

TECHNICKÁ UNIVERZITA V KOŠICIACH

Stavebná fakulta

Prehľad výsledkov vedeckej školiacej činnosti doktorandov (školených a ukončených)

doc. Ing. Alena Sičáková, PhD.

Košice, marec 2021

Prehľad uchádzačov (v prípade vymenúvacieho konania) výsledkov vedeckej, resp. umeleckej školiacej činnosti doktorandov (školených a ukončených) (podľa § 76 ods. 5 a 7 zákona č. 131/2002 Z. z. a podľa § 5 ods. 2 vyhlášky MŠVVaŠ SR č. č. 246/2019 Z. z.)

Doktorandi po dizertačnej skúške (2)

1. Karol Urbán

Študijný odbor: 5.2.8 Stavebníctvo
 Študijný program: Teória technológie a riadenia v stavebníctve
 Dátum začatia štúdia: 1.9.2014
 Dátum obhajoby: 31.8.2018
 Téma: Moderné metódy miešania betónu s alternatívnym kamenivom

• ADC - Vedecké práce v zahraničných karentovaných časopisoch

The Influence of Discharge Time, Kind of Additive, and Kind of Aggregate on the Properties of Three-Stage Mixed Concrete / Alena Sičáková, Karol Urbán - 2018. In: Sustainability. - Basel (Švajčiarsko) : MDPI Roč. 10, č. 11 (2018), s. 3862-3862 [online]. - ISSN 2071-1050 (online)
 [SIČÁKOVÁ, Alena (90%) - URBÁN, Karol (10%)]

Ohlasy:

2018 [1] YANG, Sungchul Effect of Different Types of Recycled Concrete Aggregates on Equivalent Concrete Strength and Drying Shrinkage Properties In: Applied Sciences-Basel Vol. 8, no. 11 (2018) ISSN: 2076-3417

• ADE - Vedecké práce v zahraničných nekarentovaných časopisoch

Capillary Moisture Content of RCA-Based Concretes with Different Powdery Components / Karol Urban, Alena Sicakova - 2018. In: International Journal of Research in Engineering and Science (IJRES). Vol. 6, no. 2 (2018), p. 35-39. - ISSN 2320-9364
 [URBÁN, Karol (80%) - SIČÁKOVÁ, Alena (20%)]

• ADF - Vedecké práce v domácich nekarentovaných časopisoch

Analysis of compressive strength of concrete prepared by triple mixing technology depending on both the discharge and curing time / Karol Urban, Alena Sicakova - 2018. In: SSP - Journal of Civil Engineering : the Journal of Technical University of Kosice. Roč. 13, č. 1 (2018), s. 113-121 [print]. - ISSN 1336-9024
 [URBÁN, Karol (20%) - SIČÁKOVÁ, Alena (80%)]

• ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

Slump Loss of Concrete Based on RCA and Prepared by Specific Mixing Approach / Alena Sičáková, Karol Urbán, Marek Kováč - 2018. In: Periodica Polytechnica Civil Engineering. - Budapest (Maďarsko). Roč. 62, č. 4 (2018), s. 1015-1020. - ISSN 0553-6626
 [SIČÁKOVÁ, Alena (65%) - URBÁN, Karol (10%) - KOVÁČ, Marek (25%)]

• AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

Porovnanie off-site a on-site technológií na báze betónu / Mária Kozlovská, Karol Urbán - 2014. In: Oceňovanie a riadenie stavebných projektov 2014 : Zborník vedeckých prác. - Brussels : EuroScientia vzw, 2014 P. 63-71. - ISBN 978-90-822990-1-4
 [KOZLOVSKÁ, Mária (50%) - URBÁN, Karol (50%)]

An overview on both the economics of recycling and the cost factors for recycled concrete aggregates / Karol Urbán - 2016. In: Oceňovanie a riadenie stavebných projektov 2016 : zborník vedeckých prác. - Brussels : EuroScientia, 2016 P. 188-194. - ISBN 978-90-822990-2-1
 [URBÁN, Karol (100%)]

• AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách

Trends in types and technologies of concretes for prefabrication / Alena Sičáková, Karol Urbán - 2014. In:

Improving the efficiency of construction through MMC technologies : Proceedings of scientific papers 2014. - Košice : TU, 2014 S. 71-78. - ISBN 978-80-553-1885-1
[SIČÁKOVÁ, Alena (50%) - URBÁN, Karol (50%)]

Ohlasy:

2015 [3] VIJAYALAKSHMI, S., SRIRUBAN, D. Experimental investigation on composite concrete beams by using tiles/marbles residue In: International journal on applications in civil and environmental engineering Vol. 1 no. 5 (2015), p. 1-5 ISSN: 2395-3837

Possibilities of using the reinforced concrete in modular construction / Karol Urbán - 2015. In: Improving the efficiency of construction through MMC technologies : Proceedings of scientific papers 2015. - Košice : TU, 2015 S. 111-117. - ISBN 978-80-553-2294-0
[URBÁN, Karol (100%)]

Modern approaches to the treatment of air cooled blast furnace slag aggregate to increase its utilization in concrete / Alena Sičáková, Karol Urbán - 2016. In: Zvyšovanie efektívnosti výstavby prostredníctvom MMC technológií : zborník vedeckých prác 2016. - Košice : TU, 2016 S. 63-70. - ISBN 978-80-553-3044-0
[SIČÁKOVÁ, Alena (50%) - URBÁN, Karol (50%)]

The technological aspect of specific mixing technology and its influence on strength properties of concrete / Karol Urbán, Alena Sičáková - 2017. In: Zvyšovanie efektívnosti výstavby prostredníctvom MMC technológií : zborník vedeckých prác 2017. - Košice : TU, 2017 S. 95-102. - ISBN 978-80-553-2688-7
[URBÁN, Karol (50%) - SIČÁKOVÁ, Alena (50%)]

• **AFC - Publikované príspevky na zahraničných vedeckých konferenciách**

Sustainability and environmental impact of precast concrete / Karol Urbán, Alena Sičáková - 2015. In: Juniorstav 2015. - Brno : VUT, 2015 P. 1-7. - ISBN 978-80-214-5091-2
[URBÁN, Karol (50%) - SIČÁKOVÁ, Alena (50%)]

Impact of specific mixing method on the properties of concrete with BFS aggregate / Karol Urban, Alena Sicakova - 2016. In: SGEM 2016. - Sofia : STEF92 Technology Ltd., 2016 P. 49-56. - ISBN 978-619-7105-64-3
[URBÁN, Karol (50%) - SIČÁKOVÁ, Alena (50%)]

Changes in technological parameters of selected waste aggregates after the surface treatments for use in concrete / Alena Sicakova ... [et al.] - 2016. In: IAHS World Congress on Housing. - Coimbra : Institute for Research and Technological Development in Construction Sciences, 2016 P. 1-10. - ISBN 978-989-98949-4-5
[SIČÁKOVÁ, Alena (40%) - URBÁN, Karol (40%) - JUNÁK, Jozef (10%) - ONDOVÁ, Marcela (10%)]

The influence of kind of coating additive on the compressive strength of RCA-based concrete prepared by triple-mixing method / K. Urban, A. Sicaková - 2017. In: IOP Conference Series : Earth and Environmental Science : AEE 2017. - Bristol : IOP Publishing, 2017 P. 1-5. - ISSN 1755-1307
[URBÁN, Karol (60%) - SIČÁKOVÁ, Alena (40%)]

The Effect of Mixing Technique and Prolonged Mixing Time on Strength Characteristics of Concrete / Karol Urbán, Alena Sičáková - 2018. In: Environment, Green Technology and Engineering International Conference : proceedings volume 2. - Basel (Švajčiarsko) : MDPI s. 1-4 [online]. - ISSN 2504-3900 (online).
[URBÁN, Karol (50%) - SIČÁKOVÁ, Alena (50%)]

Study on performance characteristics of pervious concrete made of various types of locally available aggregate / Marek Kováč, Alena Sičáková, Karol Urbán - 2018. In: Proceedings of the 12th fib International PhD Symposium in Civil Engineering. - Praha (Česko) : České vysoké učení technické v Praze s. 1235-1242 [USB-key]. - ISBN 978-80-01-06401-6
[KOVÁČ, Marek (60%) - SIČÁKOVÁ, Alena (30%) - URBÁN, Karol (10%)]

• **AFD - Publikované príspevky na domácich vedeckých konferenciách**

Some aspects of concrete as a green structural material / Karol Urbán - 2015. In: Young Scientist 2015. - Košice : TU, 2015 S. 1-8. - ISBN 978-80-553-1988-9
[URBÁN, Karol (100%)]

Influence of High Dosage of Specific C&DW Micro-fillers on the Fluidity of Concrete / Alena Sičáková, Karol Urbán, Martina Draganovská - 2016. In: Solid State Phenomena : Powdered Substances and Particulate Matter in Industry and Environmental. - Pfaffikon : Trans Tech Publications, 2016 Vol. 244 (2016), p. 71-76. - ISBN 978-3-03859-428-4 - ISSN 1662-9787
[SIČÁKOVÁ, Alena (70%) - URBÁN, Karol (15%) - DRAGANOVSKÁ, Martina (15%)]

An overview on the alternative aggregates application for concrete production / Karol Urbán - 2016.In: Young Scientist 2016. - Kosice : TU, 2016 S. 1-12. - ISBN 978-80-553-2537-8
[URBÁN, Karol (100%)]

Different approaches to mixing of concrete from recycled concrete aggregate point of view / Karol Urbán - 2017.In: Young Scientist 2017. - Košice : TU, 2017 S. 1-7. - ISBN 978-80-553-3136-2
[URBÁN, Karol (100%)]

Comparison of capillary water content of concrete with BFS aggregate and prepared by triple-mixing method / Alena Sičáková, Karol Urbán - 2017. - ISBN 181466.In: CONSTRUMAT 2017. - Bratislava : STU, 2017 S. 252-259. - ISBN 978-80-227-4689-2
[SIČÁKOVÁ, Alena (50%) - URBÁN, Karol (50%)]

Technológia viacstupňového miešania betónu / Alena Sičáková, Karol Urbán - 2017.In: Betón 2017. - Bratislava : SAVT, 2017 S. 113-121. - ISBN 978-80-89682-13-3
[SIČÁKOVÁ, Alena (50%) - URBÁN, Karol (50%)]

Depth of penetration of water discussed in terms of mixing technology of concrete and discharge time / Karol Urbán - 2018.In: Young Scientist 2018. - Košice : TU, 2018 S. 1-9. - ISBN 978-80-553-2952-9
[URBÁN, Karol (100%)]

The effect of mixing method on capillary moisture content of concretes with recycled concrete aggregates / A. Sicakova, K. Urban - 2018.In: Construmat 2018. 385. IOP Conference Series : Materials Science and Engineering. - London (Veľká Británia) : IOP Publishing s. 1-6 [online]. - ISSN 1757-8981 (online)
[SIČÁKOVÁ, Alena (50%) - URBÁN, Karol (50%)]

Ohlasy:

2019 [3] ÁLVAREZ, Engerst Yedra et al. Arduino Application To Measure The Moisture Content In Cement Mortars In: Libro De Actas Abstracts Book : CITE 2019 : 4 International Conference On Technological Innovation In Building : Madrid, 7-8 March, 2019 P. 157-158 ISBN: 978-84-16397-88-4

The impact of aggregates from recycling, discharge time and mixing technique on the consistency of concrete / A. Sicakova, K. Urban - 2019.In: Construmat 2019 : international conference and meeting of departments. - London (Veľká Británia) : IOP Publishing s. 1-8 [online].
[SIČÁKOVÁ, Alena (90%) - URBÁN, Karol (10%)]

Porovnanie straty konzistencie betónu v čase v závislosti od postupu miešania a druhu kameniva / Alena Sičáková, Karol Urbán - 2019.In: Betón 2019 : zborník príspevkov z konferencie. - Bratislava (Slovensko) : Jaga group s. 139-147 [print]. - ISBN 978-80-8076-138-7
[SIČÁKOVÁ, Alena (90%) - URBÁN, Karol (10%)]

2. Marek Kováč

Študijný odbor: 4.3.2 Ekologické a environmentálne vedy
Študijný program: Environmentálne inžinierstvo
Dátum začatia štúdia: 1.9.2015
Dátum obhajoby: 31.8.2020
Téma: Vývoj betónov s environmentálne pridanou hodnotou

- **ADC - Vedecké práce v zahraničných karentovaných časopisoch**

Long-term properties of cement-based composites incorporating natural zeolite as a feature of progressive building material / Alena Sičáková ... [et al.] - 2017. In: Advances in Materials Science and Engineering. Vol. 2017 (2017), p. 1-8. - ISSN 1687-8434
[SIČÁKOVÁ, Alena (35%) - ŠPAK, Matej (25%) - KOZLOVSKÁ, Mária (25%) - KOVÁČ, Marek (15%)]

Ohlasy:

2019 [1] MESÁROŠ, P., MANDIČÁK, T., KRAJNÍKOVÁ, K. Impact of innovation on the revenues and profit of construction companies in Slovakia In: ESaT 2018 : 3rd International Conference on Engineering Sciences and Technologies : Vysoké Tatry, 12-14 September, 2018 P. 483-488 ISBN: 978-036707509-5

2020 [1] SU, Zijian - HOU, Wei - SUN, Zengqing Recent Advances in Carbon Nanotube-Geopolymer Composite In: Construction and Building Materials Vol. 252 (2020), art. no. 118940 ISSN: 0950-0618

2020 [1] JUNÁK, Jozef - JUNÁKOVÁ, Natália - ŠALKOVÁ, Viola Effect of colour pigment on selected properties of fly ash concrete. Part 1: Compressive strength and water absorption In: Key Engineering Materials Vol. 838 (2020), p. 67-73 ISSN: 1013-9826

Relationships between Functional Properties of Pervious Concrete / Alena Sičáková, Marek Kováč - 2020. In: Sustainability. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 16 (2020), s. 1-13 [online]. - ISSN 2071-1050 (online)
[SIČÁKOVÁ, Alena (80%) - KOVÁČ, Marek (20%)]

- **ADE - Vedecké práce v zahraničných nekarentovaných časopisoch**

Influence of selected activation methods on the waterproofness and freeze thaw resistance of concretes having high dosage of SCM's / Alena Sicakova, Marek Kovac, Matej Spak - 2015. In: Journal of Multidisciplinary Engineering Science and Technology. Vol. 2, no. 11 (2015), p. 3334-3339. - ISSN 3159-0040
[SIČÁKOVÁ, Alena (40%) - KOVÁČ, Marek (40%) - ŠPAK, Matej (20%)]

Interactions among the characteristics of concretes containing a high portion of micro-filler / A. Sicáková, M. Kovac, M. Draganovska - 2016. In: Chemical technology. Vol. 67, no. 1 (2016), p. 13-18. - ISSN 1392-1231
[SIČÁKOVÁ, Alena (40%) - KOVÁČ, Marek (50%) - DRAGANOVSKÁ, Martina (10%)]

- **ADF - Vedecké práce v domácich nekarentovaných časopisoch**

Vodopriepustný betón pre spevnené plochy / Marek Kováč, Alena Sičáková - 2017. In: Eurostav. Roč. 23, č. 11 (2017), s. 28-31. - ISSN 1335-1249
[KOVÁČ, Marek (70%) - SIČÁKOVÁ, Alena (30%)]

Study on utilization of zeolite in concrete precast industry / Róbert Figmig, Marek Kováč - 2019. In: SSP - Journal of Civil Engineering : the Journal of Technical University of Kosice. - Košice (Slovensko) : Stavebná fakulta Roč. 14, č. 1 (2019), s. 93-102 [print]. - ISSN 1336-9024
[FIGMIG, Róbert (50%) - KOVÁČ, Marek (50%)]

Ohlasy:

2020 [3] HARDI, Gilar Wisnu et al. A Review of Natural Zeolites and Their Applications: Environment al and Industrial Perspectives In: International Journal of Applied Engineering Research Vol. 15, no. 7 (2020), p. 730-734 ISSN: 0973-4562

- **ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

Pervious concrete as an environmental solution for pavements: focus on key properties / Marek Kováč, Alena Sičáková - 2018. In: Environments. Vol. 5, no. 1 (2018), p. 1-9. - ISSN 2076-3298
[KOVÁČ, Marek (60%) - SIČÁKOVÁ, Alena (40%)]

Ohlasy:

2018 [1] ESTOKOVA, Adriana - BALINTOVA, Magdalena Advances in environmental engineering In: Environments Vol. 5, no. 5 (2018), art. number 54 ISSN: 2076-3298

2018 [1] MANAN, Aneel et al. Experimental Investigation of Compressive Strength and Infiltration Rate of Pervious Concrete by Fully Reduction of Sand In: Civil Engineering Journal-Tehran Vol. 4, no. 4 (2018), p. 724-731 ISSN: 2476-3055

2019 [1] TANG, Chao-Wei, CHENG, Chiu-Kuei, TSAI, Ching-Yuan Mix Design and Mechanical Properties of High-Performance Pervious Concrete In: Materials Vol. 12, no. 16 (2019), art. no. 2577 ISSN: 1996-1944

2019 [1] MULYONO, Tri, ANISAH Properties of pervious concrete with various types and sizes of aggregate In: ICANCEE 2018 : International Conference on Advances in Civil and Environmental Engineering : MATEC Web of Conferences : Bali, 24-25 October, 2018 Vol. 276, art. no. 01025 (2019) ISSN: 2261-236X

2019 [1] VAITKUS, Audrius et al. Definition of Concrete and Composite Precast concrete Pavements Texture In: Transport Vol. 34, no. 3 (2019), p. 404-414 ISSN: 1648-4142

2019 [1] OPISO, Einstine M. - SUPREMO, Reinerio P. - PERODES, Jemima R. Effects of coal fly ash and fine sawdust on the performance of pervious concrete In: Heliyon Vol. 5, no. 11 (2019), art. no. e02783 ISSN: 2405-8440

2019 [3] DE OLIVEIRA, Evailton Arantes et al. Environmental implications of CO2 absorption by pervious

concrete pavement in urban roads In: CTV 2019 : 13th International Conference Virtual City and Territory : Challenges and paradigms of the contemporary city : Barcelona, 2-4 October, 2019 DOI: 10.5821/ctv.8425 ISSN: 2604-6512

2020 [1] ASIM, A.T, ABDULABBAS, Z.H. Production of sustainable pervious concrete by using waste tires rubber as partial replacement of coarse aggregate In: AIP Conference Proceedings : IConMEAS 2019 : 2nd International Conference on Materials Engineering and Science : Iraq, 25-29 September, 2019 Vol. 2213 (2020), art. no. 020221 ISSN: 0094-243X ISBN: 978-073541964-3

2020 [3] DE OLIVEIRA, Evailton Arantes - DINIS, Maria Alzira Pimenta New Pervious Concrete Construction Material for Carbon Dioxide Sequestration In: Sustainable Cities and Communities DOI: 10.1007/978-3-319-95717-3_6 ISSN: 2523-4703 ISBN: 978-3-319-95716-6

Slump Loss of Concrete Based on RCA and Prepared by Specific Mixing Approach / Alena Sičáková, Karol Urbán, Marek Kováč - 2018.In: Periodica Polytechnica Civil Engineering. - Budapest (Maďarsko) : Budapesti Műszaki és Gazdaságtudományi Egyetem Roč. 62, č. 4 (2018), s. 1015-1020 . - ISSN 0553-6626 [SIČÁKOVÁ, Alena (65%) - URBÁN, Karol (10%) - KOVÁČ, Marek (25%)]

• **AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

Influence of Aggregate and Binder Content on the Properties of Pervious Concrete / Marek Kováč, Alena Sičáková - 2020.In: Advances in Environmental Engineering and Sustainability. - Baech (Švajčiarsko) : Trans Tech Publications s. 3-9 [online]. - ISBN 978-3-0357-1658-0 [KOVÁČ, Marek (50%) - SIČÁKOVÁ, Alena (50%)]

AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách

Priepustný betón v kontexte environmentálnych aspektov / Marek Kováč - 2015.In: Zborník recenzovaných vedeckých prác ÚEI 2015. - Košice : TU, 2015 S. 115-122. - ISBN 978-80-553-2436-4 [KOVÁČ, Marek (100%)]

Charakteristika vstupných materiálov pre priepustný betón / Marek Kováč - 2016.In: Zborník recenzovaných vedeckých prác ÚEI 2016. - Košice : TU, 2016 S. 33-42. - ISBN 978-80-553-3062-4 [KOVÁČ, Marek (100%)]

Technological parameters of building mixes according to treatment of micro-fillers / Alena Sičáková, Marek Kováč - 2016.In: Zborník recenzovaných vedeckých prác ÚEI 2016. - Košice : TU, 2016 S. 83-89. - ISBN 978-80-553-3062-4 [SIČÁKOVÁ, Alena (80%) - KOVÁČ, Marek (20%)]

Evaluating the compressive strength of concrete containing high portion of blast furnace slag aggregate from kind of exposure point of view / Alena Sičáková, Marek Kováč - 2017.In: Zborník recenzovaných vedeckých prác ÚEI 2017. - Košice : TU, 2017 S. 69-74. - ISBN 978-80-553-2893-5 [SIČÁKOVÁ, Alena (70%) - KOVÁČ, Marek (30%)]

AFC - Publikované príspevky na zahraničných vedeckých konferenciách

Long term strength index development of mortars containing brick and glass powder / Marek Kovac, Alena Sicakova, Martina Draganovska - 2016.In: SGEM 2016. - Sofia : STEF92 Technology Ltd., 2016 P. 151-158. - ISBN 978-619-7105-69-8 [KOVÁČ, Marek (50%) - SIČÁKOVÁ, Alena (40%) - DRAGANOVSKÁ, Martina (10%)]

Development of compressive strength of concretes having high dosage of SCM's and their activation possibilities / Alena Sicakova, Marek Kovac, Matej Spak - 2016.In: IAHS World Congress on Housing. - Coimbra : Institute for Research and Technological Development in Construction Sciences, 2016 P. 1-10. - ISBN 978-989-98949-4-5 [SIČÁKOVÁ, Alena (20%) - KOVÁČ, Marek (40%) - ŠPAK, Matej (40%)]

Water absorption coefficient as a performance characteristic of building mixes containing fine particles of selected recycled materials / Alena Sicakova, Martina Draganovska, Marek Kovac - 2017.In: Procedia Engineering: International High-Performance Built Environment Conference – A Sustainable Built Environment Conference 2016 Series (SBE16), iHBE 2016. - S.l. : Elsevier Ltd, 2017 P. 1256-1265. - ISSN 1877-7058 [SIČÁKOVÁ, Alena (45%) - DRAGANOVSKÁ, Martina (5%) - KOVÁČ, Marek (50%)]

Ohlasy:

2018 [1] WANG, A. et al. Application of Air-cooled Blast Furnace Slag Aggregates as Replacement of

Natural Aggregates in Cement-based Materials: A Study on Water Absorption Property In: Journal of Wuhan University of Technology, Materials Science Edition Vol. 33, no. 2 (2018), p. 445-451 ISSN: 1000-2413

2018 [1] PAVLIKOVÁ, Milena et al. Valorization of wood chips ash as an eco-friendly mineral admixture in mortar mix design In: Waste management Vol. 80 (2018), p. 89-100 ISSN: 0956-053X

2020 [1] RAMDAS, V.M. et al. Establishing miniaturised structural testing techniques to enable high-throughput screening of microorganisms and microbial components for unpaved road stabilisation application In: Journal of Advanced Research Vol. 21 (2020), p. 151-159 ISSN: 2090-1232

2020 [1] MORSY, M.S. et al. Development of lime-pozzolan green binder: The influence of anhydrous gypsum and high ambient temperature curing In: Journal Of Building Engineering Vol. 28 (2020), art. no. 101026 ISSN: 2352-7102

2019 [1] DAVARPANAH, M. et al. Investigation of the mechanical properties of dry, saturated and frozen highly porous limestone In: Proceedings : ISRM 2019 : 14th International Congress on Rock Mechanics and Rock Engineering : Foz do Iguaçu, 13-18 September, 2018 P. 2325-2332 ISBN: 978-036742284-4

2020 [1] HE, H. et al. Modifying Mechanical Strength and Capillary Porosity of Portland Cement-Based Mortar Using a Biosurfactant from *Pseudomonas fluorescens* In: Advances in Materials Science and Engineering Vol. 2020, art. no. 2948731 ISSN: 1687-8434

2019 [1] IBHADODE, O. et al. Thermo-physical, Electrical and Mechanical Characterizations of Normal and Special Concretes: A Holistic-Empirical Investigation for Pre-qualification and Quality-Control of Concrete In: Journal of Physics: Conference Series : ICESW 2019 : 3rd International Conference on Engineering for Sustainable World : Ota, 03-08 July, 2019 Vol. 1378, no. 4 (2019), art. no. 042100 ISSN: 1742-6588

2020 [1] MENGEL, Lena - KRAUSS, Hans Werner - LOWKE, Dirk Water transport through cracks in plain and reinforced concrete – Influencing factors and open questions In: Construction and Building Materials Vol. 254 (2020), art. no. 118990 ISSN: 0950-0618

2018 [1] ADAZABRA, A.N. - VIRUTHAGIRI, G. - SHANMUGAM, N. Manufacture of lightweight clay bricks with improved thermal insulation properties via the incorporation of spent shea waste In: Journal of Applied Research and Technology Vol. 16, no. 3 (2018), p. 186-203 ISSN: 1665-6423

Pervious concrete as a sustainable solution for pavements in urban areas / Marek Kováč, Alena Sičáková - 2017. In: Environmental Engineering. - Vilnius : Vilnius Gediminas Technical University, 2017 P. 1-8. - ISBN 978-609-476-044-0

[KOVÁČ, Marek (70%) - SIČÁKOVÁ, Alena (30%)]

Ohlasy:

2019 [1] SNEHAL, K., DAS, B. B. Mechanical and permeability properties of hybrid fibre reinforced porous concrete In: Indian Concrete Journal Vol. 98, no. 1 (2019), p. 54-59 ISSN: 0019-4565

2019 [3] BULLER, Abdul Salam et al. Influence of Coarse Aggregate Gradation on the Mechanical Properties of Concrete, Part II: No-Fines Vs. Ordinary Concrete In: Engineering, Technology and Applied Science Research Vol. 9, no. 5 (2019), p. 4623-4626 ISSN: 2241-4487

Changes of strength characteristics of pervious concrete due to variations in water to cement ratio / M Kovac, A Sicakova - 2017. In: IOP Conference Series : AEE 2017. - Bristol : IOP Publishing, 2017 P. 1-5. - ISSN 1755-1315

[KOVÁČ, Marek (60%) - SIČÁKOVÁ, Alena (40%)]

Testing the Supplementary Cementitious Material Based on GGBFS and Zeolite for Prediction of the Activity Index / Marek Kovac, Alena Sicakova, Matej Spak - 2018. In: Environment, Green Technology and Engineering International Conference : proceedings volume 2. - Basel (Švajčiarsko) : MDPI s. 1-4 [online]. - ISSN 2504-3900 (online) .

[KOVÁČ, Marek (40%) - SIČÁKOVÁ, Alena (40%) - ŠPAK, Matej (20%)]

Study on performance characteristics of pervious concrete made of various types of locally available aggregate / Marek Kováč, Alena Sičáková, Karol Urbán - 2018. In: Proceedings of the 12th fib International PhD Symposium in Civil Engineering. - Praha (Česko) : České vysoké učení technické v Praze s. 1235-1242 [USB-key]. - ISBN 978-80-01-06401-6

[KOVÁČ, Marek (60%) - SIČÁKOVÁ, Alena (30%) - URBÁN, Karol (10%)]

Characterization of Sludge from Iron Ore Processing and Properties of Mortar Prepared by Full Replacement of Natural Silica Sand / Alena Sičáková, Marek Kováč - 2019. In: 2nd International Conference

on Building Materials Engineering. - Londýn (Veľká Británia) : Édition Diffusion Presse Sciences s. 1-4 [print]. [SIČÁKOVÁ, Alena (70%) - KOVÁČ, Marek (30%)]

- **AFD - Publikované príspevky na domácich vedeckých konferenciách**

Environmental factors influencing the sustainability of concrete as a structural material / Marek Kováč - 2016.In: Young scientist 2016. - Košice : TU, 2016 S. 1-9. - ISBN 978-80-553-2537-8 [KOVÁČ, Marek (100%)]

An overview of pervious concrete mixture design methods / Marek Kováč - 2017.In: Young Scientist 2017. - Košice : TU, 2017 S. 1-8. - ISBN 978-80-553-3136-2 [KOVÁČ, Marek (100%)]

Two kinds of sludge in terms of their contribution to compressive strength of cement based composites / Alena Sičáková, Marek Kováč - 2017.In: CONSTRUMAT 2017. - Bratislava : STU, 2017 S. 246-251. - ISBN 978-80-227-4689-2 [SIČÁKOVÁ, Alena (50%) - KOVÁČ, Marek (50%)]

Vplyv zrnitosti kameniva na konzistenciu čerstvého betónu / Róbert Figmig, Marek Kováč, Alena Sičáková - 2017.In: Betón 2017. - Bratislava : SAVT, 2017 S. 35-44. - ISBN 978-80-89682-13-3 [FIGMIG, Róbert (45%) - KOVÁČ, Marek (45%) - SIČÁKOVÁ, Alena (10%)]

Discussion on observations from trial batching of pervious concrete / Marek Kováč - 2018.In: Young Scientist 2018. - Košice : TU, 2018 S. 1-10. - ISBN 978-80-553-2952-9 [KOVÁČ, Marek (100%)]

Technological characterisation of selected mineral additives / A. Sičáková, M. Kováč - 2018.In: Construmat 2018. 385. IOP Conference Series : Materials Science and Engineering. - London (Veľká Británia) : IOP Publishing s. 1-6 [online]. - ISSN 1757-8981 (online) [SIČÁKOVÁ, Alena (50%) - KOVÁČ, Marek (50%)]

Ohlasy:

2018 [1] RYBAKOV, V. et al. Strength characteristics of foam concrete samples with various additives In: MATEC Web of Conferences : EECE 2018 : international scientific conference on Energy, Environmental and Construction Engineering : Saint-Petersburg, Russian, 19-20 November 2018 Vol. 245 (2018), art.num. 03015 ISSN: 2261236X

Influence of moisture content of samples on the depth of penetration of water under pressure / Róbert Figmig, Marek Kováč - 2018.In: Construmat 2018. - London (Veľká Británia) : IOP Publishing s. [1-5] [online]. [FIGMIG, Róbert (50%) - KOVÁČ, Marek (50%)]

The influence of aggregate gradation on the fresh and hardened concrete properties / R. Figmig, M. Kováč - 2019.In: YS2019 - Young Scientist 2019 : proceedings of the 11th International Scientific Conference of Civil and Environmental Engineering for PhD. Students and Young Scientists. - Bristol (Veľká Británia) : IOP Publishing s. 1-8 [online]. - ISSN 1757-8981 [FIGMIG, Róbert (50%) - KOVÁČ, Marek (50%)]

Ohlasy:

2020 [3] SOSA, Maria Eva et al. Optimizing Manufactured Sand Content in Mortars and its Influence on Fresh and Hardened State In: Revista DYNA Vol. 87, no. 214 (2020), p. 196-203 ISSN: 0012-7353

2020 [3] CHANDIO, Faraz Ahmed et al. Effect of Gap Gradation on Compressive Strength of Recycled Aggregate Concrete In: Quaid-e-Awam University Research Journal of Engineering Science and Technology Vol. 18, no. 1 (2020), p. 86-92 ISSN: 1605-8607

Doktorandi pred minimovou skúškou (1)

3. Erika Figmigová

Študijný odbor: 4.3.2 Ekologické a environmentálne vedy
Študijný program: Environmentálne inžinierstvo
Dátum začatia štúdia: 1.9.2019

Téma: Štúdium možností zlepšenia kvality betónov na báze recyklovaných kamenív

- **ADF - Vedecké práce v domácich nekarentovaných časopisoch**

Comparison of the strength development of binary and ternary cements containing perlite powder / Alena Sičáková, Erika Figmigová, Matej Špak - 2020.In: SSP - Journal of Civil Engineering : the Journal of Technical University of Kosice. - Košice (Slovensko) : Stavebná fakulta Roč. 15, č. 1 (2020), s. 47-57 [print, online]. - ISSN 1336-9024
[SIČÁKOVÁ, Alena (50%) - FIGMIGOVÁ, Erika (30%) - ŠPAK, Matej (20%)]

- **ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

Perlite Application and Performance Comparison to Conventional Additives in Blended Cement / Alena Sičáková, Erika Kardosová, Matej Špak - 2020.In: Engineering, Technology & Applied Science Research. Roč. 10, č. 3 (2020), s. 5613-5618 [print]. - ISSN 2241-4487
[SIČÁKOVÁ, Alena (50%) - FIGMIGOVÁ, Erika (25%) - ŠPAK, Matej (25%)]

- **AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách**

Coating methods to improve the quality of recycled aggregates / Alena Sičáková, Erika Kardosová - 2019.In: Zborník recenzovaných vedeckých prác ÚEI 2019. - Košice (Slovensko) : Technická univerzita v Košiciach s. 75-81 [CD-ROM]. - ISBN 978-80-553-3456-1
[SIČÁKOVÁ, Alena (50%) - FIGMIGOVÁ, Erika (50%)]

- **AFD - Publikované príspevky na domácich vedeckých konferenciách**

Evaluation of frost resistance of various blended binders / Erika Kardosova - 2020.In: 12th International Scientific Conference of Civil and Environmental Engineering for PhD. Students and Young Scientists. - Bristol (Veľká Británia) : IOP Publishing s. [1-5] [online].
[FIGMIGOVÁ, Erika (100%)]

Doktorandi so štúdiom ukončeným bez obhajoby (2)

4. Martina Draganovská

Študijný odbor: 4.3.2 Environmentálne inžinierstvo
Študijný program: Environmentálne inžinierstvo
Dátum začatia štúdia: 1.9.2013
Dátum ukončenia štúdia: 13.11.2016
Téma: Štúdium možnosti úpravy alternatívnych surovín z hľadiska aplikácie do stavebných hmôt

- **ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

Determination of the basic characteristics of sludge for utilization in building cement composites / Martina Draganovská, Alena Sičáková, Marián Holub - 2015.In: Pollack Periodica. Vol. 10, no. 1 (2015), p. 113-122. - ISSN 1788-1994
[DRAGANOVSKÁ, Martina (70%) - SIČÁKOVÁ, Alena (20%) - HOLUB, Marián (10%)]

Verification of specific grinding parameters and strength activity index of glass and clay brick / Martina Draganovska, Alena Sicakova - 2015.In: Pollack Periodica. Vol. 10, no. 3 (2015), p. 153-163. - ISSN 1788-1994
[DRAGANOVSKÁ, Martina (40%) - SIČÁKOVÁ, Alena (60%)]

- **AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách**

Funkcia jemných častíc v štruktúre cementových kompozitov / Martina Draganovská - 2013.In: Zborník recenzovaných vedeckých prác ÚEI 2013. - Košice : TU, 2013 S. 10-20. - ISBN 978-80-553-1585-0
[DRAGANOVSKÁ, Martina (100%)]

- **AFC - Publikované príspevky na zahraničných vedeckých konferenciách**

Selected parameters of concretes containing sludge from wet aggregates grading / Martina Draganovska, Alena Sicakova - 2014.In: Environmental Engineering 2014 : the 9th International Conference : selected papers : May 22-23, 2014, Vilnius, Lithuania. - Vilnius : Gediminas Technical University, 2014 P. 1-6. - ISBN 978-609-457-690-4

[DRAGANOVSKÁ, Martina (70%) - SIČÁKOVÁ, Alena (30%)]

Testing concrete samples prepared with different types of industrial wastes / Jozef Junak, Nadezda Stevulova, Martina Draganovska - 2014.In: Environmental Engineering 2014 : the 9th International Conference : selected papers : May 22-23, 2014, Vilnius, Lithuania. - Vilnius : Gediminas Technical University, 2014 P. 1-5. - ISBN 978-609-457-690-4

[JUNÁK, Jozef (70%) - ŠTEVULOVÁ, Nadežda (25%) - DRAGANOVSKÁ, Martina (5%)]

Ohlasy:

2018 [3] DŽANANOVIĆ, Amir - MANIĆ, Nazim The possibility of using blast furnace slag as concrete aggregate In: Building Materials and Structures Vol. 61, no. 3 (2018), p. 67-78 ISSN: 2217-8139

Influence of fine-grain form of construction and demolition waste on capillarity absorption of mortars / Martina Draganovská, Alena Sičáková - 2015.In: Juniorstav 2015. - Brno : VUT, 2015 P. 1-7. - ISBN 978-80-214-5091-2

[DRAGANOVSKÁ, Martina (80%) - SIČÁKOVÁ, Alena (20%)]

Selected parameters of mortars containing fine-grain modification of glass and clay brick / Martina Draganovská, Alena Sičáková - 2015.In: Advanced Materials Research : Binders, Materials and Technologies in Modern Construction. Vol. 1100 (2015), p. 81-86. - ISBN 978-3-03835-452-9 - ISSN 1662-8985

[DRAGANOVSKÁ, Martina (60%) - SIČÁKOVÁ, Alena (40%)]

Ohlasy:

2020 [3] ZHOU, Bochao - YUXIAN, Chen The comparative Analysis Of glassphalt Mixtures by Using Recycled waste glass Cullet In: 8th JAPAN / CHINA Workshop on Pavement Technology : Osaka, 28-30 November, 2018

Characterization of regional fly ashes and other alternative materials for building materials production / Miroslava Želinková, Martina Draganovská - 2015.In: SGEM 2015. - Sofia : STEF92 Technology, 2015 P. 51-58. - ISBN 978-619710543-8 - ISSN 1314-2704

[ŽELINKOVÁ, Miroslava (50%) - DRAGANOVSKÁ, Martina (50%)]

- **AFD - Publikované príspevky na domácich vedeckých konferenciách**

Influence of sludge as a partial substitution of fine aggregate for long-term compressive strength of concrete / Martina Draganovská - 2014.In: Young Scientist 2014 : 6th PhD. Student Conference of Civil Engineering and Architecture : Herľany, April 9 - 11, 2014. - Košice : TU, 2014 S. 1-9. - ISBN 978-80-553-1668-0

[DRAGANOVSKÁ, Martina (100%)]

Teória zdobňovacích procesov a ich výstupy / Martina Draganovská - 2014.In: Seminár doktorandov 2014 : v odbore Environmentálne inžinierstvo : zborník príspevkov : 6. ročník : Košice, 9. - 10. december 2014. - Košice : TU, 2014 S. 11-27. - ISBN 978-80-553-1914-8

[DRAGANOVSKÁ, Martina (100%)]

Comparison of selected crushing parameters of construction and demolition wastes / Martina Draganovská - 2015.In: Young Scientist 2015. - Košice : TU, 2015 S. 1-9. - ISBN 978-80-553-1988-9

[DRAGANOVSKÁ, Martina (100%)]

5. Miroslava Želinková

Študijný odbor: 5.3.2 Environmentálne inžinierstvo

Študijný program: Environmentálne inžinierstvo

Dátum začatia štúdia: 1.9.2009

Dátum ukončenia štúdia: 6.10.2016

Téma: Vývoj stavebných materiálov na báze geopolymérov z druhotných surovín

- **ADE - Vedecké práce v zahraničných nekarentovaných časopisoch**

Selected properties of geopolymers with different portions of ground fly-ash / Miroslava Želinková - 2015. In: GeoScience Engineering. Vol. 61, no. 2 (2015), p. 1-7. - ISSN 1802-5420 [ŽELINKOVÁ, Miroslava (100%)]

- **ADF - Vedecké práce v domácich nekarentovaných časopisoch**

Stručný pohľad na geopolyméry ako perspektívne stavebné materiály / Alena Sičáková, Miroslava Želinková - 2011. In: Stavebné hmoty. Roč. 7, č. 1-2 (2011), s. 27-29. - ISSN 1336-6041 [SIČÁKOVÁ, Alena (50%) - ŽELINKOVÁ, Miroslava (50%)]

- **AFA - Publikované pozvané príspevky na zahraničných vedeckých konferenciách**

Effect of fly ash fineness on sorption properties of geopolymers based on liquid glass / M. Zelinkova, M. Ondova - 2015. In: ICCEIE 2015. - S.l. : WASWT, 2015 Vol. 9, no. 5 (2015), p. 504-508. - ISBN 1307-6892. [ŽELINKOVÁ, Miroslava (50%) - ONDOVÁ, Marcela (50%)]

- **AFC - Publikované príspevky na zahraničných vedeckých konferenciách**

Potenciálna aplikácia geopolymérov ako ochranných náterov na betón / Miroslava Želinková - 2012. - 1 elektronický optický disk (CD-ROM). In: Juniorstav 2012 : 14. odborná konferencia doktorského studia : zborník anotácií : Brno, 26.1.2012. - Brno : VUT, 2012 P. 1-7. - ISBN 978-80-214-4393-8 [ŽELINKOVÁ, Miroslava (100%)]

Inorganic protective coatings for durability of concrete / Miroslava Želinková - 2012. In: ICDS12 : International conference : Durable structures : From construction to rehabilitation : 31st May - 1st June 2012, Lisbon, Portugal. - Lisbon : Laboratorio nacional de engenharia civil, 2012 P. 1-8. [ŽELINKOVÁ, Miroslava (100%)]

Effect of type f-fly ash fineness on physical and mechanical properties of geopolymer mixture / Miroslava Zelinkova - 2015. In: SGEM 2015. Sofia : STEF92 Technology Ltd., 2015 P. 105-111. - ISBN 978-619-7105-43-8 [ŽELINKOVÁ, Miroslava (100%)]

- **AFD - Publikované príspevky na domácich vedeckých konferenciách**

Možnosti využitia druhotných surovín pri výrobe geopolymérov / M. Želinková - 2011. - 1 elektronický optický disk (CD-ROM). In: Seminár doktorandov 2011 Ústavu budov a prostredia : 3. ročník : zborník vedeckých prác : Košice, 09. - 10. február 2011. - Košice : TU, 2011 S. 215-217. - ISBN 978-80-553-0622-3 [ŽELINKOVÁ, Miroslava (100%)]

The possibilities of using fly ash in geopolymers preparation / Miroslava Želinková - 2011. - 1 elektronický optický disk (CD-ROM). In: Mladý vedec / Young Scientist 2011 : 3rd PhD. Student Conference of Civil Engineering and Architecture : Herľany, April 5 - 7, 2011. - Košice : TU, 2011 S. 1-7. - ISBN 978-80-553-0639-1 [ŽELINKOVÁ, Miroslava (100%)]

Možnosti využitia druhotných surovín na výrobu geopolymérov / Miroslava Želinková, Nadežda Številová - 2011. - 1 elektronický optický disk (CD-ROM). In: Construmat 2011 : zborník príspevkov zo 17. konferencie s medzinárodnou účasťou : 15. - 17. jún 2011, Košická Belá. - Košice : TU, 2011 S. 421-425. - ISBN 978-80-553-0685-8 [ŽELINKOVÁ, Miroslava (60%) - ŠTEVULOVÁ, Nadežda (40%)]

Geopolymér ako materiál pre tenkovrstvovú sekundárnu ochranu betónu / Miroslava Želinková - 2012. - 1 elektronický optický disk (CD-ROM). In: Seminár doktorandov 2012 : zborník príspevkov : 4. ročník : Košice, 09.-10. február 2012. - Košice : TU, SvF, 2012 S. 172-177. - ISBN 978-80-553-0871-5 [ŽELINKOVÁ, Miroslava (100%)]

The factors influencing the properties of geopolymers / Miroslava Želinková - 2012. - 1 elektronický optický disk (CD-ROM). In: Young Scientist 2012 : 4th PhD. Student Conference of Civil Engineering and Architecture : Košice, Slovakia, May 22-25, 2012. - Košice : TU, 2012 S. 1-7. - ISBN 978-80-553-0904-0 [ŽELINKOVÁ, Miroslava (100%)]

Influence of Selected Grinding Specifications on the Fly Ash Granulometry / M. Želinková, A. Sičáková, M. Holub - 2013. In: *Procedia Engineering : Concrete and Concrete Structures 2013 : 6th International Conference, Slovakia*. - Amsterdam : Elsevier, 2013 Vol. 65 (2013), s. 39-44. - ISSN 1877-7058
[ŽELINKOVÁ, Miroslava (45%) - SIČÁKOVÁ, Alena (45%) - HOLUB, Marián (10%)]

Ohlasy:

2017 [1] HODUL, J., DROCHYTKA, R., HODNÁ, J. Experimental Verification of Utilization of Fly Ash from the Flue Gas Denitrification Process as a Filler to Epoxy Patching Mortar In: *Procedia Engineering : 18th International Conference on Rehabilitation and Reconstruction of Buildings : Brno, Czech Republic* Vol. 195 (2017), p. 134-141 ISSN: 1877-7058

The analysis of particle size of fly ashes – the possibility of obtaining fine particles by grinding / Miroslava Želinková - 2014. In: *Seminár doktorandov 2014 : v odbore Environmentálne inžinierstvo : zborník príspevkov : 6. ročník : Košice, 9. - 10. december 2014*. - Košice : TU, 2014 S. 72-80. - ISBN 978-80-553-1914-8
[ŽELINKOVÁ, Miroslava (100%)]

Evaluation of selected properties of geopolymers based on ground fly-ash / Miroslava Želinková - 2015. In: *Young Scientist 2015*. - Košice : TU, 2015 S. 1-8. - ISBN 978-80-553-1988-9
[ŽELINKOVÁ, Miroslava (100%)]