Ústav stavebníctva a architektúry SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2025

Bratislava
január 2026

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Ústav stavebníctva a architektúry SAV, v. v. i.

Výročná správa o činnosti organizácie
za rok 2025

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav stavebníctva a architektúry SAV, v. v. i.
Riaditeľ: Ing. Ladislav Sátor, PhD.
Zástupca riaditeľa: Ing. Miroslav Repka, PhD.
Vedecký tajomník: Ing. Jana Čepčianska, PhD.
Predseda správnej rady: Ing. Ladislav Sátor, PhD.
Predseda vedeckej rady: Mgr. Miroslav Kocifaj, DrSc.
Predseda dozornej rady: Ing. Ivana Budinská, PhD.
Člen Snemu SAV: Ing. Miroslav Repka, PhD.
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Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Členovia Snemu SAV za organizačné zložky:
nie sú

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	**K**	**K**		**K do 35 rokov**		**F**	**P**	**T**	**O**
		M	**Ž**	**M**	**Ž**				
Celkový počet zamestnancov	58	42	16	7	3	42	41.19	26.47	3.8
Vedeckí pracovníci	31	27	4	4	0	19	21.68	19.85	0.5
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	7	5	2	1	1	4	4.93	4.52	1

Odborní pracovníci VŠ (ostatní zamestnanci[2])	5	2	3	1	0	4	2.26	0.1	0.3
Odborní pracovníci ÚS	7	2	5	1	2	7	5.57	2	2
Ostatní pracovníci	8	6	2	0	0	8	6.75	0	0

[1] odmeňovaní podľa 553/2003 Z.z., príloha č. 5
[2] odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2025 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
F – fyzický stav zamestnancov k 31.12.2025 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov
O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2025)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	3	17	4	3	4	12	11
Ženy	1	3	0	0	0	2	2

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	**< 31**		**31-35**		**36-40**		**41-45**		**46-50**		**51-55**		**56-60**		**61-65**		**> 65**	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Muži	1	1.0	2	2.0	5	4.6	3	1.9	1	0.3	0	0.0	2	2.0	2	2.0	4	3.5
Ženy	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	1	1.0	1	1.0	0	0.0
Spolu	1	1.0	2	2.0	6	5.6	3	1.9	1	0.3	0	0.0	3	3.0	3	3.0	4	3.5

A - Prepočet bez zohľadnenia úväzkov zamestnancov
B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2025

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	47.6	46.0	49.4
Ženy	46.8	46.2	52.7
Spolu	47.4	46.0	49.8

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v personálnej štruktúre a pod.)

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	4	0	58563	55203	-	-	-	-
2. Projekty APVV	3	0	-	-	130307	106147	-	-
3. Projekty EŠIF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	2	0	70191	70191	-	-	-	-
5. Projekty IMPULZ	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	3000	3000	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2025

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2025	-	3	0
2. Projekty výziev EŠIF podané r. 2025	Bratislava	0	0
	Regióny	0	0

2.2. Medzinárodné projekty
2.2.1. Medzinárodné projekty riešené v roku 2025

Tabuľka 2c Medzinárodné projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1a. Projekty Horizont 2020	0	0	-	-	-	-	-	-
1b. Projekty Horizont Európa	0	1	-	-	-	-	4603	53943
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	2	-	-	-	-	1500	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	1	-	-	-	-	-	38040
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excelence, TANDEM	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2025

Tabuľka 2d Počet projektov Horizont Európa v roku 2025

	A	B
Počet podaných projektov I. pilier (Excelentná veda: MSCA, ERC, RI)	0	0
Počet podaných projektov II. pilier (klastre 1-6)	0	0
Počet podaných projektov III. pilier (EIC, EIT)	0	0
Počet podaných projektov Widera (Teaming, Twinning, Hop On Facility ...)	0	0

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2025

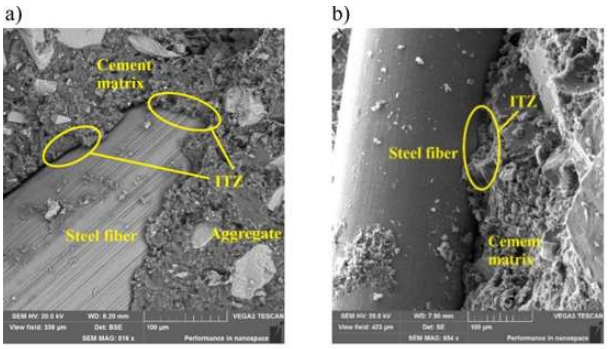
Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

1, Názov výsledku: Fyzikálno-mechanické a štrukturálne vlastnosti ťažkých samozhutniteľných vláknobetónov na báze cementu a alternatívnych spojivových materiálov (APVV-23-0383, APVV-19-0490, VEGA 2/0080/24)

Riešitelia: J. Čepčianska, Martin T. Palou, Peter Czirák, Matúš Žemlička

Štúdia opisuje komplexné posúdenie vplyvu kombinácie ťažkého kameniva, rôznych typov vlákien a alternatívnych spojivových materiálov na správanie ťažkého samozhutniteľného vláknobetónu. Výskum je zameraný na vývoj vlastností materiálu do 90 dní ošetrovania**,** čo umožňuje detailnejšie pochopenie vzťahov medzi zložením zmesi, mikroštruktúrou a výslednými fyzikálno-mechanickými vlastnosťami**.**
Prínos práce spočíva najmä v porovnaní dvoch koncepčne odlišných spojivových systémov: referenčného s čistým portlandským cementom a environmentálne priaznivejšieho systému, v ktorom je významná časť cementu nahradená alternatívnymi spojivovými materiálmi**.** Tento prístup umožňuje posúdiť, do akej miery je možné znížiť obsah cementu bez negatívneho vplyvu na spracovateľnosť a mechanickú odolnosť betónu. Súčasne je analyzovaný vplyv typu ťažkého kameniva (barit, magnetit) **a** rozptýlenej vláknovej výstuže (uhlíkové nanorúrky, polypropylénové a oceľové vlákna) na vlastnosti čerstvého a zatvrdnutého betónu.
Štúdia poskytuje ucelený pohľad na vývoj objemovej hmotnosti, pevnosti v ťahu pri ohybe, pevnosti v tlaku a zmrašťovania v čase, čím poukazuje na dlhodobú stabilitu a funkčnosť navrhnutých zmesí**.** Analýza vývoja pórovej štruktúry, mikroštruktúry a hydratačných produktov umožňuje prepojiť makroskopické vlastnosti betónu s procesmi prebiehajúcimi na mikroúrovni**.**
Výsledky práce rozširujú súčasné poznatky o ťažkých samozhutniteľných vláknobetónoch a poskytujú prakticky využiteľné podklady pre návrh funkčných, trvanlivých a environmentálne efektívnejších betónových kompozitov so schopnosťou tienenia ionizujúceho žiarenia.



Obr. Snímky vzoriek s obsahom oceľových vlákien získané skenovacou elektrónovou mikroskopiou: a) S100, b) S65.

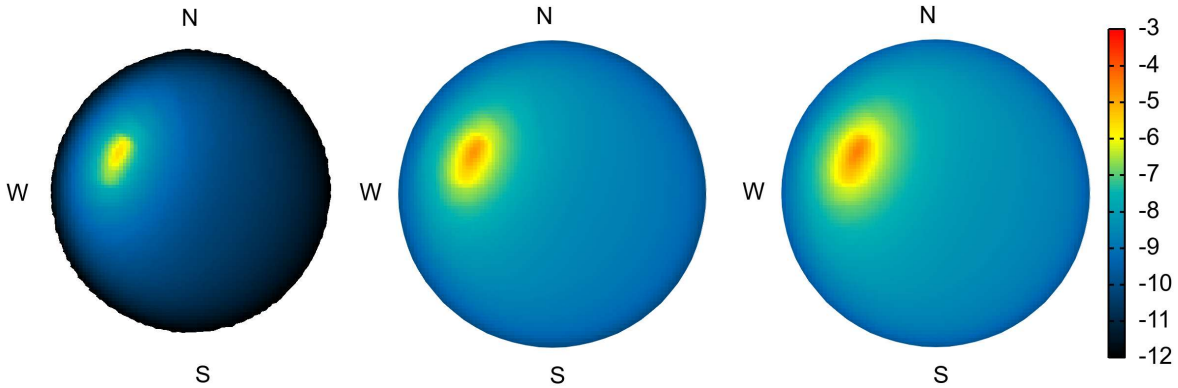
Výstupy:

ČEPČIANSKA, Jana – PALOU, Martin T. – CZIRÁK, Peter – SLANÝ, Michal – MATEJDES, Marián – ŽEMLIČKA, Matúš. Mechanical and structural properties of fiber-reinforced heavyweight self-compacting concrete incorporating supplementary cementitious materials. In Results in Engineering, 2025, vol. 26, art. no. 105324, 17 p. (2024: 7.9 – IF, Q1 – JCR, 1.171 – SJR, Q1 – SJR). ISSN 2590-1230. Dostupné na: https://doi.org/10.1016/j.rineng.2025.105324

2, Názov výsledku: Metóda hodnotenia regionálneho dosahu mestského osvetlenia využívajúca satelitné nočné snímky (Method for Assessing the Regional Impact of Urban Lighting Using Satellite Nighttime Imagery, APVV-22-0020, VEGA 2/0009/24).

Riešitelia: M. Kocifaj, L. Kómar

Bolo vyvinuté riešenie, ktoré po prvýkrát umožňuje zo satelitných nočných snímok kvantifikovať podiel svetla vyžarovaného mestami tesne nad horizont, teda v smere, ktorý umožňuje šírenie svetelného znečistenia ďaleko za hranice urbanizovaných oblastí. Doterajšie satelitné systémy tento typ emisií nedokázali spoľahlivo detegovať, keďže svetlo pri nízkych elevációch je mimo ich detekčného rozsahu. Metóda analyzuje difúzne svetelné haló okolo miest a porovnáva žiaru pred a za hranicou mesta, pričom na zistenie smerovej distribúcie svetla nevyžaduje detailnú inventarizáciu všetkých svetelných zdrojov v meste. Ide o prvé systematické riešenie pre identifikovanie najproblematickejších lokalít, čo umožňuje efektívnejšie plánovať opatrenia na znižovanie svetelného smogu s dopadom na ekosystémy aj nočnú oblohu.



Obr.: Výsledky ilustrujú vypočítané rozloženie difúzneho svetla okolo mesta pri pohľade zo satelitu (v logaritmickej škále). Ľavý graf predstavuje referenčný model; stredný graf zodpovedá scenáru, v ktorom mesto vyžaruje o 65 % viac svetla do nízkych uhlov nad horizont v porovnaní so základným modelom; a graf úplne vpravo modeluje situáciu, keď mesto vyžaruje blízko horizontu dvakrát viac svetla ako v základnom modeli.

Výstupy:

KOCIFAJ, Miroslav - KÓMAR, Ladislav. Satellite Imagery Reveals Near-Horizon Urban Light Emissions Impacting Ambient Environment. In Journal of Geophysical Research - Atmospheres, 2025, vol. 130, issue 22, art. no. e2025JD045452. (2024: 3.4 - IF, Q2 - JCR, 1.545 - SJR, Q1 - SJR). ISSN 2169-897X. Dostupné na: https://doi.org/10.1029/2025JD045452

KOCIFAJ, Miroslav - FALCHI, Fabio - KUNDRACIK, F. An all-sky light pollution model for global-scale applications that embraces a full range of cloud distributions. In Proceedings of the National Academy of Sciences of the United States of America, 2025, vol. 122, iss. 44, art. no. e2508001122. (2024: 9.1 - IF, Q1 - JCR, 3.414 - SJR, Q1 - SJR). ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.2508001122

3, Názov výsledku: Termoelastické tlmenie v piezotermoelastických nanolúčových rezonátoroch v rámci teórie gradientu deformácie s mikroinerciou a neklasickým vedením tepla **(VEGA-2/0084/ 24)**

Riešitelia: Hrytsyna O., Hrytsyna M.

Malé rezonátory sa často využívajú v moderných mikro- a nanogerátoch vďaka svojim priaznivým fyzikálnym vlastnostiam. Medzi rôznymi mechanizmami disipácie energie zohráva termoelastické tlmenie (TED) dominantnú úlohu pri určovaní ich výkonu. Klasické modely TED však nedokážu presne zachytiť veľkostné efekty. Preto bola v prácach [1-3] vykonaná teoretická analýza TED v piezoelektrických mikro- a nanonosníkoch na základe gradientnej teórie piezoelektricity pre transverzálne izotropné dielektriká s mikroinerčným efektom. Teória uvažuje vplyv mikroinercie, piezoelektrického efektu a materiálovej mikroštruktúry na spojené polia v dielektrikách. Na zohľadnenie efektu mikroinercie je kinetická energia reprezentovaná vektorom rýchlosti aj tenzorom gradientu rýchlosti, zatiaľ čo na opis konečnej rýchlosti tepelného šírenia sa používa teória s neklasickým zákonom vedenia tepla podľa Lorda–Shulmana. Ako ilustračný príklad sa analyzuje voľné kmitanie jednoducho podopretých piezotermoelastických nosníkov s izotermickými okrajovými podmienkami. Diskutuje sa vplyv hrúbky nosníka, času tepelnej relaxácie, čísla modov kmitania, počiatočnej teploty, micro-length scale parametra a parametra dynamickej mikroinerzie na TED v piezoelektrických rezonátoroch. Zistenia ukazujú, že súčasné zohľadnenie času tepelnej relaxácie a statickecho a dynamickecho micro-length scale parametrov výrazne ovplyvňuje TED a termoelastické správanie mikronosníkov. Táto štúdia má praktický význam pre návrh vysoko účinných termoelastických zariadení a systémov.

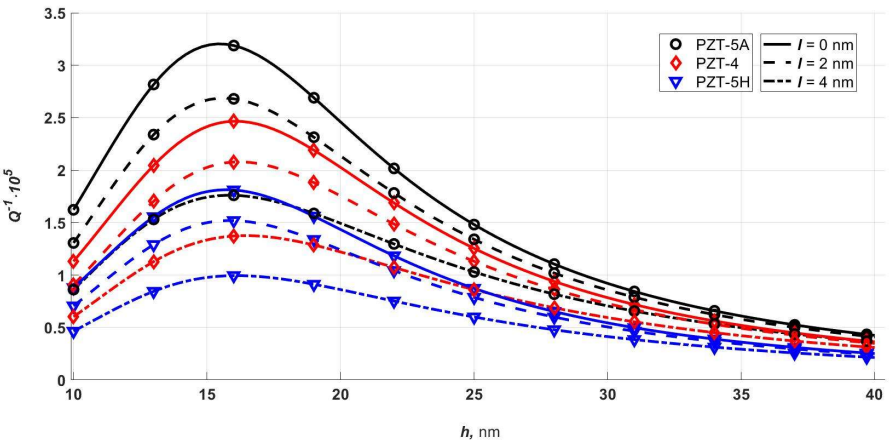


Figure 1. Variation of thermoelastic damping with beam thickness h for nanobeams with different values of the length-scale parameter l (L = 100 nm, l_* = 0 nm, k = 1).

Výstupy:

[1] HRYTSYNA O., HRYTSYNA M. Thermoelastic damping in piezothermoelastic nanobeam resonators under the strain gradient theory with micro-inertia and non-Fourier heat conduction. Results in Engineering, 2025, Vol. 26, 105055. https://doi.org/10.1016/j.rineng.2025.105055. **(IF 7.9)**

[2] HRYTSYNA O., HRYTSYNA M. Thermoelastic damping in a piezoelectric microbeam resonator with microstructure. Proceedings of the International Scientific Conference "INFORMATION TECHNOLOGIES AND COMPUTER MODELLING" (20–23 May 2025, Ivano-Frankivsk), Ivano-Frankivsk: п. Голіней О.М. 2025, p. 215–216.

[3] HRYTSYNA O., HRYTSYNA M. Effect of thermoelastic coupling on a vibrating beam resonator with microstructure. International Research and Practice Conference "Nanotechnology and Nanomaterials" (NANO-2025). Abstract Book of participants of the International Research and Practice Conference (20 – 23 August 2025, Bukovel). Ed. by Dr. Olena Fesenko. Lviv:TzOV "Halytska vydavnycha spilka", 2025, p. 517.

2.3.2. Výsledky aplikačného typu

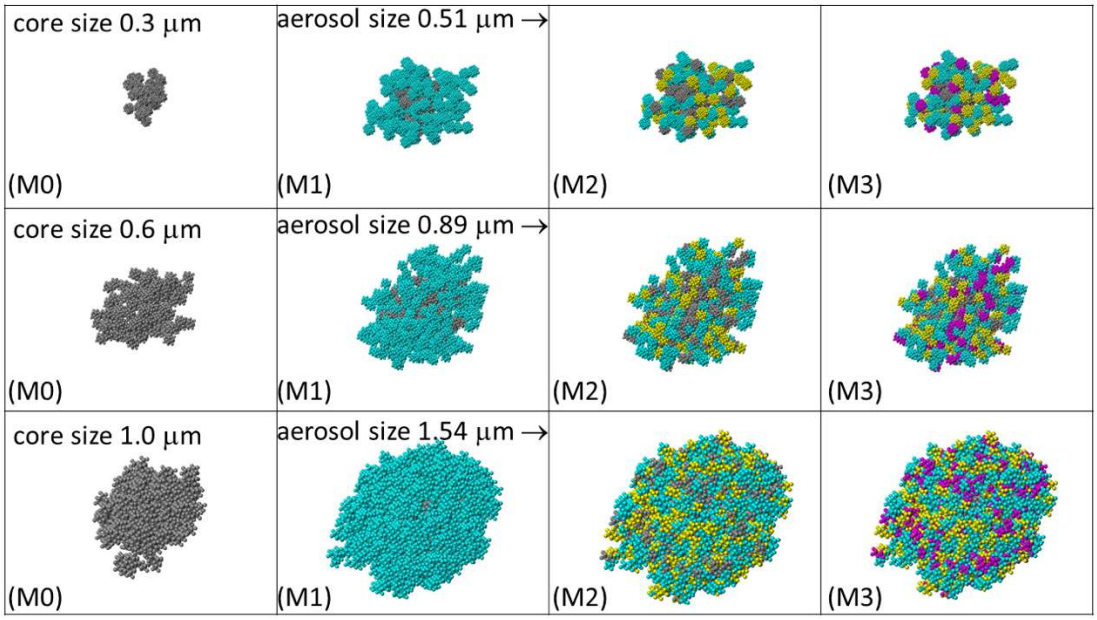
2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov výsledku: Ovládanie klimatického vplyvu uhlíkatých aerosólov úpravou ich štruktúry (Controlling the climate effect of carbonaceous aerosols by modifying their structure, COST: CA21119, Harmonia)

Zodpovedný riešiteľ: Miroslav Kocifaj

Ostatní riešitelia: Stanislav Fecko, Anna Kocifajová, Ladislav Kómar, Jaromír Petržala

V spolupráci s partnerom z USA (Solar Consulting Services) sme preukázali, že radiačné otepľovanie spôsobené aerosólom možno kontrolovať bez potreby znižovať emisie uhlíka. Výskum bol realizovaný v rámci projektu COST, kde sa okrem harmonizácie meraní fotometrami zameriavame aj na pochopenie vplyvu aerosólov na zmeny radiačnej bilancie atmosféry. Najmä mestské častice pochádzajúce z priemyselnej činnosti a dopravy sú významným zdrojom prispievajúcim ku globálnemu otepľovaniu, pretože efektívne absorbujú slnečné žiarenie. Naše numerické simulácie ukázali, že radiačné vlastnosti častíc možno vhodnou kombináciou materiálov cielene upravovať. Kľúčové je priestorové usporiadanie materiálov v objeme častice. Naše zistenia majú významné dôsledky pre budúce regulačné politiky. Ukazujú, že negatívny klimatický vplyv uhlíkových emisií možno potenciálne zmierniť aj bez ich radikálneho obmedzenia.



Obr.: Uhlíkaté zrnká zabudované do viaczložkových častíc. Uhlík (M0) môže interagovať s ďalšími zložkami a vytvárať väčšie častice (M1–M3); tmavosivá farba je pre sadze, svetlo-modrá síran amónny, fialová organickú hmotu a tmavožltá ostatné vidiecko-mestské aerosóly..

Výstupy:

KOCIFAJ, Miroslav - KUNDRACIK, F. - GUEYMARD, CH. A. Radiative warming by multicomponent soot-dominated aerosols can be controlled by material configuration. In Environment International, 2025, vol. 197, art. no. 109343, 5 p. (2024: 9.7 - IF, Q1 - JCR, 3.145 - SJR, Q1 - SJR). ISSN 0160-4120. Dostupné na: https://doi.org/10.1016/j.envint.2025.109343

Ostatné výsledky:

1, Názov výsledku: Nonlinear interaction studies of flexoelectricity and electron transport around nano-cracks in semiconductors (Slovak Research Agency, Grant No.VEGA-2/0084/24).

Riešitelia: J. Sladek, V. Sládek

At the tip of nano-cracks, large strain gradients and strong flexoelectric effect would be produced with resulting in the local electrons redistribution in semiconductors. This novel multiple physical coupling phenomenon is named as the flexoelectric semiconductor effect. Meanwhile, the electrons redistribution could conversely affect the flexoelectric effect around the crack tip and change the semiconductor performance. To study the coupling of flexoelectricity and electrons transport around nano-cracks in semiconductors, a nonlinear collocation mixed finite element method (CMFEM) is proposed here on the basis of the linear CMFEM by taking the nonlinear electrons drift into account additionally. The nonlinear coupling of flexoelectricity and electrons transport truly occurs around the crack tip in semiconductors, and plays an important role on the electrons transport at the tip of nano-cracks especially for the longer crack.

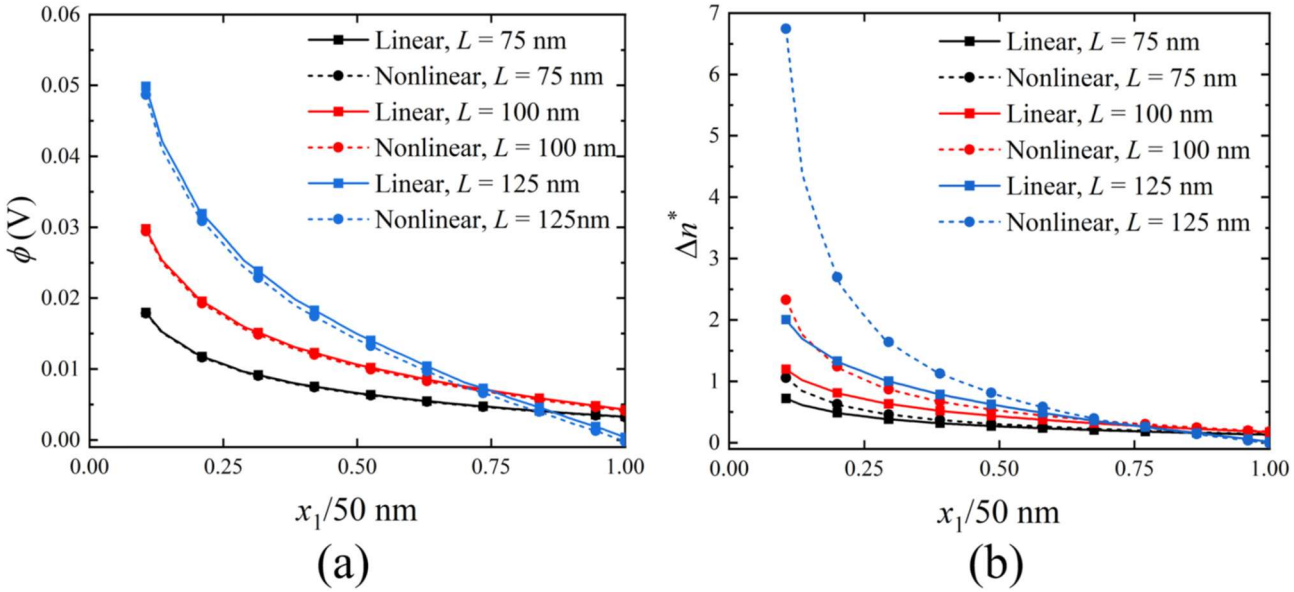


Fig. 8. The electric potential and variation of electrons concentration in front of the crack tip for both nonlinear and linear results with different crack lengths. (a) the electric potential, (b) the variation of electrons concentration

Výstupy:

X. Tian, H. Zhou, Y. Hu, Q. Deng, M. Xu, J. Sladek, V. Sladek, S. Shen: Nonlinear interaction studies of flexoelectricity and electron transport around nano-cracks in semiconductors via the collocation mixed finite element method. *Journal of Applied Physics* 137 (2025) 194103. https://doi.org/10.1063/5.0264065

2, Názov výsledku: Enhancing the performance of high-strength geopolymer concrete using basalt fibers and volcanic pumice powder

Riešitelia: Ing Taher Anwar Tawfik, PhD.

This study investigates the synergistic effects of basalt fibers and volcanic pumice powder as partial replacements in high-strength geopolymer concrete. The results demonstrate that optimized basalt fiber contents significantly improve compressive, flexural, and splitting tensile strengths, while enhancing post-cracking behavior. In contrast, excessive pumice replacement negatively affects microstructural integrity and accelerates efflorescence. A response surface methodology was employed to identify the optimal mixture that balances mechanical performance, durability, and sustainability.
Scientific or practical significance:
The findings contribute to the development of low-carbon, high-performance geopolymer concretes and provide a scientifically validated mix-design approach for sustainable structural applications.

Výstupy:
ABDELLATIEF et al., Scientific Reports, 2025, IF 3.9, Q1.

2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2025/ doplnky z r. 2024
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**47 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**16 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**0 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**0 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**3 / 2**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**4 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**0**
19. Zostavovateľské práce knižného charakteru (FAI)	**0 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

Evidujú sa len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2024 (zdroj JCR) *Počet článkov / doplnky*	40 / 0	13 / 0	3 / 0	2 / 0	58 / 0
Podľa SJR z r. 2024 (zdroj Scimago) *Počet článkov / doplnky*	49 / 0	6 / 0	1 / 0	7 / 0	63 / 0

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2024/ doplnky z r. 2023
Citácie vo WOS (1.1, 2.1)	1298 / 4
Citácie v SCOPUS (1.2, 2.2)	150 / 2
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	6
Prednášky a vývesky na národných vedeckých podujatiach	2

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

V. Sladek and J. Sladek: Modelling and numerical treatment of scale effects in nanoscopic structures, in: Short papers (ed. M. Kaminski, P. Swiatkiewicz), 26th International Conference on Computer Methods in Mechanics, Lodz University of Technology, Lodz 2025, pp. 39-40. ISBN: 978-83-67934-60-2, DOI: 10.34658/9788367934602

Plenary lecture: 26th International Conference on Computer Methods in Mechanics, Lodz University of Technology, Lodz, Poland, July 11, 2025

http://hdl.handle.net/11652/5604
https://doi.org/10.34658/9788367934602

Miroslav Kocifaj: Modeling the optical properties of inhomogeneous, non-spherical dust particles. „Build it up: laboratory perspectives on planet formation“, 23.-25. septembra 2025, Vysoké Tatry, Slovensko. https://sites.google.com/view/laboratory-planet-formation/home

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

V. Sladek: Higher-grade continuum modelling of multiphysical problems in nanoscopic structures
Huazhong Univ. Wuhan, China, June 3, 2025
Jiaotong Univ. Xian, China, June 6, 2025

University of Nanchang, China, June 18, 2025

J. Sladek: Interface crack between two dissimilar dielectric or quasicrystal materials
Huazhong Univ. Wuhan, China, June 3, 2025
Jiaotong Univ. Xian, China, June 6, 2025
University of Nanchang, China, June 18, 2025

M Repka: Počítačové modelovanie inteligentných mikro/nano konštrukcií, Stavebná fakulta Žilinskej univerzity, Žilina. 2.12.2025

L. Sátor: Inovácie v stavebníctve – Mechanika pokročilých materiálov, Stavebná fakulta Žilinskej univerzity, Žilina. 2.12.2025

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2025

2.7.1. Vynálezy, na ktoré bol v roku 2025 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2025

a) na Slovensku PP 190-2025 - Tiolom funkcionalizovaný ílovo-biocharový kompozitný adsorbent a jeho použitie - spolupôvodca: Ing. Matúš Žemlička, PhD.

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2025

b) udelené v roku 2025

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

Finančný prínos pre organizáciu SAV v roku 2025 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov

Čekon Miroslav	KEGA	1
Kocifaj Miroslav	Bilateral Mobility Project Proposal	1
Sátor Ladislav	VEGA	1
Žemlička Matúš	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Čekon Miroslav	0	0	30	0	0	0	9
Čepčianska Jana	0	0	1	0	0	0	0
Hollý Ivan	0	0	10	0	0	0	0
Hrytsyna Olha	0	0	5	0	0	0	0
Kocifaj Miroslav	0	0	15	0	0	0	0
Kuzielová Eva	0	0	7	0	0	0	0
Palou Martin-Tchingnabé	5	25	25	0	0	0	0
Petržala Jaromír	0	0	5	0	0	0	0
Prokop Jaroslav	0	0	3	1	0	0	0
Sátor Ladislav	0	0	1	0	0	0	0
Sládek Vladimír	0	0	12	0	0	0	0
Slávik Richard	0	0	7	1	0	0	0
Tawfik Taher	0	0	82	0	0	0	0
Wallner Stefan	0	0	6	0	0	0	0
Žemlička Matúš	0	0	4	0	0	0	0
Spolu	**5**	**25**	**206**	**2**	**0**	**0**	**9**

2.11. Iné informácie k vedecko-výskumnej činnosti.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2025 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2026 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

V dňoch 13. – 16. mája 2026 spoluorganizujeme v Ensenada (Baja California, Mexiko) medzinárodnú konferenciu Light Pollution: Theory, Modelling and Measurements 2026 (LPTMM 2026). Hlavnou témou konferencie je potreba meracích štandardov vo výskume svetelného znečistenia. Konferenciu spoluorganizujú Dr. Miroslav Kocifaj z ÚSTARCH SAV, v.v.i. a Dr. Martin Aubé z Département de Physique, Cégep de Sherbrooke, Kanada. Konferencia sa zameriava na najnovšie poznatky vo výskume svetelného znečistenia a jeho vplyvu na astronómiu, ekológiu, ľudské zdravie, priestorové plánovanie a ďalšie oblasti, pričom osobitná pozornosť bude venovaná súčasným výzvam v meraní a modelovaní. Tematické okruhy zahŕňajú teoretické koncepty modelovania svetelného znečistenia, numerické nástroje a simulačné experimenty, vplyv atmosférických aerosólov, oblakov, terénu a prekážok na svetelné znečistenie, vplyv spektrálnych a uhlových charakteristík svetelných zdrojov, pozorovacie techniky, prístrojové vybavenie, dáta a produkty, ako aj návrh a hodnotenie technológií šetrných k tmavej oblohe. Konferencia združuje popredných odborníkov z celého sveta, pričom Slovenská akadémia vied je jedným z kľúčových spoluorganizátorov tohto medzinárodného podujatia. Zodpovedný pracovník: Mgr. Miroslav Kocifaj, DrSc., ICA SAV, e-mail: kocifaj@savba.sk, tel.: 02/59309293. Webová stránka konferencie:https://martinaube.wixsite.com/lptmm

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Čekon Miroslav	3	0	0
Hrytsyna Olha	1	0	0
Spolu	4	0	0

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch SR

doc. Ing. Miroslav Čekon, PhD.

International Building Performance Simulation Association IBPSA-SK Affiliate (funkcia: člen)
International Association of Building Physics (IABP) (funkcia: člen)

Mgr. Fabio Falchi, PhD.

Associazione per l'Insegnamento della Fisica (Association for Physics Teaching) (funkcia: člen)
International Astronomical Union (funkcia: člen)

Mgr. Miroslav Kocifaj, DrSc.

International Astronomical Union (funkcia: člen)
International Solar Energy Society (ISES) (funkcia: člen {silver member})
Optical Society of America (OSA) (funkcia: člen)
The Illuminating Engineering Society (funkcia: člen Sky Glow Committee)

Prof. Dr. Ing. Martin-Tchingnabé Palou

CIB- International Counil for Research and Innovation in Building and Construction (funkcia: Člen)
ICIC International Committee for Irradiated Concrete (funkcia: člen)

Ing. Ladislav Sátor, PhD.

Verejný zbor Maďarskej akadémie vied (funkcia: člen)

Prof. Ing. Ján Sládek, DrSc.

Central European Assoc. for Computational Mechanics (funkcia: člen)
Int. Soc. Comput. Eng. & Sciences (ICCES) (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

Central European Assoc. for Computational Mechanics (funkcia: člen)
International Society for Boundary Elements (funkcia: člen)

Dr. Stefan Wallner, MSc.

Austrian Society for Astronomy and Astrophysics (funkcia: Executive Board Member)
DarkSky International (funkcia: Member and Chapter Head)
European Astronomical Society (funkcia: Member)
International Astronomical Union (funkcia: Junior Member)

3.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov

3.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

Konkrétny výsledok výskumu: SkyGlow verzia 6.2 - pokročilý softvér na modelovanie a analýzu svetelného znečistenia nočnej oblohy. Softvér umožňuje simuláciu jasu nočnej oblohy spôsobeného umelým osvetlením miest a sídel, vizualizáciu výsledkov v farebných aj čiernobielych mapách, porovnávanie scenárov (napr. pred a po zmene osvetlenia), odhad celkového svetelného toku miest z družicových dát VIIRS, simuláciu vplyvu snehového pokryvu a ďalších atmosférických podmienok na šírenie svetelného znečistenia. Softvér je vybavený užívateľským grafickým rozhraním a pokročilými nástrojmi pre spracovanie priestorových dát.

Kto a odkedy ho využíva: Dark Sky Consulting, LLC (Tucson, Arizona, USA) - Dr. John C. Barentine, Principal Consultant. Softvér je využívaný od roku 2025 pre profesionálne poradenstvo v oblasti ochrany tmavej oblohy, hodnotenie vplyvu verejného osvetlenia na svetelné znečistenie, prípravu podkladov pre regulačné opatrenia a návrhy svetelného dizajnu šetrného k tmavej oblohe.

Projekt a rok vytvorenia výsledku: APVV-22-0020 (Slovenská agentúra pre výskum a vývoj)

Rok vytvorenia aktuálnej verzie: 2025

Autori výsledku:

- RNDr. František Kundracik, PhD. (FMFI UK) - vývoj softvéru, implementácia algoritmov, užívateľské rozhraní
- Mgr. Miroslav Kocifaj, DrSc. (ÚSTARCH SAV, v.v.i.) - koncepcia a teoretický základ modelu, jadro softvéru

Spoločenský prínos: Softvér prispieva k efektívnejšiemu plánovaniu verejného osvetlenia s minimalizáciou negatívnych vplyvov na nočnú oblohu, podporuje implementáciu medzinárodných štandardov ochrany tmavej oblohy a umožňuje kvantifikovať environmentálne a ekonomické prínosy optimalizácie verejného osvetlenia.

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Zadávateľ: DESING CONTROL HOLDING a.s.,Švabinského 21,851 01 Bratislava
Názov: Diagnostika vnút. prostredia DCH
Doba riešenia: 3 mesiace
Finančný prínos pre organizáciu: 3500,- Eur

V rámci inovačného aplikovaného výzkumu sme riešili diagnostiku vnútorného prostredia maloobchodných predajní pre spoločnosť DHC a návrh opatrení pre zlepšenie prostredia a elimináciu škodlivín. Boli merané parametre ergonómie prostredia ako aj látok VOC a TVOC, koncentrácie oxidu uhličitého a prachových častíc. Odobrané vzorky vzduchu boli analyzované pomocou plynovej chromatografie.
Zadávateľ: Emel Bratislava,s.r.o.,Švabinského 21,85101 Bratislava
Názov: Návrh tepelného zásobníka a Simulácia energetickej odozvy s optimalizácia technnického návrhu
Doba trvania: cca 6-8 mesiacov
Finančný prínos pre inštitúciu: 17600,- Eur

Pre spoločnosť Emel sme riešili dva projekty, a to návrh pieskovej batérie a simuláciu energetickej odozvy a optimalizácia technického návrhu tepelného výmenníka.

Zadáveteľ: REGUTEC,a.s.,Němčičky 92, 644 066 Němčičky,ČR
Názov: Určenie vplyvu geometrie hrany a tuhosti gumovej rohože na stabilitu pri namáhaní vetra
Doba riešenia: Cca 1 mesiac
Finančný prínos pre inštitúciu: 1800 ,- Eur

Pre spoločnosť Regutec sme riešili experimentálne vplyv geometrie hrany a tuhosti gumovej rohože na jej stabilitu pri namáhaní vetrom

Zadávateľ: KVANT spol. s r.o; FMFI UK,Mlynská dolina,84248 Bratislava
Názov: Meranie vo veternom tuneli
Doba riešenia: Cca 3 mesiace
Finančný prínos pre inštitúciu: 5000 ,- Eur

Pre spoločnosť KVANT sme zabezpečovali experimentálne meranie vztlakových síl krídla súčasného lietadla a nového prototypu vyvíjaného na UMMS.

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

Využitie výsledkov výskumu pri tvorbe politík - UK parlament

Výsledky výskumu pracovníkov ústavu (https://doi.org/10.1038/s41550-023-01904-2) boli použité v správe predloženej Snemovni lordov UK parlamentu (House of Lords) v rámci inquiry "UK Engagement with Space" (https://committees.parliament.uk/writtenevidence/141359/pdf). Správa The Royal Society (SPA0093) analyzuje politiku Spojeného kráľovstva vo vzťahu ku kozmickému priestoru, príležitosti a výzvy spojené s činnosťou UK v kozmickom sektore. Výskum poskytol vedecké podklady preukazujúce, že satelity na nízkej obežnej dráhe produkujú viditeľné svetlo, ktoré môže ovplyvňovať prevádzku pozemných ďalekohľadov, špeciálne tých navrhnutých na detekciu vzdialených objektov v kozme. Výsledky výskumu prispeli k argumentácii združenia "Dark and Quiet Skies" a boli využité ako vedecký podklad pre diskusiu o potrebe regulácie činnosti satelitných konštelácií. Dokument The Royal Society odporúča, aby sa UK zapojilo do medzinárodného dialógu o určení vhodných štandardov pre prevádzku a dizajn satelitov s cieľom minimalizovať ich negatívny vplyv na vedecký výskum.

Tento príklad demonštruje vplyv fundamentálneho výskumu pracovníkov ústavu na tvorbu politík a legislatívy v oblasti kozmických aktivít na úrovni parlamentov rozvinutých krajín. Výsledky výskumu priamo prispeli k diskusii o udržateľnosti využívania orbitálneho priestoru a ochrane vedeckej infraštruktúry.

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2025

Forma	Počet k 31.12.2025				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2025					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	3	0	1	0	0	0	0	0	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	3	0	1	0	0	0	0	0	0	0	0	0
Z toho zahraničných	2	0	1	0	0	0	0	0	0	0	0	0
Súhrn	3		1		0		0		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“.V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2025 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	**Denná z iných zdrojov**	**Externá**	**Denná z prostriedkov SAV**	**Externá**	**Denná z prostriedkov SAV**	**Denná z iných zdrojov**
Počet	0	0	0	0	0	0

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2025 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť

5.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2025 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2025 (obhajoba leto 2025)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
0	0	0	0	0

Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia a počet zahraničných doktorandov

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/1, SYR/1

Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín. Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

5.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 5g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
Chemické inžinierstvo a technológie	2820	Anorganická technológia a materiály	FCHPT STU Bratislava
Stavebníctvo	3659	Stavebníctvo	SVF STU Bratislava
Stavebníctvo	3659	Stavebníctvo	SVF ŽU Žilina

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
doc. Ing. Miroslav Čekon, PhD. (stavebníctvo)	Prof. Dr. Ing. Martin-Tchingnabé Palou (Slovenská technická univerzita v Bratislave)	
Mgr. Miroslav Kocifaj, DrSc. (meteorológia a klimatológia)	Prof. Dr. Ing. Martin-Tchingnabé Palou (Stavebná fakulta STU)	
Ing. Peter Matiašovský, CSc. (stavebníctvo)		
Prof. Dr. Ing. Martin-Tchingnabé Palou (anorganická technológia a materiály)		
Prof. Dr. Ing. Martin-Tchingnabé Palou		

(stavebníctvo)		
Prof. Dr. Ing. Martin-Tchingnabé Palou (odbor v zahraničí)		
Prof. Ing. Ján Sládek, DrSc. (aplikovaná mechanika)		
Prof. RNDr. Vladimír Sládek, DrSc. (aplikovaná mechanika)		
Prof. RNDr. Vladimír Sládek, DrSc. (numerická analýza a vedecko-technické výpočty)		
Ing. Matúš Žemlička, PhD. (stavebníctvo)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2025

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	2	4	2
Celkový počet hodín v r. 2025	62	78	87	460

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	3
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	22
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	3
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	6
5.	**Počet oponovaných dizertačných a habilitačných prác**	1
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	1
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	0
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	3
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	0

5.9. Iné dôležité informácie k pedagogickej činnosti

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Komplexný model šírenia svetelného znečistenia do okolitého prostredia
Agentúra a číslo projektu: APVV-22-0020
Spolupracujúce inštitúcie: Fakulta matematiky, fyziky a informatiky UK
Koordinátor projektu: Miroslav Kocifaj
Obdobie riešenia: 1.7.2023-30.6.2027

Názov projektu: Optická charakterizácia častíc vo vonkajšom a vnútornom prostredí
Agentúra a číslo projektu: VEGA 2/0009/24
Spolupracujúce inštitúcie: Fakulta matematiky, fyziky a informatiky UK
Koordinátor projektu: Miroslav Kocifaj
Obdobie riešenia: 1.1.2024-31.12.2027

Názov projektu: Pochopenie a zlepšenie hydratačných reakcií nízkouhlíkových cementov pre vývoj nízkouhlíkového betónu vrátane zachytávania uhlíka karbonatáciou
Agentúra a číslo projektu: APVV-23-0383
Spolupracujúce inštitúcie: Stavebná fakulta STU, Bratislava
Koordinátor projektu: Martin-T. Palou
Obdobie riešenia: 1.7.2024-30.6.2028

Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	12	tlač	0	TV	0
rozhlas	3	internet	3	exkurzie	2
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

doc. Ing. Miroslav Čekon, PhD.

Advances in Building Energy Research (Taylor and Francis) (funkcia: člen)

Mgr. Olha Hrytsyna, DrSc.

Physico-Mathematical Modelling and Informational Technologies (funkcia: člena redakčnej rady)

Mgr. Miroslav Kocifaj, DrSc.

Journal of Quantitative Spectroscopy and Radiative Transfer (funkcia: Guest Editor (VSI:LPTMM2024))
Journal of Quantitative Spectroscopy and Radiative Transfer (funkcia: Editor-in-Chief)
Remote Sensing (funkcia: Editor {Atmosphere & Urban remote sensing})

Prof. Dr. Ing. Martin-Tchingnabé Palou

Ceramics-Silikaty (funkcia: Editorial Board)
Journal of Thermal Analysis and Calorimetry (funkcia: Editorial Board)

Prof. Ing. Ján Sládek, DrSc.

Electronic Jour. Boundary Elements (funkcia: člen)
Jour. Computational and Applied Mechanics (funkcia: člen)
Journal of Multiscale Modelling (funkcia: člen)
SDHM-Structural Durability and Health Monitoring Journal (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

Int. Jour. Engineering Analysis with Boundary Elements (funkcia: Editor)
Composites Part C (funkcia: člen redakčnej rady)
Communications in Numerical Analysis (funkcia: člen redakčnej rady)
Journal of Industrial Mathematics and Computational Mechanics (funkcia: člen redakčnej rady)
Series Advances in Boundary Elements (funkcia: člen edičnej rady)

7.6. Činnosť v domácich vedeckých spoločnostiach

doc. Ing. Miroslav Čekon, PhD.

Slovenská spoločnosť pre techniku prostredia (SSTP) (funkcia: člen odbornej sekcie OS 16 Simulácie potrieb energií v budovách)

Mgr. Miroslav Kocifaj, DrSc.

CIE Div5, TC 5-28 (funkcia: člen)
Slovenská astronomická spoločnosť (funkcia: člen)

Ing. Peter Matiašovský, CSc.

Slovenská bioklimatologická spoločnosť pri SAV (funkcia: člen)
Slovenská fyzikálna spoločnosť pri SAV (funkcia: člen)
Slovenská spoločnosť pre techniku prostredia (funkcia: člen)
Zväz slovenských vedeckotechnických spoločností (funkcia: Auditor EUR-ACE akreditačného centra ZSVTS)

Prof. Dr. Ing. Martin-Tchingnabé Palou

CO-SM Qualiform s.r.o. (funkcia: člen)
Technická normalizácia ÚNMS , TK40 (funkcia: Predseda komisie)

Ing. Ladislav Sátor, PhD.

Slovenská spoločnosť pre mechaniku (funkcia: člen)

Prof. Ing. Ján Sládek, DrSc.

Slovenska spolocnost pre mechaniku (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

Slovenská spoločnosť pre mechaniku (funkcia: člen hlav. výboru)

7.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

Deň otvorených dverí 14. 11. 2025 v rámci Týždňa vedy a techniky – pracovisko navštívilo asi 50 záujemcov z rôznych škôl, ale aj laická verejnosť. Okrem prednášok a modelových ukážok na aktuálne témy z oblasti aplikovanej mechaniky a dopravného staviteľstva, mohli záujemcovia vidieť pilotné premietanie v novom digitálnom planetáriu. Premietanie bolo spojené s prednáškou a diskusiou na tému svetelného znečistenia. V laboratóriách nášho ústavu mohli návštevníci vidieť aktuálny výskum z oblasti skúšania stavebných materiálov. Do podujatia sa zapojilo 7 pracovníkov z ústavu a spolupracujúcej Univerzity v Žiline.

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
Ing. Matúš Žemlička, PhD.	TK č. 123: Výroba, skúšanie betónu a zhotovovanie betónových konštrukcií; Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky	člen TK 123

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

doc. Ing. Miroslav Čekon, PhD.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

9.4. Členstvo v orgánoch VEGA

doc. Ing. Miroslav Čekon, PhD.

- komisia č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

Mgr. Miroslav Kocifaj, DrSc.

- komisia č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

RNDr. Ladislav Kómar, PhD.

- komisia č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

Mgr. Jaromír Petržala, PhD.

- komisia č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

Ing. Miroslav Repka, PhD.

- komisia č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

Ing. Ladislav Sátor, PhD.

- komisia č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

Prof. RNDr. Vladimír Sládek, DrSc.

- komisia č.6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva a vodohospodárskych vied (člen)

Ing. Matúš Žemlička, PhD.

- Komisia VEGA č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen komisie)

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Ústav stavebníctva a architektúry SAV, v. v. i. dlhodobo uplatňuje princípy stratégie ľudských zdrojov pre výskumníkov (HRS4R), pričom kladie dôraz na transparentné a férové pracovné podmienky, podporu profesijného rastu a vytváranie podmienok pre kvalitný vedecký výkon. Organizačné a personálne procesy sú nastavené tak, aby podporovali rozvoj mladších výskumníkov, zvyšovanie kvality publikačných výstupov a medzinárodnú spoluprácu.

Kmeňový stav zamestnancov k 31. 12. 2025 bol 58 zamestnancov (42 mužov, 16 žien). V kategórii vedeckých pracovníkov ide o 31 zamestnancov (27 mužov, 4 ženy). Priemerný vek zamestnancov bol 47,4 roka (muži 47,6; ženy 46,8) a priemerný vek vedeckých pracovníkov 46,0 roka.

V záujme zosúladenia pracovného a rodinného života ústav podľa povahy pracovnej agendy umožňuje flexibilné formy práce (vrátane práce na diaľku a flexibilného pracovného času), ako aj individuálne dohodnuté úpravy pracovného režimu. Súčasťou podpory ľudských zdrojov je tiež priebežné zvyšovanie kvalifikácie zamestnancov a zapájanie mladších pracovníkov do riešenia projektov, publikačnej činnosti a vedecko-organizačných aktivít.

Ústav zároveň pokračuje v podpore internacionalizácie, a to aj prostredníctvom doktorandského štúdia a zapájania zahraničných doktorandov. V roku 2025 boli evidovaní dvaja zahraniční doktorandi (IND/1, SYR/1) a ústav sa zapojil do medzinárodných výskumných aktivít aj prostredníctvom projektovej spolupráce.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Rodová rovnosť je integrálnou súčasťou personálnej politiky ústavu. Ústav sa hlási k Plánu rodovej rovnosti SAV a uplatňuje princípy rovnakého prístupu k príležitostiam, rozvoju, hodnoteniu a odmeňovaniu bez ohľadu na pohlavie, pri zohľadnení špecifických potrieb zamestnancov.

V roku 2025 tvorili ženy 16 z 58 zamestnancov (t. j. približne 27,6 %). V skupine vedeckých pracovníkov boli ženy zastúpené 4 z 31 (približne 12,9 %). Z hľadiska kvalifikačnej štruktúry vedeckých pracovníkov (k 31. 12. 2025) ústav eviduje medzi ženami 1 pracovníčku s hodnosťou DrSc. a 3 pracovníčky s hodnosťou CSc./PhD.

Ústav venuje pozornosť aj podpore kariérneho rastu a podmienok pre vedkyne v oblasti zapájania do projektov, publikačných aktivít, vedeckých podujatí a viditeľnosti v medzinárodnom prostredí, pričom rodová rovnosť je zároveň jedným z odporúčaní posledného pravidelného hodnotenia.

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Rodová skladba hlavných riešiteľov (vedúcich) projektov je spracovaná v príslušných tabuľkách správy (Tabuľka 10a a Tabuľka 10b). Ústav naďalej podporuje vyvážené zapájanie žien a mužov do vedenia projektov, a to najmä prostredníctvom rozvoja kompetencií mladších pracovníkov, podpory publikačných výstupov a budovania odborného profilu výskumníkov a výskumníčok pre získavanie grantov a projektových príležitostí.

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	4	4	0	0	0	0
2. Projekty APVV	3	3	0	0	0	0
3. Projekty EŠIF	0	0	0	0	0	0
4. Projekty SASPRO	2	2	0	0	0	0
5. Projekty IMPULZ	0	0	0	0	0	0
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	1	0	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1a. Projekty Horizont 2020	0	0	0	0	0	0
1b. Projekty Horizont Európa	0	0	0	1	1	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	2	2	0

4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	1	1	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	0	0	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excelence, TANDEM	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Uveďte stručné, základné informácie k problematike.

11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii

11.1. Správna rada - zloženie a základná informácia o činnosti

Zloženie Správnej rady ústavu:

Prof. Dr. Ing. Martin-Tchingnabé Palou – predseda
Ing. Miroslav Repka, PhD. – podpredseda
Doc. Ing. Miroslav Čekon, PhD. – člen
Ing. Richard Slávik, PhD. – člen

Doplňujúce voľby do Správnej rady sa konali v každom mesiaci, avšak obsadenie tejto funkcie nebolo možné ,buď z dôvodu nezáujmu o túto funkciu, alebo nezvolením kandidáta nadpolovičnou väšinou hlasov. Správna rada vykonávala svoje povinnosti aj v zníženom počte riadne a podľa zákona.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Zloženie Vedeckej rady ústavu:

Mgr. Miroslav Kocifaj, DrSc. – predseda
Mgr. Jaromír Petržala, PhD. – interný člen
Ing. Ladislav Sátor, PhD. – interný člen
prof. Mgr. Ivan Martinček, PhD. – externý člen
Ing. Martin Dováľ, PhD. – externý člen

Vedecká rada ústavu zasadala počas roka priebežne v plnom zložení a vykonávala svoje povinnosti riadne a podľa zákona.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Prostredníctvom Dozornej rady Ústavu stavebníctva a architektúry SAV, v. v. i., zakladateľ vykonáva dohľad nad
a) činnosťou a hospodárením verejnej výskumnej inštitúcie,
b) nakladaním s majetkom verejnej výskumnej inštitúcie a
c) dodržiavaním zákonov, iných všeobecne záväzných právnych predpisov, vnútorných predpisov verejnej výskumnej inštitúcie a vnútorných predpisov zakladateľa

Zloženie Dozornej rady ústavu:

Ing. Ivana Budinská, PhD. – predsedníčka
Ing. Romana Jurkiewiczová – člen
prof. Ing. Dušan Petráš, PhD. - člen

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		89 711
z toho	knihy a zviazané periodiká	79 899
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	10 185
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		
v tom	kúpou	
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		

*Výraz **„v tom“** označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.*
*Výraz **„z toho“** označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.*

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		43
v tom z r. 1	prezenčné výpožičky	5
	absenčné výpožičky	38
v tom z r. 1	odborná literatúra pre dospelých	27
	výpožičky periodík	16
MVS iným knižniciam		
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		
Počet vypracovaných rešerší		

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	52
Návštevníci knižnice spolu (bez návštevníkov podujatí)	23

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	0

12.5. Iné informácie o knižničnej činnosti

13. Nadácie a fondy pri organizácii SAV

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

Ústav stavebníctva a architektúry SAV, v. v. i. dlhodobo realizuje Koncepciu dlhodobého rozvoja a Akčný plán organizácie ako priamu reakciu na odporúčania medzinárodného panelu, ktorý ústav zaradil do kategórie B/C. Kľúčové odporúčania panelu sa týkajú najmä:

(i) zvyšovania medzinárodnej viditeľnosti a vytvárania podmienok pre rast mladej generácie,
(ii) budovania synergických spoluprác so strategickými partnermi,
(iii) aktívneho využívania transferu technológií a dosahovania vyšších výnosov z aplikácií,
(iv) štruktúrovanejšieho vzťahu s medzinárodným poradným výborom,
(v) cielenej stratégie pri získavaní zahraničných doktorandov a postdoktorandov,
(vi) diverzifikácie zdrojov financovania a
(vii) systematickej podpory princípov rodovej rovnosti.

Rok 2025 predstavoval kvalitatívny posun najmä v oblastiach, ktoré boli v predchádzajúcich rokoch definované ako rozvojové priority, pričom výsledky sú viditeľné v troch rovinách:

(A) Internacionalizácia a diverzifikácia zdrojov financovania – jasný posun oproti minulým rokom. V minulých rokoch ústav nevykazoval účasť v rámcových programoch Horizont 2020/Horizont Európa, pričom medzinárodná projektová aktivita bola postavená najmä na COST a „iných“ schémach. V roku 2025 došlo k merateľnému posunu: ústav sa stal zmluvným partnerom v 1 projekte Horizont Európa a zároveň pokračoval v 2 projektoch COST, pričom čerpal aj financie z iných zahraničných zdrojov.

Tento posun priamo napĺňa odporúčanie panelu o ambicióznejšej a cielenej stratégii internacionalizácie, ako aj o diverzifikácii zdrojov.

(B) Aplikácia výsledkov výskumu v praxi – výrazné posilnenie spoločenského dopadu oproti minulému roku.

V roku 2025 ústav nadviazal na systematické budovanie aplikačnej línie a posunul ju do viditeľnejších foriem využitia výsledkov:

- výsledky výskumu sa premietli do praxe prostredníctvom softvéru SkyGlow (verzia 6.2), ktorý je od roku 2025 využívaný spoločnosťou Dark Sky Consulting LLC (USA), čo predstavuje konkrétnu, externe overiteľnú formu transferu know-how do aplikačného prostredia;
- výsledky výskumu boli využité aj v správe Royal Society „Engagement with Space“, ktorá bola predložená Snemovni lordov (UK Parliament), čo je príklad dopadu smerom k tvorbe politík.

V porovnaní s minulými rokmi, kde sa aplikačná oblasť síce rozvíjala, rok 2025 priniesol jasnejšie „externé ukotvenie“ výstupov – jednak komerčno-aplikačné (využívanie nástroja v USA), jednak spoločensko-politické (podklady pre UK parlament). Výskumné aktivity zazmluvnené súkromnými firmami priniesli jednak merateľne vyšší finančný prínos oproti minulým rokom a tiež diverzifikáciu vedeckých tém aplikovateľných v praxi (4 kontrakty vo výške 27 900 eur).

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Opatrenia Akčného plánu priamo reagujú na uvedené odporúčania a v roku 2025 sa ich napĺňanie

prejavilo najmä v oblasti kvality publikačných výstupov, medzinárodnej spolupráce, projektovej aktivity, aplikačného dosahu a podpory ľudských zdrojov.

1, Publikačná kvalita a medzinárodná viditeľnosť. V roku 2025 ústav dosiahol výrazný podiel publikačných výstupov v najvyššie hodnotených kvartiloch. Podľa JCR (IF 2024) bolo evidovaných 58 článkov, z toho 40 v Q1 a 13 v Q2; podľa SJR (2024) bolo evidovaných 63 článkov, z toho 49 v Q1 a 6 v Q2. Citácie vo WoS dosiahli 1300 (doplnky 4) a v Scopus 151 (doplnky 3). Ústav zároveň realizoval aktívnu účasť na vedeckých podujatiach (medzinárodné príspevky 6; národné 2).

2, Budovanie synergických partnerstiev. Ústav rozvíjal spoluprácu s domácimi a zahraničnými partnermi prostredníctvom spoločných vedeckých aktivít, publikačných výstupov a vedecko-organizačnej činnosti, pričom významným prvkom internacionalizácie je aj príprava a spoluorganizovanie medzinárodných podujatí (napr. spoluorganizácia konferencie LPTMM 2026 v Mexiku).

3, Transfer technológií a spoločenský dosah. Ústav pokračoval v kontraktovom výskume a aplikačných aktivitách; zároveň preukázal spoločenský dopad výsledkov aj na úrovni tvorby politík – výsledky výskumu pracovníkov ústavu boli využité v správe predloženej Snemovni lordov UK parlamentu v rámci inquiry „UK Engagement with Space“ (The Royal Society).

4, Medzinárodný poradný panel. Odporúčanie týkajúce sa štrukturovania vzťahu s medzinárodným poradným výborom zostáva relevantné; ústav smeruje k jeho aktívnejšiemu využívaniu, avšak reálny prínos panelu je zatiaľ otázkou budúcich rokov.

5 Internacionalizácia doktorandského štúdia. V roku 2025 ústav evidoval 2 zahraničných doktorandov (India - 1, Sýria - 1), čo podporuje napĺňanie cieľa internacionalizácie v oblasti vedeckej výchovy. Dvaja zahraniční vedci z Rakúska a Indie úspešne ukončili riešenie projektov SASPRO a obaja prejavili záujem o prácu na našom ústave, čomu bolo aj vyhovené. Vedecký pracovník z Rakúska následne získal projekt APVV.

6, Účasť v programoch EÚ a medzinárodných projektoch. V roku 2025 sa ústav zmluvne podieľal na riešení 1 projektu Horizont Európa (financie pre organizáciu: zo zdrojov SAV 4603 € a z iných zdrojov 53943 €), ďalej na 2 projektoch COST (zo zdrojov SAV 1500 €) a na 1 ďalšom medzinárodnom projekte (z iných zdrojov 38040 €). Účasť na riešení existujúcich medzinárodných projektov zároveň vytvára predpoklad na ďalšie posilnenie projektovej aktivity v nadväznosti na odporúčania hodnotenia. Vedeckí pracovníci dlhodobo spolupracujú s vedcami z renomovaných vedeckých inštitúcií vo svete, napríklad:

- Catedras CONACYT, Mexiko
- University Cégep de Sherbrooke, Kanada
- University of Vienna, Rakúsko
- US Army Research Lab, USA,
- Naresuan University, Thailand.
- School of Aerospace, Xi’an Jiaotong University, Xi’an, China
- Materials Sciences and Strength of Materials, University of Stuttgart, Germany
- Queen Marry College University of London, UK
- Imperial College University of London, UK
- Faculty of Mechanical Engineering, Brno University of Technology
- Hubei Key Laboratory of Engin. Structural Analysis and Safety Assessment, Wuhan, China
- Lomonosov University Moscow, Russia
- Department of Mechanical & Aerospace Engineering, Carleton University, Ottawa, Canada
- Department of Civil Engineering, University of Akron, Akron, USA
- Texas Tech University, Lubbock, USA
- National Academy of Sciences of Ukraine,
- Czech Technical University in Prague/Faculty of Civil Engineering

- Centre for Energy Research, Hungarian Academy of Sciences
- Institute of Fundamental Technological Research, Polish Academy of Sciences (IPPT PAN)
- Yonsei University, KR
- VUT Brno, ČR
- Výzkumný ústav stavebních hmot, Brno, ČR

7, Rodová rovnosť. Napĺňanie odporúčaní v oblasti rodovej rovnosti je priebežne sledované v personálnej štruktúre a v podpore príležitostí pre vedkyne aj vedcov; súvisiace údaje a aktivity sú uvedené v kapitole 10.

14.3. Aktualizácia Akčného plánu organizácie v roku 2025

V roku 2025 ústav aktualizuje Akčný plán so zameraním na ďalšie obdobie, pričom prioritne nadväzuje na odporúčania posledného pravidelného hodnotenia a na aktuálnu výkonnosť organizácie. V rámci aktualizácie Akčného plánu sa ústav zameria najmä na:

1. systematické zvyšovanie medzinárodnej viditeľnosti a podpory rastu mladej generácie (mentoring, podpora vedenia projektov a publikačných výstupov);
2. posilnenie synergických partnerstiev s akademickými pracoviskami a univerzitami, vrátane rozvoja spoločných vedeckých tém a prípravy ambicióznejších výstupov;
3. intenzívnejšiu prípravu a zapájanie sa do programov EÚ (najmä Horizont Európa), vrátane systematickej podpory prípravy projektových návrhov a budovania konzorcií;
4. sprístupňovanie a podporu mechanizmov transferu technológií a aplikačného dosahu (vrátane využívania Kancelárie pre transfer technológií SAV) a rozvoja kontraktového výskumu;
5. internacionalizáciu ľudských zdrojov, najmä v oblasti doktorandského a postdoktorandského štúdia (cieľové oslovenie kandidátov, podpora mobility, využitie dostupných štipendijných schém);
6. aktualizáciu a aktívnejšie využívanie medzinárodného poradného výboru vrátane dôrazu na rodové vyváženie a implementáciu odporúčaní výboru do riadenia a rozvoja ústavu;
7. priebežné posilňovanie rodovej rovnosti ako prierezovej témy personálnej politiky (monitoring ukazovateľov, podpora príležitostí, zosúladenie pracovného a rodinného života).

15. Iné významné činnosti organizácie

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

Základné informácie o zameraní pracoviska, jeho štruktúre, o riešených projektoch a výročné správy o činnosti pracoviska sú pre verejnosť prístupné na webovom sídle ústavu (www.ustarch.sav.sk). O ďalšie informácie je možné požiadať v zmysle zákona č. 211/2000 Z. z. o slobodnom prístupe k informáciám (zákon o slobode informácií) v znení neskorších predpisov. V roku 2024 nebola na ústav doručená žiadna žiadosť o poskytnutie ďalších informácií v zmysle uvedeného zákona. Podľa zákona č. 211/2000 Z. z. v znení zákona č. 382/2011 Z. z. a nariadenia vlády Slovenskej republiky č. 498/2011 Z. z., ktorým sa ustanovujú podrobnosti o zverejňovaní zmlúv v Centrálnom registri zmlúv a náležitosti informácie o uzatvorení zmluvy, boli v r. 2024 v Centrálnom registri zmlúv (www.crz.gov.sk) zverejňované zmluvy a na webovom sídle ústavu údaje o objednávkach tovarov, služieb a prác a faktúrach za tovary, služby a práce.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV

Uveďte informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

Výsledky výskumnej činnosti Ústavu stavebníctva a architektúry SAV, v. v. i. boli publikované v 47 vedeckých prácach registrovaných v Current Contents Connect a 16 prácach registrovaných vo Web of Science Core Collection alebo Scopus. Vzhľadom na počet vedeckých pracovníkov považuje Vedecká rada tieto výsledky za primerané a konštatuje, že Ústav stavebníctva a architektúry SAV, v. v. i. je inštitúcia plne spôsobilá vykonávať výskumnú činnosť v určených odboroch.

Schválila vedecká rada organizácie SAV dňa 29.1.2026

Mgr. Miroslav Kocifaj, DrSc.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2025 vypracoval(i):

Ing. Jana Čepčianska, PhD., 02/59309 266
Ing. Ladislav Sátor, PhD., 02/59309 216

Bratislava, 29.1.2026

Ing. Ladislav Sátor, PhD.
riaditeľ organizácie

Ladislav Sátor
Digitally signed by Ladislav Sátor
Date: 2026.01.30 08:27:17 +01'00'

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2025

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Mgr. Miroslav Kocifaj, DrSc.	100	1.00
2.	prof. Ing. Ján Sládek, DrSc.	100	1.00
3.	Prof. RNDr. Vladimír Sládek, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Prof. Dr. Ing. Martin-Tchingnabé Palou	100	1.00
Samostatní vedeckí pracovníci			
1.	doc. Ing. Miroslav Čekon, PhD.	60	0.60
2.	Ing. Tibor Dubaj, PhD.	50	0.50
3.	doc. Ing. Ivan Hollý, PhD.	50	0.50
4.	Mgr. Olha Hrytsyna, DrSc.	100	1.00
5.	RNDr. Ladislav Kómar, PhD.	30	0.30
6.	Ing. Eva Kuzielová, PhD.	50	0.50
7.	Ing. Peter Matiašovský, CSc.	55	0.55
8.	Mgr. Jaromír Petržala, PhD.	100	1.00
9.	Ing. Miroslav Repka, PhD.	100	1.00
10.	Ing. Ladislav Sátor, PhD.	100	1.00
11.	prof. Ing. Ondřej Šikula, Ph.D.	50	0.50
12.	MSc. Ing Taher Anwar Tawfik, PhD.	100	1.00
13.	Dr. Stefan Wallner, MSc.	100	0.33
14.	Ing. Matúš Žemlička, PhD.	100	1.00
Vedeckí pracovníci			
1.	Ing. Lenka Bujdáková Konečná, PhD.	30	0.30
2.	Ing. Jana Čepčianska, PhD.	100	1.00
3.	Mgr. Fabio Falchi, PhD.	50	0.50
4.	Ing. Jan Hajzler, Ph.D.	50	0.50
5.	M. Tech. Kishor Kalauni, Ph.D.	100	0.83
6.	Ing. Jozef Kriváček, CSc.	30	0.30

7.	Ing. Michal Marko, Ph.D.	50	0.50
8.	doc. Ing. Daniel Papán, PhD.	20	0.20
9.	Ing. Jaroslav Prokop, PhD.	100	0.67
10.	Mgr. Johannes Arvid Puschnig, PhD.	50	0.46
11.	Ing. Richard Slávik, Ph.D.	60	0.60
12.	Mgr. Ajitanshu Vedrtnam, PhD.	60	0.19
13.	Ing. Lukáš Zelem, PhD.	50	0.50
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Kristína Compeľová	30	0.30
2.	Ing. Peter Czirák	30	0.30
3.	Mgr. Stanislav Fecko	50	0.50
4.	Mgr. Maryan Hrytsyna	100	1.00
5.	Ing. Tomáš Iľanovský	100	1.00
6.	RNDr. Anna Kocifajová	50	0.83
7.	Ing. Marián Vrabec	100	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Iveta Červenková	50	0.38
2.	Ing. Mária Lindorová Sovová	20	0.20
3.	Ing. arch. Valentín Magdolen	100	0.58
4.	Mgr. Iveta Mikušiaková	100	1.00
5.	Bc. Kristián Soják	30	0.10
Odborní pracovníci ÚSV			
1.	Silvia Bučičová	100	1.00
2.	Martin Habovštiak	100	1.00
3.	Katarína Jakubove	100	1.00
4.	Laura Masárová	50	0.38
5.	Lucia Molnárová	100	1.00
6.	Dagmar Slámová	100	1.00
7.	Dominik Žirko	50	0.18
Ostatní pracovníci			
1.	Miroslava Haľamová	80	0.80
2.	Karol Kasák	100	0.42
3.	Pavol Krchňák	80	0.80
4.	Rudolf Maninka	100	1.00
5.	Pavol Molnár	30	0.46

6.	Lucia Pinkavová	100	1.00
7.	Ivan Ulehla	100	1.00
8.	Marek Zelenka	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	Ing. Tibor Dubaj, PhD.	31.12.2025	0.50
2.	Ing. Peter Matiašovský, CSc.	31.12.2025	0.55
3.	Dr. Stefan Wallner, MSc.	31.8.2025	0.67
Vedeckí pracovníci			
1.	Ing. Lenka Bujdáková Konečná, PhD.	31.12.2025	0.30
2.	Ing. Jozef Kriváček, CSc.	31.12.2025	0.30
3.	M. Tech. Ajitanshu Vedrtnam, Ph.D.	4.9.2025	0.68
4.	Ing. Lukáš Zelem, PhD.	31.12.2025	0.50
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Tomáš Iľanovský	31.12.2025	1.00
Odborní pracovníci ÚSV			
1.	Daniela Kanichová	7.10.2025	0.01
Ostatní pracovníci			
1.	Miroslav Bosák	31.1.2025	0.08
2.	Dávid Kurej	31.7.2025	0.19

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Ing. Peter Czirák		
2.	MTech. Shashikant Chaturvedi		
3.	Ing. Alaa Nasir		
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
organizácia nemá externých doktorandov			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Charakterizácia atmosférického aerosólu z pozemnej rádiometrie *(International network for harmonization of atmospheric aerosol retrievals from ground based photometers)*

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	1.10.2022 / 31.10.2026
Evidenčné číslo projektu:	CA21119
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	10 - Belgicko: 1, Nemecko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Nórsko: 1
Čerpané financie:	MVTS - SAV: 1500 €

Dosiahnuté výsledky:
•KOCIFAJ, Miroslav** - KUNDRACIK, F. - GUEYMARD, CH. A. Radiative warming by multicomponent soot-dominated aerosols can be controlled by material configuration. In Environment International, 2025, vol. 197, art. no. 109343, 5 p. (2024: 9.7 - IF, Q1 - JCR, 3.145 - SJR, Q1 - SJR). ISSN 0160-4120. Dostupné na: https://doi.org/10.1016/j.envint.2025.109343

2.) Prachové častice v slnečnej sústave *(The birth of solar systems (PLANETS))*

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	1.9.2023 / 30.9.2027
Evidenčné číslo projektu:	CA22133
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	10 - Česko: 1, Nemecko: 1, Dánsko: 1, Estónsko: 1, Francúzsko: 1, Veľká Británia: 1, Švajčiarsko: 1, Čile: 1, Švédsko: 1, USA: 1
Čerpané financie:	-

Dosiahnuté výsledky:
Miroslav Kocifaj - Modeling the optical properties of inhomogeneous, non-spherical dust particles. Pozvaná prednáška. na konferencii "Build it up: laboratory perspectives on planet formation". 23-25 September 2025 at the Hotel Panorama, High Tatras, Slovakia.
https://sites.google.com/view/laboratory-planet-formation/home

Programy: INTERREG

3.) *(Circular and digital renewal of central Europe construction and building sector)*

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou
Trvanie projektu:	1.4.2023 / 1.6.2026
Evidenčné číslo projektu:	CE0100390

Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenian National Building and Civil Engineering Institute
Počet spoluriešiteľských inštitúcií:	13 - Rakúsko: 1, Česko: 1, Nemecko: 1, Chorvátsko: 3, Maďarsko: 1, Taliansko: 1, Poľsko: 1, Slovensko: 1, Slovinsko: 3
Čerpané financie:	Interreg: 33437 € MVTS: 4603 €

Dosiahnuté výsledky:
Mechanické a trvanlivé vlastnosti betónu z recyklovaného kameniva s oceľovými vláknami z pneumatík po skončení životnosti: Krátkodobé, dlhodobé a tuhé dôsledky pre vozovku

Environmentálny dopad výroby betónu zdôrazňuje potrebu udržateľných alternatív, ako sú recyklované betónové kamenivo (RCA), napriek ich všeobecne nižším vlastnostiam. Táto štúdia skúma použitie oceľových vlákien z pneumatík po skončení životnosti (ESF), samostatne a v kombinácii s priemyselnými oceľovými vláknami (SF), ako ekologickej výstuže v betóne RCA. Bol testovaný nový typ surového ESF s väčšími rozmermi ako tie, ktoré sa používali predtým. Mechanické vlastnosti, vrátane pevnosti v tlaku, nepriamej pevnosti v ťahu (ITS) a pevnosti v ohybe, boli merané po 28, 130 a 686 dňoch spolu s ukazovateľmi trvanlivosti, ako je hĺbka karbonizácie, nasiakavosť a lineárne zmršťovanie. Pri obsahu vlákien 0,6 % bol sadnutie 180 mm pre SF a 165 mm pre ESF, čo naznačuje väčšiu stratu spracovateľnosti pri ESF. Zmes RCA s 0,6 % ESF vykazovala 18 % nárast pevnosti v tlaku po 28 dňoch a návrh vozovky pomocou softvéru StreetPave naznačil 24,5 % zníženie hrúbky dosky. Po 130 dňoch vykazovali 6S7R a 6E7R o 22 %, respektíve 18 % vyššie hodnoty ITS ako kontrola. Do 686. dňa dosiahla ITS v zmesiach 8H7R a 1E7R 140 %, respektíve 146 % kontroly, čo potvrdzuje dlhodobé zlepšenie. Pevnosť v tlaku sa v zmesi 6S7R po 28 dňoch zvýšila o 15 % a zostala vyššia po 130 dňoch, s miernym poklesom po 686 dňoch, pravdepodobne v dôsledku účinkov predchádzajúceho testovania. Výsledky trvanlivosti ukázali mierne vyššiu nasiakavosť a karbonizáciu vo vláknitých zmesiach, ale 8 – 16 % zníženie lineárneho zmršťovania, pričom 6S7R preukázal najlepšiu kontrolu zmršťovania. Tieto výsledky demonštrujú potenciál vylepšených ESF na zlepšenie udržateľnosti a výkonnosti betónu RCA.

ZIA, Asad** - HOLLÝ, Ivan. Enhancing material properties and flexural performance of RC members using hybrid tire steel fibers in natural aggregate concrete. In Journal of Building Engineering, 2025, no. 112, online, art. no. 113747. (2024: 7.4 - IF, Q1 - JCR, 1.636 - SJR, Q1 - SJR). ISSN 2352-7102. Dostupné na: https://doi.org/10.1016/j.jobe.2025.113747

ZIA, Asad** - HOLLÝ, Ivan. Mechanical and durability properties of recycled aggregate concrete with end-of-life tire steel fibers: Short-term, prolonged, and rigid pavement implications. In Construction and Building Materials, 2025, vol. 419, art. no. 142797. (2024: 8 - IF, Q1 - JCR, 2.094 - SJR, Q1 - SJR). ISSN 0950-0618. Dostupné na: https://doi.org/10.1016/j.conbuildmat.2025.142797

Programy: Horizont Európa

4.) Nová technológia výroby vodíkových a geopolymérnych kompozitov z odpadu po ťažbe uhlia *(New technology for the production of hydrogen and geopolymer composites from coal mining wasteuction from post-mining waste)*

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou
Trvanie projektu:	1.7.2023 / 30.6.2026
Evidenčné číslo projektu:	101112386

Organizácia je koordinátorom projektu:	nie
Koordinátor:	INSTYTUT TECHNIKI GORNICZEJ KOMAG
Počet spoluriešiteľských inštitúcií:	4 - Česko: 1, Poľsko: 1, Slovensko: 2
Čerpané financie:	HORIZON: 53943 € MVTS SAV: 4603 €

Dosiahnuté výsledky:
Táto práca skúma synergické účinky čadičových vlákien (BF) a sopečného pemzového prášku (VPP) na fyzikálno-mechanické, tepelné, výkvetové a mikroštrukturálne vlastnosti vysokopevnostného geopolymérneho betónu (HSGC). Zmesi HSGC boli vyvinuté čiastočnou náhradou mletej granulovanej vysokopecnej trosky za VPP v množstve 0 – 40 % a pridaním BF v množstve 0 – 1,5 %. Experimentálne zistenia ukazujú, že zvýšenie obsahu BF z 0,75 na 1,5 % významne zvyšuje pevnosť v tlaku, ohybe a ťahu v ťahu, pričom pevnosť v tlaku sa zvyšuje až o 14,51 % po 28 dňoch a pevnosť v ohybe a ťahu v ťahu sa zlepšuje o 13,17 %, respektíve 14,46 %. Naopak, vyšší obsah VPP vo všeobecnosti znižuje pevnosť v tlaku; 40 % nahradenie vedie k 23 % poklesu po 7 dňoch. Navyše, hoci zvýšené hladiny BF zlepšili mikroštruktúru a tepelnú stabilitu, vyššie objemy VPP degradovali mikroštruktúru, čím urýchlili výkvety. Najmä vzorka HSGC s obsahom 10 % VPP vykazovala výrazne nižšiu plochu kryštálov a hrúbku ako ostatné zmesi. Viacúčelový optimalizačný prístup odhalil, že vyšší obsah BF zlepšil vlastnosti HSGC, zatiaľ čo vyššie hladiny VPP znížili výkon. Optimálna formulácia HSGC dosiahla pevnosť v tlaku 59,25 MPa, pevnosť v štiepení 7,51 MPa, pevnosť v ohybe 8,64 MPa a suchú hustotu 2012 kg/m3 s obsahom 0,69 % BF a 17,79 % VPP. Makroskopické a tepelné analýzy preukázali, že optimálna vzorka HSGC vykazovala kompaktnejšiu mikroštruktúru, čo dokazuje účinnosť metodiky odozvy povrchu pri identifikácii ideálnych parametrov zmesi pre návrh HSGC.

ABDELLATIEF, Mohamed - HAMOUDA, Hassan - PALOU, Martin T. - TAWFIK, Taher Anwar**. Synergistic effects of basalt fiber and volcanic pumice powder in high-strength geopolymer concrete. In Scientific Reports, 2025, vol. 15, no. 1, art. no. 14715. (2024: 3.9 - IF, Q1 - JCR, 0.874 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-025-98675-9

Domáce projekty

Programy: VEGA

1.) Komplexnosť v aplikáciách latentných tepelnoakumulačných materiálov a systémov pre udržateľnú a ekologickú výstavbu *(Complexity on latent heat storage materials and systems in applications for sustainable and green construction)*

Zodpovedný riešiteľ:	Miroslav Čekon
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	VEGA 2/0145/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 9325 €

Dosiahnuté výsledky:

COTTONE, Rossella - ČEKON, Miroslav - FANTUCCI, Stefano - ČURPEK, Jakub - SLÁVIK, Richard. Investigation of Phase Change Material Impregnation in a Highly Porous Structure. In Lecture Notes in Civil Engineering : Multiphysics and Multiscale Building Physics - Proceedings of the 9th International Building Physics Conference (IBPC 2024): Moisture and Materials, 2025, vol. 552, pp. 455-460. (2024: 0.157 - SJR, Q4 - SJR). ISSN 2366-2557. Dostupné na: https://doi.org/10.1007/978-981-97-8305-2_64 (VEGA 2/0145/24 : Komplexnosť v aplikáciách latentných tepelnoakumulačných materiálov a systémov pre udržateľnú a ekologickú výstavbu.) Typ: ADMB

ČEKON, Miroslav** - SLÁVIK, Richard - ČURPEK, Jakub - COTTONE, Rossella - BEVILACQUA, Piero. An integrated adaptive façade system using a glass block filled with phase change material: Cooling energy load and performance enhancement. In Building and Environment, 2025, vol. 273, art. no. 112724. (2024: 7.6 - IF, Q1 - JCR, 1.858 - SJR, Q1 - SJR). ISSN 0360-1323. Dostupné na: https://doi.org/10.1016/j.buildenv.2025.112724 (VEGA 2/0145/24 : Komplexnosť v aplikáciách latentných tepelnoakumulačných materiálov a systémov pre udržateľnú a ekologickú výstavbu.) Typ: ADCA

ČEKON, Miroslav - ČURPEK, Jakub** - SLÁVIK, Richard. Performance-Based Characterization of Spectral Transmittance and Thermal Response of a PCM Glass Block Façade System. In Lecture Notes in Civil Engineering : Multiphysics and Multiscale Building Physics - Proceedings of the 9th International Building Physics Conference (IBPC 2024): Moisture and Materials, 2025, vol. 552, pp. 474-479. (2024: 0.157 - SJR, Q4 - SJR). ISSN 2366-2557. Dostupné na: https://doi.org/10.1007/978-981-97-8305-2_67 (VEGA 2/0145/24 : Komplexnosť v aplikáciách latentných tepelnoakumulačných materiálov a systémov pre udržateľnú a ekologickú výstavbu.) Typ: ADMB

ČEKON, Miroslav - SLÁVIK, Richard - COTTONE, Rossella - ŠIKULA, Ondřej. Optimizing Building Performance with a Semi-Transparent Photovoltaic Trombe Wall and Latent Thermal Energy Storage. In Proceedings of the 19th IBPSA Conference. ISBN 978-1-7750520-4-3. ISSN 2522-2708. (VEGA 2/0145/24 : Komplexnosť v aplikáciách latentných tepelnoakumulačných materiálov a systémov pre udržateľnú a ekologickú výstavbu. The 19th IBPSA Conference.) Typ: AFC

INGELI, Rastislav - ČEKON, Miroslav** - PAULOVIČOVÁ, Lucia. Enhancement of the thermal performance of voided concrete slabs filled with expanded polystyrene. In Case Studies in Construction Materials, 2025, vol. 22, art. no. e04567. (2024: 6.6 - IF, Q1 - JCR, 1.613 - SJR, Q1 - SJR). ISSN 2214-5095. Dostupné na: https://doi.org/10.1016/j.cscm.2025.e04567 (VEGA 2/0145/24 : Komplexnosť v aplikáciách latentných tepelnoakumulačných materiálov a systémov pre udržateľnú a ekologickú výstavbu.) Typ: ADCA

NASIR, Alaa** - ČEKON, Miroslav - ŠIKULA, Ondřej - SLÁVIK, Richard. Optimizing a latent heat energy storage tank for a solar collector system: moving towards zero carbon. In Proceedings of the 19th IBPSA Conference. ISBN 978-1-7750520-4-3. ISSN 2522-2708. (VEGA 2/0145/24 : Komplexnosť v aplikáciách latentných tepelnoakumulačných materiálov a systémov pre udržateľnú a ekologickú výstavbu. The 19th IBPSA Conference.) Typ: AFC

2.) Optická charakterizácia častíc vo vonkajšom a vnútornom prostredí *(Optical characterization of particles in exteriors and interiors)*

Zodpovedný riešiteľ: Miroslav Kocifaj

Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0009/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 9946 €

Dosiahnuté výsledky:

•KOCIFAJ, Miroslav** - KUNDRACIK, F. - GUEYMARD, CH. A. Radiative warming by multicomponent soot-dominated aerosols can be controlled by material configuration. In Environment International, 2025, vol. 197, art. no. 109343, 5 p. (2024: 9.7 - IF, Q1 - JCR, 3.145 - SJR, Q1 - SJR). ISSN 0160-4120. Dostupné na: https://doi.org/10.1016/j.envint.2025.109343

•KOCIFAJ, Miroslav** - NOVÁK, Tomáš - MEDVEĎ, Igor. Optical properties of semi-transparent sensor covers determined from their spectral intensity distribution function. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2025, vol. 332, art. no. 109292. (2024: 1.9 - IF, Q2 - JCR, 0.676 - SJR, Q1 - SJR). ISSN 0022-4073. Dostupné na: https://doi.org/10.1016/j.jqsrt.2024.109292

•KOCIFAJ, Miroslav** - FALCHI, Fabio. Generalizing the world atlas of artificial night sky brightness to encompass a wide range of sky states. In Monthly Notices of the Royal Astronomical Society: Letters, 2025, vol. 542, no. 1, p. L154-L157. (2024: 4.8 - IF, Q1 - JCR, 1.688 - SJR, Q1 - SJR). ISSN 1745-3925. Dostupné na: https://doi.org/10.1093/mnrasl/slaf083

•KOCIFAJ, Miroslav** - KÓMAR, Ladislav. Satellite Imagery Reveals Near-Horizon Urban Light Emissions Impacting Ambient Environment. In Journal of Geophysical Research - Atmospheres, 2025, vol. 130, issue 22, art. no. e2025JD045452. (2024: 3.4 - IF, Q2 - JCR, 1.545 - SJR, Q1 - SJR). ISSN 2169-897X. Dostupné na: https://doi.org/10.1029/2025JD045452

•SOLANO LAMPHAR, H. A.** - KÓMAR, Ladislav - KOCIFAJ, Miroslav**. Computed indoor light conditions due to outdoor skyglow at night. In Urban Climate, 2025, vol. 64, art. no. 102650. (2024: 6.9 - IF, Q1 - JCR, 1.563 - SJR, Q1 - SJR). ISSN 2212-0955. Dostupné na: https://doi.org/10.1016/j.uclim.2025.102650

•KOCIFAJ, Miroslav** - FALCHI, Fabio - KUNDRACIK, F. An all-sky light pollution model for global-scale applications that embraces a full range of cloud distributions. In Proceedings of the National Academy of Sciences of the United States of America, 2025, vol. 122, no. 44, art. no. e2508001122 (p. 1-9). (2024: 9.1 - IF, Q1 - JCR, 3.414 - SJR, Q1 - SJR). ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.2508001122

3.) Hydratačný proces a tvorba mikroštruktúry nových kompozitných cementov a ich použitie na vývoj špeciálnych betónov *(Hydration processes and microstructure formation of the new cement composites and their use in the development of special concretes)*

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	VEGA -2/0080/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 16039 €

Dosiahnuté výsledky:

Bola vykonaná komplexná štúdia o vývoji nízkouhlíkových spojív s náhradou portlandského cementu až do 50 %, s cieľom znížiť obsah slinku a zároveň zabezpečiť primerané mechanické vlastnosti a trvanlivosť. Výsledky hydratačných štúdií (kalorimetrická analýza, DTG/TG) naznačujú, že reakčná kinetika nízkouhlíkových spojív je ovplyvnená ich zložením. V dôsledku zníženej tvorby Ca(OH)? je rýchlosť skorej hydratácie a skorá pevnosť nižšia ako pri referenčnom OPC. Avšak kontinuálna tvorba sekundárnych hydratačných produktov v priebehu času viedla k stabilnému nárastu pevnosti v tlaku a tuhosti. Mechanické testy potvrdzujú, že všetky nízkouhlíkové zmesi vykazujú kontinuálny vývoj pevnosti, pričom relatívne nárasty pevnosti prevyšujú zodpovedajúce pomery náhrady (50 %, 40 %, 30 %). Napriek mierne nižším vlastnostiam pevnosti v skorom veku, dlhodobé správanie preukazuje účinnosť miešacích systémov obsahujúcich vápenec, metakaolín a vysokopecnú trosku. Celkovo výsledky zdôrazňujú potenciál nízkouhlíkových spojív znížiť obsah portlandského cementu pri zachovaní primeranej výkonnosti. Budúci výskum sa zameria na ďalšiu optimalizáciu zloženia spojiva, zlepšenie počiatočnej pevnosti a integráciu analýzy životného cyklu (LCA) s cieľom kvantifikovať environmentálne prínosy.

CZIRÁK, Peter - ČEPČIANSKA, Jana - PALOU, Martin T. - ŽEMLIČKA, Matúš. Chakteristické vlastnosti štvorzložkových cementových kompozitov. In Kvalita cementu 2025: XVIII. odborný seminář. Lektorovali: René Čechmánek, T. Staněk. - Výzkumný ústav stavebních hmot, 2025, s. 17-20. ISBN 978-80-87397-45-9.

4.) Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení
(Multiphysical effects in micro/nano structural elements in MEMS/NEMS devices)

Zodpovedný riešiteľ:	Ladislav Sátor
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0084/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 19893 €

Dosiahnuté výsledky:
HRYTSYNA, Olha - HRYTSYNA, Maryan. Thermoelastic damping in a piezoelectric microbeam resonators with microstructure. In "INFORMATION TECHNOLOGIES AND COMPUTER MODELLING" proceedings of the International Scientific Conference, 2025. ISBN 978-617-8470-31-9. ("INFORMATION TECHNOLOGIES AND COMPUTER MODELLING" proceedings of the International Scientific Conference. VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: AFC

HRYTSYNA, Olha** - HRYTSYNA, Maryan. Effect of thermoelastic coupling on a vibrating beam resonator with microstructure. In International research and practice conference “Nanotechnology and nanomaterials” : NANO-2025. - © International Science and Innovation cooperation, Technology transfer Department of Institute of Physics of NAS of Ukraine. ISBN 978-617-8092-32-0. (INTERNATIONAL RESEARCH AND PRACTICE CONFERENCE “NANOTECHNOLOGY AND NANOMATERIALS” : NANO-2025. VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: AFG

HRYTSYNA, Olha - HRYTSYNA, Maryan. Thermoelastic damping in piezothermoelastic nanobeam resonators under the strain gradient theory with micro-inertia and non-Fourier heat conduction. In Results in Engineering, 2025, vol. 26, art. no. 105055. (2024: 7.9 - IF, Q1 - JCR,

1.171 - SJR, Q1 - SJR). ISSN 2590-1230. Dostupné na: https://doi.org/10.1016/j.rineng.2025.105055 Typ: ADMA

SÁTOR, Ladislav - REPKA, Miroslav. Ending ol functionolly groded micro/nano plates with flexoeledric elfect by Hoing Finite Element Method. In Machine Modelling and Simulations MMS 2025 : The 30th lnternational Slovak-Polish Scientific Conference. - Faculty of lndustrial Technologies in Púchov, Alexander Dubček University of Trenčín, 2025. ISBN 978?80-8295-045? 1. (VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: AFH

REPKA, Miroslav. Infiuence of the thermol load on piezoeledric solids at micro/nano scale. In Machine Modelling and Simulations MMS 2025 : The 30th lnternational Slovak-Polish Scientific Conference. - Faculty of lndustrial Technologies in Púchov, Alexander Dubček University of Trenčín, 2025. ISBN 978?80-8295-045? 1. (VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: AFH

AHMADI, Isa** - SLÁDEK, Vladimír - SLÁDEK, Ján. Instability and buckling analysis of bi-directional FG multiple nanobeam system in thermal environment by a meshless method. In Archive of Applied Mechanics, 2025, vol. 95, no. 8, art. no. 181, 32 p. (2024: 2.5 - IF, Q2 - JCR, 0.559 - SJR, Q2 - SJR). ISSN 0939-1533. Dostupné na: https://doi.org/10.1007/s00419-025-02890-9 (VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: ADCA

HU, Yuchen - ZHOU, Haiyang** - TIAN, Xinpeng** - DENG, Qian - SLÁDEK, Ján - SLÁDEK, Vladimír - SHEN, Shengping. A 3D collocation MFEM for the analysis of flexoelectric solids. In European Journal of Mechanics A: Solids, 2025, vol. 111, art. no. 105547. (2024: 4.2 - IF, Q1 - JCR, 1.148 - SJR, Q1 - SJR). ISSN 0997-7538. Dostupné na: https://doi.org/10.1016/j.euromechsol.2024.105547 (VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: ADCA

SLÁDEK, Vladimír** - SLÁDEK, Ján. Modelling and numerical treatment of scale effects in nanoscopic structures. In CMM 2025 - 26th International Conference on Computer Methods : Short Papers. - Lodz : Lodz University of Technology, 2025, p. 39-41. ISBN 978-83-67934-60-2. (International Conference on Computer Methods. VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: AFG

TIAN, Xinpeng** - ZHOU, Haiyang - HU, Yuchen - DENG, Qian - XU, Mengkang - SLÁDEK, Ján - SLÁDEK, Vladimír - SHEN, Shengping. Nonlinear interaction studies of flexoelectricity and electron transport around nano-cracks in semiconductors via the collocation mixed finite element method. In Journal of Applied Physics, 2025, vol. 137, no. 19, art. no. 194103, 18 p. (2024: 2.5 - IF, Q3 - JCR, 0.58 - SJR, Q2 - SJR). ISSN 0021-8979. Dostupné na: https://doi.org/10.1063/5.0264065 (VEGA 2/0084/24 : Multifyzikálne efekty v mikro/nano-konštrukčných prvkoch MEMS/NEMS zariadení.) Typ: ADCA

Programy: APVV

5.) Komplexný model šírenia svetelného znečistenia do okolitého prostredia *(Comprehensive model of light pollution propagation into the ambient environment)*

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	1.7.2023 / 30.6.2027

Evidenčné číslo projektu:	APVV-22-0020
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 43073 €

Dosiahnuté výsledky:

•KOCIFAJ, Miroslav** - KUNDRACIK, F. - GUEYMARD, CH. A. Radiative warming by multicomponent soot-dominated aerosols can be controlled by material configuration. In Environment International, 2025, vol. 197, art. no. 109343, 5 p. (2024: 9.7 - IF, Q1 - JCR, 3.145 - SJR, Q1 - SJR). ISSN 0160-4120. Dostupné na: https://doi.org/10.1016/j.envint.2025.109343

•KOCIFAJ, Miroslav** - KUNDRACIK, F. - WALLNER, Stefan. Low Earth Orbit satellite fragmentation rates are critically disrupting the natural night sky background. In Monthly Notices of the Royal Astronomical Society: Letters, 2025, vol. 541, no. 1, p. L47–L51. (2024: 4.8 - IF, Q1 - JCR, 1.688 - SJR, Q1 - SJR). ISSN 1745-3925. Dostupné na: https://doi.org/10.1093/mnrasl/slaf052

•KOCIFAJ, Miroslav** - NOVÁK, Tomáš - MEDVEĎ, Igor. Optical properties of semi-transparent sensor covers determined from their spectral intensity distribution function. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2025, vol. 332, art. no. 109292. (2024: 1.9 - IF, Q2 - JCR, 0.676 - SJR, Q1 - SJR). ISSN 0022-4073. Dostupné na: https://doi.org/10.1016/j.jqsrt.2024.109292

•KOCIFAJ, Miroslav** - FALCHI, Fabio. Generalizing the world atlas of artificial night sky brightness to encompass a wide range of sky states. In Monthly Notices of the Royal Astronomical Society: Letters, 2025, vol. 542, no. 1, p. L154-L157. (2024: 4.8 - IF, Q1 - JCR, 1.688 - SJR, Q1 - SJR). ISSN 1745-3925. Dostupné na: https://doi.org/10.1093/mnrasl/slaf083

•KOCIFAJ, Miroslav** - KÓMAR, Ladislav. Satellite Imagery Reveals Near-Horizon Urban Light Emissions Impacting Ambient Environment. In Journal of Geophysical Research - Atmospheres, 2025, vol. 130, issue 22, art. no. e2025JD045452. (2024: 3.4 - IF, Q2 - JCR, 1.545 - SJR, Q1 - SJR). ISSN 2169-897X. Dostupné na: https://doi.org/10.1029/2025JD045452

•SHI, Xinyu - KOCIFAJ, Miroslav - LI, Xi - LI, Deren - LI, Jinjin. Impact of atmospheric effect and observation geometry on the directional distribution of blooming effect in VIIRS night-time light images. In Remote Sensing of Environment, 2025, vol. 331, no., p. 115017. (2024: 11.4 - IF, Q1 - JCR, 3.972 - SJR, Q1 - SJR). ISSN 0034-4257. Dostupné na: https://doi.org/10.1016/j.rse.2025.115017

•SOLANO LAMPHAR, H. A.** - KÓMAR, Ladislav - KOCIFAJ, Miroslav**. Computed indoor light conditions due to outdoor skyglow at night. In Urban Climate, 2025, vol. 64, art. no. 102650. (2024: 6.9 - IF, Q1 - JCR, 1.563 - SJR, Q1 - SJR). ISSN 2212-0955. Dostupné na: https://doi.org/10.1016/j.uclim.2025.102650

•KOCIFAJ, Miroslav** - FALCHI, Fabio - KUNDRACIK, F. An all-sky light pollution model for global-scale applications that embraces a full range of cloud distributions. In Proceedings of the National Academy of Sciences of the United States of America, 2025, vol. 122, no. 44, art. no. e2508001122 (p. 1-9). (2024: 9.1 - IF, Q1 - JCR, 3.414 - SJR, Q1 - SJR). ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.2508001122

6.) Pochopenie a zlepšenie hydratačných reakcií nízkouhlíkových cementov pre vývoj nízkouhlíkového betónu vrátane zachytávania uhlíka karbonatáciou *(Understanding and improvement of the hydration reactions of the low-carbon cements for development of low-carbon concrete including carbon capture through carbonation)*

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou

Trvanie projektu:	1.7.2024 / 30.6.2028
Evidenčné číslo projektu:	APVV-23-0383
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 42974 €

Dosiahnuté výsledky:
Štúdia skúma mechanické a štrukturálne vlastnosti vláknami vystuženého ťažkého samozhutňujúceho betónu (FRHWSCC), ktorý obsahuje ťažké barytové a magnetitové agregáty. Použili sa tri typy vlákien: polypropylén (PP), viacvrstvové uhlíkové nanorúrky (CNT) a oceľ (St) s objemovým obsahom 0,5 %, 0,5 % a 2,0 %. Boli pripravené dve série betónu: S100 a S65. Séria S100 pozostávala zo 100 % bežného portlandského cementu (OPC). Naopak, v sérii S65 bolo 35 % OPC nahradených doplnkovými cementovými materiálmi (SCM), ako je mletý vápenec (GL), mletá granulovaná vysokopecná troska (GGBFS) a metakaolín (MK). Experimentálne výsledky ukázali, že pevnosť v tlaku vzoriek na báze magnetitu prekročila 70 MPa, zatiaľ čo vzorky na báze barytu prekročili 50 MPa po 90 dňoch. Štrukturálna analýza s použitím ortuťovej intruznej porozimetrie (MIP) a skenovacej elektrónovej mikroskopie (SEM) poskytla podrobný pohľad na pórovitosť a medzifázovú prechodovú zónu (ITZ) medzi vláknami a betónovou matricou. Pridanie SCM zlepšilo dlhodobé mechanické vlastnosti prostredníctvom puzolánových a alkalicky aktivovaných reakcií, ako aj zjemnenie štruktúry pórov, čo viedlo k hustejšej betónovej matrici. Pridanie PP a St vlákien zvýšilo pevnosť v ohybe a odolnosť voči trhlinám, zatiaľ čo všetky tri typy vlákien prispeli k zníženiu zmršťovania.

ČEPČIANSKA, Jana** - PALOU, Martin T. - CZIRÁK, Peter - SLANÝ, Michal - MATEJDES, Marián - ŽEMLIČKA, Matúš. Mechanical and structural properties of fiber-reinforced heavyweight self-compacting concrete incorporating supplementary cementitious materials. In Results in Engineering, 2025, vol. 26, art. no. 105324, 17 p. (2024: 7.9 - IF, Q1 - JCR, 1.171 - SJR, Q1 - SJR). ISSN 2590-1230. Dostupné na: https://doi.org/10.1016/j.rineng.2025.105324

ZIA, Asad** - HOLLÝ, Ivan. Mechanical and durability properties of recycled aggregate concrete with end-of-life tire steel fibers: Short-term, prolonged, and rigid pavement implications. In Construction and Building Materials, 2025, vol. 419, art. no. 142797. (2024: 8 - IF, Q1 - JCR, 2.094 - SJR, Q1 - SJR). ISSN 0950-0618. Dostupné na: https://doi.org/10.1016/j.conbuildmat.2025.142797

KALAUNI, Kishor - CZIRÁK, Peter - CHATURVEDI, Shashikant - PALOU, Martin T. - VEDRTNAM, Ajitanshu**. Performance and design considerations for heavyweight self-compacting concrete using magnetite and barite aggregates. In Journal of building engineering, 2025, vol. 111, art. no. 113626. (2024: 7.4 - IF, Q1 - JCR, 1.636 - SJR, Q1 - SJR). ISSN 2352-7102. Dostupné na: https://doi.org/10.1016/j.jobe.2025.113626

7.) Kvantifikácia parametrov šírenia svetla pre moderné umeléosvetlenie: Povrchový odraz, vplyv oblakov a dynamické zdroje *(Quantifying Light Propagation Parameters for Modern ArtificialLighting: Ground Reflection, Cloud Impact and Dynamic Sources)*

Zodpovedný riešiteľ:	Stefan Wallner
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0627
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20100 €

Dosiahnuté výsledky:

Programy: SASPRO

8.) Zlepšenie štrukturálnej bezpečnosti a energetickej účinnosti prostredníctvom vývoja trvalo udržateľných cementových kompozitov na báze cementu odolných voči extrémnym teplotám s funkciami samoopravenia po požiari *(Improving Structural Safety and Energy Efficiency Through Development of Extreme Temperature Resistant Sustainable Cement-Based Composites with Post-Fire Self-Healing Features)*

Zodpovedný riešiteľ:	Ajitanshu Vedrtnam
Trvanie projektu:	1.9.2022 / 31.8.2025
Evidenčné číslo projektu:	1213/02/01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 38061 €

Dosiahnuté výsledky:

9.) Meranie and modelovanie svetelného znečistenia *(Measuring and Modelling Light Pollution)*

Zodpovedný riešiteľ:	Stefan Wallner
Trvanie projektu:	1.9.2022 / 31.8.2025
Evidenčné číslo projektu:	1384/03/01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 32130 €

Dosiahnuté výsledky:
KOCIFAJ, Miroslav** - KUNDRACIK, F. - WALLNER, Stefan. Low Earth Orbit satellite fragmentation rates are critically disrupting the natural night sky background. In Monthly Notices of the Royal Astronomical Society: Letters, 2025, vol. 541, no. 1, p. L47–L51. (2024: 4.8 - IF, Q1 - JCR, 1.688 - SJR, Q1 - SJR). ISSN 1745-3925. Dostupné na: https://doi.org/10.1093/mnrasl/slaf052 (APVV-22-0020 : Komplexný model šírenia svetelného znečistenia do okolitého prostredia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry. 1384/03/01 : Meranie a modelovanie svetelného znečistenia.) Typ: ADCA

Programy: DoktoGrant

10.) Štúdium vplyvu fyzikálno-mechanických faktorov recyklovaného kameniva na vlastnosti kompozitov konštrukčných betónov s maximalizáciou zníženia dopadu na životné prostredie

Zodpovedný riešiteľ:	Peter Czirák
Trvanie projektu:	1.1.2025 / 31.12.2025
Evidenčné číslo projektu:	APP0569
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Doktogrand SAV: 3000 €

Dosiahnuté výsledky:

ČEPČIANSKA, Jana** – PALOU, Martin T. – CZIRÁK, Peter – SLANÝ, Michal – MATEJDES, Marián – ŽEMLIČKA, Matúš. Mechanical and structural properties of fiber-reinforced heavyweight self-compacting concrete incorporating supplementary cementitious materials. In Results in Engineering, 2025, vol. 26, art. no. 105324, 17 p. (2024: 7.9 – IF, Q1 – JCR, 1.171 – SJR, Q1 – SJR). ISSN 2590-1230. Dostupné na: https://doi.org/10.1016/j.rineng.2025.105324 (APVV-23-0383 : Pochopenie a zlepšenie hydratačných reakcií nízkouhlíkových cementov pre vývoj nízkouhlíkového betónu vrátane zachytávania uhlíka karbonatáciou. APVV-19-0490 : Výskum a vývoj mnohozložkových cementových zmesí pre špeciálne konštrukčné materiály. VEGA 2/0080/24 : Hydratačné procesy a tvorba mikroštruktúry nových kompozitných cementov a ich využitie na vývoj špeciálnych betónov. APP0569 : Štúdium vplyvu fyzikálno-mechanických faktorov recyklovaného kameniva na vlastnosti kompozitov konštrukčných betónov s maximalizáciou zníženia dopadu na životné prostredie.) Typ: ADMA

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Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

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ADMB20 TAWFIK, Taher Anwar** - KAMAL, Alaa Hussein - FARIED, A. Serag. Assessment of the properties of concrete containing artificial green geopolymer aggregates by cold bonding pelletization process. In Environmental Science and Pollution Research, 2024, vol. 31, no. 18, pp. 27329-27344. (2023: 1.006 - SJR, Q1 - SJR). (2024 - Scopus). ISSN 0944-1344. Dostupné na: https://doi.org/10.1007/s11356-024-32987-7

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2. [1.1] SUN, Sheng - ZHANG, Yongtao - LV, Yanjun - XU, Xingshuang - WANG, Zhihao - LIU, Zujun. Research on Temperature Control of Mass Concrete for Multi-Tower Cable-Stayed Bridge Cap during Construction. In BUILDINGS, 2024, vol. 14, no. 10, art. no. 3112. Dostupné na: https://doi.org/10.3390/buildings14103112, Registrované v: WOS

3. [1.1] SUN, Tao - XU, Dong - OUYANG, Gaoshang - WANG, Ziyan - YE, Zhiyi. Mechanical properties and environmental implications of excess-sulfate cement concrete with phosphogypsum-based cold-bonded fine aggregates. In JOURNAL OF BUILDING ENGINEERING, 2024, vol. 95, art. no. 110008. Dostupné na: https://doi.org/10.1016/j.jobe.2024.110008, Registrované v: WOS

ADMB21 WALLNER, Stefan. Usage of Vertical Fisheye-Images to Quantify Urban Light Pollution on Small Scales and the Impact of LED Conversion. In Journal of Imaging, 2019, vol. 5, no. 11, art. no. 86. ISSN 2313-433X. Dostupné na: https://doi.org/10.3390/jimaging5110086

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1. [1.1] HORYNEK, Hubert. Convergence between Increased Light Pollution and Urban Sprawl Dynamic in Poland (2012-2022). In GEOMATICS AND ENVIRONMENTAL ENGINEERING, 2024, vol. 18, no. 6, pp. 73-93. ISSN 1898-1135. Dostupné na: https://doi.org/10.7494/geom.2024.18.6.73, Registrované v: WOS

2. [1.1] LEVIN, N. - COOPER, R.M. - KARK, S. Quantifying Night Sky Brightness as a Stressor for Coastal Ecosystems in Moreton Bay, Queensland. In REMOTE SENSING. OCT 2024, vol. 16, no. 20, art. no. 3828. Dostupné na: https://doi.org/10.3390/rs16203828, Registrované v: WOS

ADMB22 XIE, L. - ZHANG, Chuanzeng - HWU, C. B. - SLÁDEK, Ján - SLÁDEK, Vladimír. A comparison of three evaluation methods for Green's function and its derivatives for 3D generally anisotropic solids. In European Journal of Computational Mechanics, 2016, vol. 25, iss. 1-2, p. 109-128. (2015: 0.265 - SJR, Q3 - SJR). (2016 - Web of Science, Scopus). ISSN 1779-7179. Dostupné na: https://doi.org/10.1080/17797179.2016.1181039

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1. [1.1] LAZAR, Markus - MICHELITSCH, Thomas - AGIASOFITOU, Eleni. Three-Dimensional Green Tensor of One-Dimensional Hexagonal Quasicrystals. In CRYSTALS, 2024, vol. 14, no. 12, art. no. 1034. Dostupné na: https://doi.org/10.3390/cryst14121034, Registrované v: WOS

ADMB23 ZEZULOVÁ, Anežka - DZUROV, M. - PALOU, Martin T.. Mechanical properties

of chemically bonded phosphate ceramics with incorporation of barium ions. In Journal of Physics: Conference Series, 2022, vol. 2341, art. no. 012005. (2021: 0.210 - SJR). ISSN 1742-6588. Dostupné na: https://doi.org/10.1088/1742-6596/2341/1/012005

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1. [1.1] OZMEN, Eren - SOMERS, Nicolas - LOSEGO, Mark D. Rapid, Direct Fabrication of Thermochromic Ceramic Composite Sensors via Flash Lamp Annealing. In ADVANCED ENGINEERING MATERIALS, 2024, vol. 26, no. 11. ISSN 1438-1656. Dostupné na: https://doi.org/10.1002/adem.202400323, Registrované v: WOS

ADMB24 ZHANG, Yaoming - LI, X. - SLÁDEK, Vladimír - SLÁDEK, Ján. A general algorithm for calculating nearly singular integrals over high-order elements in 3D BEM. In Lixue Xuebao/Chinese Journal of Theoretical and Applied Mechanics, 2013, vol. 45, no. 6, p. 908-918. (2012: 0.366 - SJR). ISSN 0459-1879. Dostupné na: https://doi.org/10.6052/0459-1879-13-057

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ADMB25 ŽIVICA, Vladimír - PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš. Super high strength metabentonite based geopolymer. In Procedia Engineering, 2016, vol. 151, p. 133-140. (2015: 0.238 - SJR). ISSN 1877-7058. Dostupné na: https://doi.org/10.1016/j.proeng.2016.07.354

Citácie:

1. [1.1] AZUNNA, S.U. - AZIZ, F.N.A.B.A. - AL-GHAZALI, N.A. - RASHID, R.S.M. - BAKAR, N.A. Review on the mechanical properties of rubberized geopolymer concrete. In CLEANER MATERIALS. MAR 2024, vol. 11. Dostupné na: https://doi.org/10.1016/j.clema.2024.100225, Registrované v: WOS

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

AEC01 SLÁDEK, Vladimír - SLÁDEK, Ján. Optimal coordinate transformations in numerical integrations of weakly singular and nearly singular integrals in BEMs. In WIT Transactions on Modelling and Simulation : BOUNDARY ELEMENT RESEARCH IN EUROPE (EUROBEM 98), 1998, vol. 19, p. 233-242. ISSN 1746-4064. Dostupné na internete: https://www.witpress.com/elibrary/wit-transactions-on-modelling-and-simulation/20/6420

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2. [1.1] ZHONG, Y.D. - ZENG, X. - XIE, G.Z. - HOU, J.J. - WANG, R.L. - WANG, L.W. - HE, W.B. Structure Analysis for Plate Components Using an Advanced Boundary Element Method. In MECHANIKA. ISSN 1392-1207, 2024, vol. 30, no. 5, p. 398-407. Dostupné na: https://doi.org/10.5755/j02.mech.36578, Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 DARULA, Stanislav - KITTLER, Richard. CIE General Sky standard defining luminance distributions. In Proceeding Conference eSim 2002. The Canadian conference on building energy simulation : september 11th - 13th, 2002, Montreal. Dostupné na internete: http://www.ustarch.sav.sk/wp-content/uploads/darula_kittler_proc_conf_esim_2002.pdf

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AFC02 JANOTKA, Ivan - KRAJČI, Ľudovít. Utilization of natural zeolite in portland pozzolan cement of increased sulfate resistance. In Proceedings of the 5th CANMET/ACI International Conference on Durability of Concrete. - Barcelona, 2000, vol. 1, P. 223-236.

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2. [1.2] ABDULRASOOL, Abdulrasool Th - RASHEED, Laith Sh - ALSAAD, A. Aymen J. Investigating the strength activity index across different types of pozzolanic materials. In Aip Conference Proceedings, 2024-05-07, 3097, 1, pp. ISSN 0094243X. Dostupné na: https://doi.org/10.1063/5.0209409, Registrované v: SCOPUS

3. [1.2] LAL, Mihir - SINGH, Mukhtiar - SINGH, Maninder - MUNIBHASKAR, Pagadala. Impact of Partial Replacement of Calcined Clay on the Compressive

Strength of Cement Concrete. In Aip Conference Proceedings, 2024-02-20, 2986, 1, pp. ISBN [9780735448407]. ISSN 0094243X. Dostupné na: https://doi.org/10.1063/5.0192660, Registrované v: SCOPUS

AFC03 PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - ŽIVICA, Vladimír. The influence of sodium hexametaphosphate (Na6P6O18) on hydration of calcium aluminate cement under hydrothermal condition. In ICEBMP 2016 - Ekologie a nové stavební hmoty a výrobky : elektronický sborník přednášek [elektronický zdroj], 9 p. ISBN 978-80-87397-23-7. Názov z obrazovky

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1. [1.1] SONG, Y.Y. - GUO, X.Y. - BU, Y.H. - ZHANG, Y.F. - TIAN, L.J. Hydration and degradation mechanism of sodium hexametaphosphate chemically bonded material under CO2 sequestration. In GEOENERGY SCIENCE AND ENGINEERING. ISSN 2949-8929, MAR 2024, vol. 234, art. no. 212641. Dostupné na: https://doi.org/10.1016/j.geoen.2024.212641, Registrované v: WOS

2. [1.2] SONG, Yuyuan - GUO, Xinyang - ZHANG, Wenli - BU, Yuhuan. Strength properties and mechanism of phosphate-modified high alumina cement. In Zhongguo Shiyou Daxue Xuebao Ziran Kexue Ban Journal of China University of Petroleum Edition of Natural Science, 2024-12-01, 48, 6, pp. 174-181. ISSN 16735005. Dostupné na: https://doi.org/10.3969/j.issn.1673-5005.2024.06.019, Registrované v: SCOPUS

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AGI Správy o vyriešených vedeckovýskumných úlohách

AGI01 KINZEY, Bruce - PERRIN, Tess E. - MILLER, Naomi J. - KOCIFAJ, Miroslav - AUBÉ, Martin - SOLANO LAMPHAR, H. A. An Investigation of LED Street Lighting';s Impact on Sky Glow. Richland, Washington : Pacific Northwest National Laboratory, 2017. 38 p. Dostupné na internete: https://energy.gov/sites/prod/files/2017/05/f34/2017_led-impact-sky-glow.pdf

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1. [1.1] CHEN, Z.Q. - XU, W.X. - ZHAO, Z.Y. The Assessment of Industrial Agglomeration in China Based on NPP-VIIRS Nighttime Light Imagery and POI Data. In REMOTE SENSING. JAN 2024, vol. 16, no. 2, art. no. 417. Dostupné na: https://doi.org/10.3390/rs16020417, Registrované v: WOS

2. [1.1] HSU, P.W. - CHIU, M.C. - HSU, F.C. - YANG, C.C.S. - LIN, C.C. Are LED lights driving the massive nuptial flight swarm of the tramp ant Technomyrmex albipes?. In ENTOMOLOGIA EXPERIMENTALIS ET APPLICATA. ISSN 0013-8703, JAN 2024, vol. 172, no. 1, p. 75-83. Dostupné na: https://doi.org/10.1111/eea.13377, Registrované v: WOS

BAB Odborné knižné publikácie vydané v domácich vydavateľstvách

BAB01 KITTLER, Richard - DARULA, Stanislav - PEREZ, Richard. A set of standard skies characterising daylight conditions for computer and energy conscious design. Bratislava : Polygrafia SAV, 1998. 52 p.

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1. [1.1] SONG, S. - SUN, H.F. - LONG, J.B. - TAN, X. - LI, J.H. Light-thermal

environment of vertical translucent enclosure structures under solar radiation and method of internal shading adjustment. In ENERGY. ISSN 0360-5442, FEB 15 2024, vol. 289, art. no. 130036. Dostupné na: https://doi.org/10.1016/j.energy.2023.130036, Registrované v: WOS

BDCA Odborné práce v zahraničných karentovaných časopisoch impaktovaných

BDCA01 KOCIFAJ, Miroslav - AUBÉ, Martin. Editorial: Special issue on light pollution. In Lighting Research and Technology, 2014, vol. 46, no. 3, dOI: 10.1177/1477153513517986. (2013: 1.485 - IF, Q1 - JCR, 0.965 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1477-1535. Dostupné na: https://doi.org/10.1177/1477153513517986

Citácie:

1. [1.1] JäGERBRAND, A.K. - BRUTEMARK, A. Correspondence: Addressing and mitigating the ecological effects of light pollution requires ecological perspectives. In LIGHTING RESEARCH & TECHNOLOGY. ISSN 1477-1535, JAN 2024, vol. 56, no. 1, p. 102-104. Dostupné na: https://doi.org/10.1177/14771535221142489, Registrované v: WOS

FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)

FAI01 Singular Integrals in Boundary Element Methods. Edited by V. Sládek, J. Sládek. Southampton & Boston : WIT Press Publishing, 1998. 448 p. ISBN 978-1-85312-533-1

Citácie:

1. [1.1] DUMONT, Ney Augusto. Consistency, precision, and accuracy assessment of the collocation boundary element method for two-dimensional problems of potential and elasticity. In ARCHIVE OF APPLIED MECHANICS, 2024, vol. 94, no. 9, pp. 2489-2518. ISSN 0939-1533. Dostupné na: https://doi.org/10.1007/s00419-024-02592-8, Registrované v: WOS

2. [1.1] WANG, Zhetong - XU, Chuang - DONG, Chunying. A modified RI-IGABEM with only weakly singular integral for viscoelastic analysis. In ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, 2024, vol. 160, pp. 299-316. ISSN 0955-7997. Dostupné na: https://doi.org/10.1016/j.enganabound.2024.01.002, Registrované v: WOS

3. [1.1] ZHANG, Guanyi - ZHANG, Liangliang - LEI, Gang - GAO, Yang. Estimation of heat transfer and thermal conductivity of particle-reinforced hollow cylinder composites. In MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, 2024, vol. 31, no. 30, pp. 13195-13209. ISSN 1537-6494. Dostupné na: https://doi.org/10.1080/15376494.2024.2334372, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. Ing. Miroslav Čekon, PhD.
Názov semestr. predmetu: Progresívne materiály a technológie budov
Počet hodín za semester: 10
Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra materialového inžinierstva a fyziky

doc. Ing. Miroslav Čekon, PhD.
Názov semestr. predmetu: Stavebná tepelná technika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra materialového inžinierstva a fyziky

Prof. Dr. Ing. Martin-Tchingnabé Palou
Názov semestr. predmetu: Špeciálna technológia anorganických materiálov
Počet hodín za semester: 12
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav anorganickej chémie, technológie a materiálov

Ing. Ladislav Sátor, PhD.
Názov semestr. predmetu: Dynamika stavebných konštrukcií
Počet hodín za semester: 26
Názov katedry a vysokej školy: Žilinská univerzita v Žiline, Stavebná fakulta

Ing. Richard Slávik, Ph.D.
Názov semestr. predmetu: Energetické vlastnosti budov
Počet hodín za semester: 20
Názov katedry a vysokej školy: Mendelova univerzita, Brno, Česká republika, Ústav nauky o dřevě a dřevařských technologií

Ing. Richard Slávik, Ph.D.
Názov semestr. predmetu: Technické zařízení budov
Počet hodín za semester: 28
Názov katedry a vysokej školy: Mendelova univerzita, Brno, Česká republika, Ústav nauky o dřevě a dřevařských technologií

Ing. Richard Slávik, Ph.D.
Názov semestr. predmetu: Tepelná technika budov
Počet hodín za semester: 28
Názov katedry a vysokej školy: Mendelova univerzita, Brno, Česká republika, Ústav nauky o dřevě a dřevařských technologií

Dr. Stefan Wallner, MSc.
Názov semestr. predmetu: Light pollution & satellite constellations as threats to the night sky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Universität Wien, Rakúsko, Department of Astrophysics

Semestrálne cvičenia:

Ing. Peter Czirák
Názov semestr. predmetu: Concrete technology
Počet hodín za semester: 16
Názov katedry a vysokej školy: Stavebná fakulta STU, KMIF

doc. Ing. Miroslav Čekon, PhD.
Názov semestr. predmetu: Fyzika 2
Počet hodín za semester: 8
Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra materialového inžinierstva a fyziky

doc. Ing. Miroslav Čekon, PhD.
Názov semestr. predmetu: Progresívne materiály a technológie budov
Počet hodín za semester: 12
Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra materialového inžinierstva a fyziky

doc. Ing. Miroslav Čekon, PhD.
Názov semestr. predmetu: Stavebná tepelná technika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra materialového inžinierstva a fyziky

Ing. Jan Hajzler, Ph.D.
Názov semestr. predmetu: Characterization Methods of Inorganic Materials
Počet hodín za semester: 20
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Jan Hajzler, Ph.D.
Názov semestr. predmetu: Chemické inženýrství pro životní prostředí I
Počet hodín za semester: 26
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Jan Hajzler, Ph.D.
Názov semestr. predmetu: Praktikum z anorganické chemie
Počet hodín za semester: 52
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Jan Hajzler, Ph.D.
Názov semestr. predmetu: Praktikum z anorganické chemie I
Počet hodín za semester: 104
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Jan Hajzler, Ph.D.
Názov semestr. predmetu: Praktikum z chemického inženýrství I
Počet hodín za semester: 56
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Michal Marko, Ph.D.
Názov semestr. predmetu: Characterization methods of inorganic materilas
Počet hodín za semester: 20
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Michal Marko, Ph.D.
Názov semestr. predmetu: Chemické inženýrství pro životní prostředí
Počet hodín za semester: 26
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Michal Marko, Ph.D.
Názov semestr. predmetu: Praktikum z anorganické chemie I
Počet hodín za semester: 104
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Ing. Michal Marko, Ph.D.
Názov semestr. predmetu: Praktikum z chemického inženýrství I
Počet hodín za semester: 52
Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav chemie materiálů

Semináre:

Ing. Eva Kuzielová, PhD.
Názov semestr. predmetu: Technológia silikátov
Počet hodín za semester: 13
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Oddelenie anorganických materiálov/Ústav anorganickej chémie, technológie a materiálov

Ing. Ladislav Sátor, PhD.
Názov semestr. predmetu: Seminár z teoretickej mechaniky
Počet hodín za semester: 26
Názov katedry a vysokej školy: Žilinská univerzita v Žiline, Stavebná fakulta

Terénne cvičenia:

Individuálne prednášky:

doc. Ing. Miroslav Čekon, PhD.
Názov semestr. predmetu: Konštrukcie a vnútorné prostredie budov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra konštrukcií pozemných stavieb

Príloha A-5

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
China					J. Sládek	30
					V. Sládek	30
Počet vyslaní spolu					2	60

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Počet prijatí spolu						

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Poľsko	CMM	V. Sládek	5
Grécko	FDM	J. Sládek	5
Poľsko	CMM	M. Repka	5
Holandsko	COBEE 2025	M. Čekon	4
Austrália	BS 2025	M. Čekon	6
Maďarsko	CESBP 2025	M. Čekon	6
Česká Republika	COMSOL Multiphysics	M. Čekon	2
Spolu	6	4	33

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:
CMM - 26th International Conference on Computer Methods in Mechanics
FDM – Fracture, Damage and Structural Health Monitoring
COBEE - Conference on Building Energy and Environment
BS - Building Simulation Conference
CESBP - Central European Symposium on Building Physics

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Stefan Wallner		PB	Licht aus! Winterruhe im Garten	Gols, Rakusko	18.12.2025
Stefan Wallner		PB	Der Himmel über dem Burgenland	Frauenkirchen, Rakusko	12.12.2025
Stefan Wallner		PB	Schattenseite des Lichts	Oberschuetzen, Rakusko	24.10.2025
Stefan Wallner		PB	Prezentácia projektu SASPRO2	Bratislava	18.09.2025
Stefan Wallner		PB	Erlebte Natur "Verlust der Nacht"	St. Poelten, Rakusko	16.09.2025
Stefan Wallner		RO	Meteorický roj Perzeidov	Radio Burgenland	12.08.2025
Stefan Wallner		PB	Školská dielňa Nachthimmel und Lichtverschmutzung	Freistadt, Rakusko	02.07.2025
Stefan Wallner		RO	Tlačová konferencia Sternenplätze Sölk	Mitterberg-Sankt Martin, Rakusko	03.06.2025
Stefan Wallner		RO	Zatmenie Slnka 2025	Radio Burgenland	29.03.2025
Stefan Wallner		PB	Schattenseite des Lichts	Lunz am See, Rakusko	11.03.2025
Stefan Wallner		PB	Workshop Lichtverschmutzung und Schutz des Nachthimmels	Online	12.02.2025
Stefan Wallner		PB	Workshop Lichtverschmutzung und Schutz des Nachthimmels	Sankt Gallen, Rakusko	05.02.2025
Stefan Wallner		PB	Workshop Lichtverschmutzung und Schutz des Nachthimmels	Poellau, Rakusko	03.02.2025
Stefan Wallner		PB	Schattenseite des Lichts	Hochschule Burgenland, Rakusko	28.01.2025
Stefan Wallner		PB	Nachthimmel und	Paris Lodron Universität	18.01.2025

			Lichtverschmutzung	Salzburg, Rakusko	
Stefan Wallner		IN	Podcast „Nimm mi mit“	Online (Spotify)	2025
Miroslav Kocifaj		IN	Impact sur les observatoires de la lumière diffuse des débris spatiaux	https://www.ca-se-passe-la-haut.fr/2025/06/impact-sur-les-observatoires-de-la.html	3.6.2025
Miroslav Kocifaj		IN	V SAV vytvorili prvý model svetelného znečistenia zohľadňujúci heterogénne stochastické oblačné polia	https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=13168	3.11.2025
Richard Slávik	Lukáš Zelem	EX	Zaži vedu so SAV	https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no%20=12885%3E%20&doc=services-news&source_no=20&news_no=12885	16.5.2025
Jana Čepčianska	L. Sátor, L. Kómar, I. Hollý,	EX	Deň otvorených dverí	https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=13176	14.11.2025

[1] *PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film*

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2025

Domáce ocenenia

Ocenenia SAV

Kocifaj Miroslav
Špičková publikácia SAV
Oceňovateľ: Predsedníctvo Slovenskej Akadémie Vied
Opis: Špičková publikácia SAV v kategórii Nature index publikácie: Detailed Assessment of Multiple-Scattering Effects on Night-Sky Brightness Modeling in Turbid Environments: The Impact of Truncation and Convergence Errors. Journal of Geophzsical Research = Atmospheres. Vol. +ľí, no. 1 (2024), art. no. e2023JD039804

Wallner Stefan
Špičková publikácia SAV
Oceňovateľ: Predsedníctvo Slovenskej Akadémie Vied
Opis: Špičková publikácia SAV v kategórii Nature index publikácie: Detailed Assessment of Multiple-Scattering Effects on Night-Sky Brightness Modeling in Turbid Environments: The Impact of Truncation and Convergence Errors. Journal of Geophzsical Research = Atmospheres. Vol. +ľí, no. 1 (2024), art. no. e2023JD039804

Iné domáce ocenenia

Medzinárodné ocenenia

Falchi Fabio
IAU named an asteroid 2015 XA204 as 'Falchi'
Oceňovateľ: The International Astronomical Union
Opis: https://www.minorplanetcenter.net/db_search/show_object?object_id=656196