower Plants

1.2 Postgraduate courses

Advanced Issues of Hydraulic Structures
Fluid Mechanics
Hydropower Systems
Physical Modelling of Hydrodynamic Phenomena

2. THESES

2.1 Bachelor theses

There were 14 works.

2.2 Graduate theses

BAĎURA, J.: The Use of a Combined 1D and 2D Hydrodynamic Model for Simulation of a Flood in the City of Bratislava
Supervisor: ORFÁNUS, M.

BAGI, M.: Assessment of the Existing Design of Flood Protection of the City District of Rača
Supervisor: ŠOLTÉSZ, A.

KOPÁČOVÁ, A.: Design of Water Management Measures and Utilization of Hydropower in the Area of Trstie
Supervisor: DUŠIČKA, P

MIČKALÍKOVÁ, I.: The Sered' Water Works on the Váh River – Assessment of Flow Conditions with Respect to Navigation

Supervisor: MOŽIEŠIK, Ľ.

VRÁBEL, M.: Design of a Small Hydropower Plant

Supervisor: ŠULEK, P.

ZINAW, D.S.: Design and Verification of the Groundwater Control for a Planned Industrial Park near Nitra

Supervisor: BAROKOVÁ, D.

3. RESEARCH

3.1 Research projects

Teaching and Learning Civil Engineering in the European Context (2005–2016, ŠOLTÉSZ, A.), CEEPUS CIII-BG-0022-08-1213

ENHANCE - Strengthening National Research and Innovation Capacities in Vietnam (2015–2017, ŠOLTÉSZ, A.), 561749-EPP-1-2015-1-ES-EPPKA2-CBHE-SP

New Possibilities for the Utilization of Drainage Channel Systems with Respect to the Protection and Utilization of Land (2015–2019, ŠOLTÉSZ, A.), APVV-14-3799

3.2 International cooperation

Cooperating institutions

Czech Technical University, Prague, Faculty of Civil Engineering, Department of Hydraulic Engineering, Czech Republic

Technical University of Brno, Faculty of Civil Engineering, Institute of Water Structures, Czech Republic

Membership in international professional organizations

Šoltész, A.: International Commission on Irrigation and Drainage (ICID) – Vice President of ICID Slovak Committee, Member of European Workgroup (ERWG)

Šoltész, A.: International Association of Hydrological Sciences (IAHS) – National Correspondent of Ground Water Workgroup

4. PUBLICATIONS

Parts of Books

ČERVEŇANSKÁ, M. – BAROKOVÁ, D. – ŠOLTÉSZ, A.: Analysis of the Groundwater Flow on Waterwork Islands in Bratislava. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 1–9, ISBN 978–80–227–4612–0 (in Slovak)

ČERVEŇANSKÁ, M. – BAROKOVÁ, D. – ŠOLTÉSZ, A.: Identification of Areas Potentially at Risk from Increased Groundwater Levels. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 57–61, ISBN 978–80–227–4612–0 (in Slovak)

ČUBANOVÁ, L. – DUŠIČKA, M. – KINCZER, T.: Fish Passes as Multipurpose Facilities. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 174–182, ISBN 978–80–227–4612–0 (in Slovak)

DUŠIČKA, M. – ŠULEK, P.: Additional Energy Use of Existing Water Structures. In: AQUA 2016 : Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 40–44, ISBN 978–80–227–4612–0 (in Slovak)

DUŠIČKA, M. – RUMANN, J.: Characteristics and Problems of Pit Intake Structures. In: AQUA 2016 : Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 45–49, ISBN 978–80–227–4612–0 (in Slovak)

JANIČ, A. – ŠOLTÉSZ, A.: Proposing and Evaluating Detention Reservoirs Using 1D Modelling. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 117–124, ISBN 978–80–227–4612–0 (in Slovak)

ORFÁNUS, M. – ŠULEK, P. – MOŽIEŠIK, Ľ. – PAVLÍKOVÁ, A.: Mathematical Modelling of Hydraulic Phenomena in the Area of the Kolárovo Hydraulic Structure. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 74–78, ISBN 978–80–227–4612–0 (in Slovak)

PALKOVIČOVÁ, A. – HRIVNÁK, M. – ORFÁNUS, M.: Calibration Procedure of the Water Surface Regime in a HEC–RAS Environment. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 87–91, ISBN 978–80–227–4612–0 (in Slovak)

PAVLÍKOVÁ, A. – MOŽIEŠIK, Ľ.: Problem of Navigational Safety on Inland Waterways. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 154–157, ISBN 978–80–227–4612–0 (in Slovak)

ŠULEK, P. – KINCZER, T.: Control System of the Operation of Gabčíkovo. In: AQUA 2016: Collection of Works. 1st. ed., Bratislava, Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, CD-ROM, pp. 165–173, ISBN 978–80–227–4612–0 (in Slovak)

Textbooks

KAMENSKÝ, J. – ŠOLTÉSZ, A. – BAROKOVÁ, D.: Groundwater Hydraulics. 2nd Supplemented and Revised Edition, Bratislava, Slovak University of Technology in Bratislava, 2016. 156 pp. Edition of Textbooks, ISBN 978–80–227–4657–1 (in Slovak)

Journals

ANDRÁSSY, T. – BAROKOVÁ, D.: Numerical Modelling of Groundwater Flow Close to Drinking Water Resources During Flood Events. In: Pollack Periodica, Vol. 11, No. 1 (2016), pp. 43–54, ISSN 1788–1994 (in English)

ČERVENĀNSKÁ, M. – BAROKOVÁ, D. – ŠOLTĚSZ, A.: Preliminary Assessment of Flood Risk Due to Increasing the Groundwater Level. In: Acta Hydrologica Slovaca, Vol. 17, No. 1 (2016), pp. 37–42, ISSN 1335–6291 (in Slovak)

ČERVENĀNSKÁ, M. – BAROKOVÁ, D. – ŠOLTĚSZ, A.: Modelling the Groundwater Level Changes in an Area of Water Resources Operations. In: Pollack Periodica, Vol. 11, No. 3 (2016), pp. 83–92, ISSN 1788–1994 (in English)

ČERVENĀNSKÁ, M. – JANÍK, A. – ŠOLTĚSZ, A. – BAROKOVÁ, D. – GRAMBLIČKA, M.: Determination of Input Data for the Utilization of Drainage Channel Systems in the Improvement of a Water Regime in Wetland Systems. In: Acta Hydrologica Slovaca, Vol. 17, No. 2 (2016), pp. 133–139, ISSN 1335–6291 (in Slovak)

KELČÍK, S. – PINDJAKOVÁ, T. – ŠOLTĚSZ, A.: Assessment and Design of the Flood Protection Measures in the District of Levice (Slovakia). In: Pollack Periodica, Vol. 11, No. 1 (2016), pp. 35–41, ISSN 1788–1994 (in English)

KINCZER, T. – ŠULEK, P.: The Impact of Genetic Algorithm Parameters on the Optimization of Hydro–Thermal Coordination. In: Pollack Periodica, Vol. 11, No. 2 (2016), pp. 113–123, ISSN 1788–1994 (in English)

PAVLÍKOVÁ, A. – MOŽIEŠIK, L.: Optimization of the Operation of the Selice Water Structure on the Váh River with Regard to Navigational Safety. In: Pollack Periodica, Vol. 11, No. 3 (2016), pp. 93–104, ISSN 1788–1994 (in English)

PINDJAKOVÁ, T. – KELČÍK, S. – ŠOLTĚSZ, A.: Simulation of Flood Progress on the River Gidra. In: Pollack Periodica, Vol. 11, No. 1 (2016), pp. 25–34, ISSN 1788–1994 (in English)

ŠOLTĚSZ, A.: Dewatering a Channel System in Slovakia. In: Vodné hospodárstvo na Východoslovenskej nížine. Vol. 19, No. 1 (2016), p. 4, ISSN 1339–4096 (in Slovak)

ŠULEK, P.: Software Support of Scheduling Generation in Hydropower Plants. In: Inžinierske stavby. Vol. 64, No. 4 (2016), pp. 66–68, ISSN 1335–0846 (in Slovak)

Conference Proceedings

BAROKOVÁ, D. – ŠOLTĚSZ, A. – GRAMBLIČKA, M. – ČERVENĀNSKÁ, M. – JANÍK, A.: Dewatering System in East Slovakian Lowland and Its Hydrologic–Hydraulic Assessment (DS – ESL–1, ESL–2, PP – Stretavka I, II). In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 601–609, ISBN 978–80–7509–458–2 (in English)

BAROKOVÁ, D. – ŠOLTĚSZ, A. – ČERVENĀNSKÁ, M. – ANDRÁSSY, T.: Water Resources Investigation During Flood Period. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 7–20, ISBN 978–80–7509–458–2 (in English)

BAROKOVÁ, D. – ŠOLTĚSZ, A. – ANDRÁSSY, T. – ČERVENĀNSKÁ, M.: Mathematical Modelling of Ground Water Flow Using FEM. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 21–31, ISBN 978–80–7509–458–2 (in English)

BAROKOVÁ, D. – ŠOLTĚSZ, A. – MALÍK, P.: Determination of Impact of Water Withdrawal from Lake on Ground Water Level. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 85–92, ISBN 978–80–7509–458–2 (in English)

BAROKOVÁ, D. – ŠOLTĚSZ, A.: Impact of TEN–T Railway Construction on Ground Water Level Development. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 93–102, ISBN 978–80–7509–458–2 (in English)

BAROKOVÁ, D. – DUŠEK, P. – DUŠIČKA, P. – ŠOLTĚSZ, A.: Impact of Small Hydropower Plant Construction on Ground Water Regime and Possibilities of Its Restoration. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 124–133, ISBN 978–80–7509–458–2 (in English)

BAROKOVÁ, D. – ŠOLTĚSZ, A. – DUŠIČKA, P.: Influence of Construction of Hydropower Plant on Ground Water Level Regime. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 134–150, ISBN 978–80–7509–458–2 (in English)

BAROKOVÁ, D. – ŠOLTĚSZ, A.: Ground Water Flow Modelling in the Floodplain of the Danube River. In: Proceedings of Conference on the Innovative Information–Communication Technologies in Water Management, Bratislava, 16.12. 2016, Liptovský Ján, PROHU, 2016, pp. 77–85, ISBN 978–80–89535–22–4 (in English)

ČERVENĀNSKÁ, M. – ŠOLTĚSZ, A. – BAROKOVÁ, D. – JANÍK, A.: Evaluation of Water Management in Regions Affected By Water Structure Construction and Operation. In: Proceedings of the 3rd International Conference Water 2016. Water Across Time in Engineering Research, Romania, 23. – 25. 6. 2016. 1st Edition, Constanta, Ovidius University of Constanta, 2016, pp. 131–138, ISSN 1584–5990 (in English)

ČERVENĀNSKÁ, M. – BAROKOVÁ, D. – ŠOLTĚSZ, A. – JANÍK, A.: Preliminary Assessment of Flood Risk Due to Increased Groundwater Levels in Slovakia. In: Proceedings of the SGEM 2016, 16th International Multidisciplinary Scientific Geoconference. Book 1. Science and Technologies in Geology, Exploration and Mining, Albena, Bulgaria, 30.6. – 6 7. 2016, 1st Edition, Sofia, STEF 92 Technology, 2016, pp. 223–228, ISSN 1314–2704. ISBN 978–619–7105–57–5 (in English)

- ČERVEŇANSKÁ, M. – JANÍK, A. – BAROKOVÁ, D.: Infiltration Experiments – Realization and Evaluation. In: Proceedings of the 12th Miklós Iványi International PhD & DLA Symposium. Architectural, Engineering and Information Sciences. Book of Abstracts. 3–4.11.2016, Pécs, Hungary, Pollack Press, 2016, p. 26, ISBN 978–963–429–094–0 (in English)
- ČERVEŇANSKÁ, M. – JANÍK, A. – ŠOLTÉSZ, A. – BAROKOVÁ, D.: Field Measurements at APVV Project on “New Possibilities for the Use of a Drainage Canal System Taking into Account the Protection and Use of the Landscape”. In: Proceedings of the 23rd International Poster Day and Institute of Hydrology Open Day. Transport of Water, Chemicals and Energy in the Soil–Plant–Atmosphere System, Abstracts, Bratislava, 10. 11. 2016, 1st Edition, Ústav hydrológie SAV, 2016, p. 3, ISBN 978–80–89139–38–5 (in Slovak)
- ČERVEŇANSKÁ, M.: Preliminary Assessment of Flood Risk – Groundwater Flooding. In: Proceedings of the 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Advances in Architectural, Civil and Environmental Engineering, 26.10.2016, Bratislava, 1st Edition, Bratislava, Slovak University of Technology in Bratislava, 2016, CD–ROM, pp. 619–623, ISBN 978–80–227–4645–8 (in Slovak)
- ČERVEŇANSKÁ, M. – BAROKOVÁ, D. – ŠOLTÉSZ, A.: Assessment of Ground Water Level Changes Close to Pumping Wells. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 111–123, ISBN 978–80–7509–458–2 (in English)
- ČERVEŇANSKÁ, M. – BAROKOVÁ, D. – ŠOLTÉSZ, A.: Groundwater Flood Risk Mapping in Slovakia. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 585–591, ISBN 978–80–7509–458–2 (in English)
- ČUBANOVÁ, Lea. Tools for the Fish Pass Verification. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 223–229, ISBN 978–80–7509–458–2 (in English)
- ČUBANOVÁ, L.: Computational Examples of the Boulder Elements in the Fish Pass River Bed. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 230–241, ISBN 978–80–7509–458–2 (in English)
- ČUBANOVÁ, L. – RUMANN, J.: Important Parameters for the Whitewater Course Design. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 242–248, ISBN 978–80–7509–458–2 (in English)
- ČUBANOVÁ, L.: Experiences in the Water Level Regime Simulations for the SHPP. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 249–258, ISBN 978–80–7509–458–2 (in English)
- ČUBANOVÁ, L. – RUMANN, J.: Planned Whitewater Courses in Slovakia. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp.354–362, ISBN 978–80–7509–458–2 (in English)
- ČUBANOVÁ, L. – RUMANN, J.: Fish Pass Design Using Natural Elements. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 375–386, ISBN 978–80–7509–458–2 (in English)
- DUŠIČKA, M. – PAVLÍKOVÁ, A. – ŠULEK, P. – DUŠIČKA, P. – ORFÁNUS, M.: Possibilities of the Semi–Peak–Load Operation of a Canal Regulating Water Power Plant. In: Proceedings of the SGEM 2016, 16th International Multidisciplinary Scientific Geoconference. Book 1.Science and Technologies in Geology, Exploration and Mining, Albena, Bulgaria, 30.6. – 6 7. 2016, 1st Edition, Sofia, STEF 92 Technology, 2016, pp. 569–576, ISSN 1314–2704, ISBN 978–619–7105–61–2 (in English)
- DUŠIČKA, M. – RUMANN, J.: Pit–Intake Structures. In: Proceedings of the 12th Miklós Iványi International PhD & DLA Symposium. Architectural, Engineering and Information Sciences. Book of Abstracts. 3–4.11.2016, Pécs, Hungary, Pollack Press, 2016, p.37, ISBN 978–963–429–094–0 (in English)
- DUŠIČKA, M.: Pit–Intake Structures Research. In: Proceedings of the 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Advances in Architectural, Civil and Environmental Engineering, 26.10.2016, Bratislava, 1st Edition, Bratislava, Slovak University of Technology in Bratislava, 2016, CD–ROM, pp. 630–635, ISBN 978–80–227–4645–8 (in English)
- DUŠIČKA, M. – RUMANN, J.: Hydropower Use of Old Mill. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp.486–492, ISBN 978–80–7509–458–2 (in English)
- DUŠIČKA, M. – RUMANN, J.: Existing Water Structures and the Additional Energy Use. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 493–498, ISBN 978–80–7509–458–2 (in English)
- DUŠIČKA, M. – RUMANN, J.: Possible Negatives of Pit Intake Structures. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 499–504, ISBN 978–80–7509–458–2 (in English)
- DUŠIČKA, P. – RUMANN, J. – DUŠIČKA, M.: Pit Intake Structures at SHPP. In: Proceedings of 23rd International Conference Hydroturbo 2016. Znojmo, 25.–27.10. 2016. 1st Edition, VUT Brno, 2016, ISBN 978–80–227–4249–9 (in Slovak)

- DUŠIČKA, P. – KVĚTON, R. – RUMANN, J.: Determination of Roughness Coefficients in Channels of the Hričov – Mikšová – Považská Bystrica HHP Group. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 345–353, ISBN 978–80–7509–458–2 (in English)
- FRANKOVSKÁ, J. – ŠOLTÉSZ, A.: Geo–Engineering and Water Management Joint Doctoral Programme. In Proceedings of 15th International Geotechnics 2016. Advanced Methods and Traditions in Geotechnics, 1st Edition, Ostrava, Technical University in Ostrava, 2016, CD–ROM, pp. 17–22, ISBN 978–80–248–3935–6 (in Slovak)
- GRAMBLIČKA, M. – ORFÁNUS, M.: Physical Model of the Flood Protecting Structures. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 302–308, ISBN 978–80–7509–458–2 (in English)
- JANÍK, A. – ČERVEŇANSKÁ, M. – ŠOLTÉSZ, A.: Flood and Drought Prevention – Adaptation Strategy. In: Proceedings of the 12th Miklós Iványi International PhD & DLA Symposium. Architectural, Engineering and Information Sciences. Book of Abstracts. 3–4.11.2016, Pécs, Hungary, Pollack Press, 2016, p.65, ISBN 978–963–429–094–0 (in English)
- JANÍK, A.: Analysis of a Local Flood under a Small Carpathian Mountain. In: Proceedings of the 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Advances in Architectural, Civil and Environmental Engineering, 26.10.2016, Bratislava, 1st Edition, Bratislava, Slovak University of Technology in Bratislava, 2016, CD–ROM, pp. 641–648, ISBN 978–80–227–4645–8 (in Slovak)
- JANÍK, A. – ŠOLTÉSZ, A.: Reconstruction of a Flash Flood Using a Dam Break Model. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 592–600, ISBN 978–80–7509–458–2 (in English)
- KELČÍK, S. – PÁLINKÁŠOVÁ, Z. – ŠOLTÉSZ, A.: Reason for Flash Flood in Hidra River–Basin In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp.167–176, ISBN 978–80–7509–458–2 (in English)
- KELČÍK, S. – KINCZER, T. – ŠULEK, P.: The Hydropower Plant Sereď – Design of the Peak Load Operation. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 456–459, ISBN 978–80–7509–458–2 (in English)
- KINCZER, T. – PAVLÍKOVÁ, A. – ŠULEK, P. – DUŠIČKA, P.: Model (Hydro–Model) of the Váh Cascade in the Process of Preparing for the Operation Hydro Power Plants in Slovakia's Power Supply System. In: Proceedings of the SGEM 2016, 16th International Multidisciplinary Scientific Geoconference. Book 1. Science and Technologies in Geology, Exploration and Mining, Albena, Bulgaria, 30.6. – 6 7. 2016, 1st Edition, Sofia, STEF 92 Technology, 2016, pp. 513–520, ISSN 1314–2704, ISBN 978–619–7105–61–2 (in English)
- KINCZER, T.: Influence of the Parameters of Genetic Algorithms on the Optimization of the Operation of a Hydro Power Plant. In: Proceedings of the 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Advances in Architectural, Civil and Environmental Engineering, 26.10.2016, Bratislava, 1st Edition, Bratislava, Slovak University of Technology in Bratislava, 2016, CD–ROM, pp. 649–656, ISBN 978–80–227–4645–8 (in Slovak)
- KINCZER, T.: Application of Selected Methods of Optimisation on Hydropower Plant Operation. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 479–485. ISBN 978–80–7509–458–2 (in English)
- KINCZER, T. – BAROKOVÁ, D.: Calculation of Buoyancy Using Different Methods and Their Comparison. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 472–478, ISBN 978–80–7509–458–2 (in English)
- KINCZER, T. – ŠULEK, P.: Influence of Population Size, Crossover Probability and Mutation Probability of the Genetic Algorithms on the Optimization of Hydrothermal Coordination Problem. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 447–455, ISBN 978–80–7509–458–2 (in English)
- KVĚTON, R. – ŠOLTÉSZ, A. – BAROKOVÁ, D. – ČERVEŇANSKÁ, M. – JANÍK, A.: Dewatering System in East Slovakian Lowland and Its Hydrologic–Hydraulic Assessment (DS – Hraň, PP – Hraň). In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp.188–194. ISBN 978–80–7509–458–2 (in English)
- KVĚTON, R. – ŠULEK, P. – ORFÁNUS, M. – MIŠÍK, M. – KINCZER, T.: The Dam Break Modelling by Two Dimensional Numerical Models. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 398–404, ISBN 978–80–7509–458–2 (in English)
- KVĚTON, R. – CIPOVOVÁ, K.: Application of Flood Mapping Methods on Planar Evaluation of the Object Damaging. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 505–515, ISBN 978–80–7509–458–2 (in English)
- KVĚTON, R. – KELČÍK, S.: 2013 Flood and Possibility for Using Expert System for Support Dispatching Control of Water Work Gabčíkovo–Nagymaros. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 516–526, ISBN 978–80–7509–458–2 (in English)
- KVĚTON, R. – DUŠIČKA, P. – RUMANN, J.: Calibration of a Hydro Dynamical Model of Groups of Channel Hydro Power Plants on the Váh Cascade Based on "In situ" Measurements. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp.335–344, ISBN 978–80–7509–458–2 (in English)

- MOŽIEŠIK, L. – ORFÁNUS, M. – RUMANN, J. – ŠULEK, P. – DUŠIČKA, P.: Physical and Mathematical Research Results of the Kolárovo Water Structure Project. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 265–273, ISBN 978–80–7509–458–2 (in English)
- MOŽIEŠIK, L. – ŠULEK, P. – ORFÁNUS, M.: Hydraulic Research Pre-processing for Large Water Structure Project on the Váh River. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 309–322, ISBN 978–80–7509–458–2 (in English)
- ORFÁNUS, M. – ŠULEK, P. – MOŽIEŠIK, L.: Analysis of the Utilization of Hydroenergy for the Proposed Kolárovo Water Structure on the Váh River. In: Proceedings of 23rd international Conference Hydroturbo 2016. Znojmo, 25.–27.10. 2016. 1st Edition, VUT Brno, 2016, ISBN 978–80–227–4249–9 (in Slovak)
- ORFÁNUS, M.: Flood Protection of the Small River Basins at Eastern Slovakia. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 274–284, ISBN 978–80–7509–458–2 (in English)
- ORFÁNUS, M. – ŠOLTÉSZ, A.: Research on Flood Protecting Hydraulic Objects and Their Operation. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 285–290, ISBN 978–80–7509–458–2 (in English)
- ORFÁNUS, M. – ŠOLTÉSZ, A.: Verification of the CFD Model of Water Flow Near the Lateral Spillway In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 291–301, ISBN 978–80–7509–458–2 (in English)
- ORFÁNUS, M. – ŠOLTÉSZ, A.: CFD Accuracy Compared to Physical Model Results on Lateral Spillway Phenomena. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 363–374, ISBN 978–80–7509–458–2 (in English)
- PÁLINKÁŠOVÁ, Z. – ŠOLTÉSZ, A. – BAROKOVÁ, D.: Operation on Pumping Station in Drainage Systems at Flood Situation in East Slovakian Lowland. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 195–203, ISBN 978–80–7509–458–2 (in English)
- PALKOVIČOVÁ, A. – PAVLÍKOVÁ, A.: Usage of 2D Mathematical Modelling on Regulated Rivers. In: Proceedings of Juniorstav 2016 - 18th International Conference of PhD. Study Brno, 28.1.2016, Brno, BUT Brno, 2016, CD-ROM, ISBN 978–80–214–5311–1. (in Slovak)
- PALKOVIČOVÁ, A. – PAVLÍKOVÁ, A. – MOŽIEŠIK, L. – ORFÁNUS, M.: Navigational Safety Nearby Hydraulic Structures. In: Proceedings of the SGEM 2016, 16th International Multidisciplinary Scientific Geoconference. Book 1. Science and Technologies in Geology, Exploration and Mining, Albena, Bulgaria, 30.6. – 6 7. 2016, 1st Edition, Sofia, STEF 92 Technology, 2016, pp. 529–535, ISSN 1314–2704, ISBN 978–619–7105–61–2 (in English)
- PAVLÍKOVÁ, A.: Impact of Morphological Modifications on Nautical Conditions. In: Proceedings of the 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Advances in Architectural, Civil and Environmental Engineering, 26.10.2016, Bratislava, 1st Edition, Bratislava, Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 673–678, ISBN 978–80–227–4645–8 (in Slovak)
- PAVLÍKOVÁ, A. – MOŽIEŠIK, L.: Reviewing Navigational Safety on the Lower Stream Reach. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 323–334, ISBN 978–80–7509–458–2 (in English)
- PINDJAKOVÁ, T. – BAROKOVÁ, D. – ČERVEŇANSKÁ, M. – ŠOLTÉSZ, A.: Groundwater Flood Risk Assessment. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 159–166, ISBN 978–80–7509–458–2 (in English)
- PRŠO, A. – KINCZER, T. – ŠULEK, P. – RUMANN, J.: Siphon for Water Supply (a Case Study for the Rusovce Arm). In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 426–431, ISBN 978–80–7509–458–2 (in English)
- RUMANN, J. – ORFÁNUS, M.: Research on Hydrodynamic Behaviour at the Intake Structure of the Small Hydropower Plant. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 259–264, ISBN 978–80–7509–458–2 (in English)
- RUMANN, J. – ORFÁNUS, M.: Effects of the Floating Barrage on Flow Velocities at the Intake Structure of the Dobrohošť SHPP. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 392–397, ISBN 978–80–7509–458–2 (in English)
- SHENGA, Z. D. – BAROKOVÁ, D. – ŠOLTÉSZ, A.: Modelling of Groundwater Extraction from Wells to Control Excessive Water Level for Planned Industrial Park near Nitra. In: Proceedings of the 12th Miklós Iványi International PhD & DLA Symposium. Architectural, Engineering and Information Sciences. Book of Abstracts. 3–4.11.2016, Pécs, Hungary, Pollack Press, 2016, p. 107, ISBN 978–963–429–094–0 (in English)
- SHENGA, Z. D. – BAROKOVÁ, D. – ŠOLTÉSZ, A. – ČERVEŇANSKÁ, M. – GRAMBLIČKA, M.: Numerical Modelling for Groundwater Extraction Design. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 204–222, ISBN 978–80–7509–458–2 (in English)
- ŠOLTÉSZ, A.: Reconstruction of a Drainage Channel System in Slovakia. In: Reviewed Proceedings of the 20th Regional Days of Water, Michalovce, 14. – 15. 4. 2016, 1st Edition, East-Slovakian Water Company, Košice, 2016, pp. 11–14, ISBN 978–80–89139–37–8 (in Slovak)
- ŠOLTÉSZ, A. – ČERVEŇANSKÁ, M. – BAROKOVÁ, D.: History of Flood Protection Structures in Slovakia. In: Proceedings of the 3rd International Conference on Water 2016. Water Across Time in Engineering Research, Romania, 23. – 25. 6. 2016. 1st Edition, Constanta, Ovidius University of Constanta, 2016, pp. 113–120, ISSN 1584–5990 (in English)

ŠOLTÉSZ, A. – BAROKOVÁ, D. – ČERVENĀNSKÁ, M. – JANÍK, A.:

Hydrodynamic Analysis of Interaction between River Flow and Ground Water. In: Proceedings of the SGEM 2016, 16th International Multidisciplinary Scientific Geoconference. Book 1. Science and Technologies in Geology, Exploration and Mining, Albena, Bulgaria, 30.6. – 6 7. 2016, 1st Edition, Sofia, STEF 92 Technology, 2016, pp. 823–829, ISSN 1314–2704, ISBN 978–619–7105–55–1 (in English)

ŠOLTÉSZ, A. – BAROKOVÁ, D.: Ground Water Level Modelling in River Branch System of the Danube. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 32–40, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A. – BAROKOVÁ, D. – ČUBANOVÁ, L.: Use of Green and Technical Measures in Wetland Restoration. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 41–48, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A. – BAROKOVÁ, D. – ČERVENĀNSKÁ, M. – JANÍK, A.: Water Level Regime Changes in Danube Lowland Region. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 103–110, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A. – KVĚTON, R. – BAROKOVÁ, D.: Dewatering System in East Slovakian Lowland and Its Hydrologic–Hydraulic Assessment (DS ESL–4, PP Streda/Bodrog). In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 151–158, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A. – BAROKOVÁ, D. – MOŽIEŠIKOVÁ, K. – JANÍK, A.: Numerical Modelling of Flash Flood in Small Carpathians. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 76–84, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A. – BAROKOVÁ, D.: Numerical Modelling of Ground Water Level Control. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 49–59, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A.: Results of Solution of the INTERREG Project in Medzibodrožie Region. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp.60–75, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A. – KAMEL, A. H. – BAROKOVÁ, D. – KVĚTON, R.: Flood Mapping for the Latorica River Basin – Hydraulic Modelling in GIS Environment. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 177–187, ISBN 978–80–7509–458–2 (in English)

ŠOLTÉSZ, A. – BAROKOVÁ, D.: Flood Mapping in GIS Environment. In: Proceedings of Conference on the Innovative Information-Communication Technologies in Water Management, Bratislava, 16.12. 2016, Liptovský Ján, PROHU, 2016, pp. 45–55, ISBN 978–80–89535–22–4 (in English)

ŠULEK, P. – KINCZER, T.: Control System of the Nautical–Power Operation of the Gabčíkovo Water Structure. In: Proceedings of 23rd international Conference Hydroturbo 2016. Znojmo, 25.–27.10. 2016. 1st Edition, VUT Brno, 2016, ISBN 978–80–227–4249–9 (in Slovak)

ŠULEK, P. – KINCZER, T.: The Váh Cascade – Generation Scheduling Mode. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 439–446, ISBN 978–80–7509–458–2 (in English)

ŠULEK, P. – KINCZER, T.: The Ancillary Reserve Provided by Hydropower Plants (Generation Scheduling). In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 432–438, ISBN 978–80–7509–458–2 (in English)

ŠULEK, P. – ŠEBESTOVÁ, Z. – DUŠIČKA, P. – KINCZER, T.: The Use of the Muskingum–Cunge Method for Simulation of Artificial Flow Waves from Peaking Hydropower Operation (a Case Study on the Danube, Downstream the Gabčíkovo Hydropower). In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 417–425, ISBN 978–80–7509–458–2 (in English)

ŠULEK, P. – CIPOVOVÁ, K. – KINCZER, T.: Using the Heuristic Methods for Hydro Plants Generation Scheduling. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 405–416, ISBN 978–80–7509–458–2 (in English)

ŠULEK, P. – ŠEBESTOVÁ, Z. – KINCZER, T.: The Gabčíkovo Hydro Plant – the Generation Scheduling. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp. 460–471, ISBN 978–80–7509–458–2 (in English)

TVRDOŇ, M. – RUMANN, J.: Self – Cleaning Screenings on Intake Structures. In: Proceedings of Colloquium on Landscape Management 2016, Brno, 9.12.2016, 1st. edition, Mendel University in Brno, 2016, pp.387–391, ISBN 978–80–7509–458–2 (in English)

Patents and Standards

DUŠIČKA, P. – RUMANN, J. – ŠULEK, P. – MOŽIEŠIK, L.: PÚV 5053-2016, Folding Rail for Hydrometry, Industrial Property Office of the Slovak Republic, 2016 (in Slovak)

DUŠIČKA, P. – RUMANN, J. – ŠULEK, P. – MOŽIEŠIK, L.: PÚV 5038-2016 Bridge Deflector and Bridge, Industrial Property Office of the Slovak Republic, 2016 (in Slovak)

DUŠIČKA, P. – HRUBÍK, J. – RUMANN, J. – ŠULEK, P. – MOŽIEŠIK, L.: PÚV 00070-2016 Dynamic Dynamometer for Measuring Tensile Forces, Industrial Property Office of the Slovak Republic, 2016 (in Slovak)

DUŠIČKA, P. – HRUBÍK, J. – RUMANN, J. – ŠULEK, P. – MOŽIEŠIK, L.: ÚV-7692 Dynamic Force Sensor with Mechanically Recorded Maximum, Industrial Property Office of the Slovak Republic, 2016 (in Slovak)

DEPARTMENT OF BUILDING CONSTRUCTION

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Building Acoustics and Illumination
Building and Energy
Building Constructions 1
Building Constructions 2
Building Constructions 3
Building Constructions 4
Building Constructions 5
Building Constructions V
Building Energy and Environmental Simulation
Building Energy and Indoor Environment Simulation
Building Pathology
Building Physics (in English)
Constructions in Architecture 1 (in English)
Constructions in Architecture 2 (in English)
Constructions in Architecture 3 (in English)
Design Basics
Design of Architectural Constructions
Design Studio
Design Studio 3
Design Studio 4
Ecological Architecture
Excursion
Final Thesis
Fire Engineering of Buildings
Fire Safety of Buildings
Master's Seminar
Master's Thesis
Methodology of Scientific Experiments
Modelling of Climatic Processes
Physics of Indoor Environments
Practical Training

Professional Practice
Project 1 – Low-Energy Buildings
Reconstruction of Buildings and Preservation of Monuments 1
Renovation of Buildings
Selected Problems of Building Constructions
Special Architectural Structures
Special Building Constructions
Studio of Building Design I
Studio of Building Design II
Studio of Building Design III
Technical Drawing
Thermal Performance of Buildings

Obligatory elective subjects

Acoustics in Architecture
Advanced Building Materials and Constructions
Aerodynamics and Hydrodynamics of Buildings
Facade Techniques of Intelligent Buildings
Solar Technology and Illumination of Buildings
Thermal Protection of Buildings

Optional subjects

Building-Physical Construction
Computer Graphics
Computer Graphics and Visualization
Computer Graphics and Visualization I
Information Technologies
Building Design

1.2 Postgraduate courses

Aerodynamics and Hydrodynamics of Buildings
Buildings and Energy
Buildings and Urban Acoustics
Building Climatology
Building Constructions - Selected Essays

Building Simulations
 Fire Safety Engineering
 Renewal and Protection of Historic Buildings
 Selected Essays from Building Constructions
 Thermal Performance of Buildings

GONDA, M.: Recording Studio with Accommodation
 Supervisor: TOMAŠOVIČ, P.

HANUSOVÁ, M.: Kindergarten
 Supervisor: ŽILINSKÝ, J.

HLADEJ, J.: Wellness Hotel
 Supervisor: ŽILINSKÝ, J.

HOLUB, P.: Library
 Supervisor: DRŽKA, M.

KADLEČÍK, S.: The Family Farm - Beer Production with a Restaurant
 Supervisor: MIKOLAJ, I.

KANDRAVÁ, N.: Equestrian Center with an Indoor Riding Hall
 Supervisor: BIELEK, B.

KATUŠČAKOVÁ, M.: Folklore Centre
 Supervisor: JAKEŠ, E.

KIC, M.: Veterinary Hospital
 Supervisor: MIKLÓSIOVÁ, T.

KOSÍKOVÁ, A.: Ultra Low-Energy Apartment Building
 Supervisor: MENĎAN, R.

KOVAL, J.: Elementary School
 Supervisor: PALKOVÁ, A.

KUKUČKA, P.: Office Building with the Production of Microscopes
 Supervisor: PALKO, M.

LAŠŠÁK, J.: Administrative Building
 Supervisor: PALKOVÁ, A.

LAŠŠÁK, K.: Wellness Hotel
 Supervisor: CHMÚRNÝ, I.

LIETAVOVÁ, J.: Dental Clinic
 Supervisor: PERNIŠOVÁ, A.

MICHL, M.: Spa Building
 Supervisor: BIELEK, B.

NÁDASKÝ, M.: Main Regional Integrated Fire and Rescue Station in Trnava
 Supervisor: OLBŘÍMEK, J.

NÝBLOVÁ, J.: Ski Jump
 Supervisor: PALKO, M.

PETRÍK, T.: Pension Dwelling
 Supervisor: MINAROVÍČOVÁ, K.

PODHOREC, J.: Reconstruction of Manor House
 Supervisor: INGELI, R.

2. THESES

2.1 Bachelor theses

There were 181 works.

2.2 Graduate theses

ÁRENDÁS, J.: House of Culture
 Supervisor: DLHÝ, D.

BALÁŽ, A.: Sport Hall
 Supervisor: BUDAY, P.

BANDÍK, J.: Parking Garage
 Supervisor: DRŽKA, M.

BELEJ, M.: Church with a Pastoral Centre
 Supervisor: OLÁH, J.

BOĎO, R.: Forester's Lodge
 Supervisor: JAMNICKÝ, M.

BORSOVÁ, B.: Office Building
 Supervisor: VAVROVIČ, B.

ČAMBORA, A.: House of Music Structure
 Supervisor: DLHÝ, D.

ČOPÁKOVÁ, S.: Retirement Home
 Supervisor: PUŠKÁR, A.

DEVEČKA, M.: Marketplace
 Supervisor: JAKEŠ, E.

DOMONKOSOVÁ, T.: Hotel
 Supervisor: VAVROVIČ, B.

FEDOR, M.: Nursery School with Creche: Standards of Ultra Low Energy Building
 Supervisor: RABENSEIFER, R.

GAŠPAR, M.: Visitor Center
 Supervisor: RABENSEIFER, R.

GAVORNÍK, M.: Gallery
 Supervisor: PUŠKÁR, A.

SIMONDELOVÁ, M.: Mountain Hotel
Supervisor: HRAŠKA, J.

SIVČÁKOVÁ, Z.: Building with a Pharmacy
Supervisor: BUDAY, P.

ŠANOBA, J.: Furniture Store
Supervisor: PERNIŠOVÁ, A.

VACEK, Š.: Winery in Svätý Jur
Supervisor: JAMNICKÝ, M.

VIKUKELOVÁ, M.: Bowling Center
Supervisor: INGELI, R.

VYDRA, J.: Mountain Cableway Station
Supervisor: HANULIAK, P.

ZACHAROVÁ, J.: Office Building
Supervisor: HRAŠKA, J.

ZEMAN, J.: Railway Station
Supervisor: VARGOVÁ, A.

2.3 Doctoral theses

ČEHELOVÁ, D.: Aerodynamic Quantification of Buildings for Their Physical Problems
Supervisor: BIELEK, B.

HARTMAN, P.: Daylighting of Buildings Based on Chronobiology and Circadian Photometry
Supervisor: HRAŠKA, J.

JAVORČEK, M.: Analysis of Air Exchange in Elementary School Building Classrooms
Supervisor: STERNOVÁ, Z.

ZRNEKOVÁ, J.: Sound Absorption of Space Elements and Optimalization of Their Modeling in Algorithms Based on the Ray Tracing Method
Supervisor: RYCHTÁRIKOVÁ, M.

3. RESEARCH

3.1 Research projects

Simulation of Daylight in an Artificial Sky
(2013-2016, HANULIAK, P.) APVV-0118-12

Contribution to the Solution of Selected Problems of Building Roofs
(2013-2016, OLÁH, J.) VEGA 1/0710/13

Novel Structural Skins: Improving Sustainability and Efficiency through New Structural Textile Materials and Designs
(2013-2017, RYCHTÁRIKOVÁ, M., VARGOVÁ, A.) COST Action TU1303

Transport and Urban Development - Adaptive Facade Networks
(2014-2018, HRAŠKA, J., RABENSEIFER, R.) COST Action TU 1403

Fire-Resistant Use of Bio-Based Building Products
(2014-2018, OLBŘÍMEK, J.) COST Action FP1404

Mobility Between Higher Education Institutions. EEA Scholarship Programme, Slovakia
(2015-2016 RABENSEIFER, R.), EHP-26/SK06-II-01-004/2015

Development, Theoretical and Experimental Research on Building Envelopes with Integrated Photovoltaic Elements
(2015-2017, HRAŠKA, J.) VEGA 1/0286/15

Setting Up Qualifications and a Continuing Education and Training Scheme for Middle and Senior Level Professionals on Energy Efficiency and the Use of Renewable Energy Sources in Buildings (ingREeS 649925)
(2015-2018, RABENSEIFER, R.) H2020: SC3 - Secure, Clean and Efficient Energy, SEP-210174191

Advanced Physical-Acoustic and Psycho-Acoustic Diagnostic Methods for Innovations in Building Acoustics - Papabuild
(2015-2020, RYCHTÁRIKOVÁ, M.) H2020 MSCA – 690970

Thermal Performance of Nearly Zero-Energy Buildings (nZEB)
(2016-2018 CHMÚRNÝ, I.) VEGA 1/0087/16

Optimisation of the Physical Issues of Window Designs for the Energy Standards of Buildings After 2020
(2016-2018 PALKO, M.) VEGA 1/0685/16

Strategic Role of Renewable Energy Sources in the Project Strategy in Design of Building Technology for Green and Sustainable Architecture
(2016-2018 BIELEK, B.) VEGA 1/0067/16

ACE – Acoustic Course for Engineers
(2016-2018, VARGOVÁ, A.) ERASMUS+KA2

Designs for Noise Reducing Materials and Structures (DENORMS)
(2016-2020, RYCHTÁRIKOVÁ, M.) COST Action CA15125

3.2 International cooperation

Cooperating institutions

TU Vienna, Austria

Wolfen WIRN, Austria

ČVUT Prague, Czech Republic

VUT Brno, Czech Republic

KEB Berlin, Germany

IFT Rosenheim, Germany

Planungsinstitut für ländliche Siedlung, Stuttgart, Germany

TU Budapest, Hungary

TU Győr, Hungary
 CE Haifa, Israel
 TU Eindhoven, The Netherlands
 TU Delft, The Netherlands
 KU Leuven, Belgium
 MISI Moscow, Russia
 TU Kharcow, Ukraine
 University of Strathclyde, United Kingdom
 Chungnam National University, Daejeon, Korea

Membership in international professional organizations

CHMELÍK, V.: YAN - Young Acoustician Network - representative of the Slovak Republic
 CHMÚRNÝ, I.: ISO TC 163 Thermal Insulation, CEN TC 89 Thermal Performance of Buildings - representative of the Slovak Republic (SÚTN BA)
 RABENSEIFER, R., HRAŠKA, J.: IBPSA - International Building Performance Simulation Association
 RYCHTÁRIKOVÁ, M., CHMELÍK, V.: EAA - European Acoustic Association
 RYCHTÁRIKOVÁ, M.: ICA International Commission on Acoustics (ICA)

4. PUBLICATIONS

Books

PUŠKÁR, A. – PETRÁŠ, D. – SANDANUS, J. – SÓGEL, K. – DRŽKA, M.:
 Reducing the Energy Consumption of Buildings for the Profession of Bricklayer. 1st ed. Bratislava: Institute for Adult Education and Services, 2016. 191 pp. ISBN 978-80-89073-20-7 (in Slovak)

Journals

BIELEK, B.: Strategy for cooling Green buildings. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 105-114. ISSN 1660-9336 (in English)

BIELEK, B. – CHMÚRNÝ, I.: Facade building systems and Their thermal quantifications. In: Eurostav. Vol. 22, No. 3 (2016), pp. 26-28. ISSN 1335-1249 (in Slovak)

BIELEK, B. – SZABÓ, D.: Laboratory experimental verification of the effectiveness of acoustical treatment of facade element frame profiles. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 431-436. ISSN 1660-9336 (in English)

BINEK, K.: Microwave radiation-like instrument for drying moisture from masonry. In: Almanach znalca. Vol. 16, No. 1 (2016), CD-ROM, pp. 6-8. ISSN 1336-3174 (in Slovak)

BUDAY, P.: The most significant factor affecting the calculation of specific heat consumption for heating for family houses according to STN 73 0540. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 171-176. ISSN 1660-9336 (in English)

ČEHELOVÁ, D. – JANÁK, M. – BIELEK, B.: The impact of relative position of the high-rise buildings on the wind flow. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 320-325. ISSN 1660-9336 (in English)

ČURPEK, J. – OLÁH, J.: Pilot analysis of waterproof properties of roof membranes according to their mechanical damage. In: Střechy, fasády, izolace. Vol. 23, No. 6 (2016), pp. 19-21. ISSN 1212-0111 (in Slovak)

DLHÝ, D. – TOMAŠOVIČ, P.: The Use of Simulation Tools in the Assessment of External Stationary Sources in Terms of Noise. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 448-453. ISSN 1660-9336 (in English)

DLHÝ, D. – ZRNEKOVÁ, J.: Experimental Measurements of Effects of Occupancy Class on Reverberation Time. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 466-471. ISSN 1660-9336 (in English)

DLHÝ, D. – TOMAŠOVIČ, P. – ZAŤKO, P. – URBÁN, D.: Analysis of thermal insulation systems and sound insulation of enclosing constructions of buildings. In: Fyzikálne faktory prostredia. Vol. 6, No. 1 (2016), pp. 12-15. ISSN 1338-3922 (in Slovak)

DLHÝ, D. – TOMAŠOVIČ, P. – ZAŤKO, P.: The noise inside residential buildings - stairs and stair areas. In: Fyzikálne faktory prostredia. Vol. 6, No. 1, Special issue - June (2016), pp. 17-20. ISSN 1338-3922 (in Slovak)

DRŽKA, M.: Analysis and evaluation of moisture factor, reliability, effectivity and durability of sanation methods used to treat damp masonry. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 299-304. ISSN 1660-9336 (in English)

HARTMAN, P. – HANULIAK, P. – FABIAN, M. – DARULA, S.: Daylighting for Buildings: influence of the solar eclipse on its spectral characteristics. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 417-422. ISSN 1660-9336 (in English)

HÉPAL, M. – PUŠKÁR, A.: Impact wind turbines implementation in municipalities in the context of sustainable urbanism with focus on dynamic pedestrian comfort. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 326-331. ISSN 1660-9336 (in English)

HRAŠKA, J.: Facades with Photovoltaic Elements: A Review. In: Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building. Vol. 824, (2016), pp. 770-778. ISSN 1660-9336 (in English)

HÝSEK, P. Methods to Reduce the Operating Temperature of Photovoltaic Cells. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 224-229. ISSN 1660-9336 (in English)

- CHMELÍK, V. – ZELEM, L. – VARGOVÁ, A. – PETRÁŠOVÁ, B. – RYCHTÁRIKOVÁ, M.: Voice effort of people present in different acoustic environments (an overview). In: *Akustické listy*. Vol. 22, Nos. 1-4 (2016), pp. 9-14. ISSN 1212-4702 (in English)
- CHMÚRNÝ, I.: Triple or Quadruple Glazing? In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 242-247. ISSN 1660-9336 (in English)
- CHMÚRNÝ, I.: Influence of External Surface Resistance and Thermal Insulation Level on Energy Need for Cooling. In: *Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building*. Vol. 824, (2016), pp. 445-452. ISSN 1660-9336 (in English)
- INGELI, R. – ČEKON, M.: Analysis of Energy Consumption in Building with NZEB Concept. In: *Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building*. Vol. 824, (2016), pp. 347-354. ISSN 1660-9336 (in English)
- JAKĚŠ, E.: Glass fibre reinforced concrete products for construction industry and architecture. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 75-80. ISSN 1660-9336 (in English)
- JAMNICKÝ, M.: BIM and Prediction of Thermal Stability in Underroof Spaces. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 127-132. ISSN 1660-9336 (in English)
- JEDINÁK, R.: Preliminary proposal of a shading system composed of photovoltaic modules and phase change material. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 218-223. ISSN 1660-9336 (in English)
- JURIGOVÁ, M. – MINÁROVÁ, M. – CHMÚRNÝ, I.: Analysis of Thermal Performance of Energy Storage System. In: *Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building*. Vol. 824, (2016), pp. 371-378. ISSN 1660-9336 (in English)
- LIŠKOVÁ, Z. – OLBŘÍMEK, J.: Analysis of safe distance of flue from combustible construction parts in terms of fire safety in the European standards. In: *Journal of Sustainable Construction Materials and Technologies*. Vol. 1, No. 2 (2016), online, pp. 57-59. ISSN 2458-973X (in English)
- MAŇKOVÁ, L. – HANULIAK, P. – HARTMAN, P.: The influence of selected type of daylight device on horizontal and vertical internal illuminance. In: *Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building*. Vol. 824, (2016), pp. 707-714. ISSN 1660-9336 (in English)
- MENĎAN, R.: Thermotechnical Properties of Unburnt Clay Wall in Historical Family House and Wall Reconstruction. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 248-253. ISSN 1660-9336 (in English)
- MENĎAN, R.: An Optimal Window Position in External Walls without Thermal Insulation in Relation to Critical Surface Temperatures. In: *Almanach znalca*. Vol. 16, No. 1 (2016), CD-ROM, pp. 9-20. ISSN 1336-3174 (in Slovak)
- MENĎAN, R. – PAVČEKOVÁ, M.: Analysis of the Influence of Thermal Characteristics of Simple Family House on Heat Use for Heating. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 133-138. ISSN 1660-9336 (in English)
- MIKOLAI, I. – TKÁČ, J.: Escape route typology. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 402-407. ISSN 1660-9336 (in English)
- MINAROVIČOVÁ, K.: Window today – still an important architectural element of exterior and interior. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 27-32. ISSN 1660-9336 (in English)
- MORAVČÍK, A. – PUŠKÁR, A.: The Impact of the Dynamic External Shading Structure on the Energy Balance of the Reference Building in Summer. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 121-126. ISSN 1660-9336 (in English)
- OLÁH, J.: Mongolia and Roofs. In: *Střechy, fasády, izolace*. Vol. 23, No. 5 (2016), pp. 22-27. ISSN 1212-0111 (in Slovak)
- OLBŘÍMEK, J. – STRAKOVÁ, Z.: design of Central ventilation for a block of flats in accordance with requirements of fire protection specialists. In: *TZB Haustechnik*. Vol. 9, No. 4 (2016), pp. 42-45. ISSN 1803-4802 (in Czech)
- PALKO, M. – PALKOVÁ, A.: The Algorithm of the Double-skin Façade without the Effects of Wind. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 254-261. ISSN 1660-9336 (in English)
- PALKOVÁ, A. – PALKO, M.: Condensation on the Exterior Surface of Glass System. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 293-298. ISSN 1660-9336 (in English)
- PAVČEKOVÁ, M. – MENĎAN, R.: Theoretical Determination of Sound Reduction Index of Simple Walls on Various Material Bases. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 437-442. ISSN 1660-9336 (in English)
- PERNIŠOVÁ, A.: Drainage systems for sloping roofs and possibilities of rain water use. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 63-68. ISSN 1660-9336 (in English)
- PERNIŠOVÁ, A.: Proposal of Architectonic - construction solution of barrier-free measures of entry premises in non-residential buildings specified for use by the public. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 57-62. ISSN 1660-9336 (in English)

PUŠKÁR, A. – PANÁČEK, P.: Impact of growing conditions of spruce wood on thermal performance of windows. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 189-193. ISSN 1660-9336 (in English)

RABENSEIFER, R.: Basic Types of Glazing with Low-Emissivity Layers and Their Effects. In: *International Review of Applied Sciences and Engineering*. Vol. 7, No. 1 (2016), pp. 45-51. ISSN 2062-0810 (in English)

RYCHTÁRIKOVÁ, M. – MUELLNER, H. – CHMELÍK, V. – ROOZEN, N. B. – URBÁN, D. – GARCIA, D. P. – GLORIEUX, C.: Perceived Loudness of Neighbour Sounds Heard Through Heavy and Light-Weight Walls with Equal R-w + C50-5000. In: *Acta Acustica united with Acustica*. Vol. 102, No. 1 (2016), pp. 58-66. ISSN 1610-1928 (in English)

ŠUJANOVÁ, P. – HRAŠKA, J.: Measurement and calculation of luminous characteristics of photovoltaic glazing samples. In: *Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building*. Vol. 824, (2016), pp. 724-731. ISSN 1660-9336 (in English)

TOMAŠOVIČ, P. – DLHÝ, D. – PALKOVÁ, A.: Noise from lifts in buildings and reducing Them. In: *Fyzikálne faktory prostredia*. Vol. 6, No. 2 (2016), pp. 112-115. ISSN 1338-3922 (in Slovak)

URBÁN, D. – ROOZEN, N. B. – ZAŤKO, P. – RYCHTÁRIKOVÁ, M. – TOMAŠOVIČ, P. – GLORIEUX, C.: Assessment of sound insulation of naturally ventilated double skin facades. In: *Building and Environment*. Vol. 110, (2016), pp. 148-160. ISSN 0360-1323 (in English)

VAVROVIČ, B. – PUŠKÁR, A. Window structures in building with historical building preservation. In: *Applied Mechanics and Materials: Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 236-241. ISSN 1660-9336 (in English)

ZELEM, L. – CHMELÍK, V. – RYCHTÁRIKOVÁ, M. – GLORIEUX, C. Psychoacoustic analysis of human behaviour in a restaurant. In: *New trends of acoustic spectrum: peer-reviewed proceedings*. 1st ed. Zvolen: Technical University in Zvolen, 2016, pp. 159-167. ISBN 978-80-228-2860-4 (in Slovak)

Conference Proceedings

BIELEK, B.: The role of renewable energy sources in a sustainable society. In: *Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation*. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 15-18. ISBN 978-80-214-5445-3 (in English)

BIELEK, B.: Development trends of low energy architecture in a sustainable society. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of scientific conference with international participation*. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 20-23. ISBN 978-80-248-4003-1 (in English)

BIELEK, B. - SZABÓ, D.: Element transparent facade for high-rise building - development cooperation. In: *CESB16 Prague. Central Europe towards Sustainable Building 2016: electronic proceedings*. 22 - 24 June 2016, Prague, Czech Republic. 1st ed. Prague: Grada Publishing, 2016, USB key, pp. 990-997. ISBN 978-80-271-0248-8 (in English)

BINEK, K.: Methods for drying masonry by microwave radiation. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26 Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 432-436. ISBN 978-80-227-4645-8 (in Slovak)

BINEK, K. – ŽILINSKÝ, J.: Microwave dehumidification of the masonry. In: *ATF 2016: proceedings from 4th International Conference on Applied Technology*. 15-17 Sept. 2016, Leuven, Belgium. 1. ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 28-33. ISBN 9789086497966 (in English)

BINEK, K. – ŽILINSKÝ, J.: Surface heating of masonry. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of scientific conference with international participation*. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 202-207. ISBN 978-80-248-4003-1 (in English)

BOHUNICKÝ, B.: Modeling the Atmospheric Boundary Layer for Buildings. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 437-445. ISBN 978-80-227-4645-8 (in Slovak)

BOHUNICKÝ, B. – PALKO, M.: CFD Simulations of the Atmospheric Boundary Layer. In: *ATF 2016: proceedings from 4th International Conference on Applied Technology*. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 34-39. ISBN 9789086497966 (in English)

BOSÁK, L.: Biocomposites as the outer shell of refugee shelter units and their resistance in extreme conditions. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 446-454. ISBN 978-80-227-4645-8 (in Slovak)

BOSÁK, L. – PALKO, M.: Refugee Shelter Units - Possible Constructions for Temporary Housing. In: *ATF 2016: proceedings from 4th International Conference on Applied Technology*. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 52-57. ISBN 9789086497966 (in English)

BRETZOVÁ, V. – MIKOLAI, I.: Effects of the material surfaces on the intelligibility of voice alarm system. In: Wood & Fire Safety: proceedings of 8th International Conference. The High Tatras, Štrbské Pleso, 8. - 12. May 2016, Wood and Fire Safety 2016. 1st ed. Žilina: EDIS, 2016, USB key, pp. 37-41. ISBN 978-80-554-1201-6 (in English)

BUDAY, P.: Geometry of point thermal bridge (of reinforced concrete column) versus requirements of stn 73 0540-2 (2012). In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 58-62. ISBN 9789086497966 (in English)

BUDAY, P.: The impact of material of window frame on a minimum internal surface temperature of the construction detail. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 63-68. ISBN 9789086497966 (in English)

BUDAY, P.: „Light“ and „heavy“ curtain wall versus the thermal stability of the living room of a house (a bungalow). In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 124-127. ISBN 978-80-214-5445-3 (in Slovak)

ČEHELOVÁ, D.: Examination of the impact of the bilateral distance between Two high-rise buildings creating the Venturi effect. In: Juniorstav 2016: 18. professional conference of PhD study. Brno, ČR, 28. 1. 2016. 1. ed. Brno: Brno University of Technology, 2016, CD-ROM, [8] pp. ISBN 978-80-214-5311-1 (in Slovak)

ČEHELOVÁ, D. – URBÁN, D. – BIELEK, B. – RYCHTÁRIKOVÁ, M. – ROOZEN, N. B.: Wind induced sound in the architectural context - what do we know from literature. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 69-73. ISBN 9789086497966 (in English)

ČURPEK, J.: experimental measurements of the waterproof properties of roof membranes according to their mechanical damage. In: Juniorstav 2016: 18. professional conference of PhD study. Brno, ČR, 28. 1. 2016. 1st ed. Brno: Brno University of Technology, 2016, CD-ROM, [8] pp. ISBN 978-80-214-5311-1 (in Slovak)

ČURPEK, J. – HRAŠKA, J.: Simulation on Influence of PCM melting point temperature on thermodynamic behaviour of ventilated BiPV facade. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 74-80. ISBN 9789086497966 (in English)

DLHÝ, D.: Residential Loft - Floor solutions in terms of acoustics. In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 256-260. ISBN 978-80-214-5445-3 (in Slovak)

DLHÝ, D.: Steel for Industrial Buildings with an Emphasis on Eco-Construction. In: Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 94-97. ISBN 978-80-248-4003-1 (in Slovak)

DLHÝ, D. – ZRNEKOVÁ, J. – TOMAŠOVIČ, P.: Impulse Response Measuring in Auditorium at Faculty of Civil Engineering. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 86-89. ISBN 9789086497966 (in English)

DRŽKA, M.: Deterioration of Wood and Methods of Its Conservation. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15 - 17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 90-94. ISBN 9789086497966 (in English)

DRŽKA, M.: Unconventional Methods of Underwork Waterproofing. In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 206-209. ISBN 978-80-214-5445-3 (in English)

DRŽKA, M.: Analysis and Evaluation of Moisture Factors and Renovation Methods of Wet Brickwork. In: Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 195-198. ISBN 978-80-248-4003-1 (in English)

DRŽKA, M.: Principles of Staircase Design in Residential Attic. In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 66-69. ISBN 978-80-214-5445-3 (in English)

FILLO, T.: Calculation of Energy Needs for Heating and Cooling in Office Buildings Depending on the Building Shape Factor. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1. ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 469-473. ISBN 978-80-227-4645-8 (in Slovak)

FRANEK, M. – KONEČNÁ, L. – MACÁK, M.: Experimental and numerical evaluation of the external pressure coefficients on the elliptic cylinder. In: Proceedings of 24th SVSFEM ANSYS Users' Group Meeting and Conference 2016: Dolní Morava, ČR, 1. - 3. 6. 2016. 1st ed. Brno: SVS FEM, 2016, online, pp. 53-62. ISBN 978-80-905525-3-1 (in English)

- FRANEK, M. – ŽILINSKÝ, J.: Effect of surface roughness on pressure distribution for elliptic cylinder. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 1185-123. ISBN 9789086497966 (in English)
- HANULIAK, P. – MAŇKOVÁ, L. – HARTMAN, P. – DARULA, S.: Influence of Building's Envelope Modernisation to Daylight Availability. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 124-131. ISBN 9789086497966 (in English)
- HARTMAN, P.: Experimental measurement of the influence of an internal coloured surface on the biological response of daylight in real conditions in Bratislava. In: Juniorstav 2016: 18. professional conference of PhD study. Brno, ČR, 28. 1. 2016. 1st ed. Brno: Brno University of Technology, 2016, CD-ROM, [8] p. ISBN 978-80-214-5311-1 (in Slovak)
- HARTMAN, P. – MAŇKOVÁ, L. – KRAJČÍK, M.: The Effect of Internal Colored Surfaces on Our Biological Response to Daylight: An Experimental Study. In: CLIMA 2016: proceedings of the 12th REHVA World Congress. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg: Aalborg University, Department of Civil Engineering, 2016, online, [10] pp. ISBN 87-91606-36-5 (in English)
- HARTMAN, P. – HANULIAK, P. – MAŇKOVÁ, L. – SZABÓ, D.: The Influence of Position and Orientation on Daylight Availability in the Room. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 132-139. ISBN 9789086497966 (in English)
- HARTMAN, P. – JAKEŠ, E. – ČURPEK, J.: Conceptual and design failures of PVC-P membranes on flat roofs. In: Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of the scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 83-86. ISBN 978-80-248-4003-1 (in English)
- HARTMAN, P. – MAŇKOVÁ, L. – HANULIAK, P.: The effect of colored surface in terms of biological response in internal spaces. In: Society for Light Treatment and Biological Rhythms: 28th Annual Program and Abstracts SLTBR Meeting, 2016. New York City, June 29 - July 1, 2016. 1st ed. New York City: New York State Psychiatric Institute, 2016, p. 46 (in English)
- HÉPAL, M. – PUŠKÁR, A.: Outdoor ventilation of generic urban configuration engineering. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 474-481. ISBN 978-80-227-4645-8 (in Slovak)
- HOLLÝ, J.: Lowering the amount of emissions considering climatic change. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 482-487. ISBN 978-80-227-4645-8 (in Slovak)
- HOLLÝ, J. – PALKO, M.: Simulations based on future weather - energy performance optimization of buildings. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 151-156. ISBN 9789086497966 (in English)
- HRAŠKA, J.: Prediction of reflected sunlight from PV facades. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 157-162. ISBN 9789086497966 (in English)
- CHMELÍK, V. – RYCHTÁRIKOVÁ, M.: Voice and classroom interactions. Recent outcomes. In: ICA 2016: proceedings. 22nd International Congress on Acoustics. 5-9 Sept., 2016, Buenos Aires, Argentina. 1st ed. Buenos Aires: Asociación de Acústicos Argentinos, 2016, online, [6] pp. ISSN 2415-1599. ISBN 978-987-24713-6-1 (in English)
- CHMÚRNÝ, I.: Criteria and Indicators for Assessment of NZEB in Slovakia. In: enviBuild 2016 - Buildings and Environment: International conference proceedings. Brno, 22 - 23 Sept. 2016. 1st ed. Brno: Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 81. ISBN 978-80-214-5392-0 (in English)
- CHMÚRNÝ, I.: Windows Energy labeling in Middle European Weather Conditions. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 170-175. ISBN 9789086497966 (in English)
- INGELI, R.: Analysis of Alternative Energy Sources in Building with NZEB Concept. In: Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 173-176. ISBN 978-80-248-4003-1 (in English)
- INGELI, R.: Summer overheating assessment of attic apartment in residential building. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 176-182. ISBN 9789086497966 (in English)
- JAKEŠ, E. – HARTMAN, P.: Plinth construction and its relevance on the facade. In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 102-106. ISBN 978-80-214-5445-3 (in English)

JAMNICKÝ, M.: Integrating Immersive Visualizations in the Current Design Process. In: *Advanced Architectural Design and Construction 2016 (AADC 2016)*: proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 281-284. ISBN 978-80-214-5445-3 (in English)

JAMNICKÝ, M.: BIM and Virtual Wind Tunnel. In: *ATF 2016*: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 183-186. ISBN 9789086497966 (in English)

JURIGOVÁ, M. – CHMÚRNÝ, I. – PETRO, M.: The Development of Windows with Vacuum Glazing. In: *ATF 2016*: book of proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 187-190. ISBN 9789086497966 (in English)

KOSTELNÍK, R.: Timber frame residential building and heat recovery ventilation in terms of fire safety engineering. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 503-507. ISBN 978-80-227-4645-8 (in Slovak)

KOSTELNÍK, R. – OLBŘÍMEK, J.: The Fire spread paths in multi-storey building with timber frame supporting structure. In: *Advanced Architectural Design and Construction 2016 (AADC 2016)*: proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 235-239. ISBN 978-80-214-5445-3 (in English)

LACOVÁ, Z.: Analysis of the impact of applied thermal insulation on the fire safety of a metal chimney passing through a combustible timber roof construction. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 508-513. ISBN 978-80-227-4645-8 (in Slovak)

MAŇKOVÁ, L. – HARTMAN, P. – HANULIAK, P. – DARULA, S.: The Influence of Photometric Coating on Spectral Reflectance of Artificial Sky Dome. In: *LUMEN V4: 6th IEEE Lighting conference of the Visegrad Countries*. Karpacz, Poland. Sept. 13-16, 2016. Warsaw: IEEE, 2016, pp. 250-253. ISBN 978-1-5090-3304-1 (in English)

MENĎAN, R.: Hygienic Criterion of Selected Thermal Bridges in Homogenous Walls. In: *ATF 2016*: proceedings from 4th International Conference on Applied Technology. 15-17 Sep. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 203-208. ISBN 9789086497966 (in English)

MENĎAN, R.: Simple Calculation of Internal Surface Temperature in T-shaped Corners without Thermal Insulation. In: *Advanced Architectural Design and Construction 2016 (AADC 2016)*: proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 140-144. ISBN 978-80-214-5445-3 (in English)

MENĎAN, R.: Specific Energy Need for Heating of a Common Family House in Various Quality of Solution of Thermal Protection. In: *Advanced Architectural Design and Construction 2016 (AADC 2016)*: proceedings of the scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 149-152. ISBN 978-80-214-5445-3 (in English)

MIKOLAI, I.: Stairway as comfortable and safe escape route. In: *ATF 2016*: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 214-217. ISBN 9789086497966 (in English)

MINAROVÍČOVÁ, K.: Renovation of „outdated“ apartment buildings in Slovakia. In: *Advanced Building Construction and Materials 2016 (ABCM 2016)*: proceedings of the scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 199-201. ISBN 978-80-248-4003-1 (in English)

MINAROVÍČOVÁ, K.: Balcony as an important architectural element of renovated buildings. In: *Advanced Building Construction and Materials 2016 (ABCM 2016)*: proceedings of scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 78-82. ISBN 978-80-248-4003-1 (in English)

MINAROVÍČOVÁ, K.: Entrances of Residential Buildings after Renovation. In: *Advanced Architectural Design and Construction 2016 (AADC 2016)*: proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 196-199. ISBN 978-80-214-5445-3 (in English)

MINAROVÍČOVÁ, K. – INGELI, R.: Architectural concept of the kindergarten with respect to environmental and energy requirements. In *ATF 2016*: proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 222-226. ISBN 9789086497966 (in English)

OLÁH, J.: Thermal Insulating Roof Layers in Correlation with Building Physics. In: *Strechy 2016*: proceedings from Bratislava symposium. Bratislava, SR, 21. - 22. 11. 2016. 1st ed. Bratislava: Slovak University of Technology in Bratislava, Faculty of Civil Engineering, 2016, pp. 59-66. ISBN 978-80-89728-07-7 (in Slovak)

OLBŘÍMEK, J. – STRAKOVÁ, Z.: Design of the Central Ventilation System for Residential Buildings in Accordance with the Fire Safety of Building's Requirement. In: *ATF 2016*: proceedings from 4th International Conference

on Applied Technology. 15 - 17 Sept. 2016, Leuven, Belgium. 1s ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 227-232. ISBN 9789086497966 (in English)

PALKO, M. – PALKOVÁ, A.: Architecture of Adaptive Façades. In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 76-88. ISBN 978-80-214-5445-3 (in English)

PALKO, M. – PALKOVÁ, A.: Substandard Transparent Facades - Object Solutions. In: Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 68-77. ISBN 978-80-248-4003-1 (in English)

PALKO, M. – PALKOVÁ, A.: Properties of windows - theoretical calculation of thermal transmittance. In: Proceedings of 24th SVSFEM ANSYS Users' Group Meeting and Conference 2016: Dolní Morava, ČR, 1. - 3. 6. 2016. 1st ed. Brno: SVS FEM, 2016, online, pp. 63-68. ISBN 978-80-905525-3-1 (in English)

PALKOVÁ, A. – PALKO, M.: COR-TEN Steel in Architecture. In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 60-65. ISBN 978-80-214-5445-3 (in English)

PAVČEKOVÁ, M. – MENĎAN, R.: Calculation and Assessment of Specific Energy Need for Heating of Almost Ideal Family House from the Point of View of Thermal Performance. In: Advanced Architectural Design and Construction 2016 (AADC 2016): proceedings of scientific conference with international participation. June 23, 2016, Lednice, Czech Republic. 1st ed. Brno: VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 153-156. ISBN 978-80-214-5445-3 (in English)

PAVČEKOVÁ, M. – MENĎAN, R.: Internal Surface Temperature in T-shaped Corners with Thermal Insulation. In: Advanced Building Construction and Materials 2016 (ABCM 2016): proceedings of the scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 162-167. ISBN 978-80-248-4003-1 (in English)

RYCHTÁRIKOVÁ, M. – CHMELÍK, V. – URBÁN, D. – VARGOVÁ, A.: Acoustic conditions in the atrium of Slovak philharmonic. In: Procedia Engineering: International Symposium on „Novel Structural Skins: Improving sustainability and efficiency through new structural textile materials and designs“. Newcastle, U. K., 26 - 28 October 2016. Vol. 155, (2016), online, pp. 464-471. ISSN 1877-7058 (in English)

SZABÓ, D.: Large Rain Chamber After Reconstruction within the Project UVP STU. In: Advanced Building Construction and Materials 2016 (ABCM 2016):

proceedings of scientific conference with international participation. Dec. 10, 2016, Luhačovice, Czech Republic. 1st ed. Ostrava: VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 305-308. ISBN 978-80-248-4003-1 (in English)

SZABÓ, D. – SZABÓ, J. – URBÁN, D.: The laboratory of building physics in 2016. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15 - 17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 277-286. ISBN 9789086497966 (in English)

ŠUJANOVÁ, P.: Virtual goniophotometry and its application in the modeling of a double transparent facade. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 535-544. ISBN 978-80-227-4645-8 (in Slovak)

VARGOVÁ, A. – RYCHTÁRIKOVÁ, M.: Is the sound insulation of a facade a relevant factor in price estimation of an apartment? In: DAGA 2016. Fortschritte der Akustik: 42. Jahrestagung für Akustik. Aachen, Germany, 14. - 17. März 2016. 1st ed. Berlin: Deutsche Gesellschaft für Akustik, 2016, CD-ROM, pp. 1362-1365. ISBN 978-3-939296-10-2 (in English)

ZAŤKO, P. – URBÁN, D. – TOMAŠOVIČ, P. – RYCHTÁRIKOVÁ, M.: Acoustic Performance of the External Thermal Composite Insulation Systems Influence in Slovakia. In: DAGA 2016. Fortschritte der Akustik: 42. Jahrestagung für Akustik. Aachen, Germany, 14. - 17. März 2016. 1st ed. Berlin: Deutsche Gesellschaft für Akustik, 2016, CD-ROM, pp. 1358-1361. ISBN 978-3-939296-10-2 (in English)

ZELEM, L. – CHMELÍK, V. – RYCHTÁRIKOVÁ, M. – GLORIEUX, C.: Analysis of the acoustic behavior of people in a restaurant. In: EuroRegio 2016: proceedings. Porto, Portugal, June 11-15 2016. 1st ed. Lisbon: Sociedade Portuguesa de Acústica (SPA), 2016, CD-ROM, [8] pp. ISSN 2340-7441. ISBN 978-84-87985-27-0 (in English)

ZRNEKOVÁ, J. – PAVČEKOVÁ, M. – RYCHTÁRIKOVÁ, M.: Subjective Assessment of Classrooms at the Faculty of Civil Engineering - Preliminary Study. In: ATF 2016: proceedings from 4th International Conference on Applied Technology. 15 - 17 Sept. 2016, Leuven, Belgium. 1st ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB key, pp. 307-312. ISBN 9789086497966 (in English)

DEPARTMENT OF STEEL AND TIMBER STRUCTURES

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Load-Bearing Metal Elements

Timber Elements and Structures

Load-Bearing Metal and Timber Elements

Load-Bearing Steel and Timber Systems

Metal and Timber Structures

Steel, Timber and Glass in Load-Bearing Structures

Steel Structures and Bridges

Special Problems of Steel and Timber Structures

Metal Bridges

High-Rise and Long-Span Structures

Composite Structures

Stability and Plasticity of Steel and Timber Structures

Obligatory elective subjects

Timber Structures

High-Rise and Long-Span Structures

Metal and Timber Structures and Bridges

Repair of Metal and Timber Structures

Metal and Timber Structures II

Steel, Timber and Glass in Architecture

Metal and Timber Structures

Structures of Environmental Steel and Timber Buildings

Repair and Recycling of Steel Buildings

Load-Bearing Steel and Timber Systems

Steel Structures of Water Works

2. THESES

2.1 Bachelor theses

There were 3 works.

2.2 Graduate theses

DEDÁČEK, M.: Bridge No. 214 on Highway D1 in the Hubová – Ivachnová Section

Supervisor: ŽIVNER, T.

FAJBIK, M.: Basic School

Supervisor: SÓGEL, K.

FEHERPATAKY, T.: Theoretical and Experimental Verification of Selected Roofs on the Krásna Hôrka Castle

Supervisor: SANDANUS, J.

CHABAN, T.: A Car Showroom in Martin

Supervisor: VANÍK, ZS.

JANIGLOŠOVÁ, J.: Multifunctional Sport Hall

Supervisor: SLIVANSKÝ, M.

KELČÍK, L.: Football Stadium in Banská Bystrica

Supervisor: SLIVANSKÝ, M.

KOŠARIŠŤAN, F.: Velodrome

Supervisor: MAGURA, M.

LUPTÁKOVÁ, I.: Highway Bridge over the Danube on Bypass D4

Supervisor: ÁROCH, R.

MATIAŠOVÁ, L.: An Office Building in Bratislava

Supervisor: SÓGEL, K.

MÉSZÁROS, R.: Design of Strengthening of Sport Hall in Žilina

Supervisor: SÓGEL, K.

MIKUŠ, O.: Volvo Showroom

Supervisor: MAGURA, M.

MOTYČÁKOVÁ, K.: An Information Centre in Zuberec

Supervisor: SANDANUS, J.

ORAVEC, D.: Road Bridge over the River Dunajec in Červený Kláštor

Supervisor: ŽIVNER, T.

PALUŠÁKOVÁ, S.: Refurbishment of Gym T18

Supervisor: SÓGEL, K.

RUSKO, M.: Bridge No. 201-00 on Highway D4 in the Ivanka pri Dunaji - Rača Section over the Vajnorská Brook
Supervisor: ŽIVNER, T.

SMÁDO, F.: Sport Hall in Brezno
Supervisor: SANDANUS, J.

SUROVEC, E.: Mountain Hotel in Terchová
Supervisor: SANDANUS, J.

VARGA, A.: Sport Hall in Banská Bystrica
Supervisor: VANÍK, ZS.

VRÁBEL, M.: Comparison of the Resistance of Elements Subjected to Combined Loadings According to EN 1993-1-1 and EN 1999-1-1
Supervisor: BALÁŽ, I.

ZAČKA, A.: Footbridge over the Biskupický Channel in Piešťany
Supervisor: SLIVANSKÝ, M.

ZBOJA, M.: Design of Road Bridge with Innovative Steel-Concrete Composite Structure
Supervisor: ÁROCH, R.

2.3 Doctoral theses

BRODNIANSKY, J.: Resistance of Thin-Walled Members and Structures Using Imperfections in the Shape of the Elastic Buckling Mode
Supervisor: ÁROCH, R.

BALCIERÁK, L.: Experimental and Theoretical Analysis of Glass Boards Subjected to Impacts
Supervisor: BRODNIANSKY, J.

KATONA, O.: Design Methods for Determination of the Resistance of Elements Made of Cross-Laminated Timber
Supervisor: SANDANUS, J.

DUCHOŇ, V.: Theoretical and Experimental Analysis of Joints with Glued-in Rods
Supervisor: SANDANUS, J.

3. RESEARCH

3.1 Research projects

Safety and Reliability of Modern Load-Bearing Elements Made of Metal, Glass and Membranes
(2016-2018, BRODNIANSKY, J.), VEGA 1/0747/16

Resistance of Metal Cross-Sections and Members under Combination of Internal Forces and Moments
(2015-2017, BALÁŽ, I.), VEGA 1/0819/15

Measuring the State of Load-Bearing Structures of Bridges by the Use of Dynamic Features
(2015, FÁBRY, M.) Fund of STU BA: Program for the Support of Young Researchers

Basis of Structural Timber Design, from Research to Standards
(2014-2018, SANDANUS, J.; SÓGEL, K.) COST FP1402

Quantifying the Value of Structural Health Monitoring
(2014-2018, ÁROCH, R.) COST TU 1402

3.2 International cooperation

Cooperating institutions

Brno University of Technology, Czech Republic

Czech Technical University in Prague, Czech Republic

Technical University of Ostrava, Czech Republic

Vienna University of Technology, Austria

Budapest University of Technology and Economics, Hungary

Graz University of Technology, Austria

Brandenburg University of Technology, Cottbus, Germany

Membership in international professional organizations

ÁROCH, R.: ECCS (European Convention for Constructional Steelwork), TC 7 Thin-Walled Structures

ÁROCH, R.: ECCS (European Convention for Constructional Steelwork), TC 10 Structural Connections

ÁROCH, R.: IABSE (International Association for Bridge and Structural Engineering)

BALÁŽ, I.: Member of Eurocode National Correspondents Working Group

BALÁŽ, I.: Member of CEN TC 250 SC3 Subcommittee SC3 Design of Steel Structures

BALÁŽ, I.: Member of CEN TC 250 SC9 Subcommittee SC9 Design of Aluminium Structures

BALÁŽ, I.: Member of SC3 Evolution Group for EN 1993-1-1 Design of Buildings

BALÁŽ, I.: Member of SC3 Evolution Group for EN 1993-1-3 Design of Cold-Formed Members and Sheeting

BALÁŽ, I.: Member of SC3 Evolution Group for EN 1993-1-5 Design of Plated Structural Elements

BALÁŽ, I.: Member of SC3 Evolution Group for EN 1993-2 Design of Steel Bridges

BALÁŽ, I.: Member of SC9 Evolution Group for EN 1999-1-1 Design of Aluminium Structures

BALÁŽ, I.: Member of TC 7, TWG 7.5, ECCS (European Convention for Constructional Steelwork), Technical Committee 7: Thin-Walled, Cold-Formed Sheet Steel in a Building. TC 7.5: Practical Improvement of Design Procedures: European Recommendations for the Application of Metal Sheeting Acting as a Diaphragm

BALÁŽ, I.: Member of TC 8, TWG 8.3, ECCS (European Convention for Constructional Steelwork), Technical Committee 8: Thin-walled, cold formed sheet steel in a building. TC 8.3: Plate Buckling

BALÁŽ, I.: Member of IABSE (International Association for Bridge and Structural Engineers)

BALÁŽ, I.: P.E., M.ASCE, Member of ASCE (American Society of Civil Engineering) since 1997

BRODNIANSKY, J.: IASS (International Association for Shell and Spatial Structures)

MAGURA, M.: IASS (International Association for Shell and Spatial Structures)

SLIVANSKÝ, M.: IASS (International Association for Shell and Spatial Structures)

SLIVANSKÝ, M.: CEN/TC 250/SC 11 (Structural Glass, European Committee for Standardisation)

SANDANUS, J.: IASS (International Association for Shell and Spatial Structures)

CSÖLLEOVÁ, ZS.: EMT (Hungarian Technical Scientific Society of Transylvania)

SÓGEL, K.: EMT (Hungarian Technical Scientific Society of Transylvania)

4. PUBLICATIONS

Books

PUŠKÁR, A. – PETRÁŠ, D. – SANDANUS, J. – SÓGEL, K. – DRŽKA, M.: Reducing the Energy Consumption of Buildings for the Profession Bricklayer. 1. Edition. Institute for Adult Education and Services, 2016, ISBN 978-80-89073-20-7, 191 pp. (in Slovak)

Parts of books

PAVLÁSEK, J. – ŠTUJBEROVÁ, M. – VAVROVIČ, B. – PUŠKÁR, A. – PETRÁŠ, D.: Reducing the Energy Consumption of Buildings for the Profession: Assembly of Concrete and Steel Structures and Claddings. Bratislava 2016, ISBN 978-80-89073-19-1

Journals

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Plastic Resistance of H-section to Interaction of Bending Internal Forces $M_y E_d$, $V_z E_d$ and Torsion Internal Forces $B E_d$, T_{omega, E_d} and $T_t E_d$. In: Interdisciplinarity in Theory and Practice. No. 10 (2016), ISSN 2344-2409, pp. 311-315 (in English)

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Elastic and Plastic St. Venant Torsion in Metal Eurocodes. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), ISSN 2344-2409, pp. 44-48 (in English)

BALCIERÁK, L. – BRODNIANSKY, J. – KLAS, T. – DUCHOŇ, V. – BRODNIANSKY, J. – KATONA, O.: Laboratory Pendulum Tests of Different Types of Glass Plates. In: Interdisciplinarity in Theory and Practice. No. 10 (2016), ISSN 2344-2409, pp. 299-304 (in English)

BALCIERÁK, L. – BRODNIANSKY, J. – KLAS, T. – BRODNIANSKY, J.: Experimental Analysis of Glass Plates by Impact. In: Konstrukce. Vol. 15, No. 5 (2016), ISSN 1213-8762, pp. 45-53 (in Slovak)

BRODNIANSKY, J. – BALCIERÁK, L. – DUCHOŇ, V. – KATONA, O.: Numerical Validation of EUGLI Imperfection Method for Columns with Varying Cross-Sectional Parameters. In: Interdisciplinarity in Theory and Practice. No. 10 (2016), ISSN 2344-2409, pp. 321-326 (in English)

DUCHOŇ, V. – KLAS, T. – BRODNIANSKY, J.: Bending Test of Timber Beam Bonded with Glued-in Threaded Rods. In: Konstrukce. Vol. 15, No. 2 (2016), ISSN 1213-8762, pp. 99-104 (in Slovak)

DUCHOŇ, V. – KLAS, T. – KATONA, O. – BRODNIANSKY, J. – BALCIERÁK, L. – SANDANUS, J. – SÓGEL, K.: Experimental Tests of Timber Connections with Glued-in Rods in Bending. In: Wood Research. Vol. 61, No. 4 (2016), ISSN 1336-4561, pp. 565-572 (in English)

FÁBRY, M. – ÁROCH, R. – LIPTÁK, I.: System Identification of Bridges and Modal Models. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), ISSN 2344-2409, pp. 79-84 (in English)

KAMENICKÁ, Z. – BOTLÓ, M.: Mechanical Resistance of Timber Structures in Fire. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), ISSN 2344-2409, pp. 85-90 (in English)

KATONA, O. – KLAS, T. – DUCHOŇ, V. – BRODNIANSKY, J. – BALCIERÁK, L. – SANDANUS, J.: Experimental Study of Behaviour of CLT Deep Beams. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), ISSN 2344-2409, pp. 195-199 (in English)

KLAS, T. – MAGURA, M. – BRODNIANSKY, J.: Laboratory Tests of Tubes with Defects and Imperfections. In: Konstrukce. Vol. 15, No. 1 (2016), ISSN 1213-8762, pp. 94-95 (in Slovak)

KOVÁČ, M. – VANÍK, ZS. – MAGURA, M.: Simplified Analysis for Frames with Laced Built-up Members. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), ISSN 2344-2409, pp. 222-226 (in English)

MAGURA, M.: Interaction of Buried Pipeline with Soil under Different Loading Cases. In: Slovak Journal of Civil Engineering. Vol. 24, No. 3 (2016), ISSN 1210-3896, pp. 29-35 (in English)

NITTMANNOVÁ, L. – MAGURA, M.: Interaction of Reinforced Elastomeric Bearings in Bridge Construction. In: Slovak Journal of Civil Engineering. Vol. 24, No. 1 (2016), ISSN 1210-3896, pp. 34-40 (in English)

SANDANUS, J. – SÓGEL, K. – SLIVANSKÝ, M.: Results of Rheological Test on Timber Trusses. In: Wood Research. Vol. 61, No. 2 (2016), ISSN 1336-4561, pp. 235-242 (in English)

SÓGEL, K. – SANDANUS, J.: Massive Timber for Clever Heads. In: Bauen mit Holz. Vol. 118, No. 9 (2016), ISSN 0005-6545, pp. 10-13 (in German)

SUROVEC, L. – SLIVANSKÝ, M.: Experimental and Numerical Tests of Composite Timber-Concrete Floor. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), ISSN 2344-2409, pp. 162-167 (in English)

VANÍK, ZS. – MAGURA, M.: Modern Lightweight Structures. In: Applied Mechanics and Materials, Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building. Vol. 824, (2016), ISSN 1660-9336, pp. 42-49 (in English)

ŽIVNER, T. – ÁROCH, R. – FÁBRY, M.: The Influence of Slab Concreting Sequence on a Continuous Composite Girder Bridge. In: Key Engineering Materials. Vol. 691, (2016), ISSN 1013-9826, pp. 96-107 (in English)

ŽIVNER, T. – ÁROCH, R. – FÁBRY, M.: Elastic Buckling Moment of Continuous Composite Beams. In: Key Engineering Materials. Vol. 691, (2016), ISSN 1013-9826, pp. 86-95 (in English)

Conference Proceedings

ABRAHOIM, I. – BOČEK, J. – BAJI, CS. – VARGA, Á.: Static Analysis of Structural Modifications of a Panel House in Ružinov. In: Concrete Days 2016. Proceedings of Conference. Bratislava, Slovak Republic, 20. - 21. 10. 2016. 1. Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4622-9, pp. 345-350 (in Slovak)

AGÓCS, Z. – BRODNIANSKY, J. – SLIVANSKÝ, M. – SÓGEL, K. – VANKO, M.: New Bridges over the River Ipeľ. In: Procedia Engineering. 9th International Conference "Bridges in Danube Basin 2016". Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156 (2016), ISSN 1877-7058, pp. 2-7 (in English)

ÁROCH, R. – BRODNIANSKY, J.: Comparison of Different Eurocode Verifications of a Thin-Walled Member Portal Frame. In: SDSS 2016. Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Timisoara, Romania, 30. 5. - 1. 6. 2016. ECCS - European Convention for Constructional Steelwork, 2016, ISBN 978-92-9147-133-1, pp. 275-282 (in English)

ÁROCH, R. – SOKOL, M. – VENGLÁR, M.: Structural Health Monitoring of Major Danube Bridges in Bratislava. In: Procedia Engineering. 9th International Conference "Bridges in Danube Basin 2016". Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156 (2016), ISSN 1877-7058, pp. 24-31 (in English)

BALÁŽ, I. – ŽIVNER, T. – KOLEKOVÁ, Y.: Critical Moment of Timber Cantilever under Uniform Load q . In: Advances and Trends in Engineering Sciences and Technologies. Proceedings of the International Conference on Engineering Sciences and Technologies. Tatranská Štrba, Slovak Republic, 27. - 29. 5. 2015. Taylor & Francis Group, London, United Kingdom, 2016, ISBN 978-1-138-02907-1, pp. 27-32 (in English)

BALÁŽ, I. – ŽIVNER, T. – KOLEKOVÁ, Y.: Critical Moment of Timber Cantilever under Point End Load F . In: Advances and Trends in Engineering Sciences and Technologies. Proceedings of the International Conference on Engineering Sciences and Technologies. Tatranská Štrba, Slovak Republic, 27. - 29. 5. 2015. Taylor & Francis Group, London, U. K., 2016, ISBN 978-1-138-02907-1, pp. 21-26 (in English)

BALÁŽ, I. – KOLEKOVÁ, Y.: Limit States Design and Partial Factors γ_{M0} and γ_{M1} in Metal Eurocodes. In: Applied Mechanics and Materials. Selected, peer reviewed papers from the Engineering Mechanics 2015. Svatka, Czech Republic, 11. - 14. 5. 2015. Vol. 821, (2016), ISSN 1660-9336, pp. 774-781 (in English)

BALÁŽ, I. – KOLEKOVÁ, Y.: New Generation of Eurocodes. In: Production Management and Engineering Sciences. 1. Edition. CRC Press. Taylor & Francis Group, London, United Kingdom, 2016, ISBN 978-1-138-02856-2, pp. 345-350 (in English)

BALÁŽ, I. – KAMENICKÁ, Z. – KOLEKOVÁ, Y.: Historical Covered Timber Bridges in Slovakia. In: Statika stavieb 2016. Proceedings of 21st Conference. Piešťany, Slovak Republic, 10. - 11. 3. 2016. Spolok statikov Slovenska, Bratislava, 2016, ISBN 978-80-89842-00-1, pp. 250-257 (in Slovak)

BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Behaviour of Box-Girder under Symmetrical Action. In: Engineering Mechanics 2016. Book of full texts. 22nd International Conference. Svatka, Czech Republic, 9. - 12. 5. 2016. Institute of Thermomechanics, Academy of Sciences of the Czech Republic, Prague, 2016, ISSN 1805-8248, ISBN 978-80-87012-59-8, pp. 37-42 (in English)

BALÁŽ, I. – KOLEKOVÁ, Y.: Distortion and Torsion of Experimental Box-Girder Calculated Using Analogy with Bending. In: SDSS 2016. Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Timisoara, Romania, 30. 5. - 1. 6. 2016. ECCS - European Convention for Constructional Steelwork, 2016, ISBN 978-92-9147-133-1, pp. 591-598 (in English)

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Warping Torsion and Mixed Torsion in Metal Eurocodes. In: ESaT 2016. Proceedings of 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29th of June - 1st of July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag. (in English)

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Plastic Resistance of I-Section to Interaction of Bending and Torsion in Current and Future Metal Eurocodes. In: ESaT 2016. Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag. (in English)

BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Torsion at SNP Bridge in Bratislava. In: Procedia Engineering. 9th International Conference "Bridges in Danube Basin 2016". Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156 (2016), ISSN 1877-7058, pp. 40-47 (in English)

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Torsional-Flexural Critical Force for Various Boundary Conditions. In: Key Engineering Materials. Aluminium Constructions. Sustainability, Durability and Structural Advantages. Selected, peer reviewed papers from the 13th International Aluminium Conference INALCO 2016. Sept. 21-23, 2016, Naples, Italy. Vol. 710 (2016), ISSN 1013-9826, pp. 303-308 (in English)

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Resistances of I-Section to Internal Forces Interactions. In: Key Engineering Materials. Aluminium Constructions. Sustainability, Durability and Structural Advantages. Selected, peer reviewed papers from the 13th International Aluminium Conference INALCO 2016. Sept. 21-23, 2016, Naples, Italy. Vol. 710 (2016), ISSN 1013-9826, pp. 309-314 (in English)

- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Influence Lines of Bimoment at Intermediate Support of SNP Bridge. In: Bridges in Danube Basin. New Trends in Bridge Engineering and Efficient Solution for Large and Medium Span Bridges. Extended abstracts from the 9th International Conference. Žilina, Slovak Republic, Sept. 30 – Oct. 01, 2016. EDIS, Žilina, 2016, ISBN 978-80-554-1249-8, pp. 23-24 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – VÉGHOVÁ, I.: Influence Lines of Torsional Bimoments of Large Box-Girder Steel and Concrete Bridges. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 21-28 (in Slovak)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Generalization of Unique Global and Local Initial Imperfection Used in EN 1993-1-1 and EN 1999-1-1. In: Steel and Aluminium Structures. Proceedings of the 8th International Conference. Hong Kong, China, 7-9 Dec. 2016. The University of Hong Kong, Department of Civil Engineering, 2016, ISBN 978-962-8014-26-2, pp. 1398-1411 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y.: Two Historical Covered Timber Bridges in Gelnica. In: BASA 2016. Proceedings of International Scientific Conference. 23-25 Nov. 2016, Sofia, Bulgaria. Bulgarian Academy of Science and Arts, 2016, ISBN 978-954-8931-50-2, pp. 331-338 (in English)
- BALÁŽ, I. – KAMENICKÁ, Z. – KOLEKOVÁ, Y.: Historical Covered Timber Bridge in Gelnica Near Station. In: Applied Mechanics and Materials. Trends in Statics and Dynamics of Construction II. Selected, peer reviewed papers from the 13th International Conference on New Trends in Statics and Dynamics of Buildings. Bratislava, Slovak Republic, 15. - 16. 10. 2015. Vol. 837 (2016), ISSN 1660-9336, pp. 44-51 (in English)
- BALCIERÁK, L.: Description of the Pendulum Test in a Laboratory and the Preliminary Results. In: Juniorstav 2016. Proceedings of 18th Scientific PhD Conference. Brno, Czech Republic, 28. 1. 2016. Brno University of Technology, 2016, ISBN 978-80-214-5311-1 (in Slovak)
- BALCIERÁK, L. – BRODNIANSKY, J. – KLAS, T. – DUCHOŇ, V. – BRODNIANSKY, J. – KATONA, O.: Pendulum Tests of Glass Plates. In: ESaT 2016. Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag. (in English)
- BOTLÓ, M.: Experimental Verification of a Slip-Joint - Preparatory Stage. In: Juniorstav 2016. Proceedings of 18th Scientific PhD Conference. Brno, Czech Republic, 28. 1. 2016. Brno University of Technology, 2016, ISBN 978-80-214-5311-1
- BOTLÓ, M. – BRODNIANSKY, J.: Simplified Methodology of Stress Calculation in Slip-Joint Connections. In: SDSS 2016. Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Timisoara, Romania, 30. 5. - 1. 6. 2016. ECCS - European Convention for Constructional Steelwork, 2016, ISBN 978-92-9147-133-1, pp. 175-180 (in English)
- BOTLÓ, M. – MAGURA, M. – BRODNIANSKY, J. (Jr.) – BRODNIANSKY, J.: Numerical and Experimental Analysis of Structural Details of Electrical Transmission Line Towers. In: IASS 2016. Proceedings of the Annual Symposium. Spatial Structures in the 21st Century. Sept. 26-30, 2016, Tokyo, Japan. The University of Tokyo, 2016 (in English)
- BOTLÓ, M. – KLAS, T.: Experimental Testing of a Slip Joint. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 37-44 (in Slovak)
- BOTLÓ, M.: Slip-Joint Connection – Experimental Analysis. In: Advances in Architectural, Civil and Environmental Engineering. 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4645-8, pp. 317-322 (in Slovak)
- BRODNIANSKY, J. – MAGURA, M. – SLIVANSKÝ, M.: Increasing the Durability and Safety of Pipeline Bridges. In: Procedia Engineering. 9th International Conference "Bridges in Danube Basin 2016". Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156 (2016), ISSN 1877-7058, pp. 69-74 (in English)
- BRODNIANSKY, J. – MAGURA, M.: Problematics of Pipe Network Design and Safety Remain. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 55-60 (in Slovak)
- BRODNIANSKY, J.: Equivalent Imperfections for Columns and Beams (FTB Problem, LTB Problem). In: Juniorstav 2016. Proceedings of 18th Scientific PhD Conference. Brno, Czech Republic, 28. 1. 2016. Brno University of Technology, 2016, ISBN 978-80-214-5311-1
- BRODNIANSKY, J.: Elastic Critical Buckling Mode as Imperfection on Frame with Non-Uniform Cross-Section Along the Members with Imperfection According EN 1993-1-1 Clause 5.3.2 (11). In: SDSS 2016. Proceedings of the International Colloquium on Stability and Ductility of Steel Structures. Timisoara, Romania, 30. 5. - 1. 6. 2016. ECCS - European Convention for Constructional Steelwork, 2016, ISBN 978-92-9147-133-1, pp. 67-74 (in English)
- BRODNIANSKY, J. – BALCIERÁK, L. – DUCHOŇ, V. – KATONA, O.: Utilization of Matrix Procedure for EUGLI Imperfection Method for Columns with Varying Cross-Sectional Parameters. In: ESaT 2016. Proceedings of 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag.
- BRODNIANSKY, J.: EUGLI Imperfection Method for Line Beam Members in a 3D Environment. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 45-54. (in Slovak)

- DUCHOŇ, V. – KLAS, T.: Moment Resistance of Wooden Beam Joints with Glued-in Rods. In: Juniorstav 2016. Proceedings of 18th Scientific PhD Conference. Brno, Czech Republic, 28. 1. 2016. Brno University of Technology, 2016, ISBN 978-80-214-5311-1
- ĎUREJOVÁ, J.: Cable Roof Constructions. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 85-92 (in Slovak)
- ĎUREJOVÁ, J.: Cable Roof Structures – Spoked Wheel Type Structures. In: Advances in Architectural, Civil and Environmental Engineering. 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. October 2016, Bratislava. Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4645-8, pp. 323-328 (in Slovak)
- FÁBRY, M. – ŽIVNER, T. – ÁROCH, R.: Reconstruction of the "Old Bridge to the Island" Across the Váh River in Trenčín. In: Procedia Engineering. 9th International Conference "Bridges in Danube Basin 2016". Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156 (2016), ISSN 1877-7058, pp. 97-102 (in English)
- FÁBRY, M. – ÁROCH, R. – FÁBRYOVÁ CHALUPKOVÁ, K.: Steel Bridges – Reconstruction of the Bridge in Trenčín. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 93-96 (in Slovak)
- FÁBRY, M.: Non-Destructive Dynamic Measurements - Overview of the Results. In: Advances in Architectural, Civil and Environmental Engineering. 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4645-8, pp. 329-334 (in Slovak)
- FÁBRY, M. – ÁROCH, R. – LIPTÁK, I.: Measurement of a Suspension Footbridge in Bratislava. In: ESaT 2016. Proceedings of 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag.
- GRAMBLIČKA, Š. – ŽIVNER, T.: Failures of the Hall-Type HARD Bearing Structure. In: Statika stavieb 2016. Proceedings of 21st Conference. Piešťany, Slovak Republic, 10. - 11. 3. 2016. Spolok statikov Slovenska, 2016, ISBN 978-80-89842-00-1, pp. 117-120 (in Slovak)
- GRAMBLIČKA, Š. – ŽIVNER, T.: Repairs of Steel Structures after Long-Term Use in Aggressive Environment. In: Key Engineering Materials. Proceedings of the 17th Conference on the Rehabilitation and Reconstruction of Buildings (CRRB 2015). Vol. 714 (2016), ISSN 1013-9826, pp. 213-220 (in English)
- HORÁČEK, M. – MELCHER, J. – PEŠEK, O. – BRODNIANSKY, J.: Focusing on Problem of Lateral Torsional Buckling of Beams with Web Holes. In: Procedia Engineering. World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, Czech Republic, 13. - 17. 6. 2016. Vol. 161 (2016), ISSN 1877-7058, pp. 549-555 (in English)
- KAMENICKÁ, Z.: Structural Fire Design of Timber Structures. In: Juniorstav 2016. Proceedings of 18th Scientific PhD Conference. Brno, Czech Republic, 28. 1. 2016. Brno University of Technology, 2016, ISBN 978-80-214-5311-1 (in Slovak)
- KAMENICKÁ, Z. – SANDANUS, J.: Simplified and Advanced Design Methods for Mechanical Resistance of Timber Structures. In: Wood & Fire Safety. Proceedings of the 8th International Conference. The High Tatras, Štrbské Pleso, 8. - 12. May 2016. EDIS, Žilina, 2016, ISBN 978-80-554-1201-6, pp. 129-136 (in English)
- KAMENICKÁ, Z. – BOTLÓ, M.: Timber Structures Exposed to Fire. In: ESaT 2016. Proceedings of 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag.
- KAMENICKÁ, Z.: Action of Fire on Timber Structures. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 105-112 (in Slovak)
- KAMENICKÁ, Z.: Advanced Calculations for Determination of the Mechanical Resistance of Timber Members in a Fire. In: Advances in Architectural, Civil and Environmental Engineering. 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4645-8, pp. 341-346 (in Slovak)
- KATONA, O. – KLAS, T.: Bending Test on CLT Deep Beams. In: Juniorstav 2016. Proceedings of 18th Scientific PhD Conference. Brno, Czech Republic, 28. 1. 2016. Brno University of Technology, 2016, ISBN 978-80-214-5311-1 (in English)
- KATONA, O. – KLAS, T. – DUCHOŇ, V. – BRODNIANSKY, J. – BALCIERÁK, Ľ. – SANDANUS, J.: Experimental Investigation on In-Plane Behaviour of CLT Deep Beams. In: ESaT 2016. Proceedings of 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag. (in English)
- KLAS, T.: Experiments Carried out by the Department of Steel and Timber Structures for the Needs of Doctoral Theses in the Years 2015-2016. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 131-138 (in Slovak)
- KOLEKOVÁ, Y. – KOVÁČ, M. – BALÁŽ, I.: Influence Lines of Bridges with Box-Girder Cross-Section under Torsion and Distortion. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering. Proceedings of

- 3rd International Conference. High Tatras, Štrbské Pleso, Slovak Republic, Nov. 9 - 11, 2016. Technical University of Košice, 2016, ISBN 978-80-553-2643-6 (in English)
- KOVÁČ, M. – VANÍK, ZS.: Global Buckling of Frames with Laced Compression Members. In: Applied Mechanics and Materials. Trends in Statics and Dynamics of Construction II. Selected, peer reviewed papers from the 13th International Conference on New Trends in Statics and Dynamics of Buildings. Bratislava, Slovak Republic, 15. - 16. 10. 2015. Vol. 837 (2016), ISSN 1660-9336, pp. 103-108 (in English)
- KOVÁČ, M. – VANÍK, ZS. – MAGURA, M.: Buckling of Sway Type Frames with Laced Built-up Members. In: ESaT 2016. Proceedings of 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag. (in English)
- KOVÁČ, M. – BALÁŽ, I. – KOLEKOVÁ, Y. – ŽIVNER, T.: Critical Axial Force of Torsional-Flexural Buckling for Various Boundary Conditions by Goldenvejzer's Approximate Method. In: Steel and Aluminium Structures. Proceedings of the 8th International Conference. Hong Kong, China, 7-9 Dec. 2016. The University of Hong Kong, Department of Civil Engineering, 2016, ISBN 978-962-8014-26-2, pp. 1088-1096 (in English)
- KOVÁČ, M. – VANÍK, ZS.: Sway Buckling Influence for Portal Frames with Laced Built-up Members. The Parametric Study. In: MMK 2016. 7th International Masaryk Conference for PhD. Students and Young Researchers. Proceedings of the International Scientific Conference, 12. - 16. 12. 2016, Hradec Králové, Czech Republic. Magnanimitas, Hradec Králové, 2016, ISBN 978-80-87952-17-7, pp. 1740-1746 (in English)
- NIKO, I.: Structures Loaded by Torsion. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 145-148 (in Slovak)
- NIKO, I.: Resistance of Metal Members Subjected to the Interaction of Internal Forces According to EC 3 and EC 9. In: Advances in Architectural, Civil and Environmental Engineering. 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4645-8, pp. 371-376 (in Slovak)
- NITTMANNOVÁ, L. – MAGURA, M.: Experimental Verification of Elastomeric Bearings According to STN EN 1337-3. In: Procedia Engineering. 9th International Conference "Bridges in Danube Basin 2016". Žilina, Slovak Republic, 30. 9. - 1. 10. 2016. Vol. 156 (2016), ISSN 1877-7058, pp. 280-287 (in English)
- SANDANUS, J. – SÓGEL, K. – DUCHOŇ, V. – KATONA, O.: History, Present and Future of Timber Constructions in Slovakia. In: Dřevostavby 2016. Proceedings of Expert Seminar with Foreign Participation. Volyně, Czech Republic, 23. - 24. 3. 2016. Higher Professional School and Secondary Technical School Volyně 2016, ISBN 978-80-86837-84-0, pp. 83-92 (in Slovak)
- SANDANUS, J. – SÓGEL, K. – LUŽICA, F. – KLAS, T.: Verification of Experimental Stiffness of a Timber Frame Joint. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 183-187 (in Slovak)
- SLIVANSKÝ, M.: Analysis of Half Dove-Tail Joint in the Details of Historical Roofs. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 193-198 (in Slovak)
- SLIVANSKÝ, M. – SANDANUS, J.: Reconstruction of the Roof Structures the Krásna Hôrka Castle. In: IASS 2016. Proceedings of the Annual Symposium. Spatial Structures in the 21st Century. September 26-30, 2016, Tokyo, Japan. The University of Tokyo, 2016 (in English)
- SUROVEC, L. – SLIVANSKÝ, M.: Measurement of Composite Timber-Concrete Floor. In: ESaT 2016. Proceedings of 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4, unpag. (in English)
- SUROVEC, L. – SLIVANSKÝ, M.: Preparation of Laboratory Samples of Timber-Concrete Composite Beams. In: Proceedings of 41st Meeting of Experts on Steel Structures. Štrbské Pleso, Slovak Republic, 19. - 21. 10. 2016. Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2612-2, pp. 199-206 (in Slovak)
- SUROVEC, L. – SLIVANSKÝ, M.: Composite Timber-Concrete Floor: Experimental and Theoretical Verification. In: IASS 2016. Proceedings of the Annual Symposium. Spatial Structures in the 21st Century. Sept. 26-30, 2016, Tokyo, Japan. The University of Tokyo, 2016 (in English)
- SUROVEC, L.: Laboratory Measurement of Composite Timber-Concrete Beams. In: Advances in Architectural, Civil and Environmental Engineering. 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4645-8, pp. 405-411 (in Slovak)
- VENGLÁR, M. – SOKOL, M. – ÁROCH, R. – BUDAJ, J.: Initial Experimental Test of the Port Bridge for Structural Health Monitoring. In: Applied Mechanics and Materials. Trends in Statics and Dynamics of Construction II. Selected, peer reviewed papers from the 13th International Conference on New Trends in Statics and Dynamics of Buildings. Bratislava, Slovak Republic, 15. - 16. 10. 2015. Vol. 837 (2016), ISSN 1660-9336, pp. 135-139 (in English)
- VENGLÁR, M. – SOKOL, M. – ÁROCH, R.: System Identification of a Truss Beam. In: Engineering Mechanics 2016. Book of full texts. 22nd International Conference. Svratka, Czech Republic, 9. - 12. 5. 2016. Prague, Institute of Thermomechanics Academy of Sciences of the Czech Republic, 2016, ISSN 1805-8248, ISBN 978-80-87012-59-8, pp. 573-576 (in English)

DEPARTMENT OF MATHEMATICS AND DESCRIPTIVE GEOMETRY

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Descriptive Geometry

Mathematics I

Mathematics II

Mathematics III

Mathematics IV

Informatics

Mathematical Statistics

Mathematical Cartography

Mathematical Analysis I

Engineering Geometry and AutoCAD I

Engineering Geometry and AutoCAD II

Geometry

Algebraic Structures and Mathematical Logic

Programming in C Language

Probability Theory

Numerical Mathematics

Modelling and Data Analysis

Finite Element Methods

Functional Analysis and Variational Methods

Stochastic and Differential Equations

Fluid Flow

Time Series Analysis

Financial Mathematics

Software (ANSYS)

Applied Statistics

Projection Methods

Applied Mathematics

Optional subjects

Architectural Mathematics

Foundations of Mathematics

Informatics and Statistics

Mathematical Statistics

Numerical and Stochastic Methods

Recommended subjects

Computer Graphics

Fuzzy Management

1.2 Postgraduate courses

Aggregation Functions

Decision Theory

Discrete Mathematics

Dynamic and Stochastic Optimisation

Graph Theory

Linear Models of Time Series

Mathematical Basis of the Finite Element Method I

Mathematical Basis of the Finite Element Method II

Mathematical Methods in Fluid Flow, Diffusion and Heat Transfer

Mathematical Models of Fluid Dynamics

Mathematics

Multicriteria Decision Support

Multidimensional Statistics

Nonlinear Models of Time Series

Numerical Methods in Fluid Flow, Diffusion and Heat Transfer

Probability and Statistical Estimation

Proposed Experiment in Optimization

Statistical Methods in Geodesy

Stochastic Processes I

Time Series Analysis in Civil Engineering

2. THESES

2.1 Bachelor theses

There were 11 works.

2.2 Graduate theses

BLASCHKE, R.: Numerical Computation of First Arrival Time Function for Forest Fire Propagation
Supervisor: FROLKOVIČ, P.

KRAKOVSKÝ, M.: Algorithmic Trading Methods
Supervisor: MIKULA, K.

MESZÁROŠOVÁ, R.: Finite Difference Method for the Solution of Unsaturated Groundwater Flow Problems
Supervisor: FROLKOVIČ, P.

MOJŠOVÁ, D.: Optimizing the Distortion of a Territory in Developing Map Projections
Supervisor: VAJSÁBLOVÁ, M.

ROŽNOVJÁK, R.: Graph Algorithms for Finding the Shortest Paths in Graphs and Their Application in Image Segmentation
Supervisor: ŽDÍMALOVÁ, M.

SZELLEOVÁ, E.: Evaluation of the Parameters of Elliptical Curves over Prime Power Order Fields
Supervisor: ŠIRÁŇ, J.

2.3 Doctoral theses

HUCÍKOVÁ, V.: Regular Maps and Map Operators
Supervisor: ŠIRÁŇ, J.

HRINÁKOVÁ, K.: Regular Maps on a Linear Fractional Group
Supervisor: ŠIRÁŇ, J.

SMREK, P.: Non-Additive Measures and Integrals and Their Applications
Supervisor: MESIAR, R.

ŠIPEKY, L.: Aggregation Functions: Some New Methods and New Approaches
Supervisor: MESIAR, R.

URBÁN, J.: New Improvements of Atlas-Based Image Segmentations
Supervisor: MIKULA, K.

3. RESEARCH

3.1 Research projects

Advanced Methods of Uncertainty Modelling for Decision Problems
(2015-2019, MESIAR, R.), APVV-14-0013

Algebraic Probabilistic and Categorical Aspects of the Modelling of Quantum Events and Uncertainty
(2016-2019, SARKOCI, P.), VEGA 2/0069/16

Algebraic, Topological and Combinatorial Methods in the Study of Discrete Structures
(2016-2020, ŠIRÁŇ, J.), APVV-15-0220

Determination of the Geometric Characteristics of Objects on Images Obtained from Relevant Criminal Records
(2013-2017, MIKULA, K.), APVV 0161-12

Graphs as Network Models with Given Metric Properties and a Given Level of Symmetry
(2013-2017, ŠIRÁŇ, J.), APVV 0136-12

Modern Methods of Information Aggregation and Applications
(2015-2018, MESIAR, R.), VEGA 1/0420/15

Numerical Methods for the Development of Curves and Surfaces and Their Applications
(2016-2020, MIKULA, K.), APVV-15-0522

Numerical Methods for Modelling the Earth's Gravity Field and Non-Linear Filtering of Data in Geodesy
(2015-2018, ČUNDERLÍK, R.), VEGA 1/0714/15

Optimization of Geomodeling Processes Using Probabilistic and Fuzzy Data
(2016-2019, STUPŇANOVÁ, A.), VEGA 1/0682/16

Metric Extremal Problems in Graphs and Discrete Structures
(2016-2018, KNOR, M.), VEGA 1/0026/26

The Development of New Numerical Methods for Engineering Applications
(2015-2018, MIKULA, K.), VEGA 1/0608/15

Semi-Implicit Methods for the Solution of Partial Differential Equations
(2015-2018, FROLKOVIČ, P.), VEGA 1/0728/15

Symmetric Maps
(2014-2016, ŠIRÁŇ, J.), VEGA 1/0007/14

3.2 International cooperation

Cooperating institutions

AVL LIST GmbH Graz, Austria

Beijing Institute of Technology, China

CINECA – Supercomputing Centre, Bologna, Italy

CNRS, Paris, France

Communication University of China, Beijing, China

Complutense University, Madrid, Spain

Czech Academy of Sciences, Czech Republic

Czech Technical University in Prague, Czech Republic

Faculty of Information Studies, Novo Mesto, Slovenia

Goethe Center for Scientific Computing, University of Frankfurt, Germany

Goethe University, Frankfurt, Germany

Charles University in Prague, Czech Republic
 ICS, Paris, France
 Karadeniz Technical University in Trabzon, Turkey
 La Sapienza University, Rome, Italy
 Open UNI London, Great Britain
 Pohang University of Science and Technology, South Korea
 The Open University, Milton Keynes, United Kingdom
 TU Budapest, Hungary
 TU Cracow, Poland
 Universita Autonoma, Mexico City, Queretaro, Mexico
 Universidad Nacional Autónoma de México, Mexico City, Distrito Federal, Mexico
 Universitat Polytechnica e Catalunya in Barcelona, Spain
 Universita de Roma, Italy
 University of Auckland, New Zealand
 University of Bologna, Italy
 University of Bremen, Germany
 University of Catania, Italy
 University of Dortmund, Germany
 University of Erlangen-Nürnberg, Germany
 University of Freiburg, Germany
 University of Ghent, Belgium
 University of Groningen, The Netherlands
 University of Haifa, Israel
 University of Heidelberg, Germany
 University of Latvia, Latvia
 University of Lleida, Spain
 University of Liberec, Czech Republic
 University of Linz, Austria
 University of Ljubljana, Slovenia
 University of Newcastle, Australia
 University of Novi Sad, Serbia
 University of Ostrava, Czech Republic
 University of Pamplona, Spain
 University of Sannio, Benevento, Italy
 University of the Balearic Islands, Palma de Mallorca, Spain
 University of Waterloo, Canada
 UPC University in Barcelona, Spain
 WB University, Plzeň, Czech Republic
 Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany
 Western Australia University, Perth, Australia
 Western Washington University, Bellingham, WA, USA

Membership in international professional organizations

ČUNDERLÍK, R.: Joint Study Group 0.12: "Advanced Computational Methods for the Recovery of High-Resolution Gravity Field Models" within the Inter-Commission on Theory (ICCT) of the International Association of Geodesy (IAG)
 FROLKOVIČ, P.: European Cooperation in Science and Technology (COST) Action: Mathematics of Industry (Management Committee)
 JENČA, G.: International Quantum Structures Association (IQSA)
 KALINA, M.: International Quantum Structures Association (IQSA)
 KALINA, M.: European Society for Fuzzy Logic and Technology (EUSFLAT)
 KOMORNÍKOVÁ, M.: SEFI Mathematics Working Group
 MESIAR, R.: European Society for Fuzzy Logic and Technology (EUSFLAT)
 MIKULA, K.: European Research Council (ERC)
 MIKULA, K.: European Cooperation in Science and Technology (COST) Action: Mathematics of Industry (Management Committee)
 MIKULA, K. – Čunderlík, R.: Joint Study Group 0.7: Computational Methods for High-Resolution Gravity Field Modelling and Nonlinear Diffusion Filtering within the Inter-Commission on Theory (ICCT) of the International Association of Geodesy (IAG)
 MIKULA, K. – Frolkovič, P.: Mathematics for Industry Network <http://mi-network.org/>
 STUPŇANOVÁ, A.: European Society for Fuzzy Logic and Technology (EUSFLAT)
 ŠIRÁŇ, J.: London Mathematical Society
 ŠIRÁŇ, J.: American Mathematical Society
 ŽDÍMALOVÁ, M.: European Women in Mathematics
 ŽDÍMALOVÁ, M.: Indonesian Journal of Combinatorics (Editorial Board)

4. PUBLICATIONS

Books

HANDLOVIČOVÁ, A. – TIBENSKÝ, M.: Fundamentals of Functional Analysis and Variations of Calculus. [Electronic Source]. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016. CD-ROM, Series University Textbooks. Online. ISBN 978-80-227-4559-8, 155 pp. (in Slovak)

Parts of Books

KOLESÁROVÁ, A. – STUPŇANOVÁ, A.: Extensions of Capacities. In: On Logical, Algebraic, and Probabilistic Aspects of Fuzzy Set Theory. 1st. Ed. Switzerland: Springer, ISSN 1434-9922. ISBN 978-3-319-28807-9, 2016, pp. 181-198 (in English)

Textbooks

HAVRANOVÁ, Z.: Exercises: Worksheets I, Descriptive Geometry I. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, Textbook Edition. ISBN 978-80-227-4644-1, 133 pp. (in Slovak)

KNOR, M.: Introduction to Mathematical Logic. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016. Textbook Edition. ISBN 978-80-227-4656-4, 111 pp. (in Slovak)

KOLLÁR, J. – SZŐKEOVÁ, D.: Mathematical Problems of Entrance Examinations 2014-2015. 1st. Ed. Bratislava: Comenius University in Bratislava, 2016. ISBN 978-80-223-4094-6, 64 pp. (in Slovak)

KRIVÁ, Z. – MIKULA, K. – STAŠOVÁ, O.: Image Processing: Selected Topics of the Lectures. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016. Textbook Edition. ISBN 978-80-227-4535-2, 149 pp. (in Slovak)

Journals

ANDOVA, V. – KNOR, M. – ŠKREKOVSKI, R.: Distances on Nanotubical Structures. In: Journal of Mathematical Chemistry. Vol. 54, No. 8 (2016), pp. 1575-1584. ISSN 0259-9791 (in English)

CAYLI, G. D. – KARACAL, F. – MESIAR, R.: On a New Class of Uninorms on Bounded Lattices. In: Information Sciences. Vol. 367-368, (2016), pp. 221-231. ISSN 0020-0255 (in English)

CONDER, M. – ŠIRÁŇ, J.: Orientably Regular Maps with Given Exponent Group. In: Bulletin of the London Mathematical Society. Vol. 48, No. 6 (2016), pp. 1013-1017. ISSN 0024-6093 (in English)

CONDER, M. D. E. – HUCÍKOVÁ, V. [Bachratá, V.] – NEDELA, R. – ŠIRÁŇ, J.: Chiral Maps of Given Hyperbolic Type. In: Bulletin of the London Mathematical Society. Vol. 48, No. 1 (2016), pp. 38-52. ISSN 0024-6093 (in English)

DE MIGUEL, L. – BUSTINCE, H. – FERNANDEZ, J. – INDURÁIN, E. – KOLESÁROVÁ, A. – MESIAR, R.: Construction of Admissible Linear Orders for Interval-Valued Atanassov Intuitionistic Fuzzy Sets with an Application to Decision Making. In: Information Fusion. Vol. 27, (2016), pp. 189-197. ISSN 1566-2535 (in English)

DE MIGUEL, L. – BUSTINCE, H. – PEKALA, B. – BENTKOWSKA, U. – DA SILVA, I. – BEDREGAL, B. R. C. – MESIAR, R. – OCHOA, G.: Interval-Valued Atanassov Intuitionistic OWA Aggregations Using Admissible Linear Orders and Their Application to Decision Making. In: IEEE Transactions on Fuzzy Systems. Vol. 24, No. 6 (2016), pp. 1586-1597. ISSN 1063-6706 (in English)

DIBALA, M. – SAMINGER-PLATZ, S. – MESIAR, R. – KLEMENT, E. P.: Defects and Transformations of Quasi-Copulas. In: Kybernetika. Vol. 52, No. 6 (2016), pp. 848-865 (in English)

DIMURO, G. P. – BEDREGAL, B. R. C. – BUSTINCE, H. – ASIÁIN, M. J. – MESIAR, R.: On Additive Generators of Overlap Functions. In: Fuzzy Sets and Systems. Vol. 287, (2016), pp. 76-96. ISSN 0165-0114 (in English)

FAURE, E. – SAVY, T. – RIZZI, B. – MELANI, C. – STAŠOVÁ, O. – ŠPIR, R. – ČUNDERLÍK, R. – KOLLÁR, J. – REMEŠÍKOVÁ, M. – MIKULA, K.: A Workflow to Process 3D+Time Microscopy Images of Developing Organisms and Reconstruct Their Cell Lineage. In: Nature Communications [Electronic Source]. Vol. 7, (2016), Online, [10] p. ISSN 2041-1723 (in English)

GRECO, S. – MESIAR, R. – RINDONE, F. – ŠIPEKY, L.: Decomposition Approaches to Integration Without a Measure. In: Fuzzy Sets and Systems. Vol. 287, (2016), pp. 37-47. ISSN 0165-0114 (in English)

GRECO, S. – MESIAR, R. – RINDONE, F. – ŠIPEKY, L.: Superadditive and Subadditive Transformations of Integrals and Aggregation Functions. In: Fuzzy Sets and Systems. Vol. 291, (2016), pp. 40-53. ISSN 0165-0114 (in English)

GRECO, S. – MESIAR, R. – RINDONE, F.: Generalized Bipolar Product and Sum. In: Fuzzy Optimization and Decision Making. Vol. 15, No. 1 (2016), pp. 21-31. ISSN 1568-4539 (in English)

HALAŠ, R. – MESIAR, R. – PÓCS, J.: A New Characterization of the Discrete Sugeno Integral. In: Information Fusion. Vol. 29, (2016), pp. 84-86. ISSN 1566-2535 (in English)

HALAŠ, R. – MESIAR, R. – PÓCS, J.: Congruences and the Discrete Sugeno Integrals on Bounded Distributive Lattices. In: Information Sciences. Vol. 367-368, (2016), pp. 443-448. ISSN 0020-0255 (in English)

HALAŠ, R. – MESIAR, R. – PÓCS, J.: Generators of Aggregation Functions and Fuzzy Connectives. In: IEEE Transactions on Fuzzy Systems. Vol. 24, No. 6 (2016), pp. 1690-1694. ISSN 1063-6706 (in English)

HALIČKOVÁ, J. – MIKULA, K.: Level Set Method for Surface Reconstruction and Its Application in Surveying. In: Journal of Surveying Engineering – ASCE. Vol. 142, No. 3 (2016), [14] p. ISSN 0733-9453 (in English)

INCE, M. A. – KARACAL, F. – MESIAR, R.: Medians and Nullnorms on Bounded Lattices. In: Fuzzy Sets and Systems. Vol. 289, (2016), pp. 74-81. ISSN 0165-0114 (in English)

JENČA, G.: A Note on Unitizations of Generalized Effect Algebras. In: Soft Computing. Vol. 20, No. 1 (2016), pp. 115-118. ISSN 1432-7643. (in English)

KALINA, M.: On Uninorms and Nullnorms on Direct Product of Bounded Lattices. In: Open Physics [Electronic Source]. Vol. 14, No. 1 (2016), Online, pp. 321-327. ISSN 2391-5471 (in English)

KNOR, M. – ŠKREKOVSKI, R. – TEPEH, A.: Some Remarks on Wiener Index of Oriented Graphs. In: Applied Mathematics and Computation. Vol. 273, (2016), pp. 631-636. ISSN 0096-3003 (in English)

KNOR, M. – ŠKREKOVSKI, R. – TEPEH, A.: Mathematical Aspects of Wiener Index. In: Ars Mathematica Contemporanea. Vol. 11, No. 2 (2016), pp. 327-352. ISSN 1855-3966 (in English)

KNOR, M. – ŠKREKOVSKI, R. – TEPEH, A.: Digraphs with Large Maximum Wiener Index. In: Applied Mathematics and Computation. Vol. 284, (2016), pp. 260-267. ISSN 0096-3003 (in English)

KNOR, M. – KRANJC, J. – ŠKREKOVSKI, R. – TEPEH, A.: A Search for the Minimum Value of Balaban Index. In: Applied Mathematics and Computation. Vol. 286, (2016), pp. 301-310. ISSN 0096-3003 (in English)

- KNOR, M. – ŠKREKOVSKI, R. – TEPEH, A.: Orientations of Graphs with Maximum Wiener Index. In: *Discrete Applied Mathematics*. Vol. 211, (2016), pp. 121-129. ISSN 0166-218X (in English)
- KOUCHAKINEJAD, F. – MASHINCHI, M. – MESIAR, R.: On Algebraic Structure of L-Fuzzy Bags. In: *International Journal of Intelligent Systems*. Vol. 31, No. 11 (2016), pp. 1035-1055. ISSN 0884-8173 (print) (in English)
- LUCCA, G. – SANZ, J. A. – DIMURO, G. P. – BEDREGAL, B. R. C. – MESIAR, R. – KOLESÁROVÁ, A. – BUSTINCE, H.: Preaggregation Functions: Construction and an Application. In: *IEEE Transactions on Fuzzy Systems*. Vol. 24, No. 2 (2016), pp. 260-272. ISSN 1063-6706 (in English)
- MESIAR, R. – KOLESÁROVÁ, A. – BUSTINCE, H. – DIMURO, G. P. – BEDREGAL, B. R. C.: Fusion Functions Based Discrete Choquet-like Integrals. In: *European Journal of Operational Research*. Vol. 252, No. 2 (2016), pp. 601-609. ISSN 0377-2217 (in English)
- MESIAR, R. – GAGOLEWSKI, M.: H-Index and Other Sugeno Integrals: Some Defects and Their Compensation. In: *IEEE Transactions on Fuzzy Systems*. Vol. 24, No. 6 (2016), pp. 1668-1672. ISSN 1063-6706 (in English)
- MINÁROVÁ, M. – SUMEC, J.: Stress – Strain Response of the Human Spine Intervertebral Disc As an Anisotropic Body. *Mathematical Modeling and Computation*. In: *Open Physics [Electronic Source]*. Vol. 14, No. 1 (2016), Online, pp. 426-435. ISSN 2391-5471 (in English)
- NGUYEN, C. – BHATTI, I. M. – KOMORNÍKOVÁ, M. – KOMORNÍK, J.: Gold Price and Stock Markets Nexus Under Mixed-Copulas. In: *Economic Modelling*. Vol. 58, (2016), pp. 283-292. ISSN 0264-9993 (in English)
- PÁRTL, O. – BENEŠ, M. – FROLKOVIČ, P. – ILLANGASEKARE, T. – SMITS, K.: Numerical Modeling of Non-Isothermal Gas Flow and NAPL Vapor Transport in Soil. In: *Computer Physics Communications*. Vol. 202, (2016), pp. 175-187. ISSN 0010-4655 (in English)
- PATERNAIN, D. – OCHOA, G. – LIZASOAIN, I. – BUSTINCE, H. – MESIAR, R.: Quantitative Orness for Lattice OWA Operators. In: *Information Fusion*. Vol. 30, (2016), pp. 27-35. ISSN 1566-2535 (in English)
- PATERNAIN, D. – BUSTINCE, H. – PAGOLA, M. – SUSSNER, P. – KOLESÁROVÁ, A. – MESIAR, R.: Capacities and Overlap Indexes with an Application in Fuzzy Rule-Based Classification Systems. In: *Fuzzy Sets and Systems*. Vol. 305, (2016), pp. 70-94. ISSN 0165-0114 (in English)
- SÁNCHEZ, L. – ČUNDERLÍK, R. – DAYOUB, N. – MIKULA, K. – MINARECHOVÁ, Z. – ŠÍMA, Z. – VATRT, V. – VOJTÍŠKOVÁ, M.: A Conventional Value for the Geoid Reference Potential W_0 . In: *Journal of Geodesy*. Vol. 90, No. 9 (2016), pp. 815-835. ISSN 0949-7714 (in English)
- SMREK, P.: Sugeno Integrals with Respect to Level Dependent Capacities. In: *Fuzzy Sets and Systems*. Vol. 291, (2016), pp. 33-39. ISSN 0165-0114 (in English)
- ŠIPOŠOVÁ, A.: A Note on the Superadditive and the Subadditive Transformations of Aggregation Functions. In: *Fuzzy Sets and Systems*. Vol. 299, (2016), pp. 98-104. ISSN 0165-0114 (in English)
- PAPAIOANNOU, G. J. – KOHNOVÁ, S. – BACIGÁL, T. – SZOLGAY, J. – HLAVČOVÁ, K. – LOUKAS, A.: Joint Modelling of Flood Peaks and Volumes: A Copula Application for the Danube River. In: *Journal of Hydrology and Hydromechanics*. Vol. 64, No. 4 (2016), pp. 382-392. ISSN 0042-790X (in English)
- SZOLGAY, J. – GAÁL, L. – BACIGÁL, T. – KOHNOVÁ, S. – HLAVČOVÁ, K. – VÝLETA, R. – PARAJKA, J. – BLÖSCHL, G.: A Regional Comparative Analysis of Empirical and Theoretical Flood Peak-Volume Relationships. In: *Journal of Hydrology and Hydromechanics*. Vol. 64, No. 4 (2016), pp. 367-381. ISSN 0042-790X (in English)
- AGAH, H. – MESIAR, R. – MOTIEE, M.: On Hoeffding and Bernstein Type Inequalities for Sums of Random Variables in Non-Additive Measure Spaces and Complete Convergence. In: *Journal of the Korean Statistical Society*. Vol. 45, No. 3 (2016), pp. 439-450. ISSN 1226-3192 (in English)
- ARAUJO-PARDO, G. – BALBUENA, C. – MILLER, M. – ŽDÍMALOVÁ, M.: A Construction of Dense Mixed Graphs of Diameter 2. In: *Electronic Notes in Discrete Mathematics*. Vol. 54, (2016), pp. 235-240. ISSN 1571-0653 (in English)
- BACIGÁL, T. – KOMORNÍK, J. – KOMORNÍKOVÁ, M. – NGUYEN, C.: Dynamics of Parallel Development of the Bond Market Indices in the US Market and Its Multidimensional Copula Models. In: *Global and Stochastic Analysis*. Vol. 3, No. 2 (2016), pp. 47-59. ISSN 2248-9444 (in English)
- ČUNDERLÍK, R. – KOLLÁR, M. – MIKULA, K.: Filters for Geodesy Data Based on Linear and Nonlinear Diffusion. In: *GEM – International Journal on Geomathematics*. Vol. 7, No. 2 (2016), pp. 239-274. ISSN 1869-2672 (in English)
- FROLKOVIČ, P. – LOGASHENKO, D. – WEHNER, Ch.: Flux-Based Level-Set Method for Two-Phase Flows on Unstructured Grids. In: *Computing and Visualization in Science*. Vol. 18, No. 1 (2016), pp. 31-52. ISSN 1432-9360 (in English)
- FROLKOVIČ, P. – LAMPE, M. – WITTUM, G.: Numerical Simulation of Contaminant Transport in Groundwater Using Software Tools of r3t. In: *Computing and Visualization in Science*. Vol. 18, No. 1 (2016), pp. 17-29. ISSN 1432-9360 (in English)
- GRANNELL, M. – KNOR, M.: Pasch Trades on the Projective Triple System of Order 31. In: *Journal of Combinatorial Mathematics and Combinatorial Computing*. Vol. 96, (2016), pp. 23-31. ISSN 0835-3026 (in English)
- KNOR, M. – VERDIAN-RIZI, M.: Hyperbolic Analogues of Fullerenes with Face-Types (6, 9) and (6, 10). In: *Discrete Mathematics*. Vol. 339, No. 1 (2016), pp. 103-108. ISSN 0012-365X (in English)
- KNOR, M. – SÝS, J.: Dominance in a Cayley Digraph and in Its Reverse. In: *Australasian Journal of Combinatorics [Electronic Source]*. Vol. 65, (2016), Online, pp. 212-219. ISSN 2202-3518 (in English)
- KOLLÁR, J.: Soviet VIC Cipher: No Respector of Kerckhoff's Principles. In: *Cryptologia*. Vol. 40, No. 1 (2016), pp. 33-48. ISSN 0161-1194 (in English)

KOUCHAKINEJAD, F.– MASHINCHI, M.– MESIAR, R.: Solution-Set Invariant Matrices and Vectors in Fuzzy Relation Inequalities Based on Max-Aggregation Function Composition. In: Iranian Journal of Fuzzy Systems. Vol. 13, No. 7 (2016), pp. 91-100. ISSN 1735-0654. (in English)

KRIVÁ, Z.– HANDLOVIČOVÁ, A.– MIKULA, K.: Adaptive Cell-Centered Finite Volume Method for Diffusion Equations on a Consistent Quadtree Grid. In: Advances in Computational Mathematics. Vol. 42, No. 2 (2016), pp. 249-277. ISSN 1019-7168 (in English)

LÓPEZ, N.– PÉREZ-ROSÉS, H.– PUJOLÁS, J.– ŽDÍMALOVÁ, M.: A Variant of the McKay-Miller-Širáň Construction for Mixed Graphs. In: Electronic Notes in Discrete Mathematics. Vol. 54, (2016), pp. 151-156. ISSN 1571-0653 (in English)

GAÁL, L.– SZOLGAY, J. – BACIGÁL, T. – KOHNOVÁ, S. – HLAVČOVÁ, K.– VÝLETA, R. – PARAJKA, J. – BLÖSCHL, G.: Similarity of Empirical Copulas of Flood Peak-Volume Relationships: A Regional Case Study of North-West Austria. In: Contributions to Geophysics and Geodesy. Vol. 46, No. 3 (2016), pp. 155-178. ISSN 1335-2806 (in English)

KOHNNOVÁ, S. – GAÁL, L. – BACIGÁL, T. – SZOLGAY, J. – HLAVČOVÁ, K.– VALENT, P. – PARAJKA, J. – BLÖSCHL, G.: Process-Based Selection of Copula Types for Flood Peak-Volume Relationships in Northwest Austria: A Case Study. In: Contributions to Geophysics and Geodesy. Vol. 46, No. 4 (2016), pp. 245-268. ISSN 1335-2806 (in English)

AGAHI, H. – MESIAR, R.: Stolarsky's Inequality for Choquet-Like Expectation. In: Mathematica Slovaca. Vol. 66, No. 5 (2016), pp. 1235-1248. ISSN 0139-9918 (in English)

HORANSKÁ, L. – ŠIPOŠOVÁ, A.: Integration Based on Fusion Functions. In: Tatra Mountains Mathematical Publications. Vol. 66, (2016), pp. 51-66. ISSN 1210-3195 (in English)

BOHDALOVÁ, M. – KALINA, M. – NÁNÁSIOVÁ, O.: Granger Causality from a Different Viewpoint. In: Czech Statistical Society Newsletter (Informační bulletin České statistické společnosti). Vol. 27, No. 2 (2016), pp. 23-28. ISSN 1210-8022 (in English)

JURIGOVÁ, M. – MINÁROVÁ, M. – CHMÚRNÝ, I.: Analysis of Thermal Performance of Energy Storage System. In: Applied Mechanics and Materials : Energy Saving and Environmentally Friendly Technologies – Concepts of Sustainable Building. Vol. 824, (2016), pp. 371-378. ISSN 1660-9336 (in English)

JURIGOVÁ, M. – MINÁROVÁ, M. – CHMÚRNÝ, I.: Thermal Performance of Energy Storage Vessel. In: Roczniki inżynierii budowlanej. Zesz. 15, (2015), pp. 11-16. ISSN 1505-8425 (in English)

KOMORŇÍK, J. – KOMORŇÍKOVÁ, M. – KALICKÁ, J. – NGUYEN, C.: Tail Dependence of Perturbed Copulas. In: Journal of Statistical Theory and Applications. Vol. 15, No. 2 (2016), pp. 153-160. ISSN 1538-7887 (in English)

MACÁK, M. – ČUNDERLÍK, R. – MIKULA, K. – MINARECHOVÁ, Z.: An Upwind-Based Scheme for Solving the Oblique Derivative Boundary-Value Problem

Related to Physical Geodesy. In: Journal of Geodetic Science [Electronic Source]. Vol. 5, No. 1 (2015), Online, pp. 180-188. ISSN 2081-9943 (in English)

MINÁROVÁ, M. – SUMEC, J.: Chain and Branched Chain Structures of Rheological Models – Mathematical Modeling and Applications. In: Interdisciplinarity in Theory and Practice [Electronic Source]. No. 11 (2016), Online, pp. 200-205. ISSN 2344-2409 (in English)

ČUNDERLÍK, R. – MIKULA, K.: Is It a Sea Meter Above Sea Level? (Je more meter nad morom?) In: Quark. Vol. 22, No. 5 (2016), pp. 7-11. ISSN 1335-4000 (in Slovak)

VAJSÁBLOVÁ, M.: Geometric Characteristics of Objects for Applications in Geography, Cartography and Civil Engineering. In: G – Slovenský časopis pre geometriu a grafiku. Vol. 13, No. 26 (2016), pp. 43-56. ISSN 1336-524X (in Slovak)

JENČA, G. – KUPKA, J. – MESIAR, R.: Editorial of FSTA 2014. In: Fuzzy Sets and Systems. Vol. 291, (2016), pp. 1-2. ISSN 0165-0114 (in English)

ŠIRÁŇ, J. – ŠKOVIERA, M.: GEMS 2013. Editorial. In: Ars Mathematica Contemporanea. Vol. 10, No. 2 (2016), p. 15. ISSN 1855-3966 (in English)

Conference Proceedings

BACHRATÝ, M. – JAJCAY, R.: Powers of Skew-Morphisms. In: Symmetries in Graphs, Maps, and Polytopes: 5th SIGMAP Workshop, West Malvern, UK, July 2014. 1st. Ed. Switzerland: Springer, 2016, ISSN 2194-1009. ISBN 978-3-319-30449-6.- pp. 1-25 (in English)

ČUNDERLÍK, R.: Determination of W_0 from the GOCE Measurements Using the Method of Fundamental Solutions. In: 8th Hotine-Marussi Symposium on Mathematical Geodesy: Proceedings of Symposium in Rome, 17-21 June, 2013. 1st. Ed.: Springer, 2016, ISSN 0939-9585. ISBN 978-3-319-24548-5.- pp. 91-100 (in English)

FROLKOVIČ, P.: Semi-implicit Methods Based on Inflow Implicit and Outflow Explicit Time Discretization of Advection. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of Contributed Papers and Posters. Podbanské, SR, 13. – 18. 3. 2016. 1st. Ed. Bratislava, Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 165-174 (in English)

PÁRTL, O. – BENEŠ, M. – FROLKOVIČ, P. Numerical Simulation of NAPL Vapor Transport in Air. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of contributed papers and posters. Podbanské, SR, 13. – 18. 3. 2016. 1st. Ed. Bratislava: Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 214-223 (in English)

HANDLOVIČOVÁ, A.: Discrete Duality Finite Volume Scheme for Solving Heston Model. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of Contributed Papers and Posters. Podbanské, SR, 13. – 18. 3. 2016. 1st. Ed. Bratislava: Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 264-274 (in English)

- MACÁK, M. – MIKULA, K. – MINARECHOVÁ, Z. – ČUNDERLÍK, R.: On an Iterative Approach to Solving the Nonlinear Satellite-Fixed Geodetic Boundary-Value Problem. In: 8th Hotine-Marussi Symposium on Mathematical Geodesy : Proceedings of Symposium in Rome, 17-21 June, 2013. 1st. Ed.: Springer, 2016, ISSN 0939-9585. ISBN 978-3-319-24548-5.- pp. 185-192 (in English)
- KALINA, M. – KRÁL, P. Uninorms on Interval-Valued Fuzzy Sets. In: Information Processing and Management of Uncertainty in Knowledge-Based Systems: 16th International Conference, IPMU 2016, Eindhoven, The Netherlands, June 20-24, 2016, Proceedings, Part II. [s.l.] : Springer, 2016, ISSN 1865-0929. ISBN 978-3-319-40580-3.- pp. 522-531 (in English)
- KOLLÁR, M. – MIKULA, K. – ČUNDERLÍK, R.: Nonlinear Diffusion Filtering Influenced by Mean Curvature. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of Contributed Papers and Posters. Podbanské, SR, 13.-18. 3. 2016. 1st. Ed. Bratislava: Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 183-193 (in English)
- KOLEŠÁROVÁ, A. – LI, J. – MESIAR, R.: On k-Additive Aggregation Functions. In: Modeling Decisions for Artificial Intelligence. Proceedings of the 13th International Conference, MDAI 2016. Sant Julià de Lòria, Andorra, 19.-21. 9. 2016. 1st Ed. [s.l.] : Springer, 2016, ISSN 0302-9743. ISBN 978-3-319-45655-3. – pp. 47-55 (in English)
- LEHOCKI, F.- BACIGÁL, T.: Telemedicine and mHealth System for Complex Management in T1DM and T2DM Patients: Results of 6 Months Study. In: IFMBE Proceedings. Vol. 57: 14th Mediterranean Conference on Medical and Biological Engineering and Computing 2016. MEDICON 2016, March 31st – April 2nd 2016, Paphos, Cyprus. 1st. Ed. [s.l.] : Springer, 2016, ISSN 1680-0737. ISBN 978-3-319-32701-3.- pp. 1131-1136 (in English)
- MEDĽA, M. – MIKULA, K.: New Second Order Up-Wind Scheme for Oblique Derivative Boundary Value Problem. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of Contributed Papers and Posters. Podbanské, SR, 13.-18. 3. 2016. 1st. Ed. Bratislava : Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 254-263 (in English)
- MIKULA, K. – URBÁN, J.: Fully Automatic Affine Registration of Planar Parametric Curves. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of Contributed Papers and Posters. Podbanské, SR, 13.-18. 3. 2016. 1st. Ed. Bratislava: Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 343-352 (in English)
- TJEŠŠOVÁ, M. – MINÁROVÁ, M.: Precising of the Vertebral Body Geometry by Using Bézier Curves. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of Contributed Papers and Posters. Podbanské, SR, 13.-18. 3. 2016. 1st. Ed. Bratislava: Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 55-61 (in English)
- TOMEK, L. – MIKULA, K. – REMEŠÍKOVÁ, M.: Discrete Duality Finite Volume Method for Mean Curvature Flow of Surfaces. In: ALGORITMY 2016: 20th Conference on Scientific Computing. Proceedings of contributed papers and posters. Podbanské, SR, 13.-18. 3. 2016. 1st. Ed. Bratislava: Slovak University of Technology, Faculty of Civil Engineering, 2016, ISBN 978-80-227-4544-4.- pp. 33-43 (in English)
- MESIAR, R. – ŠIPEKY, L. – ŠIPOŠOVÁ, A.: Aggregation of Choquet Integrals. In: Information Processing and Management of Uncertainty in Knowledge-Based Systems: 16th International Conference, IPMU 2016. Eindhoven, The Netherlands, June 20-24, 2016, Proceedings, Part I. [s.l.] : Springer, 2016, ISSN 1865-0929. ISBN 978-3-319-40595-7.- p. 58-64. (in English)
- MESIAR, R. – STUPŇANOVÁ, A.: Decomposition Integral Based Generalizations of OWA Operators. In: Information Processing and Management of Uncertainty in Knowledge-Based Systems: 16th International Conference, IPMU 2016. Eindhoven, The Netherlands, June 20-24, 2016, Proceedings, Part I. [s.l.] : Springer, 2016, ISSN 1865-0929. ISBN 978-3-319-40595-7.- p. 3-10. (in English)
- PATERNAIN, D. – OCHOA, G. – LIZASOAIN, I. – BARRENECHEA, E. – BUSTINCE, H. – MESIAR, R.: On the Use of Lattice OWA Operators in Image Reduction and the Importance of the Orness Measure. In: Information Processing and Management of Uncertainty in Knowledge-Based Systems: 16th International Conference, IPMU 2016. Eindhoven, The Netherlands, June 20-24, 2016, Proceedings, Part I. [s.l.] : Springer, 2016, ISSN 1865-0929. ISBN 978-3-319-40595-7.- pp. 624-634 (in English)
- PÁRTL, O. – BENEŠ, M. – FROLKOVIČ, P.: Finite Volume Scheme for Modeling of NAPL Vapor Transport in Air. In: Numerical Mathematics and Advanced Applications ENUMATH 2015: Proceedings of the European Conference on Numerical Mathematics and Advanced Applications. 14-18 Sept., 2015, Ankara, Turkey. 1st. Ed. [s.l.] : Springer, 2016, ISSN 1439-7358. ISBN 978-3-319-39927-0.- pp. 531-538 (in English)
- ŠIRÁŇ, J. – JAJCAY, R. Preface. In: Symmetries in Graphs, Maps, and Polytopes: 5th SIGMAP Workshop, West Malvern, UK, July 2014. 1st. Ed. Switzerland: Springer, 2016, ISSN 2194-1009. ISBN 978-3-319-30449-6.- pp. 5-6 (in English)
- MESIAR, R.: Non-Standard Measure Requires Non-Standard Approaches to the Integral. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- pp. 13-16 (in English)
- BACIGÁL, T.: Convergence of Linear Approximation of Archimedean Generator from Williamson's Transform in Examples. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow : Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- pp. 47-52 (in English)
- DIMURO, G. P. – BEDREGAL, B. R. C. – BUSTINCE, H. – FERNANDEZ, J. – LUCCA, G. – MESIAR, R.: New Results on Pre-aggregation Functions. In: Uncertainty Modeling in Knowledge Engineering and Decision Making: Proceedings of the 12th International FLINS Conference. Roubaix, France, 24-26 Aug. 2016. 1st. Ed. Singapore: World Scientific Publishing, 2016, ISBN 978-981-3146-96-9.- pp. 213-219 (in English)

- FRANEK, M. – KONEČNÁ, L. – MACÁK, M.: Experimental and Numerical Evaluation of the External Pressure Coefficients on the Elliptic Cylinder. In: Proceedings of 24th SVSFEM ANSYS Users' Group Meeting and Conference 2016 [Electronic Source]: Dolní Morava, Czech Republic, 1.- 3. 6. 2016. 1st. Ed. Brno : SVS FEM, 2016, online, ISBN 978-80-905525-3-1.- pp. 53-62 (in English)
- FRANEK, M. – MACÁK, M. – ŽILINSKÝ, J.: CFD Evaluation of Boundary Layer and Wind Loads on Elliptic Cylinder. In: ATF 2016 [Electronic Source]: Book of Proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1st. Ed. Leuven: The Katholieke Universiteit Leuven, 2016, USB Key, ISBN 9789086497966.- pp. 112-117 (in English)
- HANDLOVIČOVÁ, A. – RIEČANOVÁ, I.: Finite Volume Method Solution to the Complex 2D Helmholtz Equation with Impedance Boundary Conditions. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7. – pp. 81-87 (in English)
- KALINA, M.: On Associative Commutative and Monotone Operations on Some Bounded Lattices. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- pp. 207-209 (in English)
- KOMORNÍK, J. – KOMORNÍKOVÁ, M.: Predictive and Descriptive Qualities of Different Classes of Models for Parallel Economic Development of Selected EU-Countries. In: Time Series Analysis and Forecasting: Selected Contributions from the ITISE Conference. Granada, Spain, July 1-3, 2015. 1st. Ed. [s.l.]: Springer, 2016, ISBN 978-3-319-28723-2.- pp. 161-173 (in English)
- KOMORNÍK, J. – KOMORNÍKOVÁ, M. – KALICKÁ, J. – NGUYEN, C.: Tail Dependence of Enriched Class of Perturbed Copulas with Modelling Applications. In: Stochastic Modeling Data Analysis and Statistical Applications: 3rd Stochastic Modeling Techniques and Data Analysis (SMTDA) International Conference. Lisbon, Portugal, June 11-14, 2014. 1st. Ed. [s. l.]: ISAST, 2015, ISBN 978-618-5180-08-9.- pp. 53-63 (in English)
- KRIVÁ, Z.: Evaluation of Gradient Norms on a Consistent Quadtree Grid. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- pp. 68-75 (in English)
- MESJAR, R. – KOLESÁROVÁ, A.: On Some Construction Methods for Bivariate Copulas. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7. – pp. 210-212 (in English)
- MINÁROVÁ, M.: Heat Radiation in Enclosure – the Dominant Heat Transfer in an Insulating Vacuum-Like Layer. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- p. 95-100. (in English)
- STUPŇANOVÁ, A.: Summations of Fuzzy Numbers Based on Probabilistic Approach. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- pp. 273-277 (in English)
- SZOLGAY, J. – GAÁL, L. – BACIGÁL, T. – KOHNOVÁ, S. – HLAVČOVÁ, K. – VÝLETA, R. – BLÖSCHL, G.: A Regional Look at the Selection of a Process-Oriented Model for Flood Peak/Volume Relationships. In: Proceedings of the International Association of Hydrological Sciences [Electronic Source]: The Spatial Dimensions of Water Management – Redistribution of Benefits and Risks. Vol. 373, 2016, Online, ISSN 2199-8981.- pp. 61-67 (in English)
- ŠIPEKY, L. – ŠIPOŠOVÁ, A.: Constraint Super- and Sub-Additive Transformations. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- pp. 41-43 (in English)
- ŠIPOŠOVÁ, A. – ŠIPEKY, L.: On Aggregation Functions with Given Superadditive and Subadditive Transformation. In: Proceedings of the Congress of Information Technology, Computational and Experimental Physics (CITCEP 2015) 18-20 Dec. 2015, Cracow, Poland [Electronic Source]. 1st. Ed. Cracow: Wydawnictwa AGH, 2015, CD-ROM, ISBN 978-83-7464-838-7.- pp. 199-202 (in English)
- VAJSÁBLOVÁ, M. – KLIMEKOVÁ, Z.: Quantification Shaped Area with the Use in Cartography. In: Proceedings of the Czech-Slovak Conference on Geometry and Graphics 2016 [Electronic Source]: 36th Conference Geometry and Graphics. 12.-15. 9. 2016, Rožnov pod Radhoštěm. 1st. Ed. Ostrava: University of Ostrava, 2016, CD ROM, ISBN 978-80-7464-873-1.- pp. 185-191 (in Slovak)
- KOMORNÍK, J. – KOMORNÍKOVÁ, M. – BACIGÁL, T. – NGUYEN, C.: Modeling of Parallel Development of Bond Market Indices. In: SMTDA 2016 – Stochastic Modeling Techniques and Data Analysis [Electronic Source]: Proceedings of 4th International Conference with Demographics Workshop. 1-4 June 2016, Valletta, Malta. [s.l.] : ISAST, 2016, Online, pp. 193-204 (in English)
- KOUCHAKINEJAD, F. – MASHINCHI, M. – MESJAR, R.: Fuzzy Bag Expected Values. In: 13th Iranian Statistics Conference: Proceedings. Kerman, Iran, 23-25 Aug. 2016. Tehran: Iranian Statistical Society, 2016, pp. 309-315 (in English)
- AMBROZ, M. – MIKULA, K.: Surface Curve as a Fire Border. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. October 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8.- pp. 13-19 (in English)
- BACIGÁL, T. – ŽDÍMALOVÁ, M.: Examples of Archimedean Generators from the Williamson Transform and Why to Use a Linear Approximation. In: Uncertainty Modelling 2015. 1st. Ed. Bratislava: JSMF, 2016, ISBN 978-80-89829-03-3.- pp. 7-15 (in English)

BACHRATÝ, M.: Asymptotically Approaching the Moore Bound for Diameters Two and Three. In: Mathematics in Science and Technologies 2016: Proceedings of the MIST conference 2016, January 2-7 2016, Fačkovské sedlo, Kľak, Slovakia. Žilina : CreateSpace Independent Publishing Platform, 2016, [7] s. ISBN 978-1533605665. (In English)

BACHRATÝ, M.: Cayley Graphs and Degree-Diameter Problem for Diameter 3. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. October 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8. - pp. 20-24 (in English)

DIBALA, M. – VAVRÍKOVÁ, L.: Determining the Spearman's Rho for Conic Copulas. In: MAGIA 2015: Mathematics, Geometry and Their Applications. Proceedings. Kočovce, SR, 9. – 11. 10. 2015. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4611-3. - pp. 7-14 (in English)

DIBALA, M.: Defects of Quasi-Copulas. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. October 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8. (in English)

HANDLOVIČOVÁ, A. – RIEČANOVÁ, I. – ROOZEN, N. B.: Rigid Piston Simulations of Acoustic Space Based on Finite Volume Method. In: Aplimat 2016 [Electronic Source]: Proceedings of the 15th Conference on Applied Mathematics 2016. Bratislava, 2.-4. 2. 2016. 1st. Ed. Bratislava: STU Publishing, 2016, CD ROM. ISBN 978-80-227-4531-4. - pp. 433-439 (in English)

HAVRANOVÁ, Z. History and Summary of Diameters. In: MAGIA 2015: Mathematics, Geometry and Their Applications. Proceedings. Kočovce, SR, 9. – 11. 10. 2015. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4611-3. - pp. 51-56 (in Slovak)

HORANSKÁ, L. – ŠIPOŠOVÁ, A.: Generalization of the Discrete Choquet Integral. In: Uncertainty Modelling 2015. 1st. Ed. Bratislava: JSMF, 2016, ISBN 978-80-89829-03-3. - pp. 49-54 (in English)

HUBOVÁ, O. – MACÁK, M. – KONEČNÁ, L. – CIGLAN, G.: High-Rise Building with the Atypical Cross-Section: External Wind Pressure Coefficients Determined by CFD and BLWT. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering [Electronic Source]: 3rd International Conference. Proceedings. High Tatras, Štrbské Pleso, Slovakia, Nov. 9 – 11, 2016. 1st. Ed. Košice: Technical University of Košice, 2016, CD-ROM, [2] p. ISBN 978-80-553-2643-6 (in English)

HUCÍKOVÁ, V. [Bachratá, V.]: Regular Maps of Any Hyperbolic Type without Non-Trivial Exponents. In: Mathematics in Science and Technologies 2016: Proceedings of the MIST Conference 2016, Jan. 2-7 2016, Fačkovské sedlo,

Kľak, Slovakia. Žilina: CreateSpace Independent Publishing Platform, 2016, [10] p. ISBN 978-1533605665 (in English)

HUCÍKOVÁ, V. [Bachratá, V.]: Regular Triangulations without Non-Trivial Exponents. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. October 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8. - pp. 31-37 (in English)

KALICKÁ, J.: Missing Categorical Data in Statistical Analysis. In: MAGIA 2015: Mathematics, Geometry and Their Applications. Proceedings. Kočovce, SR, 9.-11. 10. 2015. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016,. ISBN 978-80-227-4611-3. - pp. 31-36 (in Slovak)

KALICKÁ, J. – KRIVÁ, Z.: Coefficient of Variations for Diffusion Equations. In: MAGIA 2015: Mathematics, Geometry and their Applications. Proceedings. Kočovce, SR, 9.-11. 10. 2015. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016. ISBN 978-80-227-4611-3. - pp. 37-43 (in Slovak)

KALINA, M.: On a Preorder Relation Induced by Uninorms. In: Uncertainty Modelling 2015. 1st. Ed. Bratislava: JSMF, 2016, ISBN 978-80-89829-03-3. - pp. 55-60 (in English)

KLEINOVÁ, V.: Backward Tracking Method in Optical Flow. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8. - pp. 38-43 (in English)

KOLLÁR, M. – MIKULA, K. – ČUNDERLÍK, R.: Nonlinear Filtering of the Satellite-Only Mean Dynamic Topography. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8. - pp. 44-51 (in English)

KOUCHAKINEJAD, F. – MASHINCHI, M. – MESIAR, R.: Fuzzy Bags. In: Uncertainty Modelling 2015. 1st. Ed. Bratislava: JSMF, 2016, ISBN 978-80-89829-03-3. - pp. 61-66 (in English)

KOUCHAKINEJAD, F. – ŠIPOŠOVÁ, A.: A Note on the Super-additive and Sub-additive Transformations of Aggregation Functions: The One-dimensional Case. In: MAGIA 2015: Mathematics, Geometry and Their Applications. Proceedings. Kočovce, SR, 9.-11. 10. 2015. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4611-3. - pp. 15-19 (in English)

MACÁK, M. – FRANEK, M. – KONEČNÁ, L.: Experimental Measurements and CFD Simulation over Elliptic Object. In: MAGIA 2015: Mathematics, Geometry and Their Applications. Proceedings. Kočovce, SR, 9. – 11. 10. 2015. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, ISBN 978-80-227-4611-3.- pp. 44-50 (in English)

MEDLA, M. – MIKULA, K.: Creating a Logical Quadrilateral Network of Point Clouds. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8.- pp. 52-57 (in Slovak)

ŠAGÁT, M. – REMEŠÍKOVÁ, M.: Approximation of Geodesics on Triangulated Surfaces Based on Lagrangian Curve Evolution. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8.- pp. 58-65 (in English)

TIBENSKÝ, M. – HANDLOVIČOVÁ, A.: Stability Estimates for the Solution of a Regularized Level Set Equation of Geodesic Curvature. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8.- pp. 66-71 (in Slovak)

TJEŠŠOVÁ, M.: Finite-Element Modeling of a Movement Segment of the Human Spine. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8.- pp. 72-78 (in Slovak)

TOMEK, L. – MIKULA, K.: New Numerical Method for Mesh Improvement of Evolving Triangulated Surfaces. In: Advances in Architectural, Civil and Environmental Engineering [Electronic Source]: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1st. Ed. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8.- pp. 79-85 (in English)

ŽDÍMALOVÁ, M.: Mathematics in Architecture, Design and Structure Engineering. In Aplimat 2016 [Electronic Source]: Proceedings of the 15th Conference on Applied Mathematics 2016. Bratislava, 2.-4. 2. 2016. 1st. Ed. Bratislava: STU Publishing, 2016, CD ROM, ISBN 978-80-227-4531-4.- pp. 1154-1163 (in English)

ŽDÍMALOVÁ, M. – ROŽŇOVJAK R. – EL FALOUGY, H. – WEISMANN, P.: Using a Graph Algorithm in Image Processing Focused on Biological Data. In: Anatomy in Mirror of History: 10th Ladziansky Proceedings. 1st. Ed. Bratislava: PROPRINT, 2016, ISBN 978-80-89747-07-8.- pp. 31-37 (in Slovak)

DEPARTMENT OF PHYSICS

Head of Department

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Physics I

Physics II

Physics (English)

Engineering Thermodynamics

1.2 Postgraduate courses

Physical Principles of Measurements

Special Aspects of Physics

Heat and Moisture Transport in Building Materials

2. THESES

2.2 Graduate theses

MÉSZÁROSOVÁ, T.: Thermal Properties of Cement Samples with Communal Waste on the Basis of Plastic.

Supervisor: ŠÍŇ, P.

3. RESEARCH

3.1 Research projects

Investigation of Hygrothermal and Mechanical Properties of Porous Building Materials on the Basis of Mathematical Modeling, APVV-15-0681, (2017-2020)

3.2 International cooperation

Cooperating institutions

Faculty of Civil Engineering, Czech Technical University Prague, Czech Republic

Silesian University of Technology, Gliwice, Poland

Faculty of Civil Engineering, Technical University, Brno, Czech Republic

Institute of Theoretical and Applied Mechanics of the ASCR, Prague, CR

Cracow University of Technology, Poland

Military University of Technology, Warsaw, Poland

Katholieke Universiteit Leuven, Belgium

Academy of Science of the Czech Republic, Prague

Membership in international professional organizations

BANÍK I., LUKOVIČOVÁ J., ŠÍŇ P.: European Physical Society

LUKOVIČOVÁ J.: European Society for the Study of Science and Technology

LUKOVIČOVÁ J.: International Council for Research and Innovation in Building and Construction – W 40

4. PUBLICATIONS

Journals

KUBLIHA, M. – TRNOVCOVÁ, V. – ONDRUŠKA, J. – ŠTUBŇA, I. – BOŠÁK, O. – KALJUVÉE, T. – BAČÍK, P.: DC Conductivity of Illitic Clay After Various Firing. In Journal of Thermal Analysis and Calorimetry, ISSN 1388-6150. - Vol. 124, No. 1 (2016), pp. 81-86 (in English)

LUKOVIČOVÁ, J. – PAVLENDOVÁ, G. – KUBLIHA, M. – ŠÍŇ, P.: An Experimental Investigation of Lime Based Plasters Moisture and Temperature Induced Deformation. In MTM - Machines, Technologies, Materials, ISSN 1313-0226. - Vol. 10, No. 2 (2016), pp. 21-23 (in English)

PAVLENDOVÁ, G. – LUKOVIČOVÁ, J. – KUBLIHA, M. – ŠÍŇ, P.: Testing Wireless Electro-Osmosis Used for Dehumidification in Civil Engineering. In Roczniki inżynierii budowlanej. Zesz. 15 (2015), pp. 53-58. ISSN 1505-8425.

BANÍK, I.: Optical and Photoinduced Phenomena in As₂S₃ and As₂Se₃ Chalcogenide Glasses and Explanation of the Observed Corrections. In Journal of Optoelectronics and Advanced Materials. Vol. 18, Nos. 3-4 (2016), 226-234. ISSN 1454-4164. SCOPUS; WOS; ADC.

Conference Proceedings

BANÍK, I. – KUBLIHA, M. – LABAŠ, V. – LUKOVIČOVÁ, J. – PAVLENDOVÁ, G. – ŠÍŇ, P.: Order and Disorder and Their Influences on Optical Absorption of Glasses In the Gap Region. In: AIP Conference Proceedings. Vol. 1752: Thermophysics 2016: 21st International Meeting on Thermophysics, Terchová, Slovakia, 12. - 14. 10. 2016, Nitra: Constantine the Philosopher University, 2016. ISSN 0094-243X, Art. No. 040001 (2016) pp. 1-6 (in English)

BANÍK, I.: Optical Phenomena in Chalcogenide Glasses From the Point of View of a Barrier Cluster Heating Model. In 12th Conference of Slovak Physicists. Nitra, Slovakia 07.-10.09.2015, pp. 27-30.

BANÍK, I., BANÍK, R.: Optical Absorption, Exponential Tails and Urbach's Rule in Disordered Semiconductors. In ADEPT 2016, Tatranská Lomnica, Slovakia, 20.-23.06.2016, ISBN 987-80-554-1226-9, pp. 175-178

BANÍK, I., KUBLIHA, M.: The Photoluminescence Fatigue Process in Chalcogenide Glasses. In ADEPT 2016, Tatranská Lomnica, Slovakia, 20.-23.06.2016, ISBN 987-80-554-1226-9, pp. 171-174

DEPARTMENT OF STRUCTURAL MECHANICS

Head of Department

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Building Analysis

Shell Structures

Special Problems in Dynamics and Statics

Statics

Statics (English)

Structural Analysis

Structural Dynamics

Structural Mechanics

Structural Mechanics (English)

Theory of Elasticity

Theory of Elasticity (English)

Theory of Elasticity and Plasticity

Optional subjects

Aeroelastics

Interaction of Structures and Foundations

Life Span and Reliability of Structures

Modeling Subgrades

Non-Linear Mechanics

Seismic Engineering

Recommended subjects

Automation in Non-Linear Structural Analysis

Automation in Structural Dynamics

Automation in the Statics of Structures

Plasticity Analysis of Structures

Stability of Structures

Structural Modeling Using FEM

Viscoelasticity of Structural Systems

2. THESES

2.1 Bachelor theses

There were 13 works.

2.2 Graduate theses

MOROCZOVÁ, L.: Analysis of the Seismic Resistance of a High-Rise Building
Supervisor: KRÁLIK, J.

WALTERA, R.: Analysis the of Seismic Resistance of a High-Rise Building
Supervisor: KRÁLIK, J.

ŠIŠMIŠOVÁ, Z.: Study of the System Identification of a Load-Carrying
Capacity of a Bridge Structure
Supervisor: SOKOL, M.

PILCH, M.: Analysis of the Foundation Structure of an Office Building
Supervisor: JENDŽELOVSKÝ, N.

LAMPEROVÁ, K.: Design of an Automatic System for the Reduction of
Vibrations of a High-Rise Building
Supervisor: SOKOL, M.

GURA, L.: Static and Dynamic Analysis of an Engineering Construction
Supervisor: IVÁNKOVÁ, O.

VAŠEČKA, M.: Analysis of the Ceiling Plate of an Office Building (Use of
Modern Technologies)
Supervisor: TVRDÁ, K.

SEKÁČOVÁ, I.: Analysis of a Building with an Irregular Ground Plan
Considering the Wind Effects
Supervisor: JENDŽELOVSKÝ, N.

TURIS, M.: Static and Dynamic Analysis of a High-Rise Building
Supervisor: IVÁNKOVÁ, O.

TONGEL, D.: Analysis of a Structure Loaded by Wind
Supervisor: TVRDÁ, K.

UHLÍŘOVÁ, L.: Static and Dynamic Analysis of a High-Rise Building
Supervisor: JENDŽELOVSKÝ, N.

PÓŠA, A.: Static and Dynamic Analysis of a High-Rise Building
Supervisor: IVÁNKOVÁ, O.

2.3 Doctoral theses

BALÁŽ, L.: Static and Dynamic Analysis of Cylindrical Tanks

Supervisor: JENDŽELOVSKÝ, N.

KOVÁČIKOVÁ, J.: Contribution to the Analysis of Fracture Characteristics

Supervisor: IVÁNKOVÁ, O.

OLEKŠÁKOVÁ, I.: Analysis of Wind Effects and Model Tests in the BLWT STU

Wind Tunnel

Supervisor: HUBOVÁ, O.

3. RESEARCH

3.1 Research projects

Probabilistic Analysis of the Reliability of Structures under Extreme Climatic and Emergency Conditions. Safety and Reliability of Nuclear Power Plants (2016 – 2019, KRÁLIK, J.), VEGA 1/0265/16

Prediction of the Behavior of Building Structures under Special Dynamic Loading

(2015 – 2017, JENDŽELOVSKÝ, N.), VEGA 1/0544/15

Stability and Dynamics of Snap-Through Slender Webs and Shallow Shells

(2015 – 2017, RAVINGER, J.), VEGA 1/0272/15

Monitoring of Bearing Structures of Bridges by Multiple Dynamic Tests

(2013 – 2017, SOKOL, M.), APVV-0236-12

3.2 International cooperation

Cooperating institutions

Civil Engineering Institute of the Polish Academy of Science, Warsaw, Poland

Technical University of Opole, Poland

Silesian University of Technology, Gliwice, Poland

Cracow University of Technology, Poland

Fakultät der Bauingenieurwesen Ruhr-Universität, Bochum, Germany

Bundesforschung und Prufzentrum, Arsenal, Vienna, Austria

Czech Academy of Sciences, Prague, Czech Republic

Technical University of Ostrava, Czech Republic

Brno University of Technology, Czech Republic

Czech Technical University in Prague, Czech Republic

Budapest University of Technology and Economics, Budapest, Hungary

Membership in international professional organizations

KOLEKOVÁ, Y.: Member of ÖGE Bridges and Building Structures, TU Vienna

RAVINGER, J.: Member of Polish – Slovak Commission for Civil Engineering, Polish Academy of Sciences

SOKOL, M.: Member of ÖGE Bridges and Building Structures, TU Vienna

SOKOL, M.: Member of European Association for Earthquake Engineering

SOKOL, M.: Member of Technical Committee CEN 250/ SC 8

SOKOL, M.: Member of European Society of Biomechanics

4. PUBLICATIONS

Parts of books

KRÁLIK, J.: Seismic Effects on Bridges. In: MELCER, J. – LAJČÁKOVÁ, G. – MARTINICKÁ, I. – KRÁLIK, J.: Dynamics of Transport Structures. 1st ed. Žilina, EDIS, 2016, pp 309-367. ISBN 978-80-554-1178-1 (in Slovak)

RAVINGER, J.: Stability and Vibration of Imperfect Structures. In: Statics, Dynamics and Stability of Structures. Vol. 5. Selected Problems of Solid Mechanics. 1st ed. Lodz University of Technology Press, 2016, pp. 319-343. ISBN 978-83-7283-758-5 (in English)

Textbooks

DICKÝ, J. – PREKOP, L. – TVRDÁ, K.: Elasticity and Strength. Exercises. 3rd ed. Bratislava STU, 2016. 193 pp. ISBN 978-80-227-4631-1 (in Slovak)

PSOTNÝ, M. – VÉGHOVÁ, I.: Structural Mechanics. Exercises. 3rd ed. Bratislava, STU, 2016. 133 pp. ISBN 978-80-227-4629-8 (in Slovak)

Journals

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Plastic Resistance of H-Section to Interaction of Bending Internal Forces MyEd, VzEd and Torsion Internal Forces BEd, Tomega, Ed and TtEd. In: Interdisciplinarity in Theory and Practice. No. 10 (2016), pp. 311-315. ISSN 2344-2409 (in English)

BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Elastic and Plastic St. Venant Torsion in Metal Eurocodes. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), pp. 44-48. ISSN 2344-2409 (in English)

FRANEK, M. – KONEČNÁ, L. – HUBOVÁ, O. – ŽILINSKÝ, J.: Experimental Pressure Measurement on Elliptic Cylinder. In: Applied Mechanics and Materials. Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 332-337. ISSN 1660-9336 (in English)

HAVRAN, J. – PSOTNÝ, M.: Postbuckling of an Imperfect Plate Loaded in Compression. In: Mechanics and Mechanical Engineering. Vol. 20, No. 2 (2016), pp. 143-149. ISSN 1428-1511 (in English)

HAVRAN, J. – PSOTNÝ, M.: Snap-Through of a Very Shallow Shell with Initial Imperfection. In: Transactions of the VŠB – Technical University of Ostrava, Civil Engineering Series. Vol. 16, No. 2 (2016), pp. 43-48. ISSN 1804-4824 (in English)

JENDŽELOVSKÝ, N. – BALÁŽ, L.: Analysis of Cylindrical Tanks under the Seismic Load. In: Key Engineering Materials. Vol. 691, (2016), pp. 285-296. ISSN 1013-9826 (in English)

- JENDŽELOVSKÝ, N. – BALÁŽ, L.: Modeling of the Dynamic Load of Cylindrical Tanks. In: Transactions of the VŠB – Technical University of Ostrava, Civil Engineering Series. Vol. 16, No. 1 (2016), pp. 13-18. ISSN 1213-1962 (in Slovak)
- KLABNÍK, M. – KRÁLIK, J.: Heat Transfer in a Concrete Composite Cross-Section. In: Transactions of the VŠB – Technical University of Ostrava, Civil Engineering Series. Vol. 16, No. 2 (2016), pp. 61-66. ISSN 1804-4824 (in English)
- KRÁLIK, J.: Risk Assessment of Safety Analysis of Nuclear Power Plant Structures in the Earthquake Active Zones. In: Modern Environmental Science and Engineering. Vol. 2, No. 3 (2016), pp. 158-167. ISSN 2333-2581 (in English)
- KRÁLIK, J. – KRÁLIK, J. Jr.: Nonlinear Dynamic Analysis of the Aircraft Impact to the NPP Structures. In: Manufacturing Technology. Vol. 16, No. 4 (2016), pp. 720-726. ISSN 1213-2489 (in English)
- KRÁLIK, J. – KRÁLIK, J. Jr. – KLABNÍK, M.: Nonlinear Analysis of Failure of a Nuclear Hermetic Reinforced Concrete Structure Due to Extreme Pressure and Temperature. In: Transactions of the VŠB – Technical University of Ostrava, Civil Engineering Series. Vol. 16, No. 2 (2016), pp. 72-84. ISSN 1804-4824 (in English)
- MAGÁT, M. – OLEKŠÁKOVÁ, I. – ŽILINSKÝ, J.: Development of Boundary Layer in CRIACIV in Florence (Prato) and Comparison with CFD. In: Applied Mechanics and Materials: Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 359-364. ISSN 1660-9336 (in English)
- MEDVEČKÁ, S. – IVÁNKOVÁ, O. – KONEČNÁ, L.: Impact of Columns' Inclination on a High-Rise Building Subjected to Wind Load. In: Interdisciplinarity in Theory and Practice. No. 11 (2016), pp. 158-161. ISSN 2344-2409 (in English)
- OLEKŠÁKOVÁ, I. – MAGÁT, M.: Influence of the Wind in Passages. In: Applied Mechanics and Materials : Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 365-370. ISSN 1660-9336 (in English)
- POKORNÝ, M. – JENDŽELOVSKÝ, N. – KONEČNÁ, L.: Determination of the Dynamic Modulus of Elasticity and the Thickness of Concrete Structures by Non-Destructive Methods. In: Key Engineering Materials. Vol. 691, (2016), pp. 344-355. ISSN 1013-9826 (in English)
- PSOTNÝ, M.: Postbuckling of an Imperfect Plate Subjected to the Shear Load. In: Mechanics and Mechanical Engineering. Vol. 20, No. 2 (2016), pp. 177-184. ISSN 1428-1511 (in English)
- RAVINGER, J. – ŠNIRC, L.: Axial Force and Bending of a Beam. In: Konstrukce. Vol. 15, No. 2 (2016), pp. 89-96. ISSN 1213-8762 (in Slovak)
- ANTAL, R. – JENDŽELOVSKÝ, N.: CFD Simulation of Wind Flow Effects upon a High-Rise Buildings Complex. 16th International Scientific Conference VSU 2016. Sofia, Bulgaria, 9.-10. 6. 2016. pp. 104-109. ISSN 1314-071X (in English)
- ANTAL, R.: CFD Analysis and Aerodynamic Shape Design of High-Rise Buildings with Integrated Wind Turbines. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 12 pp. ISBN 978-80-227-4613-7 (in Slovak)
- ANTAL, R.: Design of a High-Rise Building Complex with Horizontal Wind Turbines Using CFD Software Simulation. In: Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct. 2016, Bratislava. pp. 87-92. ISBN 978-80-227-4645-8 (in Slovak)
- ÁROCH, R. – SOKOL, M. – VENGLÁR, M.: Structural Health Monitoring of Major Danube Bridges in Bratislava. In: Procedia Engineering: 9th International Conference on Bridges in the Danube Basin 2016, Žilina, Slovakia. Vol. 156, (2016), pp. 24-31. ISSN 1877-7058 (in English)
- BALÁŽ, I. – ŽIVNER, T. – KOLEKOVÁ, Y.: Critical Moment of Timber Cantilever under Uniform Load q . In: Advances and Trends in Engineering Sciences and Technologies. Tatranská Štrba, Slovakia, 2015. Taylor & Francis Group, 2016, pp. 27-32. ISBN 978-1-138-02907-1 (in English)
- BALÁŽ, I. – ŽIVNER, T. – KOLEKOVÁ, Y.: Critical Moment of Timber Cantilever under Point End Load F . In: Advances and Trends in Engineering Sciences and Technologies. Tatranská Štrba, Slovakia, 2015. Taylor & Francis Group, 2016, pp. 21-26. ISBN 978-1-138-02907-1 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y.: Limit States Design and Partial Factors γ_{m0} and γ_{m1} in Metal Eurocodes. In: Applied Mechanics and Materials, Papers from the Conference on Engineering Mechanics 2015, Svatka, Czech Republic. Vol. 821, (2016), pp. 774-781. ISSN 1660-9336 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y.: New Generation of Eurocodes. In: Production Management and Engineering Sciences. Taylor & Francis Group, 2016, pp. 345-350. ISBN 978-1-138-02856-2 (in English)
- BALÁŽ, I. – KAMENICKÁ, Z. – KOLEKOVÁ, Y.: Slovak Historical Covered Timber Bridges. In: Statics of Structures 2016. Piešťany, Slovakia, pp. 250-257. ISBN 978-80-89842-00-1 (in Slovak)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Behaviour of Box-Girder under Symmetrical Action. In: Engineering Mechanics 2016, 22nd International Conference. Svatka, Czech Republic, pp. 37-42. ISSN 1805-8248. ISBN 978-80-87012-59-8 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Behaviour of Box-Girder under Antisymmetrical Action. In: Engineering Mechanics 2016, 22nd International Conference. Svatka, Czech Republic, pp. 43-48. ISSN 1805-8248. ISBN 978-80-87012-59-8 (in English)

Conference Proceedings

- ANTAL, R. – MÉRI, D.: Comparison of Wind Effects on a High-Rise Building Using CFD Software and 3D Wind Generator Integrated in Structural FEM Software. In: 16th International Scientific Conference VSU 2016. Sofia, Bulgaria, 9.-10. 6. 2016. pp. 99-103. ISSN 1314-071X (in English)

- BALÁŽ, I. – KOLEKOVÁ, Y.: Distortion and Torsion of Experimental Box-Girder Calculated Using Analogy with Bending. In: SDSS 2016, Proceedings of the International Colloquium on the Stability and Ductility of Steel Structures. Timisoara, Romania. pp. 591-598. ISBN 978-92-9147-133-1 (in English)
- BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Warping Torsion and Mixed Torsion in Metal Eurocodes. In: ESaT 2016, Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic. 4 pp. ISBN 978-80-553-2564-4 (in English)
- BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Plastic Resistance of I-Section to Interaction of Bending and Torsion in Current and Future Metal Eurocodes. In: ESaT 2016, Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic. 4 pp. ISBN 978-80-553-2564-4 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Torsion at SNP Bridge in Bratislava. In: Procedia Engineering: 9th International Conference on Bridges in the Danube Basin 2016, Žilina, Slovakia. Vol. 156, (2016), pp. 40-47. ISSN 1877-7058 (in English)
- BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Torsional-Flexural Critical Force for Various Boundary Conditions. In: Key Engineering Materials: Aluminium Constructions: Sustainability, Durability and Structural Advantages. Papers from the 13th International Aluminium Conference INALCO 2016, Sept. 21-23, 2016, Naples, Italy. Vol. 710, (2016), pp. 303-308. ISSN 1013-9826 (in English)
- BALÁŽ, I. – KOVÁČ, M. – ŽIVNER, T. – KOLEKOVÁ, Y.: Resistances of I-Section to Internal Forces Interactions. In: Key Engineering Materials: Aluminium Constructions: Sustainability, Durability and Structural Advantages. Papers from the INALCO 13th International Aluminium Conference 2016, Sept. 21-23, 2016, Naples, Italy. Vol. 710, (2016), pp. 309-314. ISSN 1013-9826 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Influence Lines of Bimoment at Intermediate Support of SNP Bridge. In: Bridges in Danube Basin: New Trends in Bridge Engineering and Efficient Solution for Large and Medium Span Bridges. Extended abstracts from the 9th International Conference. Žilina, Slovakia, Sept. 30 – Oct. 01, 2016. pp. 23-24. ISBN 978-80-554-1249-8 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – VÉGHOVÁ, I.: Influence Lines of Torsional Bimoments of Large Box-Girder Steel and Concrete Bridges. In: 41st Workshop of Steel Structure Experts. Štrbské Pleso, Slovakia, 2016. pp. 21-28. ISBN 978-80-553-2612-2 (in Slovak)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – VÉGHOVÁ, I.: Influence Lines of Distortional Bimoments of Large Steel and Concrete Bridges. In: 41st Workshop of Steel Structure Experts. Štrbské Pleso, Slovakia, 2016. pp. 29-36. ISBN 978-80-553-2612-2 (in Slovak)
- BALÁŽ, I. – KOLEKOVÁ, Y. – KOVÁČ, M. – ŽIVNER, T.: Generalization of Unique Global and Local Initial Imperfection Used in EN 1993-1-1 and EN 1999-1-1. In: Steel and Aluminium Structures, Proceedings of the 8th International Conference. Hong Kong, China, 7-9 Dec. 2016. pp. 1398-1411. ISBN 978-962-8014-26-2 (in English)
- BALÁŽ, I. – KOLEKOVÁ, Y.: Two Historical Covered Timber Bridges in Gelnica. In: BASA 2016, Proceedings of the International Scientific Conference. 23-25 Nov. 2016, Sofia, Bulgaria. pp. 331-338. ISBN 978-954-8931-50-2 (in English)
- BALÁŽ, I. – KAMENICKÁ, Z. – KOLEKOVÁ, Y.: Historical Covered Timber Bridge in Gelnica Near Station. In: Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings, Bratislava, 2015. Vol. 837, (2016), pp. 44-51. ISSN 1660-9336 (in English)
- DRIENOVSKÁ, J. – TVRDÁ, K.: Analysis of Creep of a Simple Beam. In: 16th International Scientific Conference VSU 2016. Sofia, Bulgaria, 9.-10. 6. 2016. pp. 130-133. ISSN 1314-071X (in English)
- DRIENOVSKÁ, J. – TVRDÁ, K.: Deflection of a Beam Considering Creep. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9 – 11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- DRIENOVSKÁ, J. – TVRDÁ, K.: Assessment of Creep Effects by Time-Dependent Functions. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 5 pp. ISBN 978-80-227-4613-7 (in Slovak)
- DRIENOVSKÁ, J.: Calculations of the Displacement of a Beam Due to Creep – Comparison of Results Obtained by Various Calculation Methods. In: Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. pp. 93-98. ISBN 978-80-227-4645-8 (in Slovak)
- FRANEK, M. – KONEČNÁ, L. – MACÁK, M.: Experimental and Numerical Evaluation of the External Pressure Coefficients on the Elliptic Cylinder. In: Proceedings of 24th SVSFEM ANSYS Users' Group Meeting and Conference 2016, Dolní Morava, Czech Republic. pp. 53-62. ISBN 978-80-905525-3-1 (in English)
- HAVRAN, J. – PSOTNÝ, M.: Non-Linear Analysis of a Slender Web Loaded in Compression. In: Juniorstav 2016. Brno, Czech Republic, 28. 1. 2016. 7 pp. ISBN 978-80-214-5311-1 (in Slovak)
- HAVRAN, J. – PSOTNÝ, M.: Stable Paths in Postbuckling of an Imperfect Slender Web Loaded in Compression. In: Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings, Bratislava, 2015. Vol. 837, (2016), pp. 28-33. ISSN 1660-9336 (in English)
- HAVRAN, J. – PSOTNÝ, M.: Snap-Through of a Shallow Shell with Initial Imperfection. In: Modeling Mechanics 2016, Ostrava, Czech Republic. 7 pp. ISBN 978-80-248-3918-9 (in English)
- HAVRAN, J. – PSOTNÝ, M.: Stability Analysis of a Shallow Shell. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9 – 11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)

- HAVRAN, J. – PSOTNÝ, M.: Snap-Through of a Shallow Shell with an Initial Imperfection. In: *New Trends in the Statics and Dynamics of Buildings*. Bratislava, Slovakia, 13.-14. 10. 2016. 6 pp. ISBN 978-80-227-4613-7 (in Slovak)
- HAVRAN, J.: Snap-Through of a Steel Shallow Shell with Imperfections. In: *Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. pp. 99-103. ISBN 978-80-227-4645-8 (in Slovak)
- HUBOVÁ, O.: Experimental Determination of Effects of Wind upon Structures. In: *Statics of Structures 2016*. Piešťany, Slovakia. pp. 132-139. ISBN 978-80-89842-00-1 (in Slovak)
- HUBOVÁ, O. – KONEČNÁ, L.: Influence of Wind Flow Around Free Ends of a High-Rise Building on Values of the External Wind Pressure Coefficients. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 203-208. ISSN 1660-9336 (in English)
- HUBOVÁ, O. – KONEČNÁ, L.: Wind Flow around an Atypical Building and Building Configurations. In: *Engineering Mechanics 2016. 22nd International Conference*. Svratka, Czech Republic. pp. 225-228. ISSN 1805-8248. ISBN 978-80-87012-59-8 (in English)
- HUBOVÁ, O. – KONEČNÁ, L.: Experimental Determination of Wind Flowing Around a Building Configuration. In: *Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016*. Prague, Czech Republic. Vol. 161, (2016), pp. 1845-1851. ISSN 1877-7058 (in English)
- HUBOVÁ, O. – MACÁK, M. – KONEČNÁ, L. – CIGLAN, G.: High-Rise Building with an Atypical Cross-Section: External Wind Pressure Coefficients Determined by CFD and BLWT. In: *SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference*. Štrbské Pleso, Slovakia, Nov. 9–11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- IVÁNKOVÁ, O. – KONEČNÁ, L.: Influence of Defects on the Stiffness of Masonry Building. In: *SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference*. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- JENDŽELOVSKÝ, N. – BALÁŽ, L.: Effects of Earthquake on Cylindrical Tanks. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 10-15. ISSN 1660-9336 (in English)
- JENDŽELOVSKÝ, N. – ZABÁKOVÁ VRÁBLOVÁ, K.: Analysis of the Natural Frequencies of Voided Reinforced Concrete Plates. In: *Concrete Days 2016*. Bratislava, Slovakia, pp. 297-300. ISBN 978-80-227-4622-9 (in Slovak)
- JENDŽELOVSKÝ, N. – ANTAL, R.: Wind Effects on the Triangular High-Rise Structure with Curved Corners. In: *SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference*. Štrbské Pleso, Slovakia, Nov. 9–11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- JENDŽELOVSKÝ, N.: Displacement of a Circular Foundation Plate. In: *New Trends in the Statics and Dynamics of Buildings*. Bratislava, Slovakia, 13.-14. 10. 2016. 6 pp. ISBN 978-80-227-4613-7 (in Slovak)
- KLABNÍK, M. – KRÁLIK, J.: Nonlinear Analysis of Composite Columns Fire Resistance. In: *Young Scientist 2016: 8th International Scientific Conference of Civil Engineering and Architecture for PhD. Students and Young Scientists Under 35 Years Old*. Štrbské Pleso, Slovakia, 14.-15. 4. 2016. 11 pp. ISBN 978-80-553-2537-8 (in English)
- KLABNÍK, M. – KRÁLIK, J.: Equivalent Stress and Strain of Composite Column under Fire. In: *SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference*. Štrbské Pleso, Slovakia, Nov. 9–11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- KLABNÍK, M. – KRÁLIK, J.: Non-Stationary Heat Transfer in the PHP Programming Language. In: *New Trends in the Statics and Dynamics of Buildings*. Bratislava, Slovakia, 13.-14. 10. 2016. 6 pp. ISBN 978-80-227-4613-7 (in Slovak)
- KLABNÍK, M.: Heat Transfer in PHP. In: *Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. pp. 104-111. ISBN 978-80-227-4645-8 (in Slovak)
- KOLEKOVÁ, Y. – KOVÁČ, M. – BALÁŽ, I.: Influence Lines of Bridges with Box-Girder Cross-Section under Torsion and Distortion. In: *SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference*. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- KOVÁČ, M. – BALÁŽ, I. – KOLEKOVÁ, Y. – ŽIVNER, T.: Critical Axial Force of Torsional-Flexural Buckling for Various Boundary Conditions by Goldenvejzer's Approximate Method. In: *Steel and Aluminium Structures: Proceedings of the 8th International Conference*. Hong Kong, China, 7-9 Dec. 2016, pp. 1088-1096. ISBN 978-962-8014-26-2 (in English)
- KOVÁČIKOVÁ, J. – IVÁNKOVÁ, O. – DROBNÝ, D.: Influence of Shape of a Flaw on Value of Stress of Beams. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 230-233. ISSN 1660-9336 (in English)
- KOVÁČIKOVÁ, J. – EKEVAD, M. – IVÁNKOVÁ, O. – BERG, S.: Finite Element Analysis of Timber Beams with Flaws. In: *ECCOMAS Congress 2016*. Crete, Greece, 5-10 June 2016. pp. 8606-8611. ISBN 978-618-82844-0-1 (in English)
- KRÁLIK, J. Jr. – HUBOVÁ, O. – KONEČNÁ, L.: Capability of Two Equation $k-\omega$ Turbulence Model to Predict Pressure Values on a „Quarter-Circular“ Object. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 209-213. ISSN 1660-9336 (in English)

- KRÁLIK, J. Jr. – KONEČNÁ, L. – LAVRINČÍKOVÁ, D.: Experimental Validation of Computer Fluid Dynamics Simulation Aimed on Pressure Distribution on Gable Roof of a Low-Rise Building. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- KRÁLIK, J. Jr. – KONEČNÁ, L. – KALESNÝ, F.: Large Eddy Simulation of Pressure Distribution on Low-Rise Building with a Gable Roof. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 9 pp. ISBN 978-80-227-4613-7 (in English)
- KRÁLIK, J. – KRÁLIK, J. Jr.: Probabilistic Nonlinear Analysis of Bubble Tower Structure Due to Extreme Pressure and Temperature. In: Applied Mechanics and Materials: Papers from the Conference on Engineering Mechanics 2015, Svatka, Czech Republic. Vol. 821, (2016), pp. 725-732. ISSN 1660-9336 (in English)
- KRÁLIK, J. – KRÁLIK, J. Jr. – KLABNÍK, M. – GRMANOVÁ, A.: Nonlinear Probabilistic Analysis of the Failure Pressure of NPP Shielding Plate. In: Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings, Bratislava, 2015. Vol. 837, (2016), pp. 214-221. ISSN 1660-9336 (in English)
- KRÁLIK, J.: Probabilistic Nonlinear Analysis of the Hermetic Circular Cover of Main Coolant Pump Failure Due to Extreme Pressure and Temperature. In: Engineering Mechanics 2016, 22nd International Conference. Svatka, Czech Republic, pp. 309-312. ISSN 1805-8248. ISBN 978-80-87012-59-8 (in English)
- KRÁLIK, J. – KLABNÍK, M. – GRMANOVÁ, A.: Nonlinear Analysis of Steel Concrete Columns Fire Resistance. In: Engineering Mechanics 2016, 22nd International Conference. Svatka, Czech Republic, pp. 313-316. ISSN 1805-8248. ISBN 978-80-87012-59-8 (in English)
- KRÁLIK, J.: Nonlinear Analysis of Safety of NPP Postament Subjected to Extreme Pressure and Temperature. In: Modeling Mechanics 2016, Ostrava, Czech Republic, 11 pp. ISBN 978-80-248-3918-9 (in English)
- KRÁLIK, J.: Probabilistic Nonlinear Analysis of the Safety of a Circular Cover of Hermetic Confinement Subjected to Extreme Pressure and Temperature. In: Modeling Mechanics 2016, Ostrava, Czech Republic, 15 pp. ISBN 978-80-248-3918-9 (in English)
- KRÁLIK, J. – KLABNÍK, M.: Heat Transfer in the Cross-Section of a Concrete Composite. In: Modeling Mechanics 2016, Ostrava, Czech Republic, 7 pp. ISBN 978-80-248-3918-9 (in Slovak)
- KRÁLIK, J. – KRÁLIK, J. Jr.: Nonlinear Dynamic Analysis of Nuclear Power Building Safety under the Aircraft Impact. In: Proceedings of 24th SVSFEM ANSYS Users' Group Meeting and Conference 2016. Dolní Morava, Czech Republic, pp. 31-39. ISBN 978-80-905525-3-1 (in English)
- KRÁLIK, J. – KRÁLIK, J. Jr.: Nonlinear Analysis of NPP Safety against the Aircraft Attack. In: AIP Conference Proceedings, Vol. 1738. International Conference of Numerical Analysis and Applied Mathematics 2015 (ICNAAM 2015), 22.–28. 09. 2015, Rhodes, Greece, (2016), 4 pp. ISSN 0094-243X (in English)
- KRÁLIK, J.: Probabilistic Safety Assessment of Design of a Tall Building under Extreme Load. In: AIP Conference Proceedings. Vol. 1738. International Conference of Numerical Analysis and Applied Mathematics 2015 (ICNAAM 2015), 22.–28. 09. 2015, Rhodes, Greece, (2016), 4 pp. ISSN 0094-243X (in English)
- KRÁLIK, J.: Experimental and Numerical Analysis of Hermetic Tightness of a NPP Bubble Tower Structure. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- KRÁLIK, J. – KRÁLIK, J. Jr.: Experimental and Sensitivity Analysis of the Vibration Impact to the Human Comfort. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- MACÁK, M. – FRANEK, M. – KONEČNÁ, L.: Experimental Measurements and CFD Simulation over an Elliptic Object. In: MAGIA 2015: Mathematics, Geometry and Their Applications. Kočovce, Slovakia, 9.-11. 10. 2015. Bratislava, STU 2016, pp. 44-50. ISBN 978-80-227-4611-3 (in English)
- MARTON, P.: Snow Load in the Event of a Slide from a Roof. In: Modeling Mechanics 2016, Ostrava, Czech Republic. 4 pp. ISBN 978-80-248-3918-9 (in Slovak)
- MEDVECKÁ, S. – IVÁNKOVÁ, O. – KONEČNÁ, L.: Effects of External Pressure Cpe on a High-Rise Building Obtained from Numerical Analysis and Experimental Measurement. In: ESaT 2016: Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 4 pp. ISBN 978-80-553-2564-4 (in English)
- MEDVECKÁ, S. – IVÁNKOVÁ, O. – KONEČNÁ, L.: Calculations of the Coefficient of External Pressure CPE Using Standard Values and an Experiment. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 4 pp. ISBN 978-80-227-4613-7 (in Slovak)
- MÉRI, D. – IVÁNKOVÁ, O.: Analysis of Bearing Systems of Tower Blocks. In: Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings, Bratislava, 2015. Vol. 837, (2016), pp. 226-229. ISSN 1660-9336 (in English)
- MÉRI, D. – IVÁNKOVÁ, O.: Effects of the Set-Up of a Reinforced Core upon the Static Behaviour of High-Rise Buildings. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 4 pp. ISBN 978-80-227-4613-7 (in Slovak)
- MÉRI, D.: Analysis of the Effects of Reinforced Concrete Cores upon Displacements in the Top Parts of High-Rise Buildings. In: Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. pp. 112-116. ISBN 978-80-227-4645-8 (in Slovak)

- OLEKŠÁKOVÁ, I.: Distribution of Pressure on the Roof of a Low-Rise Building for the Placement of a Wind Microturbine. In: Juniorstav 2016, Brno, Czech Republic, 28. 1. 2016, 7 pp. ISBN 978-80-214-5311-1 (in Slovak)
- PREKOP, L.: Modeling of Load Test of Piles. In: Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings, Bratislava, 2015. Vol. 837, (2016), pp. 175-178. ISSN 1660-9336 (in English)
- PREKOP, L.: Verification of Vertical Bearing Capacity of a Reinforced Concrete Pile. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- PREKOP, L.: Bearing Structure of a Moving Tank. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 6 pp. ISBN 978-80-227-4613-7 (in Slovak)
- PSOTNÝ, M.: Stability Analysis of an Imperfect Slender Web Subjected to the Shear Load. In: Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings, Bratislava, 2015. Vol. 837, (2016), pp. 52-57. ISSN 1660-9336 (in English)
- PSOTNÝ, M. – HAVRAN, J.: Snap-Through of a Shallow Shell of Translation. In: 16th International Scientific Conference VSU 2016. Sofia, Bulgaria, 9.-10. 6. 2016. pp. 312-317. ISSN 1314-071X (in English)
- PSOTNÝ, M. – HAVRAN, J.: Stability Analysis of the Very Shallow Shell with Imperfection. In: SOLMECH 2016, 40th Solid Mechanics Conference. Warsaw, Poland. 2 pp (in English)
- ROŠKO, P. – KRÁLIK, J.: Probabilistic Analysis of Botlek Bridge. In: Proceedings of ISERD International Conference, Manila, Philippines, 29th – 30th Nov. 2016, pp. 10-14. ISBN 978-93-86083-34-0 (in English)
- SOKOL, M. – VENGLÁR, M. – KONEČNÁ, L. – RODRÍGUEZ PAZ, M. X.: Simple Dynamic Tests Method for Shear Wave Velocity Determination. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining. Albena, Bulgaria, 30 June - 6 July 2016, pp. 269-276. ISSN 1314-2704. ISBN 978-619-7105-57-5 (in English)
- SOKOL, M. – VENGLÁR, M.: In Scale Model of the Bridge for System Identification. In: Procedia Engineering: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium 2016, WMCAUS 2016. Prague, Czech Republic, 13.-17. 6. 2016. Vol. 161, (2016), pp. 674-679. ISSN 1877-7058 (in English)
- SOKOL, M. – VENGLÁR, M. – RODRÍGUEZ PAZ, M. X.: Damage Detection of a Composite Beam. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 4 pp. ISBN 978-80-227-4613-7 (in English)
- SUMEC, J. – VÉGHOVÁ, I.: Properties of Tensors and Tensor-Operators in Linear Viscoelasticity Modeling. In: 16th International Scientific Conference VSU 2016. Sofia, Bulgaria, 9.-10. 6. 2016. pp. 336-341. ISSN 1314-071X (in English)
- ŠNIRC, L. – RAVINGER, J.: Effects of Axial Force Upon Bending Stiffness. In: Statics of Structures 2016, Piešťany, Slovak Republic, 10.-11. 3. 2016. pp. 158-163. ISBN 978-80-89842-00-1 (in Slovak)
- ŠNIRC, L. – NAGYOVÁ, M. – RAVINGER, J.: Self-Supporting Form for the Production of Prestressed Concrete Prefabricates. In: Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings, Bratislava, 2015. Vol. 837, (2016), pp. 113-120. ISSN 1660-9336 (in English)
- ŠNIRC, L. – RAVINGER, J.: Effect of the Mode of an Initial Deformation on the Stability and Vibration of a Beam. In: Modeling Mechanics 2016, Ostrava, Czech Republic, 6 pp. ISBN 978-80-248-3918-9 (in Slovak)
- ŠNIRC, L. – RAVINGER, J.: Stability and Vibration of an Imperfect Beam – Laboratory Experiments. In: 16th International Scientific Conference VSU 2016. Sofia, Bulgaria, 9.-10. 6. 2016. pp. 324-329. ISSN 1314-071X (in English)
- ŠNIRC, L. – RAVINGER, J.: Statics and Dynamics of a Snap-Through Effect. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- ŠNIRC, L.: Snap-Through Effect of Columns and Beams. In: New Trends in the Statics and Dynamics of Buildings. Bratislava, Slovakia, 13.-14. 10. 2016. 6 pp. ISBN 978-80-227-4613-7 (in Slovak)
- ŠNIRC, L.: Effect of Initial Imperfections on Stability and Vibration in the Snap-Through Effect. In: Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. pp. 117-122. ISBN 978-80-227-4645-8 (in Slovak)
- TJEŠŠOVÁ, M. – SOKOL, M.: Creation of a 3D Geometrical Model of the Lumbar Vertebra from 2D Images. In: 48th Conference of Slovak Mathematicians. Jasná pod Chopkom, Slovak Republic, 24.-27. 11. 2016. p. 38. ISBN 978-80-554-1279-5 (in Slovak)
- TJEŠŠOVÁ, M. – SOKOL, M.: Influence of Spine Geometry on the Stress Distribution. In: Czech-Japanese-Polish Seminar on Applied Mathematics 2016, Cracow, Poland, Sept. 5-9, 2016, p. 20 (in English)
- TOMAŠOVIČOVÁ, D. – JENDŽELOVSKÝ, N.: Analysis of Shear Interaction between Industrial Floor Slab and Subsoil. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining. Albena, Bulgaria, 30 June - 6 July 2016, pp. 35-42. ISSN 1314-2704. ISBN 978-619-7105-57-5 (in English)
- TOMAŠOVIČOVÁ, D. – JENDŽELOVSKÝ, N.: Stiffness Analysis of the Subsoil Under an Industrial Floor. In: SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)

- TOMAŠOVIČOVÁ, D. – JENDŽELOVSKÝ, N.: Effects of the Stiffness of the Subgrade upon the Bearing Capacity of a Concrete Industrial Floor. In: *New Trends in the Statics and Dynamics of Buildings*. Bratislava, Slovakia, 13.-14. 10. 2016. 6 pp. ISBN 978-80-227-4613-7 (in Slovak)
- TOMAŠOVIČOVÁ, D.: Analysis of the Thickness and Stiffness of a Subsoil and Its Impact on a Floor Slab. In: *Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava, pp. 123-128. ISBN 978-80-227-4645-8 (in Slovak)
- TVRDÁ, K.: Probability Aspects in Foundation Plate Design. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 64-67. ISSN 1660-9336 (in English)
- TVRDÁ, K.: RSM Method in Probabilistic Analysis of a Foundation Plate. In: *SPACE 2016. Structural and Physical Aspects of Construction Engineering, 3rd International Conference*. Štrbské Pleso, Slovakia, Nov. 9-11, 2016, 2 pp. ISBN 978-80-553-2643-6 (in English)
- UHLÍŘOVÁ, L.: Effects of Extreme Wind upon a High-Rise Building. In: *New Trends in the Statics and Dynamics of Buildings*. Bratislava, Slovakia, 13.-14. 10. 2016. 6 pp. ISBN 978-80-227-4613-7 (in Slovak)
- VÉGHOVÁ, I.: – SUMEC, J.: Viscoelastic Effects in Solid Phase Continuous Media – Stress-Strain Relations. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 121-126. ISSN 1660-9336 (in English)
- VÉGHOVÁ, I.: – SUMEC, J.: Basic Rheological Parameters of Solid Viscoelastic Body Under Periodical Loading. In: *New Trends in the Statics and Dynamics of Buildings*. Bratislava, Slovakia, 13.-14. 10. 2016. 5 pp. ISBN 978-80-227-4613-7 (in English)
- VENGLÁR, M. – SOKOL, M.: Modal Analysis of a Truss Beam. In: *Juniorstav 2016*. Brno, Czech Republic, 28. 1. 2016. 4 pp. ISBN 978-80-214-5311-1 (in Slovak)
- VENGLÁR, M. – SOKOL, M. – ÁROCH, R. – BUDAJ, J.: Initial Experimental Test of the Port Bridge for Structural Health Monitoring. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 135-139. ISSN 1660-9336 (in English)
- VENGLÁR, M. – SOKOL, M. – ÁROCH, R.: System Identification of a Truss Beam. In: *Engineering Mechanics 2016, 22nd International Conference*. Svratka, Czech Republic, 9.-12. 5. 2016, pp. 573-576. ISSN 1805-8248. ISBN 978-80-87012-59-8 (in English)
- VENGLÁR, M.: Damage Assessment of a Wooden-Plaster Beam. In: *Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava. pp. 129-133. ISBN 978-80-227-4645-8 (in Slovak)
- ZABÁKOVÁ VRÁBLOVÁ, K. – JENDŽELOVSKÝ, N. – KONEČNÁ, L.: Analysis of Natural Frequencies of a Plexiglass Plate. In: *Applied Mechanics and Materials: Papers from the 13th International Conference on New Trends in the Statics and Dynamics of Buildings*, Bratislava, 2015. Vol. 837, (2016), pp. 187-190. ISSN 1660-9336 (in English)
- ZABÁKOVÁ VRÁBLOVÁ, K.: Tuned Rolling Mass Dampers and Their Use in Voided Biaxial Slabs. In: *Proceedings of 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26. Oct. 2016, Bratislava, pp. 134-138. ISBN 978-80-227-4645-8 (in Slovak)

DEPARTMENT OF MATERIAL ENGINEERING

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Technological Project I

Technological Project II

Concrete Technology I

Structure of Building Materials

Ceramics

Lightweight Concrete

Building Mortars

Technology of Precast Units

Testing

1.2 Postgraduate courses

Building Materials

Selected Chapters from Chemistry II

2. THESES

2.1 Bachelor theses

There was 1 work.

2.2 Graduate theses

RÁCZOVÁ, A.: Effect of Glass Fibers on Changes in Volume of Cement Pastes
Supervisor: ŠTEFUNKOVÁ, Z.

OLŠOVÁ, J.: Resistance of the Bond Between the Base Course and the Wearing Course of a Roadway Reinforced by a Geogrid made of Fiberglass
Supervisor: ŠTEFUNKOVÁ, Z.

OKÁL, D.: Effect of Glass Fiber Dosage on the Properties of Cement Composites
Supervisor: ŠTEFUNKOVÁ, Z.

KUBA, L.: Comparison of Selected Physical-Mechanical Properties of Autoclaved Aerated Concrete Based on Sand
Supervisor: STRUHÁROVÁ, A.

KOLLÁROVÁ, I.: Cement COMPOSITES BASED ON RECYCLED PLASTERS
Supervisor: LEDEREROVÁ, M.

ADÁMEK, D.: Recycled Building Materials and Their Use as a Worthwhile Raw Material
Supervisor: LEDEREROVÁ, M.

DAUBNEROVÁ, A.: Lightweight Concrete Based on Recycled Foam Plastics
Supervisor: UNČÍK, S.

2.3 Doctoral theses

MATULOVÁ, K.: Influencing the Changes in the Volume of Cement Composites
Supervisor: UNČÍK, S.

3. RESEARCH

3.1 Research projects

Investigation of Hygrothermal and Mechanical Properties Linked to the Consistency and Structure of Porous Building Materials, Based on Mathematical Modeling.
(2016-2020, KAČUR, J.) APVV-15-0681

Reducing the Energy Demands of Buildings During the Use of Secondary Raw Materials from the Chemical and Food Industries in the Manufacture of Brick Products
(2015-2017, ŠVEDA, M.), VEGA 1/0045/15

3.2 International cooperation

Cooperating institutions

Faculty of Civil Engineering, Brno University of Technology, Czech Republic,
Klokner Institute, ČVUT Prague, Czech Republic

Faculty of Civil Engineering, VŠB – Technical University of Ostrava, Czech Republic

4. PUBLICATIONS

Journals

GREGOROVÁ, V. - ŠTEFUNKOVÁ, Z.: Influence of Glass Fibers on Volume Changes of Cement Composites. In: Czech Journal of Civil Engineering. ISSN 2336-7148. Vol. 2, No. 1 (2016), online, pp. 38-43 (in English)

GREGOROVÁ, V.: Use of Polystyrene and Polypropylene Waste as a Filler for Lightweight Concrete and Effects on Its Properties. In: Mladá veda, ISSN 1339-3189. Vol. 4, No. 1 (2016), online, pp. 59-66 (in Slovak)

LEDEREROVÁ, M.: Nanomaterials and Nanocomposites Use in Construction. In: Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building. ISSN 1660-9336. Vol. 824 (2016). pp. 108-115 (in English)

OLŠOVÁ, J. - BRIATKA, P. - GAŠPARÍK, J. - ŠTEFUNKOVÁ, Z.: Assessment of the Effect of Reinforcing Glass-Fiber Mesh Inserted in Between the Binder - and the Wearing Course. In: Interdisciplinarity in Theory and Practice, ISSN 2344-2409. No. 11 (2016), online, pp. 132-135 (in English)

PAVLÍK, V. - UŽÁKOVÁ, M.: Effect of Curing Conditions on the Properties of Lime, Lime-Metakaolin and Lime-Zeolite Mortars. In: Construction and Building Materials, ISSN 0950-0618. Vol. 102, (2016), pp. 14-25 (in English)

Petro, M. - Gregorová, V.: Determination of the Cause of Damage on Exterior Paving Placed on the Terrace of an Apartment Building. In: Almanach znalca, ISSN 1336-3174. Vol. 16, No. 2 (2016), CD-ROM, pp. 9-13 (in Slovak)

PROKOPČÁKOVÁ, K. - LEDEREROVÁ, M.: The Impact of the Implementation of Concrete Structures on the Environment. In: Czech Journal of Civil Engineering, ISSN 2336-7148. Vol. 2, No. 1 (2016), online, pp. 90-94 (in Slovak)

PROKOPČÁKOVÁ, K. - LEDEREROVÁ, M.: Utilization of Recycled Materials. In: Czech Journal of Civil Engineering, ISSN 2336-7148. Vol. 2, No. 2 (2016), pp. 93-98 (in Slovak)

STRUHÁROVÁ, A.: Measuring the Thermo-Technical Parameters of Autoclaved Aerated Concrete. In: Applied Mechanics and Materials: Energy Saving and Environmentally Friendly Technologies - Concepts of Sustainable Building, ISSN 1660-9336. Vol. 824 (2016), pp. 100-107 (in English)

PAVLÍK, V. - UŽÁKOVÁ, M.: Effect of Curing Conditions on the Properties of Lime, Lime-Metakaolin and Lime-Zeolite Mortars. Construction and Building Materials, ISSN: 0950-0618. Vol. 102 (2016) pp. 14-25.

Conference Proceedings

GREGOROVÁ, V.: The Heat-Insulating Lightweight Concrete Based on Polyethylene Waste. In: Construmat 2016: Conference on Structural Materials: Stará Živohošť, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 61-68 (in English)

GREGOROVÁ, V. - ŠTEFUNKOVÁ, Z.: Properties of Lightweight Concrete Made from Waste Polystyrene and Polypropylene. In: Construmat 2016: Conference on Structural Materials: Stará Živohošť, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 69-76 (in English)

GREGOROVÁ, V. - UNČÍK, S.: Use of Recycled Foam Plastic to Produce Lightweight Concrete. In: Concrete Days 2016: Bratislava, SR, 20. - 21. 10. 2016. Bratislava: Slovak University of Technology in Bratislava, 2016. ISBN 978-80-227-4622-9. pp. 245-250 (in Slovak)

GREGOROVÁ, V.: Characterization of Lightweight Concrete Containing Fillers Based on Recycled Plastics: EVA and Polystyrene. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Students Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. Bratislava, 2. Oct. 2016. Bratislava: Slovak University of Technology in Bratislava, 2016, CD-ROM, ISBN 978-80-227-4645-8. pp. 268-274 (in Slovak)

LEDEREROVÁ, M.: Utilization of Waste in Construction. In: Construmat 2016: Conference on Structural Materials: Stará Živohošť, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 359-364 (in English)

LEDEREROVÁ, M.: Possibilities for the Effective Utilization of Construction and Demolition Waste in Construction and the Amendment to the Act on Waste. In: RECYCLING 2016: Possibilities and Future of Waste Recycling from Buildings as a Source of Valuable Raw Materials. Proceedings of 21st Conference, Brno, CR, 7. - 8. 4. 2016. Brno: University of Technology in Brno, 2016, ISBN 978-80-214-5331-9 pp. 66-69 (in German)

MATULOVÁ, K. - UNČÍK, S.: Effect of Shrinkage-Reducing Admixture on the Properties of Cement Composites. In: Advances and Trends in Engineering Sciences and Technologies: Proceedings of the International Conference on Engineering Sciences and Technologies. Tatranská Štrba, Slovakia, 27. - 29. 5. 2015. London: Taylor & Francis Group, 2016. ISBN 978-1-138-02907-1. pp. 329-334 (in English)

OLŠOVÁ, J. - BRIATKA, P. - GAŠPARÍK, J. - ŠTEFUNKOVÁ, Z.: Cohesion of Mesh Reinforced Binder- and Wearing Course. In: ESaT 2016: Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June – 1 July 2016. [CD-ROM]. Košice: Technical University of Košice, Faculty of Civil Engineering, 2016, ISBN 978-80-553-2564-4 (in English)

PAVLÍK, V.: Development of Microstructure in Lime-Metakaolin Pastes. In: Construmat 2016: Conference on Structural Materials: Stará Živohošť, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 404-413 (in English)

SOKOLÁŘ, R. - ŠVEDA, M.: Utilization of Nanofibers in Sintered Ceramic Body Based on Calcium Aluminate Cement. In: Materials Science Forum: Binders, Materials and Technologies in Modern Construction II. Selected, peer reviewed papers from the International Conference on Silicate Binders 2015, Dec. 3, 2015, Brno, Czech Republic. Vol. 865, (2016), ISSN 0255-5476. pp. 62-66 (in English)

- SOKOLÁŘ, R. - ŠVEDA, M.: The Use of Zeolite as a Fluxing Agent for Whiteware. In: *Procedia Engineering: ICEBMP 2016 - International Conference on Ecology and New Building Materials and Products*, Černá Hora, CR, 31. 5. - 2. 6. 2016. Vol. 151 (2016). ISSN 1877-7058. pp. 229-235 (in English)
- STRUHÁROVÁ, A.: Use of Siloconate Hydroinsulation in Autoclaved Aerated Concrete Masonry. In: *Construmat 2016: Conference on Structural Materials: Stará Živošť*, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 453-456 (in English)
- SÚLOVSKÁ, M. - TURČEK, P. - ŠTEFUNKOVÁ, Z.: Quality Control of a Base Course Below a Factory Floor. In: *Proceedings of 44th Conference with international participation: Foundation Engineering*, Brno, 14. - 15. 11. 2016. Prague, CR: Czech Geotechnical Society, 2016. ISBN 978-80-87920-04-6. pp. 57-62 (in Slovak)
- ŠTEFUNKOVÁ, Z. - GREGOROVÁ, V.: Properties and Types of Fibers Used in Fiber Reinforced Concrete. In: *Construmat 2016: Conference on Structural Materials: Stará Živošť*, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 150-160 (in English)
- ŠTEFUNKOVÁ, Z.: Alkali Resistant Glass Fibers. In: *Construmat 2016: Conference on Structural Materials: Stará Živošť*, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 140-149 (in English)
- ŠVEDA, M. - JANÍK, B. - ŠTEFUNKOVÁ, Z.: Reduction of Production Costs and CO2 Emissions in the Brick Manufacture. In: *RECYCLING 2016: Possibilities and Future of Waste Recycling from Buildings as a Source of Valuable Raw Materials. Proceedings of 21th Conference*. Brno, CR, 7. - 8. 4. 2016. Brno: University of Technology in Brno, 2016, ISBN 978-80-214-5331-9. pp. 86-91 (in English)
- ŠVEDA, M. - ŠTEFUNKOVÁ, Z.: The Production of Bricks: Reduction of CO2 Emissions and Production Costs. In: *Construmat 2016: Conference on Structural Materials: Stará Živošť*, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 161-169 (in English)
- ŠVEDA, M. - JANÍK, B. - ŠTEFUNKOVÁ, Z.: Influence of Pore Diameter on Thermal Conductivity of Fired Clay Body. In: *Construmat 2016: Conference on Structural Materials: Stará Živošť*, CR, 1. - 3. 6. 2016. [USB memory stick]: Prague: Czech Technical University in Prague, 2016. ISBN 978-80-01-05958-6. pp. 170-177 (in English)
- UNČÍK, S. - MATULOVÁ, K.: Effect of SRA Admixture on the Shrinkage and Other Properties of Cement Composites. In: *ACF 2016. Sustainable Concrete for Now and the Future: Conference proceedings: 7th International Conference of Asian Concrete Federation*. Hanoi, Vietnam, Oct 30 - Nov 2, 2016. Hanoi: Construction Publishing House, 2016. ISBN 978-604-82-1993-2. pp. 120-126 (in English)

DEPARTMENT OF BUILDING TECHNOLOGY

Head of Department

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Building Technology and Management
Building Economy (English)
Building Technology (English)
Technology of Construction Processes 1,2,3
Building Realization
Construction Economics
Environmental Protection
Occupational Safety and Health During the Construction Processes Realization
Technological Project
Excursion (Bachelor degree)
Professional Training (bachelor degree)
Bachelor Thesis
State exam (bachelor degree)
Quality Management in Civil Engineering (English)
Facility Management (English)
Financial Management (English)
Building Planning and Realization (English)
Technology of Building Renovation (English)
Building Site Management (English)
Facility Management in Construction
Pre-Construction Design
Modelling of Construction Processes
Technology of Building Renovation 1
Application of Information Technology in Pre-Construction Design
Financial Management
Professional Training (Master's degree)
Building Site Management
Excursion (Master's degree)
Quality Management in Construction
Thesis (Master's degree)

Environmental Management System
Occupational Safety and Health Management for Buildings
Technological Project 1,2
Forensic Activities
State Exam (Master's degree)
Costs and Prices in the Building Industry

Obligatory elective subjects

Information Technology in Building Technology
Manager in Construction
Civil Engineering in Practice
Technology of Finished Processes
Building Pathology
Non-Destructive Testing
Technology of Building Renovation 2
Technological Processes in Technical Facilities
Technology of Historical Buildings
Ethics of an Undertaking

Recommended subject

Building Information Modelling

1.2 Postgraduate courses

Building Technology
Dissertation Project 1, 2, 3, 4, 5, 6, 7
Scientific and Publication Activities 1, 2, 3, 4, 5
Internship abroad
Dissertation Exam
Dissertation Work

2. THESES

2.1 Bachelor theses

There were 73 works

2.2 Graduate theses

ADAMEC, F.: Multifunctional Building on Fedinova Street, Bratislava.

Supervisor : PETRO, M.

ÁLLÓ, I.: RUBICON Residential Houses in Puchov.

Supervisor : HULÍNOVÁ, Z.

ANDROVICS, A.: Identical Residential Buildings - Panonský Háj.

Supervisor : JANKOVICHOVÁ, E.

BALOGH, L.: Residential Complex of Apartment Buildings Set II. - Phase I, Nové Zámky.

Supervisor : JANKOVICHOVÁ, E.

BARCZI, R.: Multifunctional Building on Dunajska Street, Bratislava.

Supervisor : JANKOVICHOVÁ, E.

BELÁNIOVÁ, B.: Selected Parts of Construction-Technological Preparation for unclear building: The Wooden Administrative Buildings in Martin.

Supervisor : ANTOŠOVÁ, N.

BIKSADSKÝ, T.: Using a Multidimensional Approach for the Reconstruction of the Faculty of Civil Engineering STU Bratislava.

Supervisor : FUNTÍK, T.

BISKUPIČ, L.: Use of a Multidimensional Approach for the Reconstruction of the Faculty of Civil Engineering STU Bratislava.

Supervisor : FUNTÍK, T.

BOŠKO, M.: Selected Parts of Construction-Technological Preparation for unclear building: Multifunctional Building in Bratislava.

Supervisor: JURÍČEK, I.

BUGÁR, L.: Hurbanovo Multifunctional Center.

Supervisor : HULÍNOVÁ, Z.

CSEHOVÁ, M.: Multifunctional Center, Staromestská Office, Bratislava.

Supervisor: SOMOROVÁ, V.

ČAČKO, A.: Fresh Market.

Supervisor: OROSI, P.

ČENDULA, M.: Hotel, Poprad.

Supervisor: SZALAYOVÁ, S.

DRÁBOVÁ, Z.: Rača Tower Multifunctional Apartment Building.

Supervisor: PETRO, M.

FUSATÁ, L.: Building Technology Project, Capajevova Residential Dwelling, Bratislava-Petržalka

Supervisor: GAŠPARÍK, J.

GAJDOŠ, J.: Selected Parts of Construction and Technological Preparation.

Supervisor: JURÍČEK, I.

GALKO, M.: Multifunctional Apartment House in the City-Center.

Supervisor: JANKOVICHOVÁ, E.

GALETA, L.: HIPO Arena Samorin - Riding Hall and Club Stables.

Supervisor: CHAMULOVÁ, B.

HEGYIOVÁ, A.: SYLEX Construction-Operational Area, Bratislava.

Supervisor: SOMOROVÁ, V.

HERINEKOVÁ, S.: PANORAMA CITY II Administrative Building

Supervisor: ĎUBEK, M.

HLUBOCKÁ, Z.: Selected Parts of Construction and Technological Preparation for a Specified Construction.

Supervisor: JURÍČEK, I.

HRIC, J.: Production Storage Hall.

Supervisor: MATÚŠEK, R.

CHOVANCOVÁ, M.: Hotel Borec, Bratislava.

Supervisor: MAKÝŠ, P.

JANDURA, R.: RINZLE Multifunctional Building.

Supervisor: PETRO, M.

JÁNOŠOVÁ, B.: Selected Parts of a Building and Technological Preparation the Back Build PARK ANIČKA Residential Complex

Supervisor: CHAMULOVÁ, B.

JONIS, T.: Rental Apartments, Čadca.

Supervisor: SZALAYOVÁ, S.

JURÁŠEK, F.: Recovery Realization of Fermentation Room at the Stein Brewery.

Supervisor: MAKÝŠ, O.

KAJANOVÁ, M.: Implementation od Recovery of Castle in Bernolákovo.

Supervisor: MAKÝŠ, O.

KALNOVIČ, R.: Use of Multi-Dimensional Approach in the Reconstruction of the Faculty of Civil Engineering.

Supervisor: FUNTÍK, T.

KAMENSKÝ, M.: Preservation of the Revište Castle - Preparation for Implementation.

Supervisor: MAKÝŠ, O.

KAPRÁL, P.: Ensemble of Building Objects for the Jantár Apartment Buildings.

Supervisor: ANTOŠOVÁ, N.

KASPEROVÁ, N.: Selected Parts of the Building and Technological preparation for Staromestská Offices, Bratislava.

Supervisor: JURÍČEK, I.

KISS, D.: Residential Complex.

Supervisor: SZALAYOVÁ, S.

KOBETIČOVÁ, D.: Multifunctional Building, Nové Zámky.
Supervisor: PROKOPČÁKOVÁ, K.

KOLLÁRIKOVÁ, T.: Construction Technology Project, TATRA RESIDENCE
Multifunctional Building Complex, Bratislava, phase 1, SO 01 and SO 02.
Supervisor: HULÍNOVÁ, Z.

KOTRÍKOVÁ, B.: DAEJUNG Industrial Area, Nová Dubnica.
Supervisor: ĎUBEK, M.

KOTULIAKOVÁ, M.: Dúbravka Apartment Complex.
Supervisor: GAŠPARÍK, J.

KOVÁCS, G.: Apartment Building.
Supervisor: SZALAYOVÁ, S.

KOVÁCSOVÁ, S.: RUSTAVELIHO Multifunctional Building, Bratislava-Rača.
Supervisor: GAŠPARÍK, J.

KRALOVIČOVÁ, V.: Implementation of Recovery of Mansion in Malinovo.
Supervisor: MAKÝŠ, O.

KRISTIN, M.: Selected Parts of the Building-Technological Preparation of
a Building: Residential House on Vlárská street
Supervisor: BRIATKA, P.

KUSTRA, L.: Parking Garage
Supervisor: MATÚŠEK, R.

KYSEL, J.: Regenerative Boiler
Supervisor: ANTOŠOVÁ, N.

LAJČÁKOVÁ, M.: Residential Machnáč Complex, Bratislava.
Supervisor: JURÍČEK, I.

LAMI, J.: Selected parts of the Building - Technological Preparation of the
Stará Vajnorská Logistics Centre, Bratislava.
Supervisor: CHAMULOVÁ, B.

LAVIČKA, M.: Multifunctional Building on STARÉ GRUNTY.
Supervisor: ĎUBEK, M.

MANÓ, G.: Selected Parts of the Building - Technological Preparation of the
Gala Rezidencia, Galanta.
Supervisor: GAŠPARÍK, J.

MAZÁŇ, J.: Residential Dwelling: a 3D model.
Supervisor: MATÚŠEK, R.

MESTICKÁ, K.: Swimming Pool, Bratislava – Petržalka.
Supervisor: ĎUBEK, M.

MIKLA, B.: Residential Dwelling.
Supervisor: SZALAYOVÁ, S.

MIKLOVIČOVÁ, J.: Arboria Trnava Residential Complex, Apartment Building B 02.
Supervisor: PETRO, M.

MINÁRIK, D.: Selected Parts of a Building - Technological Preparation of
Safran Garden Multifunctional Building.
Supervisor: BRIATKA, P.

MOJŽIŠOVÁ, A.: Na Vrátkach Residentia Building, Bratislava.
Supervisor: PROKOPČÁKOVÁ, K.

MORAVČÍKOVÁ, A.: Pajštúnska Multifunctional Building.
Supervisor: GAŠPARÍK, J.

NOVOTNÝ, D.: Selected Parts of a Building - Technological Preparation of
Račanov, apartment buildings SO 01 a SO 02
Supervisor: ANTOŠOVÁ, N.

OKKEI, P.: Residential House.
Supervisor: BOŽÍK, M.

ONDREJKA, M.: Selected Parts of a Building - Technological Preparation of
Dunajské Predmestie Multifunctional Building – 1st stage.
Supervisor: CHAMULOVÁ, B.

PASKALEVA, I.: Multifunctional Building.
Supervisor: PETRO, M.

PITELOVÁ, F.: CASCA Administrative Building, Bratislava.
Supervisor: SOMOROVÁ, V.

POLIAKOVÁ, M.: REZIDENCIA HRON Residential Complex.
Supervisor: PROKOPČÁKOVÁ, K.

PRIBULA, T.: Selected Parts of Construction and Technological Preparation for
the Construction of STEIN 2 Housing Complex - Stage 1, Bratislava.
Supervisor: JURÍČEK, I.

PROKOPOVÁ, S.: CASSOVAR Residence.
Supervisor: ĎUBEK, M.

RAGAN, M.: Residential TRI VODY Buildings, Malinovo.
Supervisor: SOMOROVÁ, V.

ROSÍKOVÁ, D.: Residence Tower, Ružinov, Bratislava
Supervisor: MAKÝŠ, P.

SLOVÁČIK, A.: Use of Multi-Dimensional Approach in the Reconstruction of
the Faculty of Civil Engineering.
Supervisor: FUNTÍK, T.

SPIŠIAK, J.: Dúbravka Apartment Buildings - 1st Stage.
Supervisor: JANKOVICHOVÁ, E.

ŠRANKOVÁ, L.: SLNEČNICE JUŽNÉ MESTO Apartment Buildings, Zone C2”,
2nd stage.
Supervisor: CHAMULOVÁ, B.

ŠROBA, J.: Apartment building.
Supervisor: BOŽÍK, M.

TARČÁK, L.: Areal Omnia 2000.
Supervisor: BRIATKA, P.

TOLNAY, M.: PRI MÝTE Apartment building, Bratislava.
Supervisor: SOMOROVÁ, V.

TOMANOVÁ, E.: GAGARINOVA Administrative Building, Bratislava.
Supervisor: SOMOROVÁ, V.

TÓTH, T.: Residential building BD3, BD4 - Triangel, Chorvátsky Grob.
Supervisor: PROKOPČÁKOVÁ, K.

ŽUPA, S.: LODGE Residential House.
Supervisor: ANTOŠOVÁ, N.

2.3 Doctoral theses

PAULOVÍČOVÁ, L.: Multicriteria Optimization of Mechanized Earthwork Processes
Supervisor: GAŠPARÍK, J.

CÚCIKOVÁ, Z.: Assessment of Building Maintenance Using Facility Management Application
Supervisor: SOMOROVÁ, V.

IVANKO, M.: Choice of Technology for Waterproofing of Buildings
Supervisor: BOŽÍK, M.

3. RESEARCH

3.1 Research projects

On-line Quality Assurance of Study Programmes
(2014-2016, GAŠPARÍK, J.) Project EU-TEMPUS 543727-TEMPUS-1-2013-1-IT-TEMPUS-SMGR – EQUASP, Tempus

Best Practices for the Installation of Ceramic, Glass and Stone
(2014-2016, GAŠPARÍK, J.): Project Leonardo – BESTILE: Tiles. LLP LdV Transfer of Innovation

TAP - Transforming Assessment Practices in Large Enrollment, First Year of Education
(2016-2019, GAŠPARÍK, J.), ERASMUS+ KA2 573738 – EPP-1-2016-1-PS-EPPKA2-CBHE-SP

Documentation for the Quality Assurance of Study Programmes
(2011-2016, JANKOVICHOVÁ, E.): Project 517340-TEMPUS-1-2011-1-IT-SMGR, DOQUP.

MIND - Management - Innovation -Development
(2015-2017, JANKOVICHOVÁ, E.): Project 561539-EPP-1-2015-1-ES-EPPKA2-CBHE-JP, ERASMUS+ KA2,

3.2 International cooperation

Cooperating institutions

TU Vienna, Austria

TU Munich, Germany

CONTEC, Kralupy nad Vltavou, Czech Republic

Czech Technical University (ČVUT), Faculty of Building Engineering, Prague, Czech Republic

District Institute for the Preservation of Cultural Heritage, Brno, Czech Republic

ICCROM (International Centre of the Study of the Preservation and Restoration of Cultural Property), Rome, Italy

National Institute for the Preservation of a Cultural Heritage, Prague, Czech Republic

National Institute for the Preservation of a Cultural Heritage, Brno, Czech Republic

Technical University (VUT), Faculty of Building Engineering, Brno, Czech Republic

Department of Building Technology, Brno, Czech Republic

International Association on Automation and Robotics in Construction (IAARC), Bratislava, Slovakia

Membership in international professional organizations

GAŠPARÍK, J.: Board of Directors (BOD) member of International Association for Automation and Robotics in Construction (IAARC)

GAŠPARÍK, J.: General Secretary of International Association for Automation and Robotics in Construction (IAARC)

MAKÝŠ, O.: International Council on Monuments and Sites - Slovak branch, Bratislava, SK.

MAKÝŠ, O.: Society for the Technology of the Protection of Monuments, Prague, CZ.

4. PUBLICATIONS

Books

BOŽÍK, M. - BOŽÍKOVÁ, J.: Design and Technology of Engineering Networks Construction : Water Supplies and Sewerage Systems. 1. ed. Brno : Tribun EU, 2016. 132 pp. ISBN 978-80-263-1126-3 (in Slovak)

BRIATKA, P. - MAKÝŠ, P.: (Self)curing of Concrete. 1. ed. Prešov : D.A.H., 2016. 72 pp. ISBN 978-80-89682-11-9 (in Slovak)

BRIATKA, P. - OLŠOVÁ, J.: Hidden Reserves of Companies ...and Their Use. 1. ed. Prešov : D.A.H., 2016. 86 pp. ISBN 978-80-89682-12-6 (in Slovak)

GAŠPARÍK, J. - GAŠPARÍK, M.: Quality Management System : According to STN EN ISO 9001:2016. 1. ed. Brno : Tribun EU, 2016. 110 pp. ISBN 978-80-263-1125-6 (in Slovak)

GAŠPARÍK, J.- GAŠPARÍK, M.: Quality Management in Organizations. 1. ed. Brno : Tribun EU, 2016. 128 pp. ISBN 978-80-263-1136-2 (in English)

CHAMULOVÁ, B.: Scheduling Incorporating Project Priorities and Changes. 1. ed. Brno : Tribun EU, 2016. 65 pp. ISBN 978-80-263-1148-5 (in English)

IŠTVANOVÁ, I.- BRIATKA, P.- GAŠPARÍK, J.: Striking of Concrete Structures - Development and Determination of Actual Strength. 1. ed. Brno : Tribun EU, 2016. 166 pp. ISBN 978-80-263-1071-6 (in Slovak)

JANKOVICHOVÁ, E.- CHODASOVÁ, Z. - ELLINGEROVÁ, H. - ĎUBEK, S. [Hajduchová, S.]. Construction Economics I. 1. ed. Brno : Tribun EU, 2016. 165 pp. ISBN 978-80-263-1129-4 (in Slovak)

JANKOVICHOVÁ, E.: Business Ethics in Construction Industry. 1. ed. Brno : Tribun EU, 2016. 95 pp. ISBN 978-80-263-1146-1 (in English)

MAKÝŠ, O.- NÉMETH, A.: Military Construction Engineering of Bastion Fortresses in the Late 19th Century. 1. ed. Pezinok : Renesans, 2016. 318 pp. ISBN 978-80-89402-87-8 (in Slovak)

MAKÝŠ, O.- HRČKA, M.: Education in Traditional Handcrafts. 1. ed. Pezinok : Renesans, 2016. 60 pp. ISBN 978-80-89402-88-5 (in Slovak)

MAKÝŠ, P. - ŠLÚCH, M.: Quality Management System According to ISO 9001:2015 and Its Internal Audits. 1. ed. Žilina : M KREO, 2016. 96 pp. ISBN 987-80-971299-1-0 (in Slovak)

MEČIAR, A. - BOŽÍK, M. - IVANKO, M.: Fabrication Technology of Selected Types of Foil Roof Coverings. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016. 132 pp. ISBN 978-80-227-4646-5 (in Slovak)

PAULOVÍČOVÁ, L.: Protection of Excavations. 1. ed. Brno : Tribun EU, 2016. 69 pp. ISBN 978-80-263-1143-0 (in Slovak)

PAULOVÍČOVÁ, L.: Mechanized Earthwork Processes I. : Technology of excavation. 1. ed. Brno : Tribun EU, 2016. 66 pp. ISBN 978-80-263-1135-5 (in Slovak)

SOMOROVÁ, V.: Facility Management. Effective Management of Supporting Services. 1. ed. Brno : Tribun EU, 2016. 106 pp. ISBN 978-80-263-1106-5 (in English)

SZALAYOVÁ, S.: Environmental Management in Constructions in Accordance with Current Legislation. 1. ed. Brno : Tribun EU, 2016. CD-ROM, 74 pp. ISBN 978-80-263-1115-7 (in Slovak)

ŠMOTLÁK, M.- CHAMULOVÁ, B.: Modelling Technological Gaps After Wet Processes. 1. ed. Brno : Tribun EU, 2016. 83 pp. ISBN 978-80-263-1149-2 (in Slovak)

Textbooks

BAŽÍK, P.: Information Technologies in Construction Technology 1st part. 1. ed. Brno : Tribun EU, 2016. CD-ROM, 95 pp. ISBN 978-80-263-1101-0 (in Slovak)

BRIATKA, P.- OLŠOVÁ, J.: Technology of Building Processes II : Guidelines for Exercises - Part. 1. 1. ed. Brno : Tribun EU, 2016. CD-ROM, 94 pp. ISBN 978-80-263-1124-9 (in Slovak)

PROKOPČÁKOVÁ, K. - GAŠPARÍK, J.: Implementation of Earth Processes : Selected Parts. 1. ed. Brno : Tribun EU, 2016. CD-ROM, 71 pp. ISBN 978-80-263-1139-3 (in Slovak)

SZALAYOVÁ, S.: Management of Construction Waste and Possibilities for Its Recycling. 1. ed. Brno : Tribun EU, 2016. CD-ROM, 117 pp. ISBN 978-80-263-1121-8 (in Slovak)

Journals

ANTOŠOVÁ, N. - MINAROVÍČOVÁ, K.: The Methodology for the Selection of Technologies for the Removal of Microorganisms from ETICS. In : Applied Mechanics and Materials : Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 200-205. ISSN 1660-9336 (in English)

ANTOŠOVÁ, N. - PETRO, M.: Verification of the Method for Assessing the Severity of the Condition ETICS with Biocorrosion. In : Czech Journal of Civil Engineering. Vol. 2, No. 1 (2016), online, pp. 7-13. ISSN 2336-7148 (in English)

ANTOŠOVÁ, N. - STETULIČ, PP.: The Effect of a Facade's Aesthetics on Technological Preparation for Construction. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), pp. 8-19. ISSN 2336-7148 (in Slovak)

ANTOŠOVÁ, N.: An Investigation of the Insulating Structures subject to a Microbiological Attack. In : Almanach znalca. Vol. 16, No. 2 (2016), CD-ROM, pp. 5-8. ISSN 1336-3174 (in Slovak)

ANTOŠOVÁ, N. - ĎUBEK, M. - PETRO, M.: Insulation Faults and Process of Fault Solution at the Stage of Durability the ETICS. In : Interdisciplinarity in Theory and Practice. No. 11 (2016), online, pp. 26-29. ISSN 2344-2409 (in English)

ANTOŠOVÁ, N. - BELÁNIOVÁ, B.: Diagnosis and Renewal of ETICS with Biocorrosion. In : Almanach znalca. Vol. 16, No. 3 (2016), CD-ROM, pp. 21-25. ISSN 1336-3174 (in Slovak)

BISTÁK, A. - HULÍNOVÁ, Z.: The Use of Helicopters in the Construction of Buildings. In : Eurostav. Vol. 22, No. 3 (2016), pp. 40-42. ISSN 1335-1249 (in Slovak)

BISTÁK, A. - HULÍNOVÁ, Z.: Modelling Construction Processes Carried Out by Helicopters. In : Konstrukce. Vol. 15, No. 4 (2016), pp. 35-38. ISSN 1213-8762 (print) (in Slovak)

BISTÁK, A.: Helicopters and the First Beginnings of Their Use in the Construction of Ropeways. In : LAVEX info. Vol. 43, No. 2 (2016), pp. 19-20. ISSN 1336-1953 (in Slovak)

BOŽÍK, M. - IVANKO, M. - MEČIAR, A. - PETRO, M.: Waterproofing Membranes Based on mPVC and the Quality of Their Joints. In : Interdisciplinarity in Theory and Practice. No. 11 (2016), online, pp. 148-152. ISSN 2344-2409 (in English)

- BRIATKA, P. - OLŠOVÁ, J. - MAKÝŠ, P.: Dilatations and Joints in Structures and Floors. In : *Obklady, dlažba & sanita*. Vol. 9, No. 1 (2016), pp. 26-29. ISSN 1802-9035 (in Slovak)
- BRIATKA, P. - ĎUBEK, M.: What is the Progress in the Management of Fiber Distribution in SFRC? In : *Materiály pro stavbu*. Vol. 22, No. 4 (2016), pp. 35-37. ISSN 1213-0311 (in Slovak)
- BRIATKA, P. - MAKÝŠ, P.: Floors and Their Safety. In : *Materiály pro stavbu*. Vol. 22, No. 6 (2016), pp. 52-53. ISSN 1213-0311 (in Slovak)
- BRIATKA, P. - MAKÝŠ, P. - BRIATKA, R. Effect of Plasticizers on the Consistency of Concrete Over Time. In : *Materiály pro stavbu*. Vol. 22, No. 7 (2016), pp. 22-25. ISSN 1213-0311 (in Slovak)
- BRIATKA, P. - MAKÝŠ, P. - OLŠOVÁ, J. - RECHTORÍK, J.: Attempted Imports of Plasticizers. Do They Work? In : *Materiály pro stavbu*. Vol. 22, No. 8 (2016), pp. 40-42. ISSN 1213-0311 (in Slovak)
- CÚCIKOVÁ, Z. - HANKO, M.: Support Tools for the Building Maintenance. In : *Journal of Sustainable Construction Materials and Technologies*. Vol. 1, no. 2 (2016), online, pp. 64-67. ISSN 2458-973X (in English)
- ĎUBEK, M. - MAKÝŠ, P. - PETRO, M. - BRIATKA, P.: Study of Distractions the Fibers in SFRC. In : *Interdisciplinarity in Theory and Practice*. No. 11 (2016), online, pp. 49-53. ISSN 2344-2409 (in English)
- ĎUBEK, M.: Rating of Fibers in Steel Fiber Reinforced Concrete. In : *Czech Journal of Civil Engineering*. Vol. 2, No. 2 (2016), pp. 36-41. ISSN 2336-7148 (in English)
- ĎUBEK, M.: Software Analysis of the Detection of Fibers in Steel Fiber Reinforced Concrete - Sectional. In : *Mladá veda*. Vol. 4, no. 2 (2016), online, pp. 167-174. ISSN 1339-3189 (in Slovak)
- ĎUBEK, M.: Meaning of a Schedule in the Quality of a Construction and the Materials for Its Creation. In : *Almanach znalca*. Vol. 16, No. 2 (2016), CD-ROM, pp. 24-28. ISSN 1336-3174 (in Slovak)
- ĎUBEK, S. [Hajduchová, Silvia] - ĎUBEK, M.: The Unpredictable Cost Part of Construction. In : *Czech Journal of Civil Engineering*. Vol. 2, No. 2 (2016), pp. 42-47. ISSN 2336-7148 (in English)
- ELLINGEROVÁ, H.: Invoicing in the construction Industry. In : *Eurostav*. Vol. 22, No. 1-2 (2016), pp. 53-55. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: The Wage Policy and Remuneration in the Construction Industry. In : *Eurostav*. Vol. 22, No. 3 (2016), pp. 62-63. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: The New Trends in Public Procurement Law. In : *Eurostav*. Vol. 22, No. 4 (2016), pp. 78-79. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: Conclusion of Amendments to Agreements. In : *Eurostav*. Vol. 22, No. 5 (2016), pp. 68-69. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: Algorithms of Calculated Prices. In : *Eurostav*. Vol. 22, No. 7-8 (2016), pp. 68-69. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: Algorithms for Calculated Profits. In : *Eurostav*. Vol. 22, No. 9 (2016), pp. 62-63. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: Cost Overhead as a Part of the Price. In : *Eurostav*. Vol. 22, No. 10 (2016), pp. 74-75. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: The Use of Operational Calculations in Practice. In : *Eurostav*. Vol. 22, No. 11 (2016), pp. 64-65. ISSN 1335-1249 (in Slovak)
- ELLINGEROVÁ, H.: Relevance of Making the Calculations in a Capital Project. In : *Eurostav*. Vol. 22, No. 12 (2016), pp. 68-69. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T. - ĎUBEK, M. - ERDÉLYI, J.: Geometric Tolerance Verification - Innovative Evaluation of Facade Surface Flatness Using TLS (Terrestrial Laser Scanning). In : *Applied Mechanics and Materials : Advanced Architectural Design and Construction*. Vol. 820, (2016), pp. 81-89. ISSN 1660-9336 (in English)
- FUNTÍK, T.: 4D Additive Manufacturing as a Tool for Construction in the Future. In : *Eurostav*. Vol. 22, No. 12 (2016), pp. 62-63. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T. - SLOBODNÍKOVÁ, Z.: The Educational Process in the Field of Energy Efficiency. In : *Eurostav*. Vol. 22, No. 12 (2016), pp. 40-41. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T. - LALÍKOVÁ, D.: 2nd Slovak BIM Conference : Theory versus Practice. In : *Eurostav*. Vol. 22, No. 11 (2016), pp. 62-63. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T.: Using BIM from the Perspective of Energy Efficiency. In : *Eurostav*. Vol. 22, No. 9 (2016), pp. 60-61. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T.: BIM Manager: New Position in the Construction Industry. In : *Eurostav*. Vol. 22, No. 5 (2016), pp. 66-67. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T.: Virtual Construction Using BIM Eliminates Risks to the Contractor. In : *Eurostav*. Vol. 22, No. 4 (2016), pp. 74-75. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T.: Open Data Exchange in BIM. In : *Eurostav*. Vol. 22, No. 3 (2016), pp. 60-61. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T.: State of Art of BIM Implementation. In : *Eurostav*. Vol. 22, No. 1-2 (2016), pp. 58-59. ISSN 1335-1249 (in Slovak)
- FUNTÍK, T. - ĎUBEK, M. - ERDÉLYI, J.: Checking Options of Making Facades with Modern Technology. In *Almanach znalca*. Vol. 16, No. 3 (2016), CD-ROM, pp. 26-30. ISSN 1336-3174 (in Slovak)
- GAŠPARIK, J. - SZALAYOVÁ, S. - HULÍNOVÁ, Z. - PAULOVÍČOVÁ, L. - LACO, V.: Optimizing of Mechanized Soil Processes. In : *Interdisciplinarity in Theory and Practice*. No. 11 (2016), online, pp. 108-112. ISSN 2344-2409 (in English)

- HAJDUCHOVÁ, S. [Hajduchová, S.]: Optimal Selection of Proposed building Construction Site Equipment. In : Mladá veda. Vol. 4, No. 1 (2016), online, pp. 104-113. ISSN 1339-3189 (in Slovak)
- HULÍNOVÁ, Z. - FUNTÍK, T. - MADOVÁ, J. - BISTÁK, A.: BIM-based Safety Management Process in the Construction Industry. In : Interdisciplinarity in Theory and Practice. No. 11 (2016), online, pp. 142-147. ISSN 2344-2409 (in English)
- CHAMULOVÁ, B.: Flat Roof Monitoring and Control. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), online, pp. 48-53. ISSN 2336-7148 (in English)
- JANKOVICHOVÁ, E. - NGUYEN TIEN, M. - HAJDUCHOVÁ, S.: Construction Site Equipment Using the Alternative Energy Sources. In : Interdisciplinarity in Theory and Practice. No. 11 (2016), online, pp. 120-124. ISSN 2344-2409 (in English)
- JANKOVICHOVÁ, E.: Variants in the Construction of Foundations in a Residential House. In : Almanach znalca. Vol. 16, No. 1 (2016), CD-ROM, pp. 21-25. ISSN 1336-3174 (in Slovak)
- JANKOVICHOVÁ, E.: Corporate Social Responsibility for Big, Small and Medium-Sized Construction Enterprises. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), pp. 54-59. ISSN 2336-7148 (in English)
- JURÍČEK, I. - FILLO, L.: Minimisation of Water Content in Concrete. In : Key Engineering Materials. Vol. 691, (2016), pp. 230-238. ISSN 1013-9826 (in English)
- MADOVÁ, J. - HULÍNOVÁ, Z.: Investments in OHS during Construction and Their Effectiveness. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), pp. 99-104. ISSN 2336-7148 (in English)
- MAKÝŠ, O.: Monument Research on the Old Fortress in Komárno. In : Monument revue. Vol. 5, No. 1 (2016), pp. 40-46. ISSN 1338-807X (in Slovak)
- MAKÝŠ, O.: Support for Renewing a Built Heritage Through the Grant program of MK SR. In : MUZEOLÓGIA a kultúrne dedičstvo. Vol. 4, No. 2 (2016), pp. 149-156. ISSN 1339-2204 (in Slovak)
- MAKÝŠ, O. - ŠROBÁROVÁ, D.: Evaluation of Ventilation Technologies in Wet Masonry. In : Interdisciplinarity in Theory and Practice. No. 11 (2016), online, pp. 212-217. ISSN 2344-2409 (in English)
- MAKÝŠ, O.: Realising Bridges for the Needs of the Imperium Romanum. In : Obnova.sk. Vol. 16, No. 41 (2016), online, [3] pp. ISSN 1336-3603 (in Slovak)
- MAKÝŠ, O.: The Issue of Roman Wall Systems. In : Obnova.sk. Vol. 16, No. 18 (2016), online, [4] pp. ISSN 1336-3603 (in Slovak)
- MAKÝŠ, O.: Circumstance of the Games and Their Buildings in Rome. In : Obnova.sk. Vol. 16, No. 26 (2016), online, [5] pp. ISSN 1336-3603 (in Slovak)
- MAKÝŠ, O.: Brownfields. In : Obnova.sk. Vol. 16, No. 5 (2016), online, [4] pp. ISSN 1336-3603 (in Slovak)
- MAKÝŠ, O.: In Komárno, There was Complex Monumental Research Undertaken on the Central Fortress - the Part: Old Fortress. In : Obnova.sk. Vol. 16, No. 9 (2016), online, pp. [4]. ISSN 1336-3603 (in Slovak)
- MINAROVIČOVÁ, K. - ANTOŠOVÁ, N.: Sustainability of ETICS Maintenance Technologies. In : Applied Mechanics and Materials : Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 194-199. ISSN 1660-9336 (in English)
- NAGY, J. - ĎUBEK, M.: Wetting of Ceiling and Its Identification by Thermal Vision. In : Almanach znalca. Vol. 16, No. 3 (2016), CD-ROM, pp. 3-5. ISSN 1336-3174 (in Slovak)
- NGUYEN TIEN, M.: Choosing the Technology of Renewable Energy to Meet Energy Consumption with Requirements for 2021. In : Almanach znalca. Vol. 16, No. 1 (2016), pp. 26-30. ISSN 1336-3174 (in Slovak)
- NGUYEN TIEN, M.: Technological Proposal for Implementation of Renewable Sources to meet the Energy Consumption in Residential Buildings for 2021. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), online, pp. 105-109. ISSN 2336-7148 (in English)
- OLŠOVÁ, J. - BRIATKA, P. - GAŠPARÍK, J. - ŠTEFUNKOVÁ, Z.: Assessment of Effect of Reinforcing Glass-Fiber Mesh Inserted in Between Binder and Wearing Course. In : Interdisciplinarity in Theory and Practice. No. 11 (2016), online, pp. 132-135. ISSN 2344-2409 (in English)
- PASIAR, M. - FUNTÍK, T.: Cultural Heritage - Listed Building Renovation Using BIM. In : Eurostav. Vol. 22, No. 7-8 (2016), pp. 36-38. ISSN 1335-1249 (in Slovak)
- PAULOVICHOVÁ, L.: The Optimization of Mechanized Earthwork Processes. In : Applied Mechanics and Materials : Advanced Architectural Design and Construction. Vol. 820, (2016), pp. 96-101. ISSN 1660-9336 (in English)
- PAULOVICHOVÁ, L.: Multicriteria Optimization of Earthwork Processes Using the Method of Least Squares. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), online, pp. 120-125. ISSN 2336-7148 (in English)
- PETRO, M. - ANTOŠOVÁ, N.: Verification of Selection Methodology for ETICS Remediation Measures. In : Czech Journal of Civil Engineering. Vol. 2, No. 1 (2016), online, pp. 83-89. ISSN 2336-7148 (in English)
- PETRO, M. - GREGOROVÁ, V.: Determination the Cause of Damage to Exterior Paving Placed on the Terrace of an Apartment Building. In : Almanach znalca. Vol. 16, No. 2 (2016), CD-ROM, pp. 9-13. ISSN 1336-3174 (in Slovak)
- PETRO, M.: The Cause of ETICS Failures with Signs of Cracks. In : Almanach znalca. Vol. 16, No. 2 (2016), CD-ROM, pp. 21-23. ISSN 1336-3174 (in Slovak)
- PROKOPČÁKOVÁ, K. - LEDEREROVÁ, M.: The Impact of the Implementation of a Concrete Structure on the Environment. In : Czech Journal of Civil Engineering. Vol. 2, No. 1 (2016), online, pp. 90-94. ISSN 2336-7148 (in Slovak)

PROKOPČÁKOVÁ, K. - HULÍNOVÁ, Z. - SZALAYOVÁ, S. - PROKOPČÁK, L.: Designing of Mechanized Building Processes and Environment and Safety at Work. In : Interdisciplinarity in Theory and Practice. No. 11 (2016), online, pp. 206-211. ISSN 2344-2409 (in English)

PROKOPČÁKOVÁ, K.: Mechanized Building Processes and Safety at Work. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), pp. 151-156. ISSN 2336-7148 (in English)

PROKOPČÁKOVÁ, K. - LEDEREROVÁ, M.: Utilization of Recycled Material. In : Czech Journal of Civil Engineering. Vol. 2, No. 2 (2016), pp. 93-98. ISSN 2336-7148 (in Slovak)

PROKOPČÁKOVÁ, K.: Wet Building Processes Failures. In : Almanach znalca. Vol. 16, No. 3 (2016), CD-ROM, pp. 6-8. ISSN 1336-3174 (in Slovak)

RYPÁK, PP. - BRIATKA, P. - GAŠPARÍK, J. - OLŠOVÁ, J.: Can we Simplify the Measurement of the Moisture Content of CBGM on Site? In : Materiály pro stavbu. Vol. 22, No. 5 (2016), pp. 22-23. ISSN 1213-0311 (in Slovak)

RYPÁK, PP. - BRIATKA, P. - GAŠPARÍK, J. - OLŠOVÁ, J.: Determination of the Moisture Content in CBGM using a Ventilated Oven and a Microwave Oven? In : Inžinierske stavby. Vol. 64, No. 3 (2016), pp. 48-49. ISSN 1335-0846 (in Slovak)

SOMOROVÁ, V.: Facility Management in a Spatial Planning Organization. In : TZB-info.cz. Vol. 18, No. 19 (2016), online, [4] pp. ISSN 1801-4399 (in Slovak)

SOMOROVÁ, V.: Facility management - Optimisation of Sustainable Building Use. In : Eurostav. Vol. 22, No. 5 (2016), pp. 44-45. ISSN 1335-1249 (in Slovak)

SOMOROVÁ, V.: Outsourcing – A Tender from the Client's Perspective. In : TZB-info.cz. Vol. 18, No. 47 (2016), online, [4] pp. ISSN 1801-4399 (in Slovak)

ŠČEPKA, M.: The Present Construction Technologies for the Construction of Low Cost Residential Buildings Abroad. In : Almanach znalca. Vol. 16, No. 1 (2016), CD-ROM, pp. 31-33. ISSN 1336-3174 (in Slovak)

Conference Proceedings

ANTOŠOVÁ, N.: Effective Detection of Technical Condition ETICS with the Microbiological Attack. In Vykurovanie (Heating) 2016 : proceedings from 24th international scientific conference. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 441-448. ISBN 978-80-89216-87-1 (in Slovak)

ANTOŠOVÁ, N. - ĎUBEK, M. - PETRO, M.: Model Example - Optimization of Choice for ETICS Repair. In ESaT 2016 : proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)

ANTOŠOVÁ, N. - BELÁNIOVÁ, B.: Diagnosing ETCS subject to a Biological Attack. In Complex housing reconstruction 2016: Electronic Proceedings. Podbanské, SR, 23. - 25. 11. 2016. 1. ed. Bratislava : Združenie pre podporu obnovy bytových domov, 2016, pp. 47-50. ISBN 978-80-972493-1-1 (in Slovak)

ANTOŠOVÁ, N. - MINAROVÍČOVÁ, K.: Investigation of Technical Condition of External Thermal Insulation Composite System with Microbial Attack. In People, buildings and environment 2016 : conference proceedings. Sept 29 - Oct 1, 2016, Luhačovice, Czech Republic. 1. ed. Brno : Brno University of Technology, Faculty of Civil Engineering, 2016, online, pp. 212-220. ISSN 1805-6784 (in English)

ANTOŠOVÁ, N. - BELÁNIOVÁ, B.: Technology of Double Thermal Insulation as a Repair and Energetic Optimization of Existing Thermal Insulation Composite Systems. In Advanced Building Construction and Materials 2016 (ABCM 2016) : proceedings of a scientific conference with international participation. Dec 10, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava : VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 102-109. ISBN 978-80-248-4003-1 (in English)

ANTOŠOVÁ, N. - MINAROVÍČOVÁ, K.: Interaction between Pathology and Technology of Buildings. In ATF 2016 : book of posters from 4th International Conference on Applied Technology. 15-17 Sept 2016, Leuven, Belgium. 1. ed. Leuven : The Katholieke Universiteit Leuven, 2016, CD-ROM, pp. 26. ISBN 9789086497973 (in English)

BAŽÍK, P.: The Issue of Preparation the Estimate by 5D BIM Methodology. In Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 242-247. ISBN 978-80-227-4645-8 (in Slovak)

BEDERKA, M.: Analysis of an Experiment for the Controlled Contraction of Technological Lags in Cement Screed. In Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 248-254. ISBN 978-80-227-4645-8 (in Slovak)

BISTÁK, A.: Helicopters and Their Function in Construction Technology. In Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 255-260. ISBN 978-80-227-4645-8 (in Slovak)

- BISTÁK, A. - HULÍNOVÁ, Z.: Pre-Construction Design of Aerial Work by Using Simulation Models. In MMK 2016. 7. International Masaryk conference for PhD. Students and young scientists: proceedings, 12 – 16 Dec 2016, Hradec Králové, Czech Republic. 1. ed. Hradec Králové : Magnanimitas, 2016, online, pp. 1732-1739. ISBN 978-80-87952-17-7 (in Slovak)
- BOŽÍK, M. - IVANKO, M. - MEČIAR, A. - PETRO, M.: Examination of Welds mPVC-Based Waterproofing Membrane. In ESaT 2016 : proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29f June - 1f July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)
- ĎUBEK, M. - MAKÝŠ, P. - PETRO, M. - BRIATKA, P.: Detection of Mass Concentration Fibers in the Fiber Reinforced Concrete. In ESaT 2016 : proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)
- ĎUBEK, S. [Hajduchová,S]:. Use of Multi-Criteria Methods during the Selection of Proposed Construction Site Equipment. In Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 261-267. ISBN 978-80-227-4645-8 (in Slovak)
- ERDÉLYI, J. - KYRINOVIČ, P. - LIPTÁK, I. - FUNTÍK, T.: Diagnostics of Aeration Tank of Wastewater Treatment Plant Using Terrestrial Laser Scanning. In SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 2. Informatics, Geoinformatics and Remote Sensing : conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed. Sofia : STEF 92 Technology, 2016, pp. 223-230. ISSN 1314-2704. ISBN 978-619-7105-59-9 (in English)
- FUNTÍK, T. - GAŠPARÍK, J.: Site Plan Development: Tower Crane Placement Based on Data Obtained from IFC File. In ISARC 2016 : proceedings of the 33rd International Symposium on Automation and Robotics in Construction and Mining. Auburn, Alabama, USA, July 18-21, 2016. International Association for Automation and Robotics in Construction (ISARC), 2016, pp. 33-37. ISBN 978-1-5108-2992-3 (in English)
- FUNTÍK, T. - ERDÉLYI, J. - ĎUBEK, M. - GAŠPARÍK, J.: Innovative Assessment of Selected Properties of Industrial Floors. In ISARC 2016 : proceedings of the 33rd International Symposium on Automation and Robotics in Construction and Mining. Auburn, Alabama, USA, July 18-21, 2016. International Association for Automation and Robotics in Construction (ISARC), 2016, pp. 93-100. ISBN 978-1-5108-2992-3 (in English)
- GAŠPARÍK, J. - SZALAYOVÁ, S. - HULÍNOVÁ, Z. - PAULOVIČOVÁ, L. - LACO, V.: Minimizing of Energy Consumption by Effective Proposal of Mechanized Soil Processes. In : ESaT 2016 : Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June - 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)
- HANKO, M.: Methodology for Increasing the of Efficiency Building Maintenance. In : Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. October 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 275-278. ISBN 978-80-227-4645-8 (in Slovak)
- HULÍNOVÁ, Z. - FUNTÍK, T. - MADOVÁ, J. - BISTÁK, A.: Risk Management System (RMS). In : ESaT 2016 : Proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June – 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)
- JANKOVICHOVÁ, E. - NGUYEN TIEN, M. - HAJDUCHOVÁ, S.: The Implementation of Alternative Energy Sources in the Design of Construction Equipment. In : ESaT 2016 : proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June – 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)
- JURIGOVÁ, M. - CHMÚRNÝ, I. - PETRO, M.: The Development of Windows with Vacuum Glazing. In : ATF 2016 : book of proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1. ed. Leuven : The Katholieke Universiteit Leuven, 2016, USB kľúč, pp. 187-190. ISBN 9789086497966 (in English)
- LACO, V.: Monitoring the Quality of a Ground Base by Applying Non-destructive Testing Methods. In : Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct. 2016, Bratislava. 1. ed. Bratislava : Slovak University of Technology in Bratislava, 2016, CD-ROM, pp. 279-286. ISBN 978-80-227-4645-8 (in Slovak)
- MADOVÁ, J.: Effectiveness of Investments Incurred for OHS. In : Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 287-292. ISBN 978-80-227-4645-8 (in Slovak)
- MAKÝŠ, O.: The Effect of Ventilation Technologies for Fighting Moisture on an Example of the Remediation of Baroque Masonry. In : Betonárske dni 2016 : zborník príspevkov. Bratislava, SR, 20. - 21. 10. 2016. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, pp. 449-454. ISBN 978-80-227-4622-9 (in Slovak)

MAKÝŠ, O. - ŠROBÁROVÁ, D.: Introduction of the Method of Sequential Steps for Restoring Architectural Monuments. In : ESaT 2016 : proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June – 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)

MAKÝŠ, O. - KORENKOVÁ, R. - KRUIŠINSKÝ, PP. - ŠROBÁROVÁ, D.: Diagnosis of Wooden Columns in the Area of the Open Air Museum at Havranok. In : Zborník príspevkov zo 40. vedeckej konferencie katedier a ústavov pozemných stavieb Slovenskej a Českej republiky : Pozemné stavby v intenciách doby. Oščadnica – Veľká Rača, SR, 19. - 21. 9. 2016. 1. ed. Žilina : ArchKru, 2016, CD ROM, pp. 91-99. ISBN 978-80-972576-0-6 (in Slovak)

NGUYEN TIEN, M.: Analysis of the Potential Uses of Renewable Energy Sources in Slovakia and Selected Countries. In : Juniorstav 2016 : 18. odborná konferencia doktorského studia. Brno, ČR, 28. 1. 2016. 1. ed. Brno : Vysoké učení technické v Brně, 2016, CD-ROM, [8] pp. ISBN 978-80-214-5311-1 (in Slovak)

NGUYEN TIEN, M.: Choosing the Right Renewable Energy Concept to Meet the Energy Consumption for the Design of Residential Buildings with Requirements for 2021. In : Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 293-298. ISBN 978-80-227-4645-8 (in Slovak)

OLŠOVÁ, J. - BRIATKA, PP. - GAŠPARÍK, J. - ŠTEFUNKOVÁ, Z.: Cohesion of Mesh Reinforced Binder- and Wearing Course. In : ESaT 2016 : proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June – 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)

PAULOVÍČOVÁ, L.: Multicriteria Optimization of Excavation. In : ATF 2016 : book of proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1. ed. Leuven : The Katholieke Universiteit Leuven, 2016, electronic, pp. 233-238. ISBN 9789086497966 (in English)

PETRO, M. - ANTOŠOVÁ, N. - NAGY, J.: Impact of the Selected Remediation Methods on the Lifetime of ETICS. In : People, Buildings and the Environment 2016 : conference proceedings. Sept 29 - Oct 1, 2016, Luhačovice, Czech Republic. 1. ed. Brno : Brno University of Technology, Faculty of Civil Engineering, 2016, online, pp. 271-278. ISSN 1805-6784 (in English)

PETRO, M.: Determining the Cause of Insulation Failure on Base Mineral Wool. In : Komplexná obnova bytových domov 2016. Zelená úsporám energie pri kvalitnej obnove : zborník prednášok. Podbanské, SR, 23. - 25. 11. 2016. 1. ed. Bratislava : Združenie pre podporu obnovy bytových domov, 2016, USB kľúč, pp. 91-96. ISBN 978-80-972493-1-1 (in Slovak)

PETRO, M.: Optimization of choice for ETICS repairs. In : Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 453-458. ISBN 978-80-89216-87-1 (in Slovak)

PIECKOVÁ, E. - GLOBANOVÁ, M. - ANTOŠOVÁ, N. - PETRO, M.: Mycological Analysis of the Facade of a Residential Building after a Complete Restoration. In : Komplexná obnova bytových domov 2016. Zelená úsporám energie pri kvalitnej obnove : zborník prednášok. Podbanské, SR, 23. - 25. 11. 2016. 1. ed. Bratislava : Združenie pre podporu obnovy bytových domov, 2016, USB kľúč, pp. 57-60. ISBN 978-80-972493-1-1 (in Slovak)

PROKOPČÁKOVÁ, K. - HULÍNOVÁ, Z. - SZALAYOVÁ, S. - PROKOPČÁK, L.: Environment and Mechanized Building Processes. In : ESaT 2016 : proceedings of the 2nd International Conference on Engineering Sciences and Technologies. Tatranské Matliare, Slovak Republic, 29 June – 1 July 2016. Košice : Technical University of Košice, Faculty of Civil Engineering, 2016, CD-ROM, [4] pp. ISBN 978-80-553-2564-4 (in English)

ŠIMKO, V. - BRIATKA, PP. - OLŠOVÁ, J.: Utilization of Crushed Aggregate in Ready-Mix Concrete. In : Výroba betónu 2016 : zborník príspevkov zo seminára. Štrbské Pleso, SR, 5. - 6. 10. 2016. 1. ed. Bratislava : Slovenská asociácia výrobcov transportbetónu, 2016, pp. 36-41. ISBN 978-80-89682-09-6 (in Slovak)

ŠROBÁROVÁ, D.: Nondestructive Investigation of the Effectiveness of Remediation of Historical Wooden Roof of St. Martin's Cathedral in Bratislava. In : Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26 Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 299-304. ISBN 978-80-227-4645-8 (in Slovak)

Other

SOMOROVÁ, Viera (ed.). Facility Management 2016. Outsourcing in Building Maintenance : Proceedings from 14th. International scientific conference at Štrbské Pleso, Slovakia. 6. - 7. Oct. 2016. 1. ed. Bratislava : SSTP, 2016. 115 pp. ISBN 978-80-89216-98-7 (in Slovak)

DEPARTMENT OF SANITARY AND ENVIRONMENTAL ENGINEERING

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Environmental Technology VHVS
Environmental Technology
Water Chemistry and Hydrobiology
Chemistry of Water, Soil, Air and Waste
Environmental Hygiene
Landscape Engineering
Infrastructure of Urban Regions
Landscape Engineering and Infrastructure of Urban Regions
Water Pollution Control
Sanitary Engineering Structures
Design and Execution of Water Management Structures
Water Supplies and Water Treatment
Public Utility Networks
Solid Waste Management
Public Utility Networks and Water Management Structures
Sewerage and Waste Water Treatment
In-Situ Training
Practical Training
Solid Waste Management
Urban Hygiene
Selected Water Supply and Water Treatment Chapters
Selected Sewerage and Waste Water Treatment Chapters
Spas and Mineral Waters
Special Excursion
Special Seminar
Realization of Sanitary Structures
Water Management
Automation of Engineering Works
Theory and Techniques of Air Protection
Final Thesis

Optional subjects

Pumping Stations
Industrial Water Management
Urban and Regional Planning
Rehabilitation of Old Waste Disposal Sites
Urban Hydrology
Operation and Maintenance of Sanitary
Engineering Structures

1.2 Postgraduate courses

Hydrochemistry and Hydrobiology
Water Pollution Control
Sanitary Engineering Structures
Water Supply Systems
Water Treatment for Drinking and Industrial Use
Balneology
Horizontal and Vertical Intake Structures
Waste Water Collection
Rehabilitation of Old Waste Disposal Sites
Protection and Utilization of Water Resources
Waste Water Treatment
Solid Waste Treatment

2. THESES

2.1 Bachelor theses

There were 7 works

2.2 Graduate theses

BALOGOVÁ, Z.: Utilization of Activated Carbon in Water Treatment
Supervisor: BARLOKOVÁ, D.

HANZLÍKOVÁ S.: The Recovery of Biodegradable Waste
Supervisor: GALBOVÁ, K.

HENČ, M: Design of the Water Supply for the Village of Dubovec
Supervisor: BOŽÍKOVÁ, J.

HLUBOCKÝ, M.: Extension of the Water Supply Network of the Village of Radošovce
Supervisor: BARLOKOVÁ, D.

JURÍK, T.: Assessment of the Water Supply of Selected Towns Connected to Rimavska Sobota's Water Duct System
Supervisor: BOŽÍKOVÁ, J.

KOREŇ, M.: Design of Recycling Center
Supervisor: HOLUBEC, M.

LUPTÁKOVÁ, N.: The Use of Biomass for Energy Purposes
Supervisor: ŠKULTÉTYOVÁ, I.

VAVRO, J.: A Variant System of Wastewater Management in the Village of Borský Svätý Jur
Supervisor: STANKO, Š.

VETRÍK, M.: Water Supply System of the Village of Ducové - Design of Extension and Operational Documents
Supervisor: TÓTHOVÁ, K.

SUCHÝ P.: The Impact of Climate Change on Rain Waste Water Totals in the Village of Vráble
Supervisor: HOLUBEC, M.

2.3 Doctoral theses

DUBCOVÁ, M.: Use of Multi-Criteria Analysis for the Sustainability of Water Management Systems
Supervisor:

GREGUŠOVÁ, V.: Mathematical Simulation of WWTP Structures
Supervisor: STANKO, Š.

HANUSOVÁ, A.: Occurrence and Possibilities for the Removal of Selected Micropollutants from Municipal Waste Water
Supervisor: ILAVSKÝ, J.

HRUDKA, J.: Dynamic Modelling of WWTP Structures
Supervisor: STANKO, Š.

KUNŠTEK, M.: Pharmaceuticals in Water and the Possibilities for Their Removal
Supervisor: BARLOKOVÁ, D.

MOLNÁROVÁ, L.: Optimization of the Operation of a Sewage System
Supervisor: STANKO, Š.

RUSNÁK, D.: Significance of Boundary Conditions in the Hydraulic Assessment of a Sewage Network
Supervisor: STANKO, Š.

KAPUSTA, O.: Optimization of the Filtration Process of a Small Surface Water Treatment Plant to Obtain Safe Drinking Water
Supervisor: BARLOKOVÁ, D.

TROŠANOVÁ, M.: Reverse Logistics in Waste Management
Supervisor: ŠKULTÉTYOVÁ, I.

3. RESEARCH

3.1 Research projects

Localisation of Accidental Point Sources of Pollution in Watercourses Based On-Line Monitoring Data
(2016-2019, SOKÁČ, M.) VEGA 1/0805/16

Experimental Research on Reducing the Impacts of Sewer Network Floods on Areas
(2013-2017, STANKO, Š.) APVV-0372-12

Experimental Research of Combined and Storm Sewage - Determined for the Protection of Receiving Water and Possibilities of Alternative Rainfall Runoff Regulations
(2015-2017, STANKO, Š.) VEGA 1/0631/15

Optimization of Water Treatment Processes in Small Surface Water Treatment Plants for Guaranteed Supplies of Safe Drinking Water
(2015-2017, ILAVSKÝ, J.) VEGA 1/0400/15

Development of Methods for the Correct Application of Disinfectants for Healthy and Safe Drinking Water
(2016-2019, Ilavský, J.) APVV-15-0379

Analysis of Factors in the Cleaning Frequency of Weather Stations.
(2015 RUSNÁK, D.) STU Grant for Excellence Team of Young Researchers

Implementation of Mathematical Models for Optimization of the Design Process and Operation of Sanitary-Engineering Structures,
(2015-2016, Hrudka, J.) STU Grant for Excellence Team of Young Researchers

Analysis of Impacts of Wastewater from Wastewater Treatment Plants on the Environment
(2016, DUBCOVÁ, M.) STU Grant for Excellence Team of Young Researchers

3.2 International cooperation

Cooperating institutions

Technical University, Prague, Czech Republic

Technical University, Brno, Czech Republic

Technical University, Vienna, Austria

Universität für Bodenkultur, Vienna, Austria

Danish Hydraulic Institute, Horsholm, Denmark, and Prague, Czech Republic

National Water Research Institute, Burlington, Canada

Instytut Inżynierii Sanitarnej i Ochrony Środowiska, Politechnika Czestochowska, Czestochowa, Poland

University of Pavia, Pavia, Italy

Membership in international professional organizations

BARLOKOVÁ, D.: Member of The Czech Water Association

ILAVSKÝ, J.: Member of The Czech Water Association

KRIŠ, J.: Member of International Water Association, London, official member of National Board Committee

MAHRÍKOVÁ, I: Member of International Water Association London, official member of National Board Committee

MAHRÍKOVÁ, I: International Member of Engineering Academy of Armenia

STANKO, Š: Member of International Association of Hydrological Sciences, IWA

ŠKULTÉTYOVÁ, I.: Member of International Solid Waste Association, IWA

4. PUBLICATIONS

Books

BOŽÍK, M. - BOŽÍKOVÁ, J.: Design and Technology of Engineering Network Constructions: Water Supplies and Sewerage Systems. 1st. ed. Brno : Tribun EU, 2016. ISBN 978-80-263-1126-3, 132 pp. (in Slovak)

Parts of Books

BARLOKOVÁ, D. - ILAVSKÝ, J.: Modified Zeolit Klinopur in Water Treatment. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 92-98 (in Slovak)

BARLOKOVÁ, D. - ILAVSKÝ, J. - KAPUSTA, O.: Removal of Natural Organic Contaminants from Water by Coagulation. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 158-164 (in English)

BOŽÍKOVÁ, J.: Can we Create a New Spa in Slovakia? In: AQUA 2016 : Proceedings of Works. Bratislava: STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 112-116 (in Slovak)

DUBCOVÁ, M. - MOLNÁROVÁ, L. - HOLUBEC, M. - GALBOVÁ, K. - STANKO, Š.: Design of the Greens and Tees of Golf Course in Hrubá Borša. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp.33-39 (in English)

GALBOVÁ, K. - DUBCOVÁ, M. - RUSNÁK, D. - ŠKULTÉTYOVÁ, I. - HOLUBEC, M.: Methods for the Sealing of Landfills. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 183-187 (in Slovak)

GALBOVÁ, K. - GREGUŠOVÁ, V. - ŠKULTÉTYOVÁ, I. - HOLUBEC, M. - MOLNÁROVÁ, L.: Drainage of Landfills. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 148-153 (in Slovak)

GREGUŠOVÁ, V. - HRUDKA, J. - GALBOVÁ, K. - STANKO, Š.: Influence of CSO Chamber Construction on the Flow Division. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 62-66 (in English)

HOLUBEC, M. - ŠKULTÉTYOVÁ, I. - HRUDKA, J. - GALBOVÁ, K. - STANKO, Š.: Field Measurements as a Source of Verification Data for a CFD Simulation. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 188-194. (in Slovak)

HOLUBEC, M. - STANKO, Š. - GREGUŠOVÁ, V. - DUBCOVÁ, M. - RUSNÁK, D.: CFD as a Part of Flood Impact Analysis. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 10-14 (in Slovak)

HRUDKA, J. - GREGUŠOVÁ, V. - MOLNÁROVÁ, L. - HOLUBEC, M. - ŠKULTÉTYOVÁ, I.: CFD as a Tool to Analyze Sewer Objects. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 15-21 (in Slovak)

ILAVSKÝ, J. - BARLOKOVÁ, D. - KUNŠTEK, M.: Occurrence of Antimony in Water and Its Removal by Coagulation. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 125-134 (in English)

ILAVSKÝ, J. - BARLOKOVÁ, D. - MUNKA, K.: Removal of Antimony from Water Supply Sources in Dúbrava. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 135-139 (in Slovak)

KRIŠ, J. - ILAVSKÝ, J.: Corrosion Test at the Water Treatment Jakubany. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 22-32 (in English)

MOLNÁROVÁ, L. - HOLUBEC, M. - DUBCOVÁ, M. - STANKO, Š. - GALBOVÁ, K.: Measurement of Infiltrated Water Quantities in Field Conditions. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 79-86 (in Slovak)

RUSNÁK, D. - DUBCOVÁ, M. - HOLUBEC, M. - ŠKULTÉTYOVÁ, I.: Map Precision and It's Importance in Sewer System Assessments. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 67-73 (in English)

RUSNÁK, D. - ŠKULTÉTYOVÁ, I. - GREGUŠOVÁ, V. - STANKO, Š.: Choice of Rain Model in Sewer Assessment. In: AQUA 2016 : Proceedings of Works. Bratislava : STU Bratislava, Faculty of Civil Engineering, 2016. CD-ROM, ISBN 978-80-227-4612-0, pp. 50-56 (in English)

SOKÁČ, M.: Integrated Protection of Water Sources. In: Current Problems and Damages in Fisheries. Žilina : Publishing House, 2016. ISBN 978-80-971363-1-4. pp. 31-37 (in Slovak)

SOKÁČ, M.: Waste Water and Its Impact on Fisheries and Aquatic Habitats. In: Current Problems and Damages in Fisheries. Žilina : Publishing House, 2016. ISBN 978-80-971363-1-4. pp. 87-98 (in Slovak)

Textbooks

STANKO, Š.: Design of Sewer Systems Using SeWACAD Software. STU in Bratislava, 2016. ISBN 978-80-227-4620-5, 77 pp. (in Slovak)

Journals

BARLOKOVÁ, D. - ILAVSKÝ, J.: Occurrence of Fluorides in Waters and Their Removal. In: Acta Hydrologica Slovaca. Vol. 17, No. 2 (2016), ISSN 1335-6291, pp.166-174 (in Slovak)

DUBCOVÁ, M. - GREGUŠOVÁ, V. - CSICSAIOVÁ, R.: Analysis of Impact of Sludge from Sewage Treatment Plants Using the LCA Method. In: Vodohospodársky spravodajca. Vol. 59, Nos. 11-12 (2016), ISSN 0322-886X, pp. 20-22 (in Slovak)

HANUSOVÁ, A. - MACKULAK, T.: The Ability of Wood - Decaying Fungi to Remove Hormones and Drugs from Waste Water. In: Vodní hospodářství. Vol. 66, No. 3 (2016), ISSN 1211-0760, pp. 11-13 (in Slovak)

HRUDKA, J. - HOLUBEC, M. - STANKO, Š. - ŠKULTÉTYOVÁ, I. - GALBOVÁ, K.: Calibration Parameters Which are Entering into the Process of the Mathematical Modelling of Sanitary-Water Management Structures. In: Vodohospodársky spravodajca. Vol. 59, Nos. 1-2 (2016), ISSN 0322-886X, pp. 25-28 (in Slovak)

ILAVSKÝ, J. - BARLOKOVÁ, D. - MUNKA, K.: Removal of Antimony from Water Using GEH Sorption Material at Different Filtermedia Heights. In: SOVAK. Vol. 25, Nos. 7-8 (2016), ISSN 1210-3039, pp. 13-16 (in Slovak)

JERKOVIČ, M. - SOKÁČ, M. - TADIĆ, L.: Analysis of the Effects of a Wastewater Treatment Plant Failure on the Drava River Water Quality. In: e-GFOS Electronic Journal of the Faculty of Civil Engineering Osijek. Nos. 12 (2016), ISSN 1847-8948, pp. 57—65 (in English)

MACKULAK, T. - BIROŠOVÁ, L. - BODÍK, I. - GRABIC, R. - TAKÁČOVÁ, A. - SMOLINSKÁ, M. - HANUSOVÁ, A. - HÍVEŠ, J. - GÁL, M.: Zerovalent Iron and Iron(VI): Effective Means for the Removal of Psychoactive Pharmaceuticals and Illicit Drugs from Wastewaters. In: Science of the Total Environment. Vol. 539, (2016), ISSN 0048-9697, pp. 420-426 (in English)

RUSNÁK, D. - STANKO, Š. - ŠKULTÉTYOVÁ, I.: Rain Model - Boundary Condition in Sewer Network Appraisal. In: Pollack Periodica. Vol. 11, No. 2 (2016), ISSN 1788-1994, pp. 105-112 (in English)

SOKÁČ, M. - VELÍSKOVÁ, Y.: Dispersion Process in Urban Sewer Networks Under Dry Weather Conditions. In: Gaz, voda i tehnika sanitarna. Vol. 90, No. 4 (2016), ISSN 0016-5352, pp. 152-155 (in English)

STANKO, Š. - ŠKULTÉTYOVÁ, I. - HRUDKA, J. - HOLUBEC, M. - GALBOVÁ, K.: Numerical Mathematical Modelling of Sewer System Structures. In: Vodní hospodářství. Vol.66, Nos. 12 (2016), ISSN 1211-0760, pp. 10-12 (in Slovak)

Conference Proceedings

BARLOKOVÁ, D. - ILAVSKÝ, J. - BUCHLOVIČOVÁ, J. - PELIKÁN, P.: Modernization of Water Treatment Plant for Surface Water of Klenovec and Málinec. In: Drinking Water 2016: 13th Conference. Tábor, Czech Republic 23. - 26. 5. 2016 - České Budějovice : W&ET Team, 2016- ISBN 978-80-905238-2-1 - pp. 211-216 (in Slovak)

BARLOKOVÁ, D. - ILAVSKÝ, J.: Removal of Fluoride from Water. In: Water Zlín 2016 : 20th International Conference. Zlín, Czech Republic 17. - 18. 3. 2016 - Olomouc : Moravská vodárenská, 2016 - ISBN 978-80-905716-2-4 - pp. 73-78 (in Slovak)

BOŽÍKOVÁ, J.: Protection of Water with Healing Effects in Slovakia. In: 48th Conference of Water Managers in Industry. Liptovský Ján, Slovak Republic, 7. - 9. 11. 2016 - Bratislava : HEKAS, 2016 - ISBN 978-80-971819-2-5 - pp. 113-122 (in Slovak)

BOŽÍKOVÁ, J. - ŠTEFANKA, P. - VANDROVÁ, G.: Hydrogeological Structure of Mineral Waters in Lúčky. In: 18th Slovak Hydrogeological Conference. Demänovská dolina, Slovak Republic 18. - 21. 10. 2016 - Bratislava : Slovak Association of Hydrogeologists, 2016 - ISBN 978-80-971126-9-1 - pp. 11-24 (in Slovak)

CSICSAIOVÁ, R. - STANKO, Š.: Proposed Wastewater Collection in the Village of Ohrady. In: Conference of Young Researchers - KOMVY 2016. Duchonka, Slovak Republic, 15. - 16. 11. 2016 - Bratislava : STU Bratislava, 2016, CD-ROM - ISBN 978-80-227-4654-0 - pp. 8-13 (in Slovak)

DUBCOVÁ, M.: Environmental Analysis to Review the Functions of a WWTP. In: Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics, Bratislava, Slovak Republic, 26. 10. 2016 - Bratislava : STU Bratislava, 2016, CD-ROM - ISBN 978-80-227-4645-8 - pp. 624-629 (in Slovak)

GALBOVÁ, K. - HRUDKA, J. - HOLUBEC, M. - ŠKULTÉTYOVÁ, I. - STANKO, Š.: Analysis of the Quality and Quantity Parameters of Treated Waste Water at the Outlet from Wastewater Treatment Plant. In: TOP 2016 : Proceedings of Abstracts. 22nd Annual International Scientific Conference Engineering for Environment Protection. Častá - Papiernička, Slovak Republic, 7. - 9. 6. 2016 - Bratislava : STU Bratislava, 2016 - ISBN 978-80-227-4568-0 - p. 31 (in English)

GALBOVÁ, K. - DUBCOVÁ, M. - TROŠANOVÁ, M.: The Production and Use of Sewage Sludge. In: Conference of Young Researchers. Duchonka, Slovak Republic, 15. - 16. 11. 2016 - Bratislava : STU Bratislava, 2016, CD-ROM - ISBN 978-80-227-4654-0 - pp. 18-23 (in Slovak)

GREGUŠOVÁ, V. - DUBCOVÁ, M. - HRUDKA, J. - GALBOVÁ, K. - ŠKULTÉTYOVÁ, I.: Use of Gas Chromatography in the Analysis of Pesticides in Wastewater. In: GV-CONF 2016 : Proceedings of Global Virtual Conference. Slovak Republic, 18. - 22. April 2016 - Žilina : EDIS, 2016, ISSN 1339-2778. ISBN 978-80-554-1197-2 - pp. 251-254 (in English)

- HANUSOVÁ, A.: Application of Boron Doped Diamond Electrodes by Hospital Wastewater Treatment. In: Juniorstav 2016 : 18th PhD. Students International Conference. Brno, Czech Republic, 28. 1. 2016 - Brno University of Technology, 2016, CD-ROM - ISBN 978-80-214-5311-1 (in Slovak)
- HOLUBEC, M. - GREGUŠOVÁ, V. - MOLNÁROVÁ, L. - STANKO, Š. - GALBOVÁ, K. - ŠKULTÉTYOVÁ, I.: Field Measurements of Ballast Water in Sewer Systems. In: TOP 2016 : Proceedings. 22nd Annual International Scientific Conference Engineering for Environmental Protection. Častá - Papiernička, Slovak Republic, 7. - 9. 6. 2016 - Bratislava : STU Bratislava, 2016 - ISBN 978-80-227-4568-0 - p. 37 (in English)
- HOLUBEC, M. - GALBOVÁ, K. - RUSNÁK, D. - STANKO, Š.: CFD Simulation of Flow in the Primary Settlement Tank of a Wastewater Treatment Plant. In: Městské vody 2016 = Urban water 2016 : Conference with international participation. Velké Bílovice, Czech Republic, 6. - 7. 10. 2016 - Brno : ARDEC, 2016 - ISBN 978-80-86020-83-9 - pp. 243-248 (in Slovak)
- HRUDKA, J. - STANKO, Š. - ŠKULTÉTYOVÁ, I. - HOLUBEC, M. - GALBOVÁ, K.: Hydraulic Conditions in a Settlement Tank Analyzed by Mathematical Models. In: Wastewater 2016, 9th Biennial Conference with international participation. Štrbské Pleso, Slovak Republic, 19.-21. 10. 2016 - Bratislava : NOI, 2016 - ISBN 978-80-89882-00-7 - pp. 193-198 (in Slovak)
- HRUDKA, J.: Modification of the Inlet Zone of a Sedimentation Tank and Its Impact on the Flow. In: Conference of Young Researchers - KOMVY 2016. Duchonka, Slovak Republic, 15. - 16. 11. 2016 - Bratislava : STU Bratislava, 2016, CD-ROM - ISBN 978-80-227-4654-0 - pp. 44-52 (in Slovak)
- ILAVSKÝ, J. - BARLOKOVÁ, D. - MUNKA, K.: Comparison of Adsorptive Capacities and Filter Lengths of Iron-based Sorption Materials in the Removal of As and Sb from Water. In: Water Zlín 2016 : 20th International Conference. Zlín, Czech Republic 17. - 18. 3. 2016 - Olomouc : Moravská vodárenská, 2016 - ISBN 978-80-905716-2-4 - pp. 91-96 (in Slovak)
- MOLNÁROVÁ, L. - HOLUBEC, M. - RUSNÁK, D. - STANKO, Š.: Ground Water Infiltration Measurement in Sewer Systems. In: GV-CONF 2016 : Proceedings of Virtual Global Conference. Slovak Republic, 18. - 22. April 2016 - Žilina : EDIS, 2016, ISSN 1339-2778. ISBN 978-80-554-1197-2 - pp. 240-244 (in English)
- PELIKÁN, P. - BUCHLOVIČOVÁ, J. - ILAVSKÝ, J. - BARLOKOVÁ, D.: Pilot Plant Tests of the Water Treatment Plant in Hriňová. In: Drinking Water 2016: 13th Conference. Tábor, Czech Republic 23. - 26. 5. 2016 - České Budějovice : W&ET Team, 2016 - ISBN 978-80-905238-2-1 - pp. 217-222 (in Slovak)
- RUSNÁK, D. - STANKO, Š. - GREGUŠOVÁ, V. - GALBOVÁ, K.: The Precision of Maps - Their Impact on the Determination of Design Flows in Sewers. In: Městské vody 2016 = Urban Water 2016 : Conference with international participation. Velké Bílovice, Czech Republic, 6. - 7. 10. 2016 - Brno : ARDEC, 2016 - ISBN 978-80-86020-83-9 - pp. 235-242 (in Slovak)
- SOKÁČ, M. - VELÍSKOVÁ, Y.: Tracer Experiments in Lowland Channel with Transient Storage Zones. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 3. Water Resources. Forest, Marine and Ocean Ecosystems. Albena, Bulgaria, 30 June - 6 July 2016 - Sofia : STEF 92 Technology, 2016 - ISSN 1314-2704. ISBN 978-619-7105-61-2 - pp. 781-787 (in English)
- SOKÁČ, M.: Detection of Accidental Pollution of Watercourses on the Basis of On-line Monitoring. In: Wastewater 2016, 9th Biennial Conference with international participation. Štrbské Pleso, Slovak Republic, 19.-21. 10. 2016 - Bratislava : NOI, 2016 - ISBN 978-80-89882-00-7 - pp. 181-186 (in Slovak)
- STANKO, Š. - ŠKULTÉTYOVÁ, I.: Cultural-Religious Impact of the Development of Sanitation. In: 20th District Water Day. Michalovce, Slovak Republic, 14. - 15. 4. 2016 - Michalovce : East Slovak Water Company, Join - stock Company, Michalovce Branch, 2016, ISBN 978-80-89139-37-8 - pp. 27-32 (in Slovak)
- ŠKULTÉTYOVÁ, I. - DUBCOVÁ, M. - GALBOVÁ, K. - STANKO, Š. - HOLUBEC, M.: Assessing the Environmental Impacts of Sludge from Wastewater Treatment Plant. In: TOP 2016 : Proceedings of Abstracts. 22nd Annual International Scientific Conference Engineering for Environmental Protection. Častá - Papiernička, Slovak Republic, 7. - 9. 6. 2016 - Bratislava : STU Bratislava, 2016 - ISBN 978-80-227-4568-0 - p. 80. ISBN 978-80-227-4568-0 (in English)
- TROŠANOVÁ, M. - ŠKULTÉTYOVÁ, I.: Projection of Measures to Mitigate Negative Effects and Conditions of the EIA Process in the Conditions of Territorial Decisions and Their Resulting Effectiveness in the District of Levoča. In: Conference of Young Researchers - KOMVY 2016. Duchonka, Slovak Republic, 15. - 16. 11. 2016 - Bratislava : STU Bratislava, 2016, CD-ROM - ISBN 978-80-227-4654-0 - pp. 63-70 (in Slovak)

DEPARTMENT OF BUILDING SERVICES

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Building Services 1,2,3 (Slovak)

Building Services 1,2 (English)

Thermomechanics

Sanitary Techniques 1 (Water Supply, Sewerage)

Sanitary Techniques 2 (Gas Mains)

Heating

Ventilation, Air-Conditioning - Cooling 1,2

Hydraulics of Heating Systems

Design Studio 1 - Sanitary Techniques

Design Studio 2 - Heating

Design Studio 3 - Ventilation, Air-Conditioning and Cooling

Measurement and Control in Building Services

Energy Audit of Buildings

Renewable Energy Sources

Building Control Systems

Energy Supply of Buildings

Excursions

Practice

Special Seminar

Diploma Seminar

Obligatory elective subjects

Heat and Mass Transfer

Indoor Environment

Fire-Fighting Equipment in Building Industrial Air Conditioning Systems

Industrial Air Conditioning Systems

Environment Engineering of Intelligent Buildings

Heating Systems

Sanitary Facilities

Theory and Technology of Combustion

Ventilation, Air-Conditioning and Cooling Systems

Methods of Research in Sanitary Techniques

Methods of Research in Heating

Methods of Research in Ventilation and Air Conditioning

Operation of Sanitary Facilities

Operation of Heating Systems

Operation of Ventilation and Air Conditioning Systems

Optional subjects

Energy Audit of Buildings

2. THESES

2.1 Bachelor theses

There were 2 works.

2.2 Graduate theses

ČAJKOVÁ, M.: Underfloor Heating Design

Supervisor: PETRÁŠ, D.

FARAGÓ, Z.: Technical and Economical Evaluation of Dwelling Renovations

Supervisor: PETRÁŠ D.

FOLTÁN, M.: Ventilation in Dwellings

Supervisor: ŠABÍKOVÁ, J.

HRČKA, M.: Ventilation and Cooling System for a Restaurant

Supervisor: ŠABÍKOVÁ, J.

HÝSEK, M.: Design and Comparison of Dwelling Renovations

Supervisor: KRAJČÍK, M.

CHMELÍČEK, P.: Energy Certification / Energy, Economical and Environmental Aspect Analysis

Supervisor: KALÚS, D.

KOLÁRIK, M.: Energy Efficiency of Building and Energy Certification

Supervisor: KALÚS, D.

MATULA, L.: Energy System for a Family House - Conception and Design

Supervisor: KOUDELKOVÁ, D.

PÓDA, M.: Drainage and Rain Water System Design
Supervisor: KRAJČÍK, M.

POLÁKOVÁ, S.: Alternative Solutions for Heat Source and Heating Systems
Supervisor: KURČOVÁ, M.

REJDOVJANOVÁ, S.: Heat Pump Analysis - Bratislava County
Supervisor: SKALÍK, L.

RIGO, M.: Energy Balance and Evaluation of Indoor Climates in Dwellings
Supervisor: KRAJČÍK, M.

SÁNKA, I.: Energy Certification for Dwellings and Indoor Air Quality
Supervisor: PETRÁŠ, D.

BAHNOVÁ, Z.: Design of Alternative Hot Water Preparation System for an Apartment Building
Supervisor: VÍCHOVÁ, K.

BÍROVÁ, M.: Design of Gas Heating Boiler Room and Internal Gas Supply in an Apartment Building
Supervisor: VÍCHOVÁ, K.

ČASO, P.: Design of Alternative Shower Systems for a Guest House and Adjoining Areas
Supervisor: PERÁČKOVÁ, J.

ČERVENEC, O.: Design for the Realization of a Separate Drainage System
Supervisor: TONHAUZER, I.

DUCHOŇ, R.: Design of an Alternative Internal Water Supply in an Apartment Building
Supervisor: PERÁČKOVÁ, J.

IVANOVSKÁ, M.: Design for the Realization of Sanitary Technology in a Multifunctional Building with a Siphonic Rainwater Drainage System
Supervisor: PERÁČKOVÁ, J.

KONTIŠ, J.: Design of a Gas Heating Boiler Room in a Lodging House
Supervisor: VÍCHOVÁ, K.

MEČÁROVÁ, M.: Progressive Wastewater Treatment Systems for a Multifunctional Building
Supervisor: PERÁČKOVÁ, J.

PAVLOVIČOVÁ, V.: Design of a System for Reusing Grey Water and Rainwater in a Lodging House
Supervisor: JÁNOŠKOVÁ, T.

ŠPENDLA, M.: Design for Foul Water and Rainwater Drainage in a Shopping Centre
Supervisor: JÁNOŠKOVÁ, T.

FERENCZ, P.: Ventilation and Cooling of a Residential Building with the Application of an Air Handling Recovery Unit
Supervisor: STRAKOVÁ, Z.

GREŠTIÁK, R.: Design of Ventilation for an Office Building and Design of Heating and Cooling Sources
Supervisor: FÜRI, B.

JAŠEKOVÁ, K.: Air Conditioning of a Factory and the Technical Base of an Ice Stadium
Supervisor: STRAKOVÁ, Z.

KMECOVÁ, M.: Ventilation and Fire Ventilation of an Underground Garage
Supervisor: STRAKOVÁ, Z.

KOCANDOVÁ, L.: Warm Air Ventilation and Heating of the Manufacturing and Storage Spaces of a Factory
Supervisor: STRAKOVÁ, Z.

KUBINA, L.: Design of Ventilation and Heating and Cooling Sources for a Factory
Supervisor: FÜRI, B.

KVASNICOVÁ, K.: Air Conditioning of Clean Rooms in a Hospital
Supervisor: STRAKOVÁ, Z.

NOSKO, A.: Mechanical Ventilation of a Library
Supervisor: ŠABÍKOVÁ, J.

SEDLÁK, P.: Hygienic Ventilation Combined with the Radiant Heating of a Factory with an Industrial Type of Operation
Supervisor: STRAKOVÁ, Z.

TOPOR, M.: Design of Ventilation and Heating and Cooling Sources for a Factory
Supervisor: FÜRI, B.

BARBORIAK, P.: Combined Heat Source for a Dwelling
Supervisor: LULKOVIČOVÁ, O.

GABÍKOVÁ, H.: Application of Active Thermal Protection for Heating and Cooling in Dwellings
Supervisor: KALÚS, D.

GAJDOŠ, L.: Hydronic Balancing of Heating Systems in Administrative Buildings
Supervisor: KURČOVÁ, M.:

GOGO VÁ, S.: Solar Energy System for a Dwelling
Supervisor: LULKOVIČOVÁ, O.

GYÖRI, K.: Combined Heat Source for a Dwelling
Supervisor: LULKOVIČOVÁ, O.

IZÁKOVÁ, P.: Design and Calculation of Heat Source for a Resort: Biomass Base
Supervisor: LULKOVIČOVÁ, O.

KLVÁČ, R.: Combined Heating Sources for an Energy - Efficient Building: Renewable Energy Base
Supervisor: KALÚS, D.

KRÁTKY, M.: Energy Audit, Certification and Monitoring of Office Building
Supervisor: PETRÁŠ, D.

KRNÁČ, J.: Analysis of Energy System for Heating and Cooling: Ventilation and Hot Water Preparation for a Building with Near - Zero Energy Consumption
Supervisor: KALÚS, D.

MADLEŇÁK, F.: Energy Audit of a Building and Hydronic Balancing for a Dwelling After Renovation
Supervisor: PETRÁŠ, D.

NAGY, Á.: Alternative Energy Source for a Dwelling
Supervisor: TAKÁCS, J.

SLÁVIK, B.: Warm Water Heating System in a Hotel
Supervisor: TAKÁCS, J.

SZOMOLAY, V.: Calculation and Selection of a Heat Source for a Hotel
Supervisor: TAKÁCS, J.

ŠEFČIKOVÁ, A.: Energy Saving Systems for Heating in a Dwelling: Renewable Energy Base
Supervisor: KALÚS, D.

ŠUGAREK, D.: Use of Waste Heat from a Heat Plant for Delivery to an Office Building
Supervisor: TAKÁCS, J.

ŠVANCARA, M.: Biomass Heat Source and Its Use in Myjava: Calculations and Layouts
Supervisor: KOUDELKOVÁ, D.

VOJTKO, P.: Design of Source Systems for Hot Water Preparation in the County of Prešov
Supervisor: SKALÍK, L.

2.3 Doctoral theses

FÖLDVÁRY, V.: Assessment of Indoor Environmental Quality in Residential Buildings Before and After Renovation
Supervisor: PETRÁŠ, D.

HARGAŠ, M.: Analysis of Operation of Micro Cogeneration Units in a Building
Supervisor: TAKÁCS, J.

KOVÁČOVÁ, D.: Analysis of the Energy Efficiency of a Solar Energy System for Dwelling Stock Renovations
Supervisor: LULKOVIČOVÁ, O.

THURZA, R.: Analysis and Design of Hot Air Ventilation and Dehumidification Systems in Covered Swimming Pools
Supervisor: FÜRI, B.

3. RESEARCH

3.1 Research projects

Health and Energy Aspects of a Building's Integrated Photovoltaic Facades (2015-2016, KRAJČÍK, M.), Grant scheme to support Excellence Teams of Young Researchers at the Slovak University of Technology in Bratislava

CEEPUS III – Education without Frontiers (2015-2016, LULKOVIČOVÁ, O.), CIII-AT-0050-00-1516

3.2 International cooperation

Cooperating institutions

Danmarks Tekniske Universitet, Lyngby, Denmark

Fachhochschule Burgenland, Pinkafeld, Austria

Ensi – Energy Saving International AS, Oslo, Norway

Budapest University of Technology and Economics, Budapest, Hungary

Membership in international professional organizations

PETRÁŠ, D.: ASHRAE, Atlanta, USA

PETRÁŠ, D.: ISIAQ, Austin, USA

PETRÁŠ, D.: REHVA, Brussels, Belgium

4. PUBLICATIONS

Books

ČÍK, G. - PETRÁŠ, D. - FÖLDVÁRY, V.: Green Engineering and Green Chemistry. 1. ed. Bratislava Vydavateľstvo STU 2016. 167 pp. ISBN 978-80-227-4610-6 (in Slovak)

PERÁČKOVÁ, J. - VÍCHOVÁ, K. - STRAKOVÁ, Z. - KURČOVÁ, M. - TAKÁCS, J. - PETRÁŠ, D.: Energy Efficiency in Building Service Installations. 1. ed. Bratislava : Ústav vzdelávania a služieb (ÚVS), 2016. 198 pp. ISBN 978-80-89073-21-4 (in Slovak)

PUŠKÁR, A - PETRÁŠ, D. - SANDANUS, J. - SÓGEL, K. - DRŽKA, M.: Reducing the Energy Consumption of Buildings for the Profession of Bricklayer. 1. ed. Bratislava : Ústav vzdelávania a služieb, 2016. 191 p. ISBN 978-80-89073-20-7 (in Slovak)

Journals

BARTOŠOVÁ KMEŤKOVÁ, J. [Kmeťková, J.]: Life Cycle and Technical and Economical Assessment of an Apartment Building. In: TzB Haustechnik. Vol. 24, No. 1 (2016), pp. 32-35. ISSN 1210-356X (in Slovak)

BUKOVIANSKA, H. [Pustayová, H.] - FÖLDVÁRY, V. - PETRÁŠ, D.: Evaluation of Indoor Environment and Energy Consumption in Dwellings Before and

- After Their Refurbishment. In: REHVA European HVAC Journal. Vol. 53, No. 2 (2016), pp. 13-20. ISSN 1307-3729 (in English)
- ČERMANOVÁ, Z. [Krippelová, Z.] - PERÁČKOVÁ, J.: Warm Water Preparation in Households. In: TZB Haustechnik. Vol. 24, No. 4 (2016), pp. 50-53. ISSN 1210-356X (in Slovak)
- DERZSI, I. - TAKÁCS, J.: Optimization of Heating Systems in High-Rise Buildings. In: Magyar Épületgépészet. Vol. 65, No. 4 (2016), pp. 19-22. ISSN 1215-9913 (in Hungarian)
- EHRENWALD, P. - KURČOVÁ, M.: Automatic Control of Environmental Technology in Nearly Zero Energy Buildings. In: TZB Haustechnik. Vol. 24, No. 5 (2016), pp. 34-35. ISSN 1210-356X (in Slovak)
- GAŠPARIK, M.: Heat Storage in Solar Thermal System Engineering. In: TZB Haustechnik. Vol. 24, No. 3 (2016), pp. 18-20. ISSN 1210-356X (in Slovak)
- JÁGERSKÁ, L. [Laščeková, L.] - PERÁČKOVÁ, J.: Design Principles of Siphonic Roof Drainage System Based on VDI 3806. In: Magyar Épületgépészet. Vol. 65, Nos. 1-2 (2016), pp. 32-35. ISSN 1215-9913 (in English)
- JÁGERSKÁ, L. [Laščeková, L.] - PERÁČKOVÁ, J.: Sizing the Vacuum Drainage of Flat Roofs. In: TZB Haustechnik. Vol. 24, No. 3 (2016), pp. 49-54. ISSN 1210-356X (in Slovak)
- JÁGERSKÁ, L. [Laščeková, L.] - PERÁČKOVÁ, J.: An Example of Calculating a Siphonic Roof Drainage System and Its Dimensioning in Calculation Software. In: TechCON. Vol. 12, No. 1 (2016), pp. 14-19. ISSN 1337-3013 (in Slovak)
- JÁGERSKÁ, L. [Laščeková, L.] - PERÁČKOVÁ, J.: Characteristic of Siphonic Roof Drainage System: Principles and Design Conditions. In: Czech Journal of Civil Engineering. Vol. 2, No. 1 (2016), online, pp. 50-55. ISSN 2336-7148 (in English)
- KALÚS, D.: Thermally Activated Interior Panels with an Integrated Active Area, Part I : Currently under Experimental Verification of Building and Energy Systems. In: TZB Haustechnik. Vol. 24, No. 2 (2016), pp. 14-17. ISSN 1210-356X (in Slovak)
- KALÚS, D.: Thermally Activated Interior Panels with an Integrated Active Area, Part II : Methodology and Research Methods. In: TZB Haustechnik. Vol. 24, No. 3 (2016), pp. 22-25. ISSN 1210-356X (in Slovak)
- KALÚS, D.: Interior Thermally Active Panels with an Integrated Active Area. In: TZB Haustechnik. Vol. 9, No. 4 (2016), pp. 38-41. ISSN 1803-4802 (in Czech)
- KALÚS, D.: Interior of Thermally Active Panels with an Integrated Active Surface, Part III : Heating and Cooling Capacity ITAP Panels. In: TZB Haustechnik. Vol. 24, No. 4 (2016), pp. 36-38. ISSN 1210-356X (in Slovak)
- KOUDELKOVÁ, D.: Outside Air Temperature Sensor and Its Location in a District's Equithermal Control Circuit. In: TZB Haustechnik. Vol. 24, No. 5 (2016), pp. 28-31. ISSN 1210-356X (in Slovak)
- KOVÁČOVÁ, D. - LULKOVIČOVÁ, O.: Using of Hybrid Photovoltaic Thermal Solar Collectors. In: Magyar Épületgépészet. Vol. 65, No. 3 (2016), pp. 11-15. ISSN 1215-9913 (in English)
- KOVÁČOVÁ, D.: Analysis of the Summer Use of Solar Energy Systems in Residential Buildings. In: TZB Haustechnik. Vol. 24, No. 1 (2016), pp. 42-45. ISSN 1210-356X (in Slovak)
- KRAFČÍK, M. - PERÁČKOVÁ, J.: Measurement of the Volume Flow of Water in an Apartment Building. In: TZB Haustechnik. Vol. 24, No. 5 (2016), pp. 50-53. ISSN 1210-356X (in Slovak)
- KRAFČÍK, M. - PERÁČKOVÁ, J.: Hot Water Storage Tanks. In: TechCON. Vol. 12, No. 2 (2016), pp. 4-5. ISSN 1337-3013 (in Slovak)
- KRAJČÍK, M. - TAKÁCS, J.: Ventilation Intensity in a High-Rise Building After Complete Retrofit of Its Envelope. In: Pollack Periodica. Vol. 11, No. 1 (2016), pp. 91-100. ISSN 1788-1994 (in English)
- KRAJČÍK, M. - TOMASI, R. - SIMONE, A. - OLESEN, B. W.: Thermal Comfort and Ventilation Effectiveness in an Office Room with Radiant Floor Cooling and Displacement Ventilation. In: Science and Technology for the Built Environment. Vol. 22, No. 3 (2016), pp. 317-327. ISSN 2374-4731 (print) (in English)
- KUDIVÁNI, L. [Hrčková, L.]: Proposed Heat Resources for Burning Biomass. In: TZB Haustechnik. Vol. 24, No. 4 (2016), pp. 16-18. ISSN 1210-356X (in Slovak)
- KURČOVÁ, M.: Heating Control with Different Types of Heat Sources. In: TZB Haustechnik. Vol. 24, No. 5 (2016), pp. 36-38. ISSN 1210-356X (in Slovak)
- NÉMETHOVÁ, E. - KRAJČÍK, M.: Building with a Radiant Heating/Cooling Ceiling: How Does the Reconstruction of a Building Affect the Indoor Environment? In: TZB Haustechnik. Vol. 24, No. 2 (2016), pp. 28-32. ISSN 1210-356X (in Slovak)
- NÉMETHOVÁ, E. - PETRÁŠ, D. - KRAJČÍK, M.: Operation of a Building with a Heating/Cooling Ceiling After a Retrofit : How Does the Retrofit of a Building at SvF STU Affect the Indoor Environment? In: TZB Haustechnik. Vol. 9, No. 2 (2016), pp. 30-34. ISSN 1803-4802 (in Czech)
- NÉMETHOVÁ, E. - STUTTERECKER, W. - SCHOBBERER, T. - KRAJČÍK, M.: Deficiencies in the HVAC Systems Operation in a Modern Office Building and Their Solutions. In: Magyar Épületgépészet. Vol. 65, No. 12 (2016), pp. 19-23. ISSN 1215-9913 (in English)
- NÉMETHOVÁ, E. - STUTTERECKER, W. - SCHOBBERER, T.: Thermal Comfort and HVAC Systems Operation Challenges in a Modern Office Building – Case Study. In: SSP - Journal of Civil Engineering. Vol. 11, No. 2 (2016), pp. 103-114. ISSN 1338-9024 (in English)
- NIKOVÁ, I.: Nearly-Zero Energy Buildings (nZEB): The Only Solution. In: Dom a byt. Vol. 22, No. 3 (2016), pp. 12-13. ISSN 1335-6615 (in Slovak)
- OLBŘÍMEK, J. - STRAKOVÁ, Z.: Design of Central Ventilation of Block of Flats in Accordance with the Requirements of a Fire Protection Specialist. In: TZB Haustechnik. Vol. 9, No. 4 (2016), pp. 42-45. ISSN 1803-4802 (in Czech)
- PERÁČKOVÁ, J.: Safety Drainage of Roof, Balconies and Loggias. In: TZB Haustechnik. Vol. 24, No. 2 (2016), pp. 51-54. ISSN 1210-356X (in Slovak)

- PERÁČKOVÁ, J.: Design of the Safety Drainage of Roofs. In: TzB Haustechnik. Vol. 9, No. 2 (2016), pp. 46-49. ISSN 1803-4802 (in Czech)
- PERÁČKOVÁ, J.: How to Ensure Roof Drainage During Torrential Rain? In: Správa budov. Vol. 10, No. 4 (2016), pp. 36-39. ISSN 1337-6233 (in Slovak)
- PERÁČKOVÁ, J.: Commentary on Decree MH SR No. 240/2016 Z. z. Establishing the Hot Water Temperature at the Point of Delivery: the Rules of Allocations for Heat Output for Domestic Hot Water and Allocations Made of Heat. In: TechCON. Vol. 12, No. 2 (2016), p. 6. ISSN 1337-3013 (in Slovak)
- PETRÁŠ, D. - ILLITH, R.: Energy Performance of Buildings with Natural Gas: Usage of Gas in Family Houses with a Heating Supply by 2020. In: SLOVGAS. Vol. 25, No. 5 (2016), pp. 9-13. ISSN 1335-3853 (in Slovak)
- PETRÁŠ, D.: Energy Efficiency of Buildings versus Indoor Environmental Quality. In: Eurostav. Vol. 22, No. 9 (2016), pp. 22-25. ISSN 1335-1249 (in Slovak)
- PETRÁŠ, D. - KRAJČOVIČ, J.: ZSVTS and Its Action in the Preparation of Euroengineers Slovakia. In: US-China Foreign Language. Vol. 14, No. 11 (2016), pp. 813-819. ISSN 1539-8080 (in English)
- SÁNKA, I. - FÖLDVÁRY, V. - PETRÁŠ, D.: Experimental Measurements of CO₂ Concentrations and Air Exchange Rates in Residential Buildings. In: TzB Haustechnik. Vol. 24, No. 4 (2016), pp. 46-49. ISSN 1210-356X (in Slovak)
- STRAKOVÁ, Z.: The Interaction of a Heating and Ventilation System in the Development of an Internal Environment. In: TzB Haustechnik. Vol. 24, No. 3 (2016), pp. 42-44. ISSN 1210-356X (in Slovak)
- SZÁNTHÓ, Z. - TAKÁCS, J.: Hot Water within a District Heating System in Hungary. In: TzB Haustechnik. Vol. 24, No. 6 (2016), pp. 30-33. ISSN 1210-356X (in Slovak)
- SZÁNTHÓ, Z. - TAKÁCS, J.: Experience of Hot Water within a District Heating System in Hungary. In: TzB Haustechnik. Vol. 9, No. 3 (2016), pp. 26-29. ISSN 1803-4802 (in Czech)
- ŠIMKO, M.: Is Active Thermal Protection a Viable Alternative as a Wall Energy System? In: TzB Haustechnik. Vol. 9, No. 2 (2016), pp. 42-45. ISSN 1803-4802 (in Czech)
- ŠIMKO, M.: Effect of Active Thermal Protection on Heat Flows and Interior Surface Temperatures. In: TzB-info.cz. Vol. 18, No. 45 (2016), online, [13] p. ISSN 1801-4399 (in Slovak)
- ŠIMKO, M.: Experiment to Clarify the Spread and Accumulation of Heat Through a Reinforced Concrete Fragment with Active Thermal Protection. In: TzB Haustechnik. Vol. 9, No. 3 (2016), pp. 34-37. ISSN 1803-4802 (in Czech)
- ŠIMKO, M.: Energy-Economic Evaluation of Active Thermal Protection. In: TzB Haustechnik. Vol. 9, No. 4 (2016), pp. 28-31. ISSN 1803-4802 (in Czech)
- TAKÁCS, J. - STRAKOVÁ, Z.: Analysis of Geothermal Systems in Zemnė. In: Energia - Gazdálkodás. Vol. 57, Nos. 1-2 (2016), pp. 54-57. ISSN 0021-0757 (in Hungarian)
- TAKÁCS, J. - RÁCZ, L.: Experimental Verification of the Behavior of Circulators. In: TzB Haustechnik. Vol. 24, No. 5 (2016), pp. 40-42. ISSN 1210-356X (in Slovak)
- TAKÁCS, J. - RÁCZ, L.: Potential for Renewable Energies in Centralized Heat Systems. In: TzB Haustechnik. Vol. 9, No. 4 (2016), pp. 32-33. ISSN 1803-4802 (in Czech)
- VALÁŠEK, J. - KRAJČÍK, M.: Possibilities to Achieve a Nearly Zero Energy Demand in Buildings After Their Complex Renovation. In: TzB Haustechnik. Vol. 24, No. 5 (2016), pp. 20-30. ISSN 1210-356X (in Slovak)
- VÍCHOVÁ, K. [Malinová, K.]: Analysis of Heat Loss and Efficiency of Boilers Burning Biomass. In: TzB Haustechnik. Vol. 24, No. 1 (2016), pp. 46-49. ISSN 1210-356X (in Slovak)
- VÍCHOVÁ, K. [Malinová, K.]: Biomass: Trends and Usage. In: Green Business Revue. Vol. 2, No. 2 (2016), pp. 78-81. ISSN 2453-8043 (in Slovak)
- VÍCHOVÁ, K. [Malinová, K.]: Inspection of Gas Installations in the Management of Residential Buildings. In: Správa budov. Vol. 9, No. 4 (2016), pp. 43. ISSN 1337-6233 (in Slovak)
- ŽIVNER, L. - NIKOVÁ, I. - FÜRI, B.: Efficiency of the Heat Pump System for Domestic Hot Water Preparation in The Winter Season. In: Magyar Épületgépészet. Vol. 65, Nos. 7-8 (2016), pp. 12-15. ISSN 1215-9913 (in English)

Conference Proceedings

- BARTOŠOVÁ KMEŤKOVÁ, J. [Kmeťková, J.] - PETRÁŠ, D.: An Assessment of the Renovation of Existing Residential Buildings Regarding Life Cycle. In: CLIMA 2016 : proceedings of the 12th REHVA World Congress. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg : Aalborg University, Department of Civil Engineering, 2016, online, [8] p. ISBN 87-91606-36-5 (in English)
- BARTOŠOVÁ KMEŤKOVÁ, J. [Kmeťková, J.]: Life Cycle Cost Assessment of Building Refurbishment. In: Indoor Climate of Buildings 2016 : Environmentally Friendly and Energy Efficient Buildings. 27th Annual and 9th International Conference. Štrbské pleso, Slovakia, 27. - 30. Nov. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 197-203. ISBN 978-80-89878-03-1 (in English)
- BARTOŠOVÁ KMEŤKOVÁ, J. [Kmeťková, J.] - PETRÁŠ, D.: Renovation of Apartment Buildings in Life Cycle. In: E-NOVA 2016 : Internationaler Kongress. Nachhaltige Technologien. Pinkafeld, Österreich, 24. und 25. Nov. 2016. 1. ed. Graz : Leykam Buchverlagsgesellschaft, 2016, pp. 413-418. ISBN 978-3-7011-0372-0 (in English)
- BARTOŠOVÁ KMEŤKOVÁ, J. [Kmeťková, J.] - PETRÁŠ, D.: Assessment of the Complex Renovation of an Apartment Building Regarding Its Life Cycle. In: Komplexná obnova bytových domov 2016. Zelená úsporám energie pri kvalitnej obnove : zborník prednášok. Podbanské, SR, 23. - 25. 11. 2016. 1. ed. Bratislava : Združenie pre podporu obnovy bytových domov, 2016, USB kľúč, pp. 51-56. ISBN 978-80-972493-1-1 (in Slovak)

- BARTOŠOVÁ KMEŤKOVÁ, J. [Kmeťková, J.]: Life Cycle Assessment of Energy and Cost of Apartment Building Retrofitting. In: Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference

on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 560-566. ISBN 978-80-227-4645-8 (in English)

ČERMANOVÁ, Z. [Krippelová, Z.] - PERÁČKOVÁ, J. - JÁGERSKÁ, L. [Laščeková, L.]: Storage Water Heaters Design Optimization in Apartment Buildings. In: CLIMA 2016 : proceedings of the 12th REHVA World Congress. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg : Aalborg University, Department of Civil Engineering, 2016, online, [9] p. ISBN 87-91606-36-5 (in English)

ČERMANOVÁ, Z. [Krippelová, Z.] - PERÁČKOVÁ, J. - JÁGERSKÁ, L. [Laščeková, L.]: New Design Methodology of Hot Water Heaters Based on Experimental Measurements in Apartment Buildings in Slovakia. In: E-NOVA 2016 : Internationaler Kongress. Nachhaltige Technologien. Pinkafeld, Österreich, 24. und 25. Nov. 2016. 1. ed. Graz : Leykam Buchverlagsgesellschaft, 2016, pp. 49-55. ISBN 978-3-7011-0372-0 (in English)

DERZSI, I.: The Impact of Quantitative Regulations on Circulating Pumps and Inside Comfort in a High-Rise Building. In: Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 573-579. ISBN 978-80-227-4645-8 (in Slovak)

FÖLDVÁRY, V. - KOLAŘÍK, J. - BEKÖ, G. - PETRÁŠ, D.: Effect of Building Renovation on Energy Use and Indoor Environment: Comparison of Simulations and Measurements in Six Apartment Buildings. In: Indoor Air 2016 : conference proceedings of the 14th International Conference of Indoor Air Quality and Climate. July 3-8 2016, Ghent, Belgium. 1. ed. Ghent : Ghent University, 2016, USB ključ, [2] p. ISBN 978-0-9846855-5-4 (in English)

FÜRI, B. - FRŤALOVÁ, M.: Application of Evaporative Cooling in the Modification of an Indoor Climate of Factory Structures. In: Vetranie a klimatizácia 2016. Zelená úsporám energie : zborník prednášok z 18. ročníka vedecko-odbornej konferencie. Štrbské Pleso, SR, 2. - 3. 6. 2016. 1. ed. Bratislava : Slovenská spoločnosť pre techniku prostredia, 2016, pp. 110-114. ISBN 978-80-89216-92-5 (in Slovak)

FÜRI, B.: Experimental Measurements with Methanol Filled Vertical Thermo-Siphon for Receiving Energy of Environment. In: EXPRES 2016 : proceedings of the 8th International Symposium on Exploitation of Renewable Energy Sources and Efficiency. Subotica, Serbia, 31. 3. - 2. 4. 2016. 1. ed. Subotica : Inženjersko-tehničko udruženje vojvođanskih Mađara, 2016, CD-ROM, pp. 20-23. ISBN 978-86-919769-0-3 (in English)

FÜRI, B.: Energy Evaluation of the Efficiency of Cycles with Carbon Dioxide. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 243-246. ISBN 978-80-89216-87-1 (in Slovak)

FÜRI, B.: Enforcement of Reversible Heat Pumps in Heating and Cooling Spaces. In: Obnoviteľné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 113-118. ISBN 978-80-89216-91-8 (in Slovak)

FÜRI, B. - TURZA, R.: Experimental Measurements of Water Evaporation Rate on the Physical Model. In: Vetranie a klimatizácia 2016. Zelená úsporám energie : zborník prednášok z 18. ročníka vedecko-odbornej konferencie. Štrbské Pleso, SR, 2. - 3. 6. 2016. 1. ed. Bratislava : Slovenská spoločnosť pre techniku prostredia, 2016, pp. 101-109. ISBN 978-80-89216-92-5 (in English)

FÜRI, B. - NIKOVÁ, I. - ŽIVNER, L.: Evaluations of Heat Pump System Effectiveness for Domestic Hot Water Preparation Extracted Renewable Energy from Environment. In: TOP 2016 : 22nd annual International Scientific Conference Engineering for Environment Protection. Častá - Papiernička, SR, 7. - 9. 6. 2016. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, USB ključ, [4] p. ISBN 978-80-227-4568-0 (in English)

HARTMAN, P. - MAŇKOVÁ, L. - KRAJČÍK, M.: The Effect of Internal Colored Surfaces on Our Biological Response to Daylight: An Experimental Study. In: CLIMA 2016 : proceedings of the 12th REHVA World Congress. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg : Aalborg University, Department of Civil Engineering, 2016, online, [10] p. ISBN 87-91606-36-5 (in English)

JÁGERSKÁ, L. [Laščeková, L.] - SZÁNTHÓ, Z. - PERÁČKOVÁ, J.: Experimental Measurement of Vacuum Roof Drainage. In: Sanhyga 2016 : zborník prednášok z 21. vedecko - technickej konferencie. Piešťany, SR, 13. - 14. 10. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 107-116. ISBN 978-80-89216-99-4 (in Slovak)

JÁGERSKÁ, L. [Laščeková, L.] - PERÁČKOVÁ, J. - BUZÁS, V. [Podobeková, V.] - KRAJČÍK, M.: Calculation Procedure of Siphonic Roof Drainage System. In: Proceedings of the 42nd International Symposium of CIB W062 on Water Supply and Drainage for Buildings : 29th Aug.- 1st Sept. 2016, Kosice, Slovakia. 1. ed. Košice : Elfa, 2016, USB ključ, pp. 259-272. ISBN 978-80-8086-258-9 (in English)

JÁGERSKÁ, L. [Laščeková, L.] - PERÁČKOVÁ, J.: Siphonic Roof Drainage System - Example of Design and Calculation Procedure. In: E-NOVA 2016 : Internationaler Kongress. Nachhaltige Technologien. Pinkafeld, Österreich, 24. und 25. Nov. 2016. 1. ed. Graz : Leykam Buchverlagsgesellschaft, 2016, pp. 459-470. ISBN 978-3-7011-0372-0 (in English)

JÁGERSKÁ, L. [Laščeková, L.]: Measuring of Pressure Behaviour in Model of Siphonic Roof Drainage System. In: Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 580-585. ISBN 978-80-227-4645-8 (in English)

JÁNOŠKOVÁ, T.: The Issue of Cost Allocation in Residential Heat Exchanger Stations. In: Meranie a rozpočítanie tepla 2016 : zborník prednášok. 16.

- konferencia s medzinárodnou účasťou. Senec, SR, 12. - 13. 11. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 87-92. ISBN 978-80-89878-02-4 (in Slovak)
- KALÚS, D.: Intelligent Facade System with Active Thermal Protection (ATP). In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 57-60. ISBN 978-80-89216-87-1 (in Slovak)
- KOUDELKOVÁ, D.: Impact of the Position of an Outside Temperature Sensor for the Objective Measurement of Weather Compensation. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 377-380. ISBN 978-80-89216-87-1 (in Slovak)
- KOVÁČOVÁ, D. - LULKOVIČOVÁ, O.: Evaluation of the Efficiency of a Solar Bivalent System in a Residential Building. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 309-312. ISBN 978-80-89216-87-1 (in Slovak)
- KOVÁČOVÁ, D.: Analysis of Solar Thermal Energy System in Slovakia. In: EXPRES 2016 : proceedings of the 8th International Symposium on Exploitation of Renewable Energy Sources and Efficiency. Subotica, Serbia, 31. 3. - 2. 4. 2016. 1. ed. Subotica : Inženjersko-tehničko združenie vojvodanskih Mađara, 2016, CD-ROM, pp. 110-113. ISBN 978-86-919769-0-3 (in English)
- KOVÁČOVÁ, D. - POČINKOVÁ, M.: Experience Gained from the Operation of a Solar System. In: Burza zkušeností z projektování, realizace a provozování staveb : sborník přednášek konference. Brno, ČR, 4. - 5. 2. 2016. 1. ed. Prague : Společnost pro techniku prostředí, 2016, USB klíč, pp. 76-81. ISBN 978-80-02-02636-5 (in Czech)
- KOVÁČOVÁ, D. - LULKOVIČOVÁ, O.: Preparation of Hot Water in Residential Buildings. In: „Obnovitelné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 39-44. ISBN 978-80-89216-91-8 (in Slovak)
- KRAFČÍK, M. - PERÁČKOVÁ, J.: Experimental Measurement of Hot and Cold water in an Apartment Building. In: Sanhyga 2016 : zborník prednášok z 21. vedecko - technickej konferencie. Piešťany, SR, 13. - 14. 10. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 77-89. ISBN 978-80-89216-99-4 (in Slovak)
- KRAJČÍK, M.: Energy Assessment of Building Technical Systems. In: Energetický manažment 2016. Znižovanie energetickej náročnosti efektívnym riadením spotreby energie : zborník prednášok s vedecko-odbornej konferencie. Štrbské Pleso, SR, 18. - 19. 4. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 109-114. ISBN 978-80-89216-89-5 (in Slovak)
- KRAJČÍK, M. - KUDIVÁNI, L. [Hrčková, L.] - MAHDAVI, A.: Estimating Energy Saving Potential by Applying Personalized Ventilation in an Open Space Office in Winter. In: Simulace budov a techniky prostředí 2016 : sborník 9. konference IBPSA-CZ. Brno, ČR, 10. a 11. 11. 2016. 1. ed. Prague : IBPSA-CZ, 2016, pp. 121-126. ISBN 978-80-270-0772-1 (in English)
- KRAJČÍK, M.: Nearly Zero Energy Buildings and Their Indoor Environment. In: Indoor Climate of Buildings 2016 : Environmentally Friendly and Energy Efficient Buildings. 27th Annual and 9th International Conference. Štrbské pleso, Slovakia, 27. - 30. Nov. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 167-175. ISBN 978-80-89878-03-1 (in English)
- KUDIVÁNI, L. [Hrčková, L.] - KRAJČÍK, M.: Evaluation of Indoor Air Quality in a Library Using Natural CO2 as Tracer Gas: A Case Study. In: CLIMA 2016 : proceedings of the 12th REHVA World Congress. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg : Aalborg University, Department of Civil Engineering, 2016, online, [10] p. ISBN 87-91606-36-5 (in English)
- KUDIVÁNI, L. [Hrčková, L.] - KRAJČÍK, M. - PETRÁŠ, D.: Assessment of Indoor Air Quality in Buildings: A Case Study in the Student Library. In: Technická zařízení pro zdravé vnitřní prostředí v energeticky úsporných obytných budovách : sborník přednášek 14. Letní školy TZB. Český Šternberk, ČR, 7. - 9. 9. 2016. 1. ed. Prague : Společnost pro techniku prostředí, 2016, pp. 30-38. ISBN 978-80-02-02676-1 (in Slovak)
- KUDIVÁNI, L. [Hrčková, L.] - KRAJČÍK, M. - PETRÁŠ, D.: Analysis of Various Radiant Floor Heating Systems Using Dynamic Simulation in Trnsys. In: Indoor Climate of Buildings 2016 : Environmentally Friendly and Energy Efficient Buildings. 27th Annual and 9th International Conference. Štrbské pleso, Slovakia, 27. - 30. Nov. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 247-253. ISBN 978-80-89878-03-1 (in English)
- KUDIVÁNI, L. [Hrčková, L.]: Analysis of Energy Performance and Operation Costs of Low-Energy Heating System Using Computer Simulation. In: Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 592-597. ISBN 978-80-227-4645-8 (in English)
- KURČOVÁ, M.: Control of Heating Systems with Different Heat Sources. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 403-408. ISBN 978-80-89216-87-1 (in Slovak)
- KURČOVÁ, M. - EHRENWALD, P.: Possibility Cooperation of Space Heating System with Heat Pump. In: EXPRES 2016 : proceedings of the 8th International Symposium on Exploitation of Renewable Energy Sources and Efficiency. Subotica, Serbia, 31. 3. - 2. 4. 2016. 1. ed. Subotica : Inženjersko-tehničko združenie vojvodanskih Mađara, 2016, CD-ROM, p. 52-54. ISBN 978-86-919769-0-3 (in English)

KURČOVÁ, M.: The Impact of Heat Exchange on the Quality of a Heating System. In: ÉPKO 2016 : 20th International conference on civil engineering and architecture. Sumuleu Ciuc, Romania, 1. - 5. 6. 2016, XX. Nemzetközi építéstudományi konferencia. Cluj : Hungarian Technical Scientific Society of Transylvania, 2016, pp 144-147. ISSN 1843-2123 (in Hungarian)

KURČOVÁ, M.: Protect the Heater from the Interior „Designers“. In: Meranie a rozpočítanie tepla 2016 : zborník prednášok. 16. konferencia s medzinárodnou účasťou. Senec, SR, 12. - 13. 11. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 83-86. ISBN 978-80-89878-02-4 (in Slovak)

LÖFFLER, J. - LEIMBERGER, P.: The Second Generation of European Standards for the Energy Efficiency of Buildings, Ventilation and Air Conditioning Systems of the EN 16798 Which Brings a New Dimension. In: Vetrание a klimatizácia 2016. Zelená úsporám energie : zborník prednášok z 18. ročníka vedecko-odbornej konferencie. Štrbské Pleso, SR, 2. - 3. 6. 2016. 1. ed. Bratislava : Slovenská spoločnosť pre techniku prostredia, 2016, pp. 124-128. ISBN 978-80-89216-92-5 (in Slovak)

MICHALIČKOVÁ, S. - LULKVIČOVÁ, O.: Solar Cooling - Analysis of Absorption Chiller with the Pair of Matter H₂O/LiBr and NH₃/H₂O. In: Juniorstav 2016 : 18. odborná konferencia doktorského studia. Brno, ČR, 28. 1. 2016. 1. ed. Brno : Vysoké učení technické v Brně, 2016, CD-ROM, [7] p. ISBN 978-80-214-5311-1 (in English)

MICHALIČKOVÁ, S.: Analysis of Working Substances in the Cooling Circuit of the Solar System. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 327-332. ISBN 978-80-89216-87-1 (in Slovak)

MICHALIČKOVÁ, S.: Solar Cooling. In: Obnoviteľné zdroje energie 2016 : zborník prednášok z 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 51-57. ISBN 978-80-89216-91-8 (in Slovak)

MICHALIČKOVÁ, S. - LULKVIČOVÁ, O.: Analysis of Ideal Absorption Cycle with Support of Solar Energy and the Use of Working Solutions H₂O/LiBr and NH₃/H₂O. In: CLIMA 2016 : proceedings of the 12th REHVA World Congress. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg : Aalborg University, Department of Civil Engineering, 2016, online, [8] p. ISBN 87-91606-36-5 (in English)

NÉMETHOVÁ, E. - PETRÁŠ, D.: Thermal State of Radiant Ceiling Heated Interiors. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 491-497. ISBN 978-80-89216-87-1 (in Slovak)

NÉMETHOVÁ, E. - PETRÁŠ, D. - KRAJČÍK, M.: Indoor Environment in a High-Rise Building with Lightweight Envelope and Thermally Active Ceiling. In: CLIMA 2016 : proceedings of the 12th REHVA World Congress. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg : Aalborg University, Department of Civil Engineering, 2016, online, [8] p. ISBN 87-91606-36-5 (in English)

NÉMETHOVÁ, E. - PETRÁŠ, D. - STUTTERECKER, W. - SCHOBBERER, T.: Indoor Environment Challenges in a New Type Office Building: Case study. In: E-NOVA 2016 : Internationaler Kongress. Nachhaltige Technologien. Pinkafeld, Österreich, 24. und 25. Nov. 2016. 1. ed. Graz : Leykam Buchverlagsgesellschaft, 2016, pp. 177-187. ISBN 978-3-7011-0372-0 (in English)

NÉMETHOVÁ, E. - STUTTERECKER, W. - SCHOBBERER, T.: Indoor Environment Challenges in New-Type Office Buildings - Deficiencies and Solutions. In: Indoor Climate of Buildings 2016 : Environmentally Friendly and Energy Efficient Buildings. 27th Annual and 9th International Conference. Štrbské pleso, Slovakia, 27. - 30. November 2016. 1. ed. Bratislava : SSTP, 2016, pp. 119-128. ISBN 978-80-89878-03-1 (in English)

NÉMETHOVÁ, E.: Thermal Environment Optimization Created by Different Types of Low-Energy Systems in a New Type Office Building. In: Advances in Architectural, Civil and Environmental Engineering : 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 598-605. ISBN 978-80-227-4645-8 (in English)

NIKO, I. - NIKOVÁ, I.: RES nZEB Constructed from MGU Building System, Biomass or Heat Pumps? In: Obnoviteľné zdroje energie 2016 : zborník prednášok z 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 133-137. ISBN 978-80-89216-91-8 (in Slovak)

NIKOVÁ, I.: Analysis of the Operating Conditions of Low Temperature Systems and Transmission of the Energy Buildings with Using Heat Pumps. In: Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics. 26. Oct. 2016, Bratislava. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 606-611. ISBN 978-80-227-4645-8 (in English)

OLBŘÍMEK, J. - STRAKOVÁ, Z.: Design of the Central Ventilation System for Residential Buildings in Accordance with the Fire Safety of Building's Requirement. In: ATF 2016 : Proceedings from 4th International Conference on Applied Technology. 15-17 Sept. 2016, Leuven, Belgium. 1. ed. Leuven : The Katholieke Universiteit Leuven, 2016, USB klíč, pp. 227-232. ISBN 9789086497966 (in English)

PERÁČKOVÁ, J.: Regulatory Information MH SR č. 240/2016 Z.z. In: Sanhyga 2016 : zborník prednášok z 21. vedecko - technickej konferencie. Piešťany, SR, 13. - 14. 10. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 9-10. ISBN 978-80-89216-99-4 (in Slovak)

PETRÁŠ, D.: Radiant low Temperature Heating and High Temperature Cooling. In: Indoor Climate of Buildings 2016 : Environmentally Friendly and Energy Efficient Buildings. 27th Annual and 9th International Conference. Štrbské pleso, Slovakia, 27. - 30. Nov. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 17-23. ISBN 978-80-89878-03-1 (in English)

- PETRÁŠ, D.: New Trends in the Application of Advanced Systems of Environmental Technology. In: *Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách*. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 485-490. ISBN 978-80-89216-87-1 (in Slovak)
- PETRÁŠ, D.: Low Energy Systems of the Environment of Buildings with Heat Pumps. In: *Obnoviteľné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“*. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 139-142. ISBN 978-80-89216-91-8 (in Slovak)
- PETRÁŠ, D.: Energy Audits of Buildings. In: *Energetický manažment 2016. Znižovanie energetickej náročnosti efektívnym riadením spotreby energie : zborník prednášok s vedecko-odbornej konferencie*. Štrbské Pleso, SR, 18. - 19. 4. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 21-26. ISBN 978-80-89216-89-5 (in Slovak)
- PETRÁŠ, D.: Energy Demands for Heating and Domestic Hot Water in Apartment Buildings. In: *Meranie a rozpočítanie tepla 2016 : zborník prednášok*. 16. konferencia s medzinárodnou účasťou. Senec, SR, 12. - 13. 11. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 47-51. ISBN 978-80-89878-02-4 (in Slovak)
- SÁNKA, I. - ŠABÍKOVÁ, J. - FÖLDVÁRY, V.: Evaluation of Selected Indoor Environment Parameters in a Dwelling Before and After Refurbishment. In: *Indoor Climate of Buildings 2016 : Environmentally Friendly and Energy Efficient Buildings*. 27th Annual and 9th International Conference. Štrbské pleso, Slovakia, 27. - 30. Nov. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 41-49. ISBN 978-80-89878-03-1 (in English)
- SKALÍK, L. - LULKOVIČOVÁ, O.: Innovations in the Design of Solar Energy Systems. In: *Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách*. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 313-316. ISBN 978-80-89216-87-1 (in Slovak)
- SKALÍK, L.: Variation of Solar Energy System Components According to Its Efficiency. In: *EXPRES 2016 : proceedings of the 8th International Symposium on Exploitation of Renewable Energy Sources and Efficiency*. Subotica, Serbia, 31. 3. - 2. 4. 2016. 1. ed. Subotica : Inženjersko-tehničko udruženje vojvođanskih Mađara, 2016, CD-ROM, p. 119-122. ISBN 978-86-919769-0-3 (in English)
- SKALÍK, L.: The State of the Art in the Design of Solar Energy Systems. In: *Obnoviteľné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“*. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 33-38. ISBN 978-80-89216-91-8 (in Slovak)
- STRAKOVÁ, Z.: Utilization of a Convective Component of Radiating Heaters for the Ventilation of an Industrial Building. In: *Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách*. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 499-205. ISBN 978-80-89216-87-1 (in Slovak)
- STRAKOVÁ, Z. - TAKÁCS, J.: The Mechanical Ventilation for Large-Area Buildings of Engineering Industry. In: *EXPRES 2016 : proceedings of the 8th International Symposium on Exploitation of Renewable Energy Sources and Efficiency*. Subotica, Serbia, 31. 3. - 2. 4. 2016. 1. ed. Subotica : Inženjersko-tehničko udruženje vojvođanskih Mađara, 2016, CD-ROM, pp. 41-45. ISBN 978-86-919769-0-3 (in English)
- STRAKOVÁ, Z. - PRIBYL, P.: The Hygienic Ventilation in Combination with Radiant Heating for Industry Buildings. In: *CLIMA 2016 : proceedings of the 12th REHVA World Congress*. Aalborg, Denmark, 22. - 25. 5. 2016. Aalborg : Aalborg University, Department of Civil Engineering, 2016, online, [9] p. ISBN 87-91606-36-5 (in English)
- STRAKOVÁ, Z.: Perennial Energy Balance of a Combined Ventilation and Heating System. In: *Vetrание a klimatizácia 2016. Zelená úsporám energie : zborník prednášok z 18. ročníka vedecko-odbornej konferencie*. Štrbské Pleso, SR, 2. - 3. 6. 2016. 1. ed. Bratislava : Slovenská spoločnosť pre techniku prostredia, 2016, pp 13-19. ISBN 978-80-89216-92-5 (in Slovak)
- ŠIMKO, M.: Research on a Wall Energy System with Active Thermal Protection. In: *Juniorstav 2016 : 18. odborná konferencia doktorského studia*. Brno, ČR, 28. 1. 2016. 1. ed. Brno : Vysoké učení technické v Brně, 2016, CD-ROM, [9] p. ISBN 978-80-214-5311-1 (in Slovak)
- TAKÁCS, J.: Experience Gained in the Design and Implementation of Geothermal Heat Exchanger Systems in Agriculture. In: *Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách*. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 165-168. ISBN 978-80-89216-87-1 (in Slovak)
- TAKÁCS, J.: Experience Gained from the Operation of Geothermal Systems in Agriculture. In: *Obnoviteľné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“*. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 71-76. ISBN 978-80-89216-91-8 (in Slovak)
- TAKÁCS, J.: Methodology for Evaluating the Operation of Thermal Pools. In: *Obnoviteľné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“*. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 77-82. ISBN 978-80-89216-91-8 (in Slovak)
- TAKÁCS, J. - FÜRI, B. - DERZSI, I.: Geothermal Energy and Heat Exchangers Used in Agriculture. In: *ÉPKO 2016 : 20th International conference on civil engineering and architecture*. Sumuleu Ciuc, Romania, 1. - 5. 6. 2016, XX. Nemzetközi építéstudományi konferencia. Cluj : Hungarian Technical Scientific Society of Transylvania, 2016, pp. 259-263. ISSN 1843-2123 (in Hungarian)
- TAKÁCS, J. - RÁCZ, L.: The Analysis of Thermal Network of District Heating System from Investor Point of View. In: *AIP Conference Proceedings : The Application of Experimental and Numerical Methods in Fluid Mechanics and Energy 2016*. Terchová, SR, 27. - 29. 4. 2016. Vol. 1745, (2016), online, [6] p. ISSN 0094-243X (in English)

TAKÁCS, J. - SZÁNTÓ, Z.: The Issue of Domestic Hot Water in District Heating Systems in Hungary. In: Meranie a rozpočítanie tepla 2016 : zborník prednášok. 16. konferencia s medzinárodnou účasťou. Senec, SR, 12. - 13. 11. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 113-120. ISBN 978-80-89878-02-4 (in Slovak)

TAKÁCS, J. - DERZSI, I.: Changes in Hydraulic Conditions in Heating Systems for the Thermal Insulation of Residential Buildings. In: Komplexná obnova bytových domov 2016. Zelená úsporám energie pri kvalitnej obnove : zborník prednášok. Podbanské, SR, 23. - 25. 11. 2016. 1. ed. Bratislava : Združenie pre podporu obnovy bytových domov, 2016, USB kľúč, pp. 133-138. ISBN 978-80-972493-1-1 (in Slovak)

TURZA, R. - FÜRI, B. - NIKOVÁ, I.: Assessment of Microclimate Measurements in Indoor Swimming Pool. In: Indoor Climate of Buildings 2016 : Environmentally Friendly and Energy Efficient Buildings. 27th Annual and 9th International Conference. Štrbské pleso, Slovakia, 27. - 30. Nov. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 155-164. ISBN 978-80-89878-03-1 (in English)

VALÁŠEK, J. - KRAJČÍK, M.: Assessment of Selected Buildings with Ultralow Energy Demands. In: Sanhyga 2016 : zborník prednášok z 21. vedecko - technickej konferencie. Piešťany, SR, 13. - 14. 10. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 145-150. ISBN 978-80-89216-99-4 (in Slovak)

VÁRFALVI, J. - KONTRA, J. - TAKÁCS, J. - KRAJČÍK, M.: Estimation and Measurement of Heat from Municipal Landfills. In: Applied Mechanics and Materials : selected, peer reviewed papers from the 21st International Conference on „Engineering for Environmental Protection - TOP“, Senec, SR, 23. - 25. 6. 2015. Vol. 832, (2016), pp. 103-108. ISSN 1660-9336 (in English)

VÍCHOVÁ, K. [Malinová, K.]: Optimization of Thermal Radiation Losses in the Operation of Biomass Boilers. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 103-106. ISBN 978-80-89216-87-1 (in Slovak)

VÍCHOVÁ, K. [Malinová, K.]: Biomass: Trends and Usage. In: Obnoviteľné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 85-88. ISBN 978-80-89216-91-8 (in Slovak)

VÍCHOVÁ, K. [Malinová, K.]: - ŠOOŠ, Ľubomír - BAŤALA, Jozef. Innovation in the Use of Woody Biomass and Agromass. In: TOP 2016 : Proceedings of 22nd Annual International Scientific Conference Engineering for Environmental Protection. Časť - Papiernička, SR, 7. - 9. 6. 2016. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 91. ISBN 978-80-227-4568-0 (in Slovak)

VÍCHOVÁ, K. [Malinová, K.]: On the Disrepair of the Pipelines of an Apartment SVB Report Building. In: Komplexná obnova bytových domov 2016. Zelená úsporám energie pri kvalitnej obnove : zborník prednášok. Podbanské, SR, 23. - 25. 11. 2016. 1. ed. Bratislava : Združenie pre podporu obnovy bytových domov, 2016, USB kľúč, pp. 139-142. ISBN 978-80-972493-1-1 (in Slovak)

VÖRÖSNÉ LEITNER, A. - BARNA, L. - KAJTÁR, L. - TAKÁCS, J.: Healthy Environment in the Kitchens Too! In: Sanhyga 2016 : zborník prednášok z 21. vedecko - technickej konferencie. Piešťany, SR, 13. - 14. 10. 2016. 1. ed. Bratislava : SSTP, 2016, pp. 139-144. ISBN 978-80-89216-99-4 (in English)

ŽIVNER, L. - NIKOVÁ, I.: Efficiency of Heat Pump Mode for Hot Water During the Summer Season. In: Vykurovanie 2016 : zborník prednášok z 24. medzinárodnej vedecko-odbornej konferencie na tému Zelená úsporám energie v budovách. Stará Ľubovňa, SR, 7. - 11. 3. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 279-282. ISBN 978-80-89216-87-1 (in Slovak)

ŽIVNER, L. - NIKOVÁ, I.: Efficiency of a Hot Water Heat Pump in the Winter Season. In: Obnoviteľné zdroje energie 2016 : zborník prednášok zo 16. vedecko-odbornej konferencie so zahraničnou účasťou na tému „Nízkoenergetické systémy pre zásobovanie budov teplom“. Štrbské Pleso, SR, 17. - 18. 5. 2016. 1. ed. Bratislava : SSTP, 2016, CD-ROM, pp. 123-127. ISBN 978-80-89216-91-8 (in Slovak)

Others

JÁNOŠKOVÁ, T. (ed.): Measurement and Heat Cost Allocation 2016. 1. ed. Bratislava : SSTP, 2016. CD-ROM, 139 pp. ISBN 978-80-89878-02-4 (in Slovak)

PERÁČKOVÁ, J. (ed.). Sanhyga 2016 : zborník prednášok z 21. vedecko - technickej konferencie. Piešťany, SR, 13. - 14. 10. 2016. 1. ed. Bratislava : SSTP, 2016. 222 pp. ISBN 978-80-89216-99-4 (in Slovak)

PETRÁŠ, D. (ed.) - ŠVECOVÁ, Z. (ed.). Heating 2016. 1. ed. Bratislava : SSTP, 2016. CD-ROM, 519 pp. ISBN 978-80-89216-87-1 (in Slovak)

PETRÁŠ, D. (ed.) - ŠVECOVÁ, Z. (ed.). Renewable energy 2016. 1. ed. Bratislava : SSTP, 2016. CD-ROM, 147 pp. ISBN 978-80-89216-91-8 (in Slovak)

STRAKOVÁ, Z. (ed.). Ventilation and Air Conditioning 2016. Green for Energy Savings. 1. ed. Bratislava : Slovenská spoločnosť pre techniku prostredia, 2016. 131 pp. ISBN 978-80-89216-92-5 (in Slovak)

Unknown

ČERMANOVÁ, Z. [Krippelová, Z.]: The Consumption of Hot Water and the Energy Balance of Hot Water Preparation in Apartment Houses. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016. 208 pp. ISBN 978-80-227-4624-3 (in Slovak)

KRAJČÍK, M.: Energy Balance and Indoor Environment of Buildings with Low-Energy Heating and Cooling Systems. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016. 164 pp. Edícia vedeckých prác. ISBN 978-80-227-4614-4 (in English)

KURČOVÁ, M.: The Influence of Dwelling Renovation on Hydronics in Heating Systems. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016. 132 pp. Edícia vedeckých prác. ISBN 978-80-227-4626-7 (in Slovak)

SKALÍK, L.: Performance Evaluation of Solar Energy Systems in Buildings. 1. ed. Bratislava : Slovenská technická univerzita v Bratislave, 2016. 185 pp. ISBN 978-80-227-4625-0 (in Slovak)

DEPARTMENT OF ARCHITECTURE

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

History of Architecture and Civil Engineering

History of Architecture and Art 1

Typology 1

Drawing and Composition

Design Studio 1

History of Architecture and Art 2

Design Studio 2

Composition and Colour in Architecture

Typology 2

Typology 3

Bachelor's Work

Urbanism

Renovation of Buildings and Preservation of Monuments 1

Typology 5

Design Studio 4

Urbanism 2

Design Studio 5

History of Architecture and Art 3

Restoration and Preservation of Monuments 2

Design Studio 6

Urbanism 3

Interior Design 1

Design Studio 7

Design Studio 8

Design Studio 9

Special Seminar

Thesis

Design Studio 10

Internship

Obligatory elective subjects

Drawing and Modelling

Typology 4

Philosophical, Aesthetic and Compositional Principles in Architectural Design

History of Urban and Rural Settlements

History of Drawing and Sketching

Optional subjects

Interior Design 2

Landscape Design

Humanization and Revitalization of the Built Environment

1.2 Postgraduate courses

Doctoral Degree Study: Theory and Construction of Building Structures

2. THESES

2.1 Bachelor theses

There were 26 works.

2.2 Graduate theses

VAJDULÁK, M.: Winery

Supervisor: BORECKÁ, E.

CHLAŇ, M.: Winery

Supervisor: BORECKÁ, E.

MARIANKOVÁ, L.: Wellness Centrum

Supervisor: HÚSENICOVÁ, J.

PAULECHOVÁ, A.: Hotel in the Mountains

Supervisor: HÚSENICOVÁ, J.

MARTVOŇ, M.: Community Development in Brest, Belarus

Supervisor: HÚSENICOVÁ, J.

VAŇOVÁ, K.: Revitalisation of a Cultural Centre

Supervisor: PAŇÁK, P.

KIABOVÁ, E.: Community Development in Brest, Belarus
Supervisor: PAŇÁK, P.

RUHIG, R.: Community Development in Brest, Belarus
Supervisor: PAŇÁK, P.

PETROVÁ, J.: Winery
Supervisor: PAŇÁK, P.

JURKOVIČOVÁ, J.: Leisure and Sports Centre, Stupava
Supervisor: NÁDASKÁ, Z.

REČLOVÁ, M.: Community Centre - Prochot'
Supervisor: DOHŇANSKÁ, E.

GREGUSSOVÁ, J.: Žiar Goat Farm
Supervisor: DOHŇANSKÁ, E.

KRUPOVÁ, B.: Student Centre
Supervisor: KUBIŠOVÁ, M.

IVOROVÁ, M.: Residential Complex
Supervisor: KURÁŇ, J.

HAJSTER, S.: Amphitheatre
Supervisor: BAUER, P.

HODÁKOVÁ, N.: Roman Catholic Church
Supervisor: BAUER, P.

HURŇANSKÝ, Š.: Cottage in the Mountains
Supervisor: BAUER, P.

KAÁNOVÁ, V.: Cultural Centre
Supervisor: BAUER, P.

OGURČÁK, D.: Winery
Supervisor: GÜRTLER, I.

MECELE, M.: Winery
Supervisor: GÜRTLER, I.

BEŇOVÁ, N.: Winery
Supervisor: GÜRTLER, I.

3. RESEARCH

3.2 International cooperation

Cooperating institutions

VŠB-TU Ostrava, Faculty of Civil Engineering, Czech Republic

ČVUT-Czech Technical University in Prague, Faculty of Civil Engineering

4. PUBLICATIONS

Books

BORECKÁ, E. [20 %] - KURÁŇ, Jozef [12 %] - NÁDASKÁ, Z. [12 %]
- ŠIMKOVIČOVÁ, V. [12 %] - DOHŇANSKÁ, Z. [12 %] - PILAŘ, P. [12 %] -
RUHIG, R. [10 %] - KIABOVÁ, E. [10 %]. Winery Architecture. 1. ed. Bratislava
: Pre-um, 2016. 82 pp. ISBN 978-80-972192-4-6.

BRÁNICKÝ, F. [25 %] - KIABOVÁ, E. [30 %] - RUHIG, R. [25 %] - PAŇÁKOVÁ,
B. [10 %] - BOJDOVÁ, Z. [10 %]. Archtrip 2016. 1. ed. Bratislava : Pre-um,
2016. 70 pp. ISBN 978-80-972192-7-7.

KUBIŠOVÁ, M. [64 %] - GÜRTLER, I. [1 %] - BAUER, P. [10 %] - NÁDASKÁ, Z.
[15 %] - RUHIG, R. [10 %]. Architecture in the Mountains. 1. ed. Bratislava :
Pre-um, 2016. 85 pp. ISBN 978-80-972192-6-0.

KURÁŇ, J. [53 %] - BAUER, P. [3 %] - BORECKÁ, E. [3 %] - BRÁNICKÝ,
F. [3 %] - DOHŇANSKÁ, E. [7 %] - GÜRTLER, I. [3 %] - HÚSENICOVÁ,
Jarmila [3 %] - KUBIŠOVÁ, M. [3 %] - MUDRONČÍK, M. [3 %] - MELLNER,
D. [3 %] - NÁDASKÁ, Z. [3 %] - PILAŘ, P. [7 %] - STRUHAŘOVÁ, P. [3 %]
- ŠIMKOVIČOVÁ, V. [3 %]. Design Studio 2016. 1. ed. Bratislava : Pre-um
2016. 77 pp. ISBN 978-80-972192-3-9.

NÁDASKÁ, Z. [90 %] - PILAŘ, P. [10 %]. Architecture and Outdoor Activities .
1. ed. Bratislava : Pre-um, 2016. 73 pp. ISBN 978-80-972192-5-3.

KURÁŇ, J. [54 %] - BAUER, P. [3 %] - BORECKÁ, E. [3 %] - BRÁNICKÝ, F.
[3 %] - DOHŇANSKÁ, E. [8 %] - GÜRTLER, I. [3 %] - HÚSENICOVÁ, J. [3 %] -
KUBIŠOVÁ, M. [3 %] - MUDRONČÍK, M. [3 %] - NÁDASKÁ, Z. [3 %] - PAŇÁK,
P. [3 %] - PILAŘ, P. [8 %] - ŠIMKOVIČOVÁ, V. [3 %]. Graduates 2016. 1. ed.
Bratislava : Pre-um, 2016. 63 pp. ISBN 978-80-972192-2-2.

Journals

BORECKÁ, E. [100 %]. Notes on the Activities of the Emil Brüll Construction
Company in Bratislava. In: Architecture and Urbanism. Vol 50, Nos. 1-2
(2016), pp. 104-109. ISSN 0044-8680.

BORECKÁ, E. [50 %] - MELLNER, D. [50 %]. The Progressive Constructions
in the Works of the Architects of Classical Modernism, Slovakia 1919-1939.
In: Applied Mechanics and Materials : Advanced Architectural Design and
Construction. Vol. 820, (2016), pp. 21-26. ISSN 1660-9336.

HÚSENICOVÁ, J. [50 %] - DOHŇANSKÁ, Z. [50 %]. Selected Aspects of
Territorial Development Visions of the Slovak Republic. In: Applied Mechanics
and Materials: Advanced Architectural Design and Construction. Vol. 820,
(2016), pp. 15-20. ISSN 1660-9336.

SZÁANTOVÁ, G. [95 %] - RYCHTÁRIKOVÁ, M. [5 %]. Indoor Architectural
Environment as a Healing Factor for Depression and Seasonal Affective
Disorders. In: Applied Mechanics and Materials : Energy Saving and
Environmentally Friendly Technologies - Concepts of Sustainable Building. Vol.
824, (2016), pp. 210-217. ISSN 1660-9336.

BORECKÁ, E. [100 %]. New Information about the Manor House in Častá. In: *Monuments and Museums*. Vol. 65, No. 4 (2016), pp. 40-41. ISSN 1335-4353

MUDRONČÍK, M. [100 %]. Footprints of the Functionalist Architect Juraj Tvarožek in Bratislava. In: *Cultural Oxygen*. Vol. 3, No. 3 (2016), online, pp. 20-22. ISSN 1339-6919.

PILAŘ, P. [100 %]. Future of the Buildings for Culture from the Post-War Period. In: *Cultural Oxygen*. Vol. 3, No. 3 (2016), online, pp. 15-16. ISSN 1339-6919.

Conference Proceedings

BORECKÁ, E. [100 %]. Architekt H. K. Stark. - Graduate of VUT Brno and His Work in Slovakia at the Time of the 1st ČSR Republic. In: *Architecture in Perspective 2016 : Proceedings of International Conference. Architecture in Perspective 2016*, Ostrava, Czech Republic, 13-14th Oct. 2016. Ostrava : TU Ostrava, 2016, pp. 240-242. ISBN 978-80-248-3940-0.

HÚSENICOVÁ, J. [100 %]. Climate Change and Chances to Stabilize and Improve Urban Environments. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): Proceedings of the Scientific Conference with international participation*. Dec. 10th, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava : VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 7-11. ISBN 978-80-248-4003-1.

HÚSENICOVÁ, J. [100 %]. Housing as One of the Principal Components of Urbanization. In: *Advanced Architectural Design and Construction 2016 (AADC 2016) : Proceedings of the Scientific Conference with international participation*. June 23rd, 2016, Lednice, Czech Republic. 1. ed. Brno : VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 19-25. ISBN 978-80-214-5445-3.

KIABOVÁ, E. [100 %]. The Importance of Innovation in the Energy Sector. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): Proceedings of the Scientific Conference with international participation*. Dec. 10th, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava : VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 24-28. ISBN 978-80-248-4003-1.

KURÁŇ, J. [100 %]. Multi-storey Car-Parks as Development Infrastructure. In: *Advanced Architectural Design and Construction 2016 (AADC 2016): Proceedings of the Scientific Conference with international participation*. June 23rd, 2016, Lednice, Czech Republic. 1. ed. Brno : VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 55-59. ISBN 978-80-214-5445-3.

KURÁŇ, J. [100 %]. Architectural and Design Trends in Parking Garage Buildings. In: *Advanced Architectural Design and Construction 2016 (AADC 2016): Proceedings of the Scientific Conference with international participation*. June 23rd, 2016, Lednice, Czech Republic. 1. ed. Brno : VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 70-75. ISBN 978-80-214-5445-3.

MEŠINA, M. [100 %]. COHOUSING. In: *Juniorstav 2016: 18. Proceedings of the Scientific Conference of PHD Students*. Brno, ČR, 28. 1. 2016. 1. ed. Brno : VUT Brno, 2016, CD-ROM, [8] pp. ISBN 978-80-214-5311-1.

NÁDASKÁ, Z. [50 %] - SVITEK, J. [50 %]. Revitalization of the Former Train Station Area in Stupava. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): Proceedings of the Scientific Conference with international participation*. Dec. 10th, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava : VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 53-56. ISBN 978-80-248-4003-1.

PILAŘ, P. [100 %]. Kulturfabrik – Syntesis of Non-Traditional Art and Building Conversions. In: *Architecture in Perspective 2016 : Proceedings of the Scientific Conference with international participation. Architecture in Perspective 2016*, Ostrava, Czech Republic, 13-14th Oct. 2016. Ostrava : VŠB - TU Ostrava, 2016, pp. 231-233. ISBN 978-80-248-3940-0.

PILAŘ, P. [100 %]. Relationship between Virtual (Film) and Real Environments in Cities. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): Proceedings of the Scientific Conference with international participation*. Dec. 10th, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava : VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 300-304. ISBN 978-80-248-4003-1.

RUHIG, R. [100 %]. Functionalism, Disguised Formalism - Reflections on a Conversation with Jan Michal. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): Proceedings of the Scientific Conference with international participation*. Dec. 10, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava : VŠB - Technical University of Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 40-47. ISBN 978-80-248-4003-1.

STRUHAŘOVÁ, P. [100 %]. Future of the Educational and Adventure Areas Oriented Towards Science and Technology. In: *Advanced Building Construction and Materials 2016 (ABCM 2016): Proceedings of the Scientific Conference with international participation*. Dec. 10th, 2016, Luhačovice, Czech Republic. 1. ed. Ostrava : VŠB - Technical University Ostrava, Faculty of Safety Engineering, 2016, CD-ROM, pp. 34-39. ISBN 978-80-248-4003-1

ŽJAKOVÁ, D. [Varga, Daniela] [100 %]. Rainwater Infiltration in Urban Areas. In: *Advanced Architectural Design and Construction 2016 (AADC 2016) : Proceedings of the Scientific Conference with international participation*. June 23rd, 2016, Lednice, Czech Republic. 1. ed. Brno : VUT - Brno University of Technology, Faculty of Civil Engineering, 2016, CD-ROM, pp. 34-38. ISBN 978-80-214-5445-3

BRÁNICKÝ, F. [100 %]. Inspiration from the Orava Tradition. In: *Advances in Architectural, Civil and Environmental Engineering: 26th Annual PhD Student Conference on Architecture and Construction Engineering, Building Materials, Structural Engineering, Water and Environmental Engineering, Transportation Engineering, Surveying, Geodesy, and Applied Mathematics*. 26th Oct. 2016, Bratislava. 1. ed. Bratislava : STU Bratislava, 2016, CD-ROM, pp. 455-462. ISBN 978-80-227-4645-8.

Others

RUHIG, R.: Inspireli Awards 2016., National Slovak Stage, 3rd place.

RUHIG, R. – Kiabová, E.: Isover Multicomfort House: Student Contest, 12th International Stage – Minsk 2016, Participation and Presentation, May 2016.

5. ACTIVITY IN THE FIELD OF ART

MELLNER, D. - BORECKÁ, E.: Curators of Exhibition in Trenčianske Teplice : Architecture of the Modern Era. June – July 2016.

PILAŘ, P. - BRÁNICKÝ, F.: Exhibition Pavilion of SvF STU Bratislava International Fair CONECO 2016 Bratislava. April 2016.

PRIBIŠ, M.: Exhibition XXV. Salón 2016 – Participation, Bratislava Gallery SVÚ. April 2016.

ŘEHÁK, I.: Bohemian Chronicle of Václav Hájek from Libočany, 475th Anniversary in print. Silver commemorative medal. Prague Mint. Mar. 2016.

ŘEHÁK, I.: Bohemian Chronicle of Václav Hájek from Libočany, 475th Anniversary in print. Gold commemorative medal. Prague Mint. Mar. 2016.

ŘEHÁK, I.: Exhibition - Art Medalworld Congress FIDEM XXXIV 2016 – Participation. Driebergen-Rijsenburg (The Netherlands), Sept. 2016.

ŽJAKOVÁ (VARGA), D.: Conversion of Old Hops Storage Building, Báčsky Petrovec, Exhibition in Báčsky Petrovec, Serbia, April 2016.

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1. EDUCATION

1.1 Graduate study

Optional subjects

Forensic Engineering

Real Estate Valuation

1.2 Postgraduate courses

Specialized courses for experts in the Building Industry field

Specialized courses concerning the performance method of expert activities

Specialized courses on „Improvement of Experts“

Specialized courses on „Technical Aspects of Real Estate“

Conference Proceedings

NIČ, M.: Valuation of Real Estate Abroad - The Slovak Republic. In *Teorie a praxe oceňování nemovitých věcí*. 1. ed. Brno : Akademické nakladatelství CERM, 2016, pp. 698-714. ISBN 978-80-7204-930-1 (in Slovak)

3. RESEARCH

3.2 International cooperation

Cooperating institutions

VUT Brno, Czech Republic,

VŠB Ostrava, Czech Republic

4. PUBLICATIONS

Journals

GREGUŠOVÁ, S.: Technical Aspects of Working with Real Estate. In *Almanach znalca*. Vol. 16, No. 1 (2016), pp. 34-35. ISSN 1336-3174 (in Slovak)

GREGUŠOVÁ, S.: Land Valuation Designed for Compensatory Measures. In *Almanach znalca*. Vol. 16, No. 3 (2016), CD-ROM, pp. 31-34. ISSN 1336-3174 (in Slovak)

KALINOVÁ, G. - PETRÁKOVÁ, Z.: Project Pipeline Management. In *Terra Spectra STU. Planning Studies*. Vol. 8, No. 2 (2016), pp.3-6. ISSN 1338-0370 (in English)

PETRÁKOVÁ, Z. - JURIGOVÁ, M. - DVORSKÝ, J.: Comparison of Development of Housing Construction in Regions of Slovakia and Czech Republic. In *Chinese Business Review*. Vol. 15, no. 6 (2016), pp. 282-289. ISSN 1537-1506 (in English)

DEPARTMENT OF LANGUAGES

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1. EDUCATION

1.1 Graduate study

English

German

1.2 Postgraduate courses

Ph.D. courses in Advanced English

3. RESEARCH

3.1 International cooperation

British Council, Bratislava, Slovakia

Institute of Technology, Tralee, Ireland

3.2 Educational project

Lifelong Learning Programme

Vocationally Oriented Culture and Language in the Medical Emergency Sector
2014 - 2016

(ŠPILDOVÁ, D.), VOCAL – Medical LLP/LdV/TOI/2013/IRL-506

3. PUBLICATIONS

Books

HOBOTH KRALINA, K.: Water Management and Water Structures: Textbook with Exercises. Vol. 1. Bratislava : Slovak University of Technology, 2016.

Edition of university textbooks. 126 pp., ISBN 978-80-227-4528-4 (in German)

PÁLOVÁ, A.: Communication Schemata in Civil Engineering. Part 1 [CD-ROM]. Vol. 1, Bratislava : Slovak University of Technology, 2016, Edition of university textbooks, 99 pp., ISBN 978-80-227-4621-2 (in German)

Conference Proceedings

HOBOTH KRALINA, K.: University Education and Employment in the Labour Market in Slovakia. In: Gondolkodási struktúrák és kreativitás [electronic source]: XIX. Apáczai-napok Nemzetközi Tudományos Konferencia.

Tanulmánykötet. Győr, Magyarország, Oct. 2015, Vol.1, Győr: Széchenyi István Egyetem Apáczai Csere János Kar, 2016, CD-ROM, pp. 63-70. ISBN 978-615-5391-80-4 (in Hungarian)

KORBAŠOVÁ, M.: Evaluation of Quality of Teaching Technical English Using Aggregation Operators. In: Gondolkodási struktúrák és kreativitás [electronic source]: XIX. Apáczai-napok Nemzetközi Tudományos Konferencia. Tanulmánykötet. Győr, Magyarország, Oct. 2015, Vol.1, Győr: Széchenyi István Egyetem Apáczai Csere János Kar, 2016, CD-ROM, pp. 179-185. ISBN 978-615-5391-80-4 (in English)

KORBAŠOVÁ, M.: Using Applied Mathematics for Evaluations of the Quality of Teaching the English Language. In MAGIA 2015: Mathematics, Geometry and Their Applications. Proceedings. Kočovce, SR, Oct. 2015, Vol.1, Bratislava: Slovak University of Technology in Bratislava, 2016, pp. 20-30. ISBN 978-80-227-4611-3 (in Slovak)

ŠPILDOVÁ, D.: Multilingual E-Learning Projects. In: Gondolkodási struktúrák és kreativitás [electronic source]: XIX. Apáczai-napok Nemzetközi Tudományos Konferencia. Tanulmánykötet. Győr, Magyarország, Oct. 2015, Vol.1, Győr: Széchenyi István Egyetem Apáczai Csere János Kar, 2016, CD-ROM, pp. 214-218. ISBN 978-615-5391-80-4 (in English)

ŠPILDOVÁ, D.: Problems in the Methodology of Teaching Foreign Languages at the Master's Degree Level. In: La porte des langues s'ouvre aux hommes VI. : actes des publications scientifiques internationales (Gateway of Languages to People Opened VI.: International Scientific Proceedings), Vol 1., Paris : Association Amitié Franco-Slovaque, 2016, pp. 225-234. ISBN 978-2-9536153-7-1 (in Slovak)

Reviewing

GAMBRILL, D.: Annual Report 2015

GAMBRILL, D.: Journal of Civil Engineering

GAMBRILL, D.: Papers for Sopron Conference, Oct. 2016

DEPARTMENT OF PHYSICAL EDUCATION

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1. EDUCATION

1.1 Graduate study

Optional Subjects

Aerobics

Basketball

Swimming

Volleyball

Football

Skiing

Water Sports /Kayaking, Canoeing/

Tennis

Squash

Floorball

Hiking

Aquagymnastics

Badminton

3. RESEARCH

Cooperation

The Faculty of Physical Education and Sports, Comenius University,
Bratislava, Slovakia .

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1. EDUCATION

1.1 Graduate study

Obligatory subjects

Construction and Commercial Law

Construction and Land Law

Construction Law

Basic Law

Entrepreneurship Law

Environmentalism

History of Architecture and Civil Engineering

Land Law

Law

Legal Forms of Entrepreneurships

Sociology

Obligatory elective subjects

Commercial Law

Construction Law

Engineering Ethics

Environmental Law

Geoecology

Globalization

Macroeconomics

Philosophy

Political Science

Sociology

3. RESEARCH

3.2 International cooperation

Czech Technical University, Prague, Czech Republic

4. PUBLICATIONS

Parts of Books

HERETIKOVÁ, K.: Globalization and Sustainable Development. In: Human-Technology-Culture. Prešov : Technická univerzita v Košiciach, Fakulta výrobných technológií, 2016, CD-ROM, pp. 92-96. ISBN 978-80-553-2598-9 (in English)

Journals

GAJDIČIAR, V. - GAJNIAK, J. F.: Presumptive Principle of Innocence and the Right Not to Incriminate : Strasbourg Case Law in Selected Jurisdictions. In: Corpus Delicti. No. 2 (2016), pp. 26-28. ISSN 1338-6603 (in Slovak)

HERETIKOVÁ, K.: - PILCH, Ctibor. Introduction to the Questions of Ethics in Finance. In: FOR FIN. Vol. 3, No. 5 (2016), online, [4]. ISSN 1339-5416 (in Slovak)

HERETIKOVÁ, K. - PILCH, C.: Code of Ethics in Financial Institutions. In: FOR FIN. Vol. 3. No. 5 (2016), online, [5] ISSN 1339-5416 (in Slovak)

HERETIKOVÁ, K.: Ethics Management and Lifelong Learning. In: Andragogika. Vol. 20, No. 3 (2016), pp. 2-5. ISSN 1211-6378 (in Slovak)

HERETIKOVÁ, K.: The Issue of Codes of Ethics in Banking Subjects. In: FOR FIN. Vol. 3, no. 11 (2016), online, [7] ISSN 1339-5416 (in Slovak)

HERETIKOVÁ, K.: Still on the Issue of Codes of Ethics in Banking Subjects. In: FOR FIN. Vol. 3, Iss. 12 (2016), online [4] ISSN 1339-5416 (in Slovak)

Conference Proceedings

BERNÁT, L. - ZAJACOVÁ, J.: Students from Slovakia at the University of Civil Engineering, Czech Technical University in Prague, in the Interwar Period from the Aspect of Secondary Schools. In: Science, Technology and Social Studies in Education at Technical Universities. Bratislava, SR, 30. 6. 2016, CD-ROM, pp. 14-22. ISBN 978-80-227-4576-5 (in Slovak)

BERNÁT, L. - ZAJACOVÁ, J.: The importance of Human Communication for Students of Technical Universities. In: Humanities Education at Technical Universities. Bratislava, SR, 29. 11. 2016. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 5-11. ISBN 978-80-227-4637-3 (in Slovak)

FRANKOVSKÁ, J. - ZAJACOVÁ, J.: Development of Integrated EU Wide Registration System of Ground Engineering. problémy v inžinierskej geológii a geotechnike. 16. -17. 6. 2016 = Geo - Engineering 2016, Engineering Geology and Geotechnical Engineering in Civil Engineering Practice. Proceedings of the 8th Slovak Conference. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, [9] ISBN 978-80-227-4573-4 (in Slovak)

FRANKOVSKÁ, J. - ZAJACOVÁ, J. - DURMEKOVÁ, T.: Legislative Aspects of Landslides Stabilization Design in Slovakia. In: SGEM 2016. 16th International Multidisciplinary Scientific GeoConference. Book 1. Science and Technologies in Geology, Exploration and Mining : conference proceedings. Albena, Bulgaria, 30 June - 6 July 2016. 1. ed. Sofia : STEF 92 Technology, 2016, pp. 887-892. ISSN 1314-2704. ISBN 978-619-7105-55-1 (in English)

GAJNIK, J. F.: Changes in Construction Legislation in 2016. In: Science, Technology and Social Studies in Education at Technical Universities. Bratislava, SR, 30. 6. 2016. Slovenská technická univerzita v Bratislave, Stavebná fakulta, 2016, CD-ROM, pp. 71-75. ISBN 978-80-227-4576-5. (in Slovak)

GAJNIK, J. F. - GAJNIK, O.: Amendment to the Construction Law from 2013 to 2016. In: Science, Technology and Social Studies in Education at Technical Universities. Bratislava, SR, 30. 6. 2016. Bratislava : Slovenská technická univerzita v Bratislave, Stavebná fakulta, 2016, CD-ROM, pp. 67-70. ISBN 978-80-227-4576-5 (in English)

GAJNIK, J. F.: Subject to the Procedural and Substantive Rights in a Building. In: Humanities Education at Technical Universities. Bratislava, SR, 29. 11. 2016.. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 53-58. ISBN 978-80-227-4637-3 (in Slovak)

GAJNIK, J. F. - GAJNIK, O.: Structure of the Humanities Education for Selected Technical Universities in Selected V4 Countries and Austria. In: Humanities Education at Technical Universities Bratislava, SR, 29. 11. 2016. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 59-64. ISBN 978-80-227-4637-3 (in Slovak)

HERETIKOVÁ, K.: Social Sciences as a Part of the Humanization of Education at Technical Universities. In: Science, Technology and Social Studies in Education at Technical Universities. Bratislava, SR, 30. 6. 2016. Bratislava : Slovenská technická univerzita v Bratislave, Stavebná fakulta, 2016, CD-ROM, pp. 79-84. ISBN 978-80-227-4576-5 (in Slovak)

HERETIKOVÁ, K. - BENČIČ, S.: Environmental Strategies in Urban and Agricultural Management. In: Science, Technology and Social Studies in Education at Technical Universities. Bratislava, SR, 30. 6. 2016. Bratislava : Slovenská technická univerzita v Bratislave, Stavebná fakulta, 2016, CD-ROM, pp. 76-78. ISBN 978-80-227-4576-5 (in English)

HERETIKOVÁ, K.: Global Information and Changes in the Economy and Society. In: Humanities Education at Technical Universities. Bratislava, SR, 29. 11. 2016. Bratislava : Slovenská technická univerzita v Bratislave, 2016, CD-ROM, pp. 65-68. ISBN 978-80-227-4637-3 (in Slovak)

Others

ZAJACOVÁ, J. (ed.): Science, Technology and Social Studies in Education at Technical Universities . Bratislava : Slovenská technická univerzita v Bratislave, Stavebná fakulta, 2016. CD-ROM, 159 pp. ISBN 978-80-227-4576-5 (in Slovak)

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