

Ústav stavebníctva a architektúry SAV



**Správa o činnosti organizácie SAV
za rok 2019**

Bratislava
január 2020

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav stavebníctva a architektúry SAV

Riaditeľ: Ing. Peter Matiašovský, CSc.

Zástupca riaditeľa: Prof.Dr.Ing. Martin-Tchingnabé Palou

Vedecký tajomník: RNDr. Ladislav Kómar, PhD.

Predseda vedeckej rady: Mgr. Miroslav Kocifaj, PhD.

Člen Snemu SAV: Prof. Ing. Ján Sládek, DrSc.

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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:

Typ organizácie: Príspevková od roku 1994

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	38	21	17	5	1	38	33.63	21.65	0
Vedeckí pracovníci	16	14	2	3	0	16	14.15	16.4	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	5	3	2	2	1	5	3.25	2.25	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	5	0	5	0	0	5	3.33	0	0
Odborní pracovníci ÚS	7	2	5	0	0	7	7.65	3	0
Ostatní pracovníci	5	2	3	0	0	5	5.25	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2019 (uvádzať zamestnancov v pracovnom pomere, vrátaneriadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2019 (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 31.12.2019)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	2	11	3	1	2	6	6
Ženy	1	1	0	0	1	1	0

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	2	1.0	3	3.0	3	2.5	0	0.0	0	0.0	2	2.0	1	1.0	5	4.2	2	2.0
Ženy	1	0.3	0	0.0	1	1.0	0	0.0	0	0.0	1	1.0	0	0.0	1	1.0	0	0.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2019

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	50.1	50.4	48.6
Ženy	54.1	48.5	45.5
Spolu	51.9	50.2	48.0

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2019

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	32466	32466	-	-	-	-
2. Projekty APVV	6	0	-	-	235386	223814	-	-
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	2	0	-	-	20286	20286	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2019

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2019	ÚSTARCH	3	
2. Projekty výziev OP ŠF podané r. 2019	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2019

Tabuľka 2c Medzinárodné projekty riešené v roku 2019

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 7. RP EÚ a Horizont 2020	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	0	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	3	-	-	-	-	-	25000
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTs z národných zdrojov okrem SAV (APVV a iné)	0	1	0	0	-	-	0	5696
9. Iné projekty	0	1	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2019

Tabuľka 2d Počet projektov Horizont 2020 v roku 2019

	A	B
Počet podaných projektov Horizont 2020	1	

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

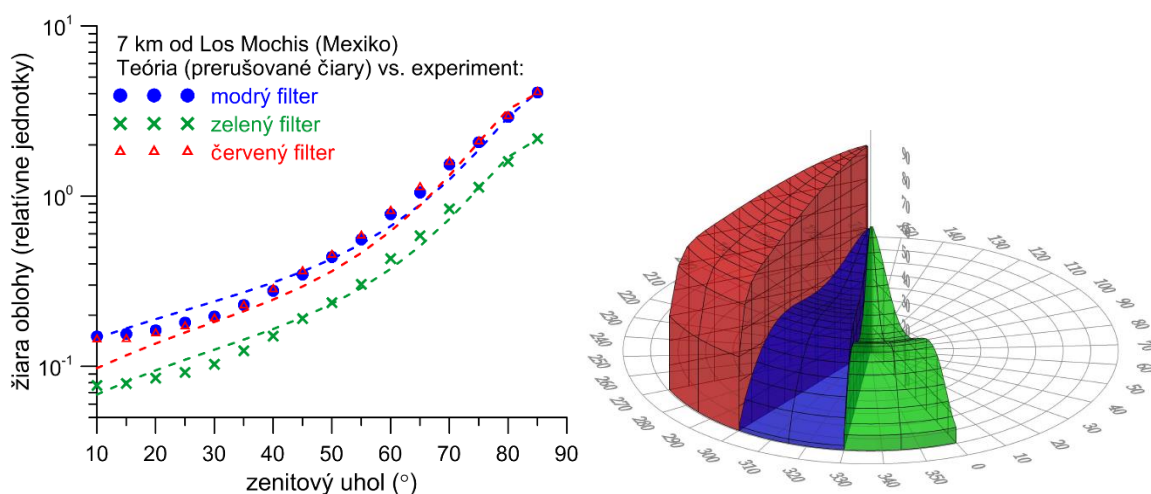
2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

2.3.1. Základný výskum

Názov výsledku: Určenie celkovej emisnej funkcie mesta (APVV-18-0014)

Zodpovedný riešiteľ: Miroslav Kocifaj

Svetelné znečistenie je nový fenomén detegovaný už aj satelitmi. Jas nočnej oblohy je daný zložitým spolupôsobením všetkých mestských svetelných zdrojov a možno ho kvantifikovať cez tzv. *Celkovú Emisnú Funkciu* (CEF). Jej priame určenie je viac-menej nemožné vzhľadom k obrovskému počtu lokálnych svetelných zdrojov, ich zložitému priestorovému usporiadaniu, rozdielnemu spektru či smeru vyžarovania. CEF je kľúčovým prvkom pri predpovediach svetelného znečistenia prostredia a určuje mieru, s akou sa jas oblohy mení so vzdialenosťou. Vývoj metód detekcie CEF kdekoľvek na svete je preto jednou z najnaliehavejších úloh výskumu v oblasti svetelného znečistenia. Naša skupina vyvinula revolučný model, ktorý umožňuje získať CEF z pozemných meraní jasu oblohy. Inovatívne riešenie, ktoré sme publikovali v časopise PNAS prináša nové možnosti systematického monitorovania CEF v rámci veľkého územia a iniciovalo tak novú fázu výskumu zdrojov svetelného znečistenia v globálnom meradle.



Obr. Vľavo: Teoretický model vs. experimentálne dáta získané rádiometriou nočnej oblohy. Vpravo: Emisná funkcia CEF získaná pomocou 3 farebných filtrov. Rozdiely medzi RGB zložkami súvisia so svetelnými zdrojmi a s odrazivosťou okolitého terénu v Los Mochis.

Výstupy:

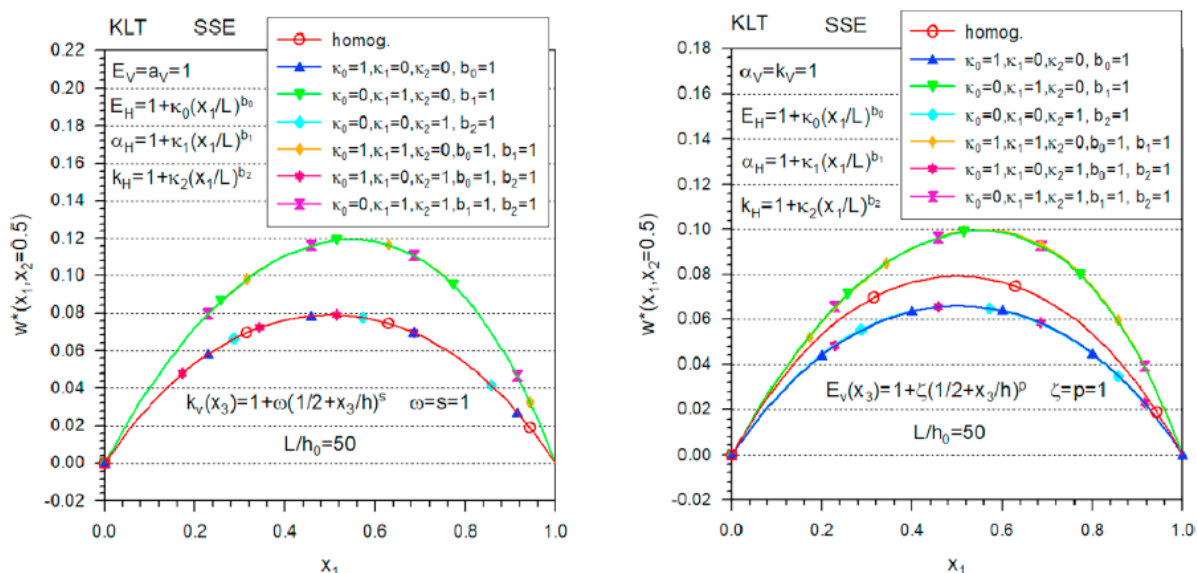
KOCIFAJ, Miroslav - SOLANO LAMPHAR, H. A. - VIDEEN, Gorden. Night-sky radiometry can revolutionize the characterization of light-pollution sources globally. In Proceedings of the National Academy of Sciences of the United States of America, 2019, vol. 116, no. 16, p. 7712-7717. (9.580 - IF2018). ISSN 0027-8424. Typ: ADCA

Názov výsledku: Počítačové modelovanie javov klasickej a neklasickej termoelasticity v pokročilých materiáloch (APVV -14-0440)

Zodpovedný riešiteľ: Vladimír Sládek

Tepelné napätia, najmä ich nespojitosť na rozhraní medzi dvomi rôznymi materiálmi, často predstavujú výrazný faktor poškodenia laminovaných kompozitných konštrukcií. Preto je potrebné spoľahlivé predpovedanie tepelných napätí v takýchto konštrukciách a tiež z toho pramení silná motivácia nahradiť laminovane doskové konštrukcie funkcionálne gradovanými (FGM) doskami všade, kde je to možné. Preto je prirodzenou snahou riešiť všetky tieto problémy s použitím jednotnej formulácie, čo umožňuje porovnávať výsledky získané rôznymi teóriami navzájom ale aj s inými dostupnými výsledkami. Inou aktuálnou tématikou v termodynamike je pojednanie rýchlosti šírenia teplotných zmien v kontinuu. V klasickej termoelasticite vo všeobecnosti je teplotné pole viazané s elastickým, avšak teplotné zmeny sa nešíria konečnou rýchlosťou ako vlny. Veľké úsilie bolo vynaložené v tejto otázke a dnes existujú rôzne zovšeobecnené teórie, zahŕňajúce konečnú rýchlosť šírenia tepelných rozruchov.

Použitím predpokladov klasických a neklasických teórií termoelasticity a ohybu dosiek, sme vypracovali jednotnú formuláciu ohybu FGM dosiek [1, 2], ako aj formuláciu na numerické riešenie termodynamických úloh pre kvázikryštály [3].



Obr. Priebeh priechybov tenkej dosky s tranzverzálnou gradáciou a) tepelnej vodivosti (k_V) a b) modulu pružnosti (E_V) s rôznou kombináciou rovinnej gradácie modulu pružnosti (E_H), tepelnej rozťažnosti (α_H) a tepelnej vodivosti (k_H)

Výstupy:

- [1] SÁTOR, Ladislav - SLÁDEK, Vladimír - SLÁDEK, Ján. Consistent 2D formulation of thermoelastic bending problems for FGM plates. In Composite Structures, 2019, vol. 212, p. 412-422. (4.829 - IF2018). ISSN 0263-8223.(APVV-14-0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov).
- [2] SÁTOR, Ladislav - SLÁDEK, Vladimír - SLÁDEK, Ján. Coupling effects in transient analysis of FGM plates bending in non-classical thermoelasticity. In Composites Part B: Engineering, 2019, vol. 165, p. 233-246. (6.864 - IF2018). ISSN 1359-8368.(APVV-14-0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov).
- [3] HOSSEINI, S. M. - SLÁDEK, Ján - SLÁDEK, Vladimír. Anisotropic transient thermoelasticity analysis in a two-dimensional decagonal quasicrystal using meshless local Petrov-Galerkin (MLPG) method. In Applied Mathematical Modeling, 2019, vol. 66, p. 275-295. (2.841 - IF2018). ISSN 0307-904X.(APVV-14-0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov).

Názov výsledku: Analýza trhliny telesa v gradientnej termo-piezoelektricity (APVV SK-CN-RD-18-0005).

Zodpovedný riešiteľ: Ján Sládek

Zmenšovaním konštrukcií k veľkostiam mikro/nano-metrov sa ich správanie stáva závislým od veľkosti (size effect). Tento efekt nie je možné popísať klasickou teóriou kontinua. Zaujímavou je skutočnosť, že hoci tento efekt bol pozorovaný relatívne nedávno, je možné ho pojednať v rámci zovšeobecnených teórií kontinua (napr. gradientnou elasticitou). Dobré známou je tiež skutočnosť, že v centrosymetrických kryštáloch sa nevyskytuje piezoelektrický jav. Avšak v konštrukciách malých rozmerov v dôsledku veľkých gradientov deformácií sa pozoroval tzv. flexoelektrický jav - indukovanie elektrickej polarizácie mechanickými nehomogénnymi deformáciami a to aj v centrosymetrických kryštáloch. V mikro/nano-konštrukciách sa pomerne ľahko generujú aj veľké teplotné gradienty a rýchlosť šírenia tepla má konečnú hodnotu, preto je vhodné aplikovať teóriu vedenia tepla vyššieho rádu. Navrhli sme výpočtový model centrálnej ako aj okrajovej trhliny, ktorý zohľadňuje vyššie spomenuté efekty. Zmena charakteristického časového parametra má vplyv na distribúciu teplôt a roztvorenie trhliny. Efekty sú výrazné vo veľmi krátkych časových úsekoch a pri vyšších teplotných gradientoch.

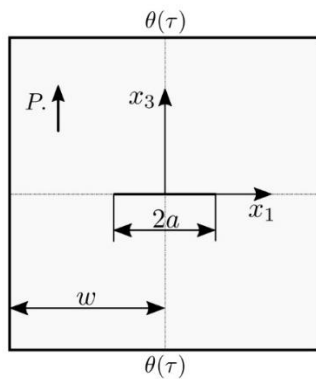


Figure 1: A square plate with central crack

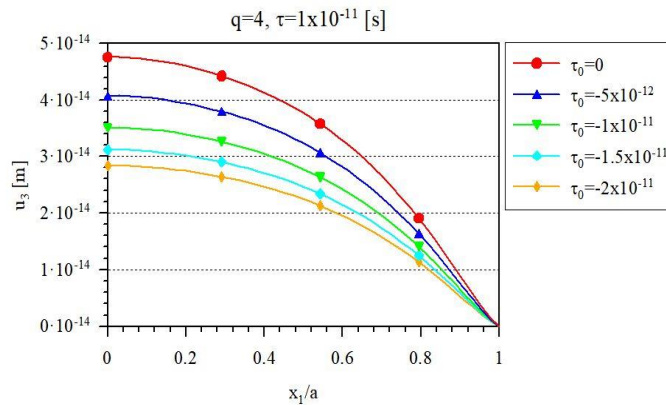


Figure 2: Crack opening displacements u_3^+ of the upper crack-face Γ_c^+ at time $1e-11$ [s] for gradient thermo-piezoelectricity $q=4$

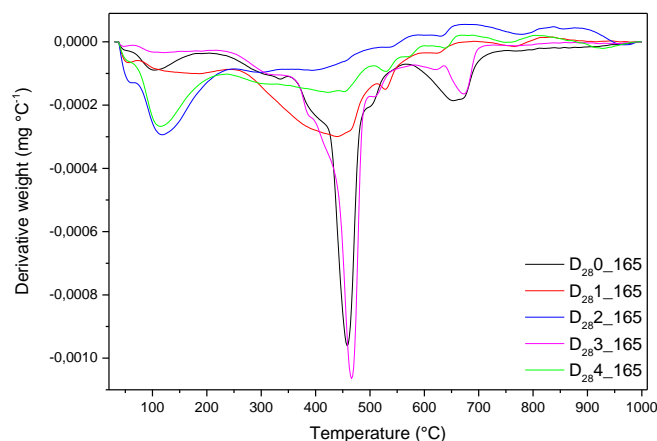
Výstupy:

J. Sladek, V. Sladek, M. Repka, C.L. Tan: Crack analysis of solids with gradient thermo-piezoelectricity *Theoretical and Applied Fracture Mechanics*, Vol.103 (2019), 10267.

Názov výsledku: Vplyv dlhodobého pôsobenia simulovaných hydrotermálnych podmienok na zmesové cementy (APVV-15-0631).

Zodpovedný riešiteľ: Martin T. Palou

Norma vychádzajúca z odporúčaní Amerického ropného inštitútu (API; American Petroleum Institute) určuje pevnostné skúšky cementových materiálov po siedmych dňoch ich autoklávovania. Preto sa aj väčšina odborných štúdií, ktoré sa zaoberajú výskumom cementovania v geotermálnych vrtoch, obmedzuje iba na krátkodobé testovanie. Priebeh časovo závislých negatívnych zmien cementových materiálov však okrem dlhodobého pôsobenia vysokých teplôt a tlakov výrazne ovplyvňuje aj meniaci sa pomer CaO/SiO_2 , či voda dostupná pre reakcie. Zamerali sme sa preto na dlhodobjšie hodnotenie vplyvu vybraných prímies na vlastnosti cementových pást určených pre geotermálne vrty. Študované bolo zloženie a množstvo hydratačných produktov i sekundárnych fáz, pórová štruktúra a ich vplyv na mechanické vlastnosti pást. Pozitívne výsledky boli dosiahnuté predovšetkým pri použití kremičitého úletu, či jeho kombinácie s ďalšími prímiesami, čo možno vysvetliť dĺžkou kremičitých reťazcov, morfológiou hydratačných produktov a väčším množstvom C-S-H s vyššou hustotou ako následkov nižšieho pomeru CaO/SiO_2 a vyššej teploty.



Obr. DTG krivky zmesových cementových pást po 28 dňoch autoklávovania pri tlaku 0,6 MPa a teplote 165 °C.

Výstupy:

Kuzielová, Eva - Žemlička, Matúš - Másilko, Jiří - Palou, Martin T. Development of G-oil well cement phase composition during long term hydrothermal curing. *Geothermics* (2019) doi:10.1016/j.geothermics.2019.03.002

Kuzielová, Eva - Žemlička, Matúš - Novotný, Radoslav - Palou, Martin T. Middle stage of portland cement hydration influenced by different portions of silica fume, metakaolin and ground granulated blast-furnace slag. *Journal of Thermal Analysis and Calorimetry* (2019) doi.org/10.1007/s10973-019-08313-6

Kuzielová, Eva - Žemlička, Matúš - Másilko, Jiří - Palou, Martin T. Dependence of blended G-oil well cement phase compositions and properties on the time of hydrothermal curing. In *ICCC 2019. 15th International Congress on the Chemistry of Cement: papers and posters proceedings*. Prague, September 16-20, 2019 [elektronický zdroj]. Editor J. Gemrich. – Prague : Research Institute of Binding Materials Prague, 2019, 11 p. ISSN 2523-935X.

Kuzielová, Eva - Žemlička, Matúš - Másilko, Jiří - Palou, Martin T. Phase transformations in blended G-oil well cements. In *2nd Journal of Thermal Analysis and Calorimetry Conference, Budapest, Hungary, June 18-21, 2019: book of abstracts*. - Hungary, 2019, p. 382-383. ISBN 978-963-454-416-6.

Žemlička, Matúš - Kuzielová, Eva - Palou, Martin T. Priebeh hydratácie v modelovej sústave Portlandský cement - kremičitý úlet - metakaolín - vysokopecná troska. In *Kvalita cementu 2019 : XIII. ročník odborného seminára, Výskumný ústavu stavebných hmot, 11. - 12. dubna 2019, Znojmo*. - Výskumný ústav stavebných hmot, 2019, s. 35-42. ISBN 978-80-87397-30-5.

Žemlička, Matúš - Kuzielová, Eva - Palou, Martin T. Study of hydration courses in multicomponent binder system matrixes. In *ICCC 2019. 15th International Congress on the Chemistry of Cement : papers and posters proceedings*. Prague, September 16-20, 2019 [elektronický zdroj]. Editor J. Gemrich. - Prague : Research Institute of Binding Materials Prague, 2019, 10 p. ISSN 2523-935X.

2.3.2. Aplikačný typ

Názov výsledku: Vedecké vyhodnotenie vytvorenej pórovej štruktúry a priepustnosti mostových betónov z hľadiska aspektu posúdenia ďalšej životnosti a bezpečnosti mostov.

Zodpovedný riešiteľ: Martin T. Palou

Aplikátor: Technický a skúšobný ústav stavebný, n. o.

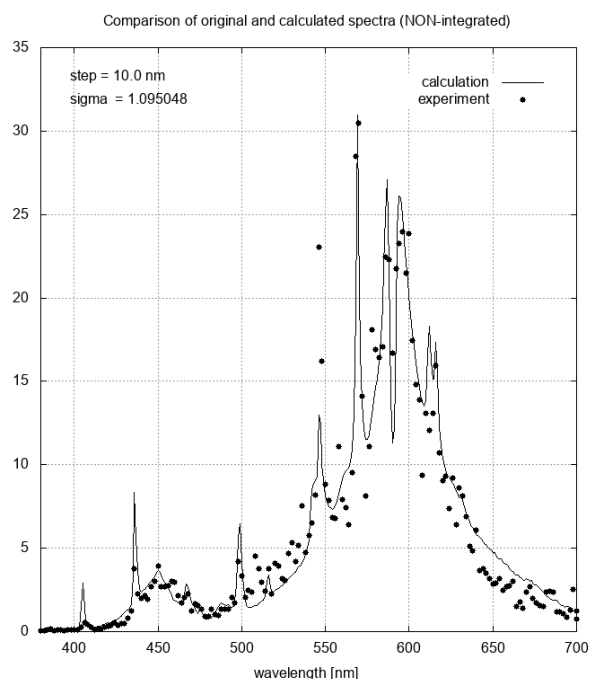
Na posúdenie životnosti a bezpečnosti mostov je dôležité analyzovať pórovú štruktúru a priepustnosť železobetónových konštrukcií za účelom diagnostikovať základné príčiny poškodenia a degradácie betónu, a navrhovať materiálové riešenie. Pomocou metódy ortuťovej pórozimetrie boli stanovené základné charakteristiky pórovej štruktúry ako sú merný povrch pórov, distribúcia veľkosti pórov, medián a polomer pórov, celková pórovitosť a koeficient priepustnosti niekoľko poškodených mostov. V kombinácii s metódou termickej a röntgenovej analýzy boli identifikované príčiny poškodenia a degradácie betónu, ktorými sú dlhodobé autogénne chemické a fyzikálne procesy ako aj vplyvy vonkajších faktorov.

Názov výsledku: Získanie emisnej funkcie mesta Chicago

Zodpovedný riešiteľ: Miroslav Kocifaj

Aplikátor: Night Sky Metrics

Night Sky Metrics v spolupráci s Adler planetáriom participuje na projekte monitorovania svetelného znečistenia v okolí Chicaga, Illinois, USA. Tento projekt je sponzorovaný Dept. of Energy a Pacific Northwest National Laboratory. Súčasťou súboru experimentov sú aj širokopásmové a úzkopásmové spektroskopické merania jasu, pričom ÚSTARCH SAV bol vyzvaný analyzovať a interpretovať experimentálne dáta pomocou nášho modelu (PNAS 116, 7712-7717, 2019) s cieľom získať emisnú funkciu tejto veľmi presvetlenej oblasti. V prvej fáze sme vyvinuli riešenie pre identifikáciu hlavných zdrojov svetelného znečistenia spracovaním spektier nočnej oblohy, pričom predbežné výsledky sú na obrázku dole. Naše riešenie je v súčasnosti v tlači vo vysoko impaktovanom časopise Mon. Not. R. Astron. Soc. (predbežne pridelený DOI: [stz3260](https://doi.org/10.1093/mnras/stz3260)). V druhej fáze v roku 2020 bude riešená samotná emisná funkcia.



Merané a simulované spektrum svetelného dómu nad Chicagom. Výsledky naznačujú, že v svetelných zdrojoch prevláda LED technológia, pričom menej prispievajú vysokotlakové výbojky (HPS) a ešte menej flôrescenčné lampy.

Názov výsledku: Kritéria na hodnotenie denného osvetlenia v budovách (APVV 0118-12, VEGA 2/0042/17).

Zodpovedný riešiteľ: Stanislav Darula

Aplikátor: UNMS SR - Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky.

Denné osvetlenie je jedným z kľúčových faktorov určujúcich kvalitu vnútorného prostredia budov. Výskum javov v oblasti denného svetla a jeho dostupnosti v posledných desaťročiach výrazne pokročil. Koncept determinovania podmienok popisujúcich kritické svetelné stavy sa vďaka systematickým meraniam dennej osvetlenosti a výpočtovej technike posunul do štúdia celoročnej dostupnosti dennej osvetlenosti v lokalite s možnosťou transferu poznatkov do normotvornej činnosti. V decembri 2018 bola v CEN publikovaná nová európska norma pre hodnotenie denného osvetlenia v budovách EN 17037 Daylight in building, na ktorej riešení sa významnou mierou podieľal riešiteľský kolektív projektov APVV 0118-12 a VEGA 2/0042/17. Norma obsahuje kritéria a požiadavky na hodnotenie denného osvetlenia, výhľadu, preslnenia interiérov a oslnenia zraku. ÚSTARCH SAV bol spolu s dánskymi kolegami zodpovedný za riešenie a obsah časti Preslnenie. V spolupráci s Úradom pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky sa podarilo uplatniť mnohé slovenské riešenia v európskom priestore. Finálny návrh dokumentu bol pripomienkovaný 34 členskými a asociovanými krajinami CEN - The European Committee for Standardization (Európskym výborom pre normalizáciu). Norma EN 17037 vytvára nové východiská pre budúci rozvoj stavebnej fyziky v oblasti denného osvetlenia budov, zavádza nové kritéria a metódy jeho hodnotenia. V súčasnosti je EN 17037 v štádiu implementácie do sústavy národných technických noriem v európskych krajinách, na Slovensku s označením STN EN 17037 (https://www.sutn.sk/eshop/public/standard_detail.aspx?id=128407).

Výstupy:

STN EN 17037 Daylight in buildings (Denné osvetlenie budov).

DARULA, Stanislav. Nová európska norma pre denné osvetlenie - zásadné tézy a praktické dôsledky. Zborník z odborného seminára SLOVALUX 2019. Bratislava: Slovenská svetelnotechnická spoločnosť, 2019, s. 42-49. ISBN 978-80-972865-1-4.

2.3.3. Medzinárodné vedecké projekty

Projekt: MVTs - Visegrad Group (V4)-Korea Joint Research Program On Chemistry and Chemical Engineering “The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment „RADCON“

Zodpovedný riešiteľ: Martin T. Palou

Vysokopevnostné ťažké betóny boli pripravené použitím dvoch typov kameniva s vysokou objemovou hmotnosťou (baryt- 3845 kg m^{-3} a magnetit – 4760 kg m^{-3}), portlandského cementu, puzolánových a alkalicky aktivovaných prímiesí. Analýza prvkového zloženia kameniva a cementových materiálov vrátane rádioaktívnych izotopov sa uskutočnila metódou neutrónovej aktivačnej analýzy (NAA), prompt-gama aktivačnej analýzy (PGAA) a röntgenovej fluorescenčnej analýzy (EDXRF). Receptúra ťažkého betónu bola optimalizovaná na základe hydratačného tepla cementových kompozitov a zloženia rádioaktívnych prvkov. Výsledky mechanických a fyzikálnych vlastností potvrdzujú, že tieto betóny vyhovujú pevnostnej triede C 50/60, a preto ich možno charakterizovať ako vysokopevnostné betóny. Hodnoty objemovej hmotnosti čerstvého a zatvrdnutého betónu podstatne presahujú 3000 kg m^{-3} . Ďalšie úžitkové vlastnosti, ako sú pevnosť v ťahu pri ohybe, statický a dynamický modul pružnosti, pevnosť v tlaku na koncoch trámcoch a zmrašťovanie potvrdzujú, že sa jedná o vysokohodnotné betóny s aplikačným potenciálom v prostredí, ktoré je vystavené rádioaktívnemu žiareniu.

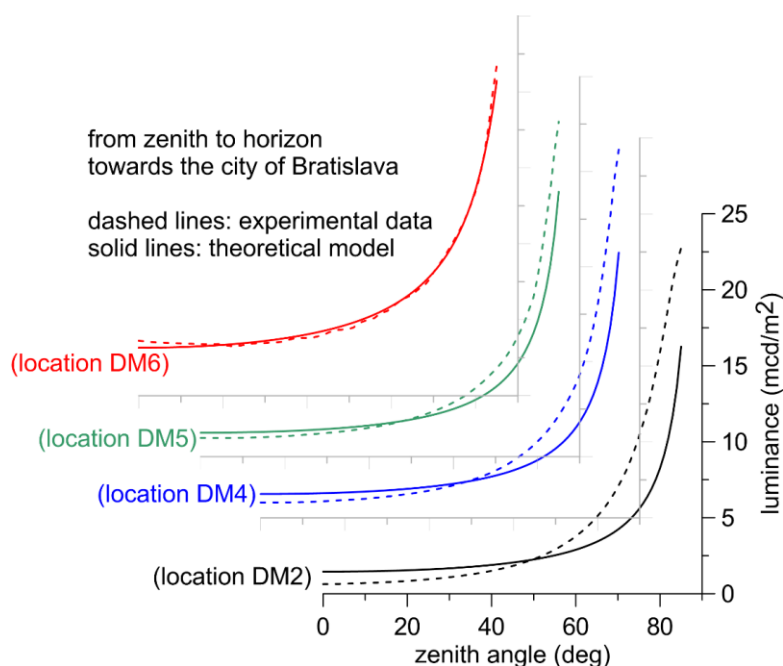
Výstupy:

1. Janette Dragomirov, Martin T. Palou, Katalin Gméling, Veronika Szilágyi, Ildikó Harsányi, László Szentmiklósi. Design of heavyweight concrete used in radiation protection based on complete NAA, PGAA and XRF results; activation and physical properties. Brittle Matrix Composites 12 - Proceedings of the 12th International Symposium on Brittle Matrix Composites, BMC 2019 pp. 195-210
2. DRAGOMIROVÁ, Janette - PALOU, Martin T. Development of High-Compressive Heavyweight Concrete Based on Portland Cement and Supplementary Cementitious Materials. In Materials Science Forum, 2019, vol. 955, p. 44-49. ISSN 0255-5476.(APVV-15-0631 Typ: ADMB

Projekt: UNESCO: SkyMeAPP

Zodpovedný riešiteľ: Miroslav Kocifaj

Projekt SkyMeAPP podporený UNESCO a Museo de la Luz úzko súvisí s iniciatívou International Day of Light. Cieľom tohoto interdisciplinárneho projektu je lepšie identifikovať zdroje svetelného znečistenia a predpovedať potenciálne dôsledky na mestské a mimomestské prostredia. Mexický partner vyvíja platformu a široko-aplikovateľný softvér pre monitorovanie rušivého svetla (viď <http://www.revista.unam.mx/2018v19n3/skymeapp-un-proyecto-de-ciencia-ciudadana>). Skupina na ÚSTARCH SAV vyvíja metódu identifikácie celkovej svetelnej emisie mesta z gradácie jasu nočnej oblohy meranej od zenitu až po pozíciu svetelného zdroja (mesta) na horizonte. Výsledky preukázali zhodu medzi našim riešením a experimentálnymi dátami, pričom odchýlka medzi oboma sa v súlade s našim teoretickým predpokladom znižuje s narastajúcou vzdialenosťou od zdroja svetla (mesta). Experimentálne podmienky vhodné pre získanie svetelnej emisie mesta boli stanovené v práci dole.



Experiment (čiarkované krivky) vs. teoretický model (neprerušované krivky). Jas oblohy ako funkcia zenitového uhla bol získaný na štyroch stanovištiach: DM2-DM6. Rozdiely medzi modelom a experimentom sa v súlade s teoretickým predpokladom znižujú s narastajúcou vzdialenosťou od mesta. Parametre svetelnej emisie mesta boli teda stanovené z dát získaných v DM6.

Výstupy:

KOCIFAJ, Miroslav - WALLNER, Stefan - SOLANO LAMPHAR, H. A. An asymptotic formula for skyglow modelling over a large territory. In Monthly Notices of the Royal Astronomical Society, 2019, vol. 485, iss. 2, p. 2214-2224. (5.231 - IF2018). (2019 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. Typ: ADCA

2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2019/ doplnky z r. 2018
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)	1 / 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)	23 / 1
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNBN)	9 / 3
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	0 / 1
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)	4 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	14 / 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 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. 2018 (zdroj JCR) <i>Počet článkov / doplnky 2017</i>	15 / 0	4 / 0	3 / 1	1 / 1	23 / 2
Podľa SJR z r. 2018 (zdroj Scimago) <i>Počet článkov / doplnky 2017</i>	18 / 0	6 / 1	1 / 1	7 / 2	32 / 4

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2018/ doplnky z r. 2017
Citácie vo WOS (1.1, 2.1)	734 / 11
Citácie v SCOPUS (1.2, 2.2)	74 / 0
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)	18 / 3
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	31
Prednášky a vývesky na domácich vedeckých podujatiach	1

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

M. Kocifaj, A. Kocifajová: Fundamentals of skyglow theory. 1st International Conference on Environmental and Astronomical Light Pollution EALPO 2019. Kraków, September 20th-21st, Poľsko.

V. Sladek: Bending of piezo-electricFGM plates by a mesh-free method, Semi-plenary lecture in The International Conference on Computational & Experimental Engineering and Sciences, March 24-28, 2019, Tokyo, Japan

J. Sladek: Micro/Nano-Sized Piezoelectric Structures Analyzed by Strain Gradient Theory, Semi-plenary lecture in The International Conference on Computational & Experimental Engineering and Sciences, March 24-28, 2019, Tokyo, Japan

V. Sladek: Platre bending problems in higher-gradetheories: Comparison of formulations in Strain-gradient theory and Couple stress theory of elasticity, Keynote lecture in 22-nd International Conference on Composite Structures (ICCS22) and 1-st Chinese Conference on Composite Structures (CCCS1), October 31-November 3, 2019, Wuhan, China

V. Sladek: Mesh-free analysis of plate bending problems by Moving Finite Element approximation, Invited lecture in 42-nd International Conference on Boundary Elements and Other Mesh Reduction Methods (BEM/MRM 42), July 2-4, 2019, Coimbra, Portugal

M.-T. Palou: 2nd JTACC(Journal of Thermal Analysis and Calorimetry) Conference with the V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference

M.-T. Palou: ICBMPT-International Conference Building Materials, Products and Technologies v ČR

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

J. Sládek: Institute for Materials Testing, Materials Science and Strength of Materials, University of Stuttgart: Computational Tools for flexoelectric Problems.

J. Sládek: University of Beihang v Beijing: Micro/nano-sized piezoelectric structures analyzed by strain gradient theories.

M. Palou: Kaunas University of Technology, K. Donelaičio str. LT-44249 Kaunas, Lithuania: Technology and Sciences of Silicate Materials“

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2019

2.7.1. Vynálezy, na ktoré bol v roku 2019 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2019

a) na Slovensku

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 2019

b) udelené v roku 2019

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 2019 a súčet za predošlé roky sa neuádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Kuzielová Eva	VEGA	1
Matiašovský Peter	VEGA	1
Palou Martin T.	VEGA	1
Kriváček Jozef	VEGA	1

2.9. Účast' na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Darula Stanislav	1	0	4	0	2	2	0
Kocifaj Miroslav	0	0	38	0	0	0	0
Kómar Ladislav	0	0	11	0	0	0	0
Kuzielová Eva	0	0	9	0	0	0	0
Palou Martin-Tchingnabé	0	0	42	0	0	0	35
Petržala Jaromír	0	0	2	0	0	0	0
Sátor Ladislav	0	0	1	0	0	0	2
Vladimír Sládek	0	0	11	0	0	0	1
Ján Sládek	0	0	12	0	0	0	0
Spolu	1	0	133	0	2	2	38

2.11. Iné informácie k vedeckej činnosti.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2019

Forma	Počet k 31.12.2019				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2019					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí						ukončenie úspešnou obhajobou		predčasné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	0	1	0	0	0	1	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	0	1	0	0	0	1	0	0	0	0	0	0
Súhrn	1		0		1		0		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2019 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b 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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2019 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 hodnotu
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3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2019 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiace, rok nástupu na DŠ	Mesiace, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
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3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2019 (obhajoba leto 2019)	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.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	

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.

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

Tabuľka 3g 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	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
Stavebníctvo	3659-9-12	Slovenská technická univerzita v Bratislave/Stavebná fakulta
Anorganická technológia a materiály	2802-9-05	Slovenská technická univerzita v Bratislave / Fakulta chemickej a potravinárskej technológie

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných 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 hodnotu alebo vyšší kvalifikačný stupeň
doc. Ing. Stanislav Darula, CSc. (pozemné stavby)	doc. Ing. Stanislav Darula, CSc. (Stavebná fakulta TUKE)	RNDr. Ladislav Kómar, PhD. (IIa)
doc. Ing. Stanislav Darula, CSc. (pozemné stavby)	Ing. Peter Matiašovský, CSc. (Slovenská technická univerzita v Bratislave)	
doc. Ing. Stanislav Darula, CSc. (elektroenergetika)	Ing. Peter Matiašovský, CSc. (Stavebná fakulta STU)	
Ing. Martin Križma, PhD. (inžinierske konštrukcie a dopravné stavby)		
Ing. Martin Križma, PhD. (stavebníctvo)		
Ing. Peter Matiašovský, CSc. (pozemné stavby)		
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. (numerická analýza a vedecko-technické výpočty)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2019

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	1	2	0
Celkový počet hodín v r. 2019	76	2	22	0

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

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	0
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	0
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	0
4.	Počet školených doktorandov (aj pre iné inštitúcie)	0
5.	Počet oponovaných dizertačných a habilitačných prác	3
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	2
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

3.9. Iné dôležité informácie k pedagogickej činnosti

Stanislav Darula bol oponentom dizertačnej práce a členom komisie na obhajobu PhD. prác na zahraničnej univerzite Lodz University of Technology v Poľsku

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2019 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Thermophysics 2019, Smolenice, 22. 10. - 24. 10. 2019

V dňoch 22 – 24. októbra 2019 ústav organizoval v Kongresovom centre SAV v Smoleniciach medzinárodnú konferenciu Thermophysics 2019, 24. zo série tradičných mítingov, ktoré sa konajú od roku 1996. Program konferencie zahŕňal pozvané prednášky, prezentácie a diskusie na vybrané témy. Poslaním konferencie je diskusia o výsledkoch akademického a priemyselného výskumu a výmena neoceniteľných skúseností v oblasti termofyzikálnych vlastností materiálov. V tomto roku hostila 27 účastníkov zo Slovenska, Českej republiky, Poľska, Švédska, Francúzska, Ukrajiny a Japonska.

International Conference on Light Pollution Theory, Modelling and Measurements, 25–28. 6. 2019, Zselic Valley Leisure Farm, Hungary.

Konferencia o svetelnom znečistení bola úspešným pokračovaním série organizovanej ústavom prvýkrát v roku 2013 v Bratislave (Slovensko), potom v roku 2015 v Québecu (Kanada) a neskôr v roku 2017 v Cellers (Španielsko). Hlavným cieľom konferencie v Maďarsku bola analýza meniacej sa úrovne difúzneho svetla nočnej oblohy ako dôsledok celosvetového trendu prechodu na LED technológie. V ďalšom bola pozornosť sústredená na numerické modelovanie, objasnenie vplyvu atmosféry na svetelné znečistenie v mestách a ich okolí, spektrálne vlastnosti svetelných zdrojov a metódy merania. Konkrétne okruhy tém diskutované na konferencii možno zhrnúť do nasledujúcich šiestich bodov: 1) teoretické koncepty a modelovanie svetelného znečistenia, 2) numerické modelovanie a simulácia experimentov, 3) úloha atmosférického aerosólu pri šírení svetelného znečistenia, 4) vplyv spektrálnych charakteristík svetelných zdrojov a odrazivosti povrchov, 5) pozorovacie techniky, dáta, a dátové produkty, a 6) dizajn a hodnotenie rôznych svetelných zdrojov a technológií. Vybrané príspevky budú priebežne publikované v špeciálnych číslach karentovaného časopisu Journal of Quantitative Spectroscopy and Radiative Transfer v rokoch 2019 a 2020 (Guest editors: M. Kocifaj, M. Aubé).

Spoluorganizátori konferencie: ÚSTARCH SAV (Slovensko), Eötvös Loránd University, Savaria University Centre (Maďarsko), Cégep de Sherbrooke (Kanada), FMFI UK (Slovensko)

3rd Workshop Radcon “The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment „RADCON“ - Visegrad Group (V4) - Korean Republic (KR) - 11th -14th March, 2019, Smolenice

Tretí Workshop Radcon “V4-KOREA_RADCON - Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí.

The 2nd SK-KR International Workshop SK-KR-18-0006 „Materiálové zloženie a mechanické vlastnosti ťažkého a samozhutňujúceho sa betónu“ 11.03.219 do 14.03.219, Smolenice

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2020 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

Thermophysics 2020, Smolenice, 8. 9.-10. 9. 2019, (Peter Matiašovský, 02/ 5930 9244, usarmat@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Darula Stanislav	2	0	0
Matiašovský Peter	1	0	1
Kómar Ladislav	0	1	0
Mihálka Peter	0	1	0
Kocifaj Miroslav	1	0	1
Sládek Vladimír	2	0	0
Martin T. Palou	3	0	0
Spolu	9	2	2

4.2. Členstvo a funkcie v medzinárodných orgánoch

Stanislav Darula - SNK CIE – Slovenský národný komitét CIE (Medzinárodná komisia pre osvetľovanie), vedecký tajomník

4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach SR

doc. Ing. Stanislav Darula, CSc.

CIB - International Council for Research and Innovation in Building and Construction (funkcia: W67 - člen)

CIE - Commission Internationale de l' Eclairage (funkcia: Reprezentant SR v CIE Divízii 3)

CIE TC3-39, Discomfort Glare from Daylight in Buildings (funkcia: člen)

IBPSA – the International Building Performance Simulation Associati (funkcia: člen)

TC 3-54: Revision of CIE 16-1970: Daylight (funkcia: člen)

Mgr. Miroslav Kocifaj, PhD.

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)

Ing. Peter Matiašovský, CSc.

CIB - W40 Heat and Moisture Transfer in Buildings (funkcia: člen pracovnej skupiny)

Prof.Dr.Ing. Martin-Tchingnabé Palou

CIB- International Counil for Research and Innovation in Building and Construction (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)

4.3. Účast' expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
-----------------	-----------------------------	-----------------------------

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

Stanislav Darula

Účast' na 4. zasadnutí expertov IEA SHC Task 61 Integrated Solutions for Daylighting and Electric Lighting: From component to user centered system efficiency.

Martin T. Palou

Material and mechanical performance of heavyweight self-compacting concrete (SCC).

Hlavným cieľom projektu je vytvorenie podmienok na spoluprácu medzi výskumnými centrami z ÚSTRACH SAV a CEMG (Computational & Experimental Mechanics Group School) fakulty stavebného a environmentálneho inžinierstva z univerzity Yonsei (Civil & Environmental Engineering Yonsei University, 50 Yonsei-ro, Seodaemun-gu, 03722 Seoul, Korea) pre vývoj samo zhutňujúcich ťažkých betónov a pre prípravu spoločných publikácií. Súčasťou projektu je organizovanie workshopov, vypracovanie a podanie spoločnej žiadosti o finančnú podporu v prípade bilaterálnych alebo medzinárodných výziev. Boli organizované 3 pracovné stretnutia (2 v Kórei a 1 na Slovensku).

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

- Bez dôrazného vývoja v strategickom plánovaní a riadení je ťažké pochopiť ako ústav (v jeho štruktúre) môže byť považovaný za udržateľný.
- Opísaná činnosť ústavu je skôr vedeckým výskumom, než skutočne súvisiacou so stavebníctvom. Musia byť zlepšené procesy identifikujúce línie výskumu, vrátane autoritatívneho vonkajšieho poradenstva.
- Ústav je povzbudený aby sa stal viac hľadiacim navonok, v zmysle jeho väzieb na stavebný priemysel a jeho viditeľnosť pri interakciách s medzinárodnou výskumnou komunitou v relevantných tematických oblastiach.
- Ak je daná jasná stratégia, tá by mala priťahovať viac PhD študentov, ako aj podnecovať súčasných zamestnancov k spolupráci s univerzitami, s cieľom zabezpečiť viac kandidátov na doktorát, prinášajúc viac vitálnosti. Zamestnanci by mali stále hľadať cesty po ktorých by ich výskum mohol viesť mimo produkciu článkov.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

V reakcii na odporúčania z poslednej akreditácie deklarujeme, že Akčný plán ústavu je založený na skutočnosti, že organizácia je pracoviskom základného, nie aplikovaného výskumu:

- Ústav je vedeckým pracoviskom so slobodou bádania s vysokou mierou interdisciplinarítou (zdorazňovanou aj riadiacimi orgánmi SAV) s výskumom zameraným na pokrokové témy, ktoré sú ťažiskové v celosvetovom meradle a dosiahnuté výsledky tak výrazne zvyšujú kredit ústavu a zviditeľňujú jeho postavenie v rámci vedeckých a výskumných pracovísk.
- Ústav je pracovisko základného výskumu so širokým spektrom medzinárodných spoluprác postavených práve na platforme vedeckého bádania. Zapojenie sa do výskumných projektov a publikovanie výsledkov v impaktovaných časopisoch po recenzii medzinárodnými expertami sú všetkými vedeckými autoritami považované za jednoznačne reprezentatívny ukazovateľ kvality realizovaného výskumu a jeho užitočnosti.
- Ústav nemá aktivitami spôsobujúcimi zníženie tohoto kvalitatívneho ukazovateľa záujem o cielené znižovanie dosiahnutého kreditu a nemieni premrhať vynaložené úsilie a kapacity vedeckých tímov, ktoré sú na rozdiel od rezortných a firemných výskumných pracovísk rozpoznateľne na svetovej úrovni. Ústav je svojim založením pracoviskom základného výskumu.

Akčný plán ústavu je nástrojom realizácie strategických cieľov ústavu, ktorými sú:

Nové témy výskumu

- Vývoj pokročilých multiškálových kontinuálnych matematicko-fyzikálnych modelov, potrebných pre popis kompozitov s nanokonštituentmi.
- Vývoj pokročilých anorganických spojív založených na mnohozložkových cementoch obsahujúcich prímеси, geopolymérov a fosfátových keramických spojív.

- Výskum mechanizmu akým kumulatívne svetelné emisie z mnohých zdrojov ovplyvňujú jas nočnej oblohy je celkom novou témou v stavebnej fyzike a urbanizme.
- Inovatívne riešenia tepelnej regulácie povrchových vrstiev netransparentných vonkajších konštrukcií budov.

a zabezpečenia podmienok ich realizácie v dlhodobom časovom horizonte

- *Internacionalizácia - zlepšenie postavenia v európskom výskumnom priestore*
Za účelom zlepšenia postavenia v európskom výskumnom priestore ústav ako koordinátor podal jeden projekt v rámci výzvy Horizont 2020. Po formálnej aj neformálnej stránke ústav aktívne spolupracuje so mnohými zahraničnými pracoviskami. Vedenie ústavu plne podporuje úsilie o publikovanie vedeckých výsledkov v renomovaných zahraničných periodikách a vydavateľstvách s prihliadnutím na impakt faktor daného periodika a zaradenie do kvartilu s najvyšším hodnotením (Q1). Ústav organizoval alebo sa spolupodieľal na organizovaní viacerých medzinárodných konferencií (LPTMM 2019, Thermophysics 2019), pričom v tomto trende bude pokračovať aj v nasledujúcom období (Thermophysics 2020).
- *Rozšírenie možností domácej spolupráce vo výskume*
Podávanie žiadostí o národné projekty je podriadené analýze a optimalizácii aktivít pri podávaní návrhov projektov VEGA, APVV a ďalších (MVTS, MO SR), pričom žiadatelia z ústavu sú v získavaní národných projektov dlhodobo úspešní. Spoluriešiteľmi projektov bývajú aj univerzity.
- *Aplikácie – popularizácia – publicita*
Tvoriví pracovníci ústavu priebežne popularizujú výsledky svojho výskumu formou verejných prednášok, článkov na internete, exkurzií na pracoviskách pre domácich aj zahraničných záujemcov a zapájaním sa do popularizačných aktivít SAV (“Víkend so SAV”). V nasledujúcom období sa plánuje zintenzívnenie popularizácie najmä formou pružnejšej aktualizácie webovej stránky ústavu, aktívneho zapojenia sa do Týždňa vedy a techniky a v neposlednom rade organizovaním verejných seminárov na pôde nášho pracoviska.
- *Vyhodnocovanie kvality výstupov výskumu. Kariérny rast post doktorandov a výskumníkov*
Každoročne sú posudzované kritériá hodnotenia tvorivých pracovníkov, zároveň sa vykonávajú každoročne, prípadne podľa potreby atestačné konania a posudzovanie žiadostí o preradenie vedeckých pracovníkov do vyššieho kvalifikačného stupňa. V posledných dvoch rokoch boli preradení dvaja vedeckí pracovníci do vedeckého kvalifikačného stupňa IIa.
- *Vzdelávanie – doktorandské štúdium*
Pre skvalitnenie doktorandského štúdia bol analyzovaný súčasný stav a využívanie aktuálnych možností. Boli prehodnotené študijné programy a ponúkané témy dizertačných prác, pravidelné hodnotenie doktorandov prebieha v súlade so študijnými plánmi.
- *Nakladanie s duševným vlastníctvom*
Priebežne sa hľadajú efektívne riešenia nakladania s duševným vlastníctvom, osobitne predaja licencií a patentov. Venuje sa pozornosť uplatňovaniu výsledkov výskumu a zariadení v spoločenskej praxi
- *Manažment*
Je naďalej otvorená téma integrácie ústavu s inými technickými ústavmi SAV. Bol znížený podiel pracovníkov so stredoškolským vzdelaním.
- *Infraštruktúra*
Laboratória ústavu boli združené do jedného celku. Prioritou je ich využívanie v rámci vedeckých projektov. Špecializované prístrojové vybavenie je prístupné partnerským organizáciám SAV a univerzitám, ako aj pre využitie v praxi.

Vedenie a vedecká rada ústavu kontrolujú plnenie akčného plánu priebežne a o výsledkoch práce ústavu sú zamestnanci každoročne informovaní na výročných schôdzach ústavu.

5.3. Aktualizácia Akčného plánu organizácie v roku 2019

V rámci Akčného plánu sa ústav sústreďí okrem uvedených bodov aj na nasledovné akcie:

- Aktívne hľadanie ľudských zdrojov, hlavne kvalifikovaných vedeckých pracovníkov doma ale predovšetkým v zahraničí.
- Pravidelná aktualizácia webovej stránky ústavu v slovenskom a anglickom jazyku.
- Vypracovanie kompaktných verzii výročných správ ústavu v anglickom jazyku.
- Hľadanie riešení pre predaj licencií/patentov v réžii ústavu.
- Propagácia ústavu a špičkových pracovníkov na vedeckých sociálnych sieťach.
- Organizovanie verejných ústavných seminárov a zintenzívnenie popularizácie výsledkov.
- Aktualizácia kritérií hodnotenia tvorivých pracovníkov s cieľom ich priblíženia kritériám výkonového financovania vedeckých pracovísk SAV.
- Zmena názvu ústavu.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Catedras CONACYT, Mexiko

Oblasť spolupráce: svetelné znečistenie

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2017

Zhodnotenie: spolupráca na projekte SkyMeAPP

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Oblasť spolupráce: materiálový výskum silikátov

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2014

Zhodnotenie: spoločný projekt, spolupráca v pedagogickej činnosti, konzultácie

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky STU

Oblasť spolupráce: svetelná technika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie: merania na FEI STU, simulácie na USTARCH SAV, príprava publikácie

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK

Oblasť spolupráce: svetlotechnika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2015

Zhodnotenie: spoločný projekt

Názov univerzity/vysokej školy a fakulty: Stavebná fakulta TUKE

Oblasť spolupráce: stavebná fyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2017

Zhodnotenie: riešenie projektu, vedecká výchova; spolupráca podľa harmonogramu.

Názov univerzity/vysokej školy a fakulty: Stavebná fakulta ŽU

Oblasť spolupráce: betónové konštrukcie a mosty, stavebná mechanika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1996

Zhodnotenie: spoločný projekt, posudková činnosť, členstvo v Odborovej komisii TKIS

Názov univerzity/vysokej školy a fakulty: University Cégep de Sherbrooke, Kanada

Oblasť spolupráce: rozptyl svetla

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2015

Zhodnotenie: zintenzívnenie spolupráce

Názov univerzity/vysokej školy a fakulty: University of Vienna, Rakúsko

Oblasť spolupráce: svetelné znečistenie

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2017

Zhodnotenie: experimenty na území Rakúska

Názov univerzity/vysokej školy a fakulty: US Army Research Lab, USA

Oblasť spolupráce: rozptyl žiarenia na nabitých časticach

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie: príprava USAITC projektu

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 univerzity/vysokej školy a fakulty: SvF TU Košice

Druh spolupráce (spoločné pracovisko alebo iné): projekt VEGA-0042-17

Začiatok spolupráce: 1. 1. 2017 – 31. 12. 2019

Zameranie: riešenie vedeckého projektu, vedecká výchova

Zhodnotenie: partnerská organizácia plní úlohy podľa harmonogramu.

Názov projektu: Globálna charakterizácia svetelného znečistenia

Agentúra a číslo projektu: APVV-18-0014

Spolupracujúce inštitúcie: Fakulta matematiky, fyziky a informatiky UK

Koordinátor projektu: Miroslav Kocifaj

Obdobie riešenia: 1.7.2019-30.6.2023

Názov projektu: Optické vlastnosti zalomených svetlovodov za podmienok nehomogénnej oblačnosti s ľubovoľným pokrytím oblohy

Agentúra a číslo projektu: VEGA 2/0016/16

Spolupracujúce inštitúcie: Fakulta matematiky, fyziky a informatiky UK

Koordinátor projektu: Miroslav Kocifaj

Obdobie riešenia: 1.1.2016-31.12.2019

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v praxi

Výsledok výskumu: STN EN 17037 Daylight in buildings (Denné osvetlenie budov),
https://www.sutn.sk/eshop/public/standard_detail.aspx?id=128407

Výsledok sa využíva od 1. 5. 2019

Projekt: APVV 0118-12, VEGA 2/0042/17, výsledok bol vytvorený v rámci medzinárodnej spolupráce CEN TC 169/WG 11 Daylight.

Autori výsledku: Darula S. (SK) a Christoffersen, J. (DK) boli zodpovední za riešenie Annexu D „Exposure to sunlight“.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Zadávatel': Technický a skúšobný ústav stavebný, n. o.

Názov: Vedecké vyhodnotenie vytvorenej pórovej štruktúry a priepustnosti mostových betónov z hľadiska aspektu posúdenia ďalšej životnosti a bezpečnosti mostov

Doba riešenia: 21.01.2019-29.11.2019

Finančný prínos pre organizáciu: 3 000,00 EURO

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

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

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. Peter Matiašovský, CSc.	Pracovná skupina Akreditačnej komisie Vlády SR pre oblasť výskumu 5: Projektovanie, inžinierstvo, technológie a vodné hospodárstvo	člen
Ing. Matúš Žemlička, PhD.	TK č. 5 Betónové konštrukcie / SK č. 2 Výroba, skúšanie betónu a zhotovovanie betónových konštrukcií; Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky	člen TK5/SK2

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

Názov expertízy: Odborno legislatívna pracovná skupina

Adresát expertízy: Ministerstvo dopravy a výstavby SR

Spracoval: doc. Ing. Stanislav Darula, CSc.

Stručný opis: expertízna činnosť k návrhu zákona o územnom plánovaní a zákona o výstavbe

Názov expertízy: TK 108 Svetlo a osvetlenie

Adresát expertízy: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR

Spracoval: doc. Ing. Stanislav Darula, CSc.

Stručný opis: člen komisie, expertízna a normalizačno technická činnosť

Názov expertízy: EN15193 Energetická hospodárnosť budov Modul M9 Energetické požiadavky na osvetlenie. Časť 1: Špecifikácie

Adresát expertízy: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR

Spracoval: doc. Ing. Stanislav Darula, CSc.

Stručný opis: Recenzia prekladu

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
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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. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	5	tlač	0	TV	0
rozhlás	0	internet	4	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	1				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
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9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Darula Stanislav	0	0	1
Spolu	0	0	1

9.5. Členstvo v redakčných radách časopisov

doc. Ing. Stanislav Darula, CSc.

Light and Engineering (funkcia: člen redakčnej rady)

Lighting Research and Technology (funkcia: člen redakčnej rady)

VTs News (funkcia: člen redakčnej rady)

Mgr. Miroslav Kocifaj, PhD.

Journal of Quantitative Spectroscopy & Radiative Transfer (funkcia: Guest Editor)

Prof. Ing. Ján Sládek, DrSc.

CMES-Computer Modeling in Engineering & Sciences (funkcia: editor {Corresponding editor})

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)

Strojnícky časopis (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

Communications in Numerical Analysis (funkcia: člen redakčnej rady)
Int. Jour. Engineering Analysis with Boundary Elements (funkcia: Editor)
Journal of Industrial Mathematics and Computational Mechanics (funkcia: člen redakčnej rady)
Newsletter of the Int. Soc. of Boundary Element Methods (funkcia: člen redakčnej rady)
Series Advances in Boundary Elements (funkcia: člen edičnej rady)

9.6. Činnosť v domácich vedeckých spoločnostiach

doc. Ing. Stanislav Darula, CSc.

CIE TC3-39, Discomfort Glare from Daylight in Buildings (funkcia: člen)
TC 3-54: Revision of CIE 16-1970: Daylight (funkcia: člen)
ZSVTS (funkcia: člen Rady)
IBPSA – the International Building Performance Simulation Associati (funkcia: člen)
SSTS-Slovenská svetelnotechnická spoločnosť (funkcia: člen predsedníctva)
CIE - Commission Internationale de l' Eclairage (funkcia: Reprezentant SR v CIE Divízii 3)
SNK CIE (funkcia: člen predsedníctva, vedecký tajomník)
CIB - International Council for Research and Innovation in Building and Construction
W67 (funkcia: člen)
SSTP - Slovenská spoločnosť pre techniku prostredia (funkcia: člen)

Mgr. Miroslav Kocifaj, PhD.

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

RNDr. Ladislav Kómar, PhD.

SSTS - Slovenská svetelnotechnická spoločnosť (funkcia: člen)

Ing. Martin Križma, PhD.

Slovenský komitét fib (funkcia: člen)

Ing. Peter Matiašovský, CSc.

Slovenská fyzikálna spoločnosť pri SAV (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)

Ing. Ladislav Sátor, PhD.

Slovenská spoločnosť pre mechaniku (funkcia: člen)

Prof. Ing. Ján Sládek, DrSc.

Slovenska spoločnosť pre mechaniku (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

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

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		89712
z toho	knihy a zviazané periodiká	
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	10185
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		2
z toho zahraničné periodiká		2
Ročný prírastok knižničných jednotiek		12
v tom	kúpou	11
	darom	1
	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“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		450
v tom z r. 1	prezenčné výpožičky	30
	absenčné výpožičky	420
v tom z r. 1	odborná literatúra pre dospelých	402
	výpožičky periodík	48
MVS iným knižniciam		5
MVS z iných knižníc		9
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		
Počet vypracovaných rešerší		2

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	40
Návštevníci knižnice spolu (bez návštevníkov podujatí)	82

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	1100

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

Ing. Peter Matiašovský, CSc.

- VK SAV pre elektroniku, materiálový výskum a technológie (člen)

11.4. Členstvo v komisiách SAV

Ing. Peter Matiašovský, CSc.

- Komisia SAV pre rovnosť príležitostí (člen)

Prof. Ing. Ján Sládek, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

11.5. Členstvo v orgánoch VEGA

Mgr. Miroslav Kocifaj, PhD.

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

Ing. Peter Matiašovský, CSc.

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

Prof.Dr.Ing. Martin-Tchingnabé Palou

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

Prof. RNDr. Vladimír Sládek, DrSc.

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

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (RO,PO)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	1 320 136	939 602	262 351	118 183	
z toho: mzdy (610)	804 951	682 213	120 848	1 890	
vedecká výchova štipendiá (640)	9 120	9 120			
poistné a príspevok do poisťovní (620)	251 264	163 616	44 133	43 515	
tovary a služby (630)	218 420	62 409	85 798	70 213	
transfery partnerom projektov (640)	11 572		11 572		
2. Kapitálové výdavky	8 861	8 330		531	
z toho: obstarávanie kapitálových aktív	8 861	8 330		531	
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (RO,PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
1. kapitola SAV (111)	961 114	8 330	682 213	163 616	
z toho: VEGA	32 466				
MVTS výskumné projekty	30 696	8 330		1074	
MVTS podpora					
SASPRO/MOREPRO	7 304				
Vydávanie časopisov					
Vedecká výchova (štipendiá)	9 120				
OTAS (630)					
2. ŠF EÚ vr. fin. zo ŠR					
3. medzinárodné grantové					

projekty					
z toho H2020					
4. iné štátne a verejné zdroje (spolu)	256 336		120 848	44 133	11 572
z toho: APVV	236 050		110 931	38 518	11 572
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	162 890		1 890	43 515	
z toho: príjmy z prenájmu	78 437				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	84 453				

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2019

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

15.2. Medzinárodné ocenenia

Sládek Ján

Cena Alexandra von Humboldta

Oceňovateľ: Nadácia Alexandra von Humboldta, Nemecko

Opis: najvyššie nemecké vyznamenanie za vedu pre vedcov zo zahraničia

16. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

17. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

RNDr. Ladislav Kómar, PhD. e-mail: usarlako@savba.sk tel: +421 2 59 30 9241

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
Ing. Peter Matiašovský, CSc.

.....
Mgr. Miroslav Kocifaj, PhD.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2019

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Mgr. Olha Hrytsyna, DrSc.	100	0.75
2.	Prof. Ing. Ján Sládek, DrSc.	100	1.00
3.	Prof. RNDr. Vladimír Sládek, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	doc. Ing. Stanislav Darula, CSc.	100	1.00
2.	Mgr. Miroslav Kocifaj, PhD.	100	1.00
3.	RNDr. Ladislav Kómar, PhD.	100	1.00
4.	Ing. Martin Križma, PhD.	100	1.00
5.	Ing. Eva Kuzielová, PhD.	100	1.00
6.	Ing. Peter Matiašovský, CSc.	100	1.00
7.	Prof.Dr.Ing. Martin-Tchingnabé Palou	100	1.00
Vedeckí pracovníci			
1.	Ing. Jozef Kriváček, CSc.	20	0.20
2.	Ing. Peter Mihálka, PhD.,	50	0.50
3.	Mgr. Jaromír Petržala, PhD.	100	1.00
4.	Ing. Miroslav Repka, PhD.	100	1.00
5.	Ing. Ladislav Sátor, PhD.	100	1.00
6.	Ing. Matúš Žemlička, PhD.	100	0.70
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Janette Dragomirová	30	0.30
2.	Mgr. Stanislav Fecko	50	0.45
3.	Ing. Marta Malíková	100	1.00
4.	Ing. Marián Vrabec	100	1.00
5.	Mgr. Stefan Wallner	50	0.50
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	RNDr. Anna Kocifajová	100	1.00
2.	Ing. Katarína Mocková	100	0.33
3.	Ing. Mária Považancová	100	1.00

4.	Mgr. Dagmar Práznovská	50	0.50
5.	Ing. Danko Sitarčíková	50	0.50
Odborní pracovníci ÚSV			
1.	Olga Adamcová	100	1.00
2.	Iveta Boříková	100	0.16
3.	Sylvia Bučičová	100	1.00
4.	Martin Habovštiak	100	1.00
5.	Roman Kralovič	100	1.00
6.	Anna Rajnohová	100	1.00
7.	Dagmar Slámová	100	1.00
Ostatní pracovníci			
1.	Jozefa Gajarská	100	1.00
2.	Eva Janotová	100	1.00
3.	Karol Kasák	100	1.00
4.	Rudolf Maninka	100	1.00
5.	Lucia Pinkavová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedeckí pracovníci			
1.	Ing. Jozef Kriváček, CSc.	31.12.2019	0.20
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Marta Malíková	31.12.2019	1.00
Odborní pracovníci ÚSV			
1.	Viera Blahová	30.6.2019	0.50
2.	Zdenko Černý	31.1.2019	0.08
3.	Anna Hrdá	31.1.2019	0.08
4.	Mária Makovicová	5.9.2019	0.67
5.	Alexander Toth	28.2.2019	0.16
Ostatní pracovníci			
1.	Jozefa Gajarská	31.12.2019	1.00
2.	Verona Kovárová	31.3.2019	0.25

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostriedkov SAV			
1.	Ing. Janette Dragomirová	Slovenská technická univerzita v Bratislave	3659-9-12 stavebníctvo
Interní doktorandi hrazení z iných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
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Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	Doc. Ing. Richard Kittler, DrSc.
2.	Ing. Vladimír Živica, DrSc.

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: UNESCO

1.) SkyMe APP (*SkyMeAPP*)

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	8.11.2017 /
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	CENTROMET Consortium, National Council of Science and Technology
Počet spoluriešiteľských inštitúcií:	5 - Španielsko: 1, Mexiko: 2, Slovensko: 2
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 5696 €

Dosiahnuté výsledky:

KOCIFAJ, Miroslav - SOLANO LAMPHAR, H. A. - VIDEEN, Gorden. Night-sky radiometry can revolutionize the characterization of light-pollution sources globally. In Proceedings of the National Academy of Sciences of the United States of America, 2019, vol. 116, no. 16, p. 7712-7717. (9.580 - IF2018). ISSN 0027-8424. Typ: ADCA

Programy: IEA

2.) Integrované riešenia pre denné a umelé osvetlenie (*Integrated Solutions for daylighting and electric lighting*)

Zodpovedný riešiteľ:	Stanislav Darula
Trvanie projektu:	1.1.2018 / 30.6.2021
Evidenčné číslo projektu:	IEA SHC Task 61
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fraunhofer Institute of Building Physics
Počet spoluriešiteľských inštitúcií:	16 - Austrália: 1, Rakúsko: 1, Belgicko: 1, Brazília: 1, Nemecko: 2, Dánsko: 1, Švajčiarsko: 1, Čína: 1, Taliansko: 1, Japonsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Švédsko: 1, USA: 1
Čerpané financie:	0

Dosiahnuté výsledky:

DARULA, Stanislav - SCHNIERER, Branislav - MALÍKOVÁ, Marta. Solar irradiance availability based on Bratislava measurements. In EnviBUILD 2019 - Buildings and Environment International Conference: book of abstracts. - Bratislava : SPEKTRUM STU, 2019, p. 36. ISBN 978-80-227-4959-6

Programy: Multilaterálne - iné

3.) Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom)

ionizovanom prostredí (*The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment*)

Zodpovedný riešiteľ: Martin-Tchingnabé Palou
Zodpovedný riešiteľ v organizácii SAV: Martin-Tchingnabé Palou
Trvanie projektu: 1.10.2017 / 30.9.2020
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Kyoungsoo Park
Počet spoluriešiteľských inštitúcií: 9 - Česko: 2, Maďarsko: 2, Kórejská republika: 3, Poľsko: 2
Čerpané financie: MVTS: 25000 €

Dosiahnuté výsledky:

MVTS - Visegrad Group (V4)-Korea Joint Research Program On Chemistry and Chemical Engineering "The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment „RADCON“

Vysokopevnostné ťažké betóny boli pripravené pomocou dvoch typov kameniva s vysokou objemovou hustotou (baryt- 3845 kg.m⁻³ a magnetit – 4761 kg.m⁻³), portlandského cementu a doplnkových cementových materiálov. Analýza prvkového zloženia agregátov a cementových materiálov vrátane rádioaktívnych izotopov sa uskutočňovala pomocou metód neutrónovej aktivačnej analýzy (NAA), prompt-gama aktivačnej analýzy (PGAA) a röntgenovej fluorescenčnej analýzy (EDXRF). Receptúra špeciálneho betónu bola optimalizovaná na základe hydratačného tepla cementových kompozitov a zloženia rádioaktívnych prvkov. Výsledky mechanických a fyzikálnych vlastností potvrdzujú, že tieto betóny spĺňajú minimálnej požiadavky pevnostnej triedy M60 po 28 dňoch vytvrdzovania, čo ich zaraďuje do triedy betónov s vysokou pevnosťou v tlaku. Hodnoty objemovej hustoty čerstvého a vytvrdnutého betónu ďaleko presahujú 3 000 kg.m⁻³. Ďalšie vlastnosti (pevnosť v ťahu, statický a dynamický modul pružnosti, pevnosť v tlaku pri bočnom tlaku, zmršťovanie atď.) potvrdzujú základné dôkazy o ťažkých vysokohodnotných betónoch s potenciálnou aplikáciou v prostrediach vystavených jadrovým žiarením ako konštrukcie s tieniacim účinkom.

Janette Dragomirov, Martin T. Palou, Katalin Gméling, Veronika Szilágyi, Ildikó Harsányi, László Szentmiklósi. Design of heavyweight concrete used in radiation protection based on complete NAA, PGAA and XRF results; activation and physical properties. Brittle Matrix Composites 12 - Proceedings of the 12th International Symposium on Brittle Matrix Composites, BMC 2019 pp. 195-210

Programy: Iné

4.) Program metropolitných štúdií (*Programa en Estudios Metropolitanos (Metropolitan Studies Programme)*)

Zodpovedný riešiteľ: Miroslav Kocifaj
Trvanie projektu: 1.9.2014 /
Evidenčné číslo projektu: 2723 CONACYT
Organizácia je koordinátorom projektu: nie
Koordinátor: Cátedras CONACYT
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: 0

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

1.) Energetické vplyvy slnečného žiarenia a integrovaných obvodových konštrukcií na kvalitu prostredia v budovách a mestách (*Research of solar energy influences and integrated envelopes on the quality of the environment in buildings and cities*)

Zodpovedný riešiteľ: Stanislav Darula
Trvanie projektu: 1.1.2017 / 1.1.2019
Evidenčné číslo projektu: 2/0042/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 4638 €

Dosiahnuté výsledky:

DARULA, Stanislav. Review of the current state and future development in standardizing natural lighting in interiors. In *Light and Engineering*, 2018, vol. 26, no. 4, p. 5-26. (0.160 - IF2017). ISSN 0236-2945.(APVV 0118-12 : Simulovanie denného svetla v umelej oblohe.

DARULA, Stanislav - MALÍKOVÁ, Marta. Building envelope and energy demand in retrofitting office. In *International Review of Applied Sciences and Engineering*, 2018, vol. 9, no. 2, p. 81-87. (2018 - Scopus). ISSN 2062-0810.

DARULA, Stanislav - MALÍKOVÁ, Marta. Exposure to sunlight requirements in the design of building envelope structures. In *LIGHT 2019 - SVĚTLO 2019 : proceedings of the 23rd international conference*, 22. - 24.10.2019, Plzeň [elektronický zdroj]. - Ostrava : Vysoká škola báňská-Technická univerzita Ostrava, 2019, s. 72-76. ISBN 978-80-248-4354-4.

DARULA, Stanislav - RAKOVSKÝ, Štefan - MALÍKOVÁ, Marta - GOGA, P. Denné osvetlenie a vymedzenie zón so zvýšenou hustotou zástavby v Bratislave. In *Světlo : časopis pro světelnou techniku a osvětlování*, 2019, roč. 22, č. 3, s. 43-47. ISSN 1212-0812

KITTLER, Richard - DARULA, Stanislav. Specific ISO/CIE cloudless winter skies in Australia. In *Architectural Science Review*, 2019, vol. 62, iss. 6, p. 485-492. ISSN 0003-8628

FERENČÍKOVÁ, Maria - DARULA, Stanislav. Daylight availability in interiors during operating time. Saarbrücken: LAP LAMBERT Academic Publishing, 2019. 81 p. ISBN 978-613-9-45969-8

DARULA, Stanislav. Nová európska norma pre denné osvetlenie - zásadné tézy a praktické dôsledky. In *SLOVALUX 2019 : zborník z odborného seminára. Zostavovateľ Dionýz Gašparovský*. - Bratislava : Slovenská svetelnotechnická spoločnosť, 2019, s. 42-49. ISBN 978-80-972865-1-4

DARULA, Stanislav. Osvetlenosť a preslnenie: spisovné termíny. In *SLOVALUX 2019 : zborník z*

odborného seminára. Zostavovateľ Dionýz Gašparovský. - Bratislava : Slovenská svetelnotechnická spoločnosť, 2019, s. 39-41. ISBN 978-80-972865-1-4

2.) Optické vlastnosti zalomených svetlovodov za podmienok nehomogénnej oblačnosti s ľubovoľným pokrytím oblohy (*Effectiveness of bended light guides under arbitrary sky conditions including broken cloud arrays*)

Zodpovedný riešiteľ: Miroslav Kocifaj
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0016/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9276 €

Dosiahnuté výsledky:

KOCIFAJ, Miroslav - WALLNER, Stefan - SOLANO LAMPHAR, H. A. An asymptotic formula for skyglow modelling over a large territory. In Monthly Notices of the Royal Astronomical Society, 2019, vol. 485, iss. 2, p. 2214-2224. (5.231 - IF2018). (2019 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. Typ: ADCA

KOCIFAJ, Miroslav - PETRŽALA, Jaromír. Designing of light-pipe diffuser through its computed optical properties: Anovel solution technique and some consequences. In Solar Energy, 2019, vol. 190, p. 386-395. (4.674 - IF2018). ISSN 0038-092X. Typ: ADCA

KÓMAR, Ladislav - KOCIFAJ, Miroslav. An Accurate Prediction of Daylight Pipe Harvesting of Interior Space. In Applied Sciences-Basel, 2019, vol. 9, iss. 17, art. no. 3552. (2.217 - IF2018). ISSN 2076-3417. Typ: ADCA

3.) Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohוזložkových cementových spojivách (*Study of hydration process and microstructure development in multi-component cementitious binders*)

Zodpovedný riešiteľ: Martin-Tchingnabé Palou
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0097/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9276 €

Dosiahnuté výsledky:

Predkladaná štúdia sa zaoberá vplyvom metakaolínu (MK), kremičitého úletu (SF) a mletej granulovanej vysokopečnej trosky (BFS) na strednú dobu hydratácie portlandského cementu nahradeného 45% hm. doplnkovými cementovými materiálmi (SCM). Zrýchlenie hydratácie cementu kremičitým úletom (SF) a metakaolínom (MK) bolo dokázané až do prvých 12 hodín

izotermickou kalorimetriou, ako aj termogravimetrickou analýzou. Od začiatku spomaľovacieho obdobia, keď SCM prestali pôsobiť ako urýchľovače, bol zrejmejší vplyv zried'ovacieho účinku. Prítomnosť pucolánových reakcií sa však preukázala už po 15 hodinách vytvrdzovania a dokonca aj vtedy, keď sa použili SF a MK v množstve rovnajúcom sa 5% hmotnosti. Synergický účinok použitých SCM umožnil zvýšiť množstvo BFS až na 35% hmotnostných bez významných zmien v ich pozitívnom pôsobení.

4.) Viazané úlohy tepelných a elektromechanických polí v piezoelektrických materiáloch s poréznuou mikroštruktúrou (*Coupled problems of thermal and electromechanical fields in advanced materials with porous microstructure*)

Zodpovedný riešiteľ: Vladimír Sládek
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: VEGA 2/0046/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9276 €

Dosiahnuté výsledky:

1. J. Sladek, V. Sladek, M. Repka, S. Schmauder: Gradient theory for crack problems in quasicrystals, Eur. J. Mech/A Solids 77 (2019), 103813.
2. V. Sladek, J. Sladek, M. Repka: Plate bending problems in higher-grade theories: Comparison of formulations in Strain-gradient theory and Couple-stress theory of elasticity, Proceedings 22nd Int. Conf. on Composite Structures – ICCS22 and 1st Chinese Conference on Composite Structures – CCCS1, 31 Oct-3 Nov, 2019, Wuhan University, China (Eds. A.J.M. Ferreira, H. Hu), pp. 37-38.
3. J. Sladek, V. Sladek, M. Repka, S. Schmauder: Mixed FEM for quantum nanostructures solar cells, Proceedings 22nd Int. Conf. on Composite Structures – ICCS22 and 1st Chinese Conference on Composite Structures – CCCS1, 31 Oct-3 Nov, 2019, Wuhan University, China (Eds. A.J.M. Ferreira, H. Hu), pp. 35-36.
4. J. Sladek, V. Sladek, M. Repka: Path-independent J-integral for cracks in decagonal quasicrystals, In: SPACE 2019 (K. Kotrasova, E. Kormanikova, S. Kmet, Eds.), Tech. Univ. Kosice, ISBN 978-80-553-3413-4; Proc. of the 4th International Scientific Conf. Structural and physical Aspects of Construction Engineering, High Tatras, Slovakia, November 13-15, 2019.

Programy: APVV

5.) Globálna charakterizácia svetelného znečistenia (*Global Characterization of Skyglow*)

Zodpovedný riešiteľ: Miroslav Kocifaj
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0014
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 18419 €

Dosiahnuté výsledky:

KOCIFAJ, Miroslav - SOLANO LAMPHAR, H. A. - VIDEEN, Gorden. Night-sky radiometry can revolutionize the characterization of light-pollution sources globally. In Proceedings of the National Academy of Sciences of the United States of America, 2019, vol. 116, no. 16, p. 7712-7717. (9.580 - IF2018). ISSN 0027-8424. Typ: ADCA

KOCIFAJ, Miroslav - WALLNER, Stefan - SOLANO LAMPHAR, H. A. An asymptotic formula for skyglow modelling over a large territory. In Monthly Notices of the Royal Astronomical Society, 2019, vol. 485, iss. 2, p. 2214-2224. (5.231 - IF2018). (2019 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. Typ: ADCA

KOCIFAJ, Miroslav - BARÁ, Salvador. Two-index model for characterizing site-specific night sky brightness patterns. In Monthly Notices of the Royal Astronomical Society, 2019, vol. 490, iss. 2, p. 1953-1960. (5.231 - IF2018). (2019 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. Typ: ADCA

KOCIFAJ, Miroslav. Ground albedo impacts on higher-order scattering spectral radiances of night sky. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2019, article No. 106670. (2.955 - IF2018). (2019 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN: 0022-4073. Typ: ADCA

WALLNER, Stefan - KOCIFAJ, Miroslav. Impacts of surface albedo variations on the night sky brightness – A numerical and experimental analysis. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2019, article No. 106648. (2.955 - IF2018). (2019 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN: 0022-4073. Typ: ADCA

KOCIFAJ, Miroslav. How night sky brightness changes from ground to satellite level. In LIGHT 2019 - SVĚTLO 2019 : proceedings of the 23rd international conference, 22. - 24.10.2019, Plzeň [elektronický zdroj]. - Ostrava : Vysoká škola báňská-Technická univerzita Ostrava, 2019, s. 59-60. ISBN 978-80-248-4354-4. Typ: AFC

KUNDRACIK, F. - KOCIFAJ, Miroslav. Polarization experiment in Dark Sky Park "Kráľova Studňa". In EALPO 2019. 1st International Conference on Environmental and Astronomical Light Pollution : book of abstracts. - Cracow : Cracow University of Technology, 2019, p. 15. ISBN 978-83-955493-0-4. Typ: AFG

6.) Materiálové zloženie a mechanické vlastnosti ťažkého a samozhutňujúceho sa betónu
(*Material and mechanical performance of heavyweight self compacting concrete (SCC)*)

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou
Trvanie projektu:	1.9.2018 / 31.12.2019
Evidenčné číslo projektu:	SK-KR-18-0006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	5 - Kórejská republika: 5
Čerpané financie:	APVV: 3435 €

Dosiahnuté výsledky:

11.03. do 14.03. 2019: "The 2nd SK-KR International Workshop in SR" s nasledujúcimi prednáškami:

- Self Compacting Mortars- Concept and Results. Martin Palou: Zodpovedný riešiteľ za SR
- Heavyweight Self Compacting Fibre Concrete. Janette Dragomirová: člen riešiteľského kolektívu
- Development of Multicomponent cements using regional Supplementary Cementitious Materials. Matúš Žemlička: člen riešiteľského kolektívu
- Performance of geothermal well cements. Eva Kuzielová-nečlen
- Material and fracture property of self compacted heavyweight (baryte) concrete. Minkwan Ju: Zodpovedný riešiteľ za KR

7.) Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch (*Research on High Performance cementitious Composites under hydrothermal conditions for potential application in deep borewells*)

Zodpovedný riešiteľ: Martin-Tchingnabé Palou
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0631
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 51310 €

Dosiahnuté výsledky:

Kombinovaný vplyv teploty a tlaku pary na hydratačné reakcie troch rôznych typov portlandských cementov sa študoval pomocou laboratórneho autoklávu. Tamponážny portlandský cement triedy G s vysokou síranovou odolnosťou (HSR), Dyckerhoff Portlandský cement a portlandský cement CEM I 42,5 R Extra sa nechali hydratovať v hydrotermálnych podmienkach (165 ° C - 0,5 MPa a 220 ° C - 2,0 MPa) až do 7 dní. Paralelne sa študovali hydratačné reakcie v laboratórnych podmienkach (25 ° C - 0,1 MPa) týchto vzoriek. Simultánne termogravimetrické a diferenčné termické analýzy (TG / DTA) sa väčšinou používali na charakterizovanie priebehu hydratácie v rôznych podmienkach vytvrdzovania. Röntgenová difrakcia, skenovacia elektrónová mikroskopia a ortuťová intrúzna porozimetria boli použité na identifikáciu produktov hydratácie a na charakterizáciu spojeného účinku teploty a tlaku pary na mikroštruktúru a vývoj pórových štruktúr.

Hodnoty mechanických vlastností sa tiež korelovali so pórovou štruktúrou pórov a s výsledkami zo skenovacej elektrónovej mikroskopie. Rôzne režimy hydrotermálneho vytvrdzovania vyústili do postupných a prekrývajúcich sa hydratačných reakcií s produktmi zahrnujúcimi portlandit, ettringit, slabo kryštalický CSH, hydrogarnet, alfa-C2SH, jaffeit, scawtit a reinhardbraunsite. CSH prešiel systematickými zmenami, ktoré sa začali transformáciou gélu C-S-H vytvoreného počas nerovnovážnych fáz alebo za nízkotlakových hydrotermálnych podmienok na alfa-C2SH, jaffeit a reinhardbraunsite so zvyšujúcimi sa hydrotermálnymi teplotami. Postupný prechod amorfných fáz C-S-H na alfa-C2SH, C6S2H3, C7S6C ? a C5S2H spôsobil degradáciu pórovej štruktúry s dôsledkami zvýšenia priepustnosti a pokles mechanických vlastností. Okrem toho boli na DTG krivkách znázornené rôzne teplotné píky od 600 do 1 000 ° C, ktoré označujú tepelný rozklad rôznych druhov uhličitanu vápenatého. Tieto sa pohybujú od nízko po dobre kryštalizovaný CaCO₃.

8.) Multiškálová teória flexoelektricity a nové metódy pre detekciu mikrotrhlín v reálnom čase v dielektrických materiáloch (*A multiscale flexoelectric theory and a new method for real-time detection of microcracks in dielectric materials*)

Zodpovedný riešiteľ: Ján Sládek
Trvanie projektu: 1.10.2018 / 30.9.2021
Evidenčné číslo projektu: SK-CN-RD-18-0005

Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 1 - Čína: 1
Čerpané financie: APVV: 76146 €

Dosiahnuté výsledky:

9.) Optimálny návrh mikro/nano konštrukcii pre metamateriály (*Optimal design of micro/nano structures for metamaterials*)

Zodpovedný riešiteľ: Ján Sládek
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0004
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 35440 €

Dosiahnuté výsledky:

10.) Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov (*Multiphysical problems in functionally graded materials plates*)

Zodpovedný riešiteľ: Vladimír Sládek
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0440
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 39244 €

Dosiahnuté výsledky:

1. M. Repka, V. Sladek, J. Sladek: Numerical study of size effects in micro/nano plates by moving finite elements, *Composite Structures* 212 (2019), 291-303.

<https://www.sciencedirect.com/science/article/pii/S0263822318331234>

2. L. Sator, V. Sladek, J. Sladek: Consistent 2D formulation of thermoelastic bending problems for FGM plates, *Composite Structures* 212 (2019), 412-422.

<https://www.sciencedirect.com/science/article/pii/S0263822318327168>

3. L. Sator, V. Sladek, J. Sladek: Coupling effects in transient analysis of FGM plates bending in non-classical thermoelasticity, *Composites Part B* 165 (2019), 233-246.

<https://www.sciencedirect.com/science/article/pii/S135983681832599X>

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two-dimensional decagonal quasicrystal using meshless local Petrov-Galerkin (MLPG) method, Appl. Math. Modelling 66 (2019), 275-295.
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<https://www.witpress.com/elibrary/wit-transactions-on-engineering-sciences/122/37079>

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http://www.engmech.cz/im/proceedings/show_p/2019/311

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<http://www.memocsevents.eu/iconsom2019/wp-content/uploads/2019/06/ABSTRACT-BOOK-1.pdf>

Programy: Iné projekty

11.) Nežiadúci a cieleň rezonančný útlm mikrovlnných komunikačných liniek (*The mechanisms of targeted resonant attenuation of microwave signals*)

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	1.4.2019 / 30.6.2021
Evidenčné číslo projektu:	SEMOD-74-2/2019
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Ministerstvo obrany: 20286 €

Dosiahnuté výsledky:

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 HRYTSYNA, Olha. Kontynuaľno-termodynamičnyj pidchid do pobudovy gradientnoho typu modeli bagatokomponentnyh vjazkyh ridyn = Continuum-thermodynamic approach to the construction of the gradient-type model of multicomponent viscous liquid. In Matematyčne modeljuvannja nerivnovažnyh procesiv u skladnyh systemach. - Lviv : Rastr-7, 2019, p. 59-81. ISBN 978-617-7726-67-7.

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- ADCA01 BISHAY, P.L. - SLÁDEK, Ján - FABRY, Nicholas - SLÁDEK, Vladimír - ZHANG, Ch. Perturbation finite element solution for chemo-elastic boundary value problems under chemical equilibrium. In Acta Mechanica Sinica, 2019, vol. 35, iss. 5, p. 981-991. (2018: 1.598 - IF, Q3 - JCR, 0.574 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0567-7718.(APVV-14-0216 : Multiškálové modelovanie viazaných polí v kompozitných materiáloch).
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- ADCA03 HRYTSYNA, Olha - MOROZ, Halyna. Some general theorems for local gradient theory of electrothermoelastic dielectrics. In Journal of mechanics of materials and structures, 2019, vol. 14, no. 1, p. 25-41. (2018: 1.239 - IF, Q4 - JCR, 0.572 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1559-3959.(SK-CN-RD-18-0005 : Multiškálová flexoelektrická teória a nova metóda na detekciu mikrotrhlín v dielektrikach v realnom čase).
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- ADCA12 KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - PALOU, Martin T.. Middle stage of Portland cement hydration influenced by different portions of silica fume, metakaolin and ground granulated blast-furnace slag. In Journal of Thermal Analysis and Calorimetry, 2019, vol. 138, iss. 6, p. 4119–4126. (2018: 2.471 - IF, Q2 - JCR, 0.634 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1388-6150.(APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch. VEGA 2/0097/17 : Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohozložkových cementových spojivách).
- ADCA13 PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - TKÁČZ, Jakub - MÁŠILKO, Jiří. Insights into the hydration of Portland cement under hydrothermal curing. In Journal of Thermal Analysis and Calorimetry, 2019, vol. 138, iss. 6, p. 4155–4165. (2018: 2.471 - IF, Q2 - JCR, 0.634 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1388-6150.(APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch. VEGA 2/0097/17 : Štúdium procesov

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- ADCA14 PAUNZEN, Ernst - FLORIAN, Jan - GÜTL-WALLNER, Anna - HERDIN, Andreas - KRALOFSKY, Erwin - LESCHINSKI, Kieran - MACH, Michael - MAITZEN, Hans-Michael - PRIŠEGEN, Michal - ROCKENBAUER, Markus - RODE-PAUNZEN, Monika - WALLNER, Stefan. An analysis of four stellar rings. In *Astronomische Nachrichten*, 2018, vol. 339, p. 672–679. (2017: 1.322 - IF, Q3 - JCR, 0.712 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6337.
- ADCA15 PETRŽALA, Jaromír - KÓMAR, Ladislav. Analytical prediction of tubular light-pipe performance under arbitrary sky conditions. In *Journal of Solar Energy Engineering*, 2019, vol. 141, art. no. 051012-2. (2018: 1.190 - IF, Q3 - JCR, 0.487 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0199-6231.(VEGA 2/0016/16 : Optické vlastnosti zalomených svetlovodov za podmienok nehomogénnej oblačnosti s ľubovoľným pokrytím oblohy).
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- ADCA21 SLÁDEK, Ján - SLÁDEK, Vladimír - REPKA, Miroslav - TAN, C. L. Crack analysis of solids with gradient thermo-piezoelectricity. In *Theoretical and Applied Fracture Mechanics*, 2019, vol. 103, art. no. UNSP 102267. (2018: 2.848 - IF, Q1 - JCR, 0.994 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0167-8442.(SK-CN-RD-18-0005 : Multiškálová flexoelektrická teória a nova metóda na detekciu mikrotrhlín v dielektrikach v realnom čase. VEGA 1/0145/17).

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- ADCA23 WALLNER, Stefan - KOCIFAJ, Miroslav. Impacts of surface albedo variations on the night sky brightness - A numerical and experimental analysis. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2019, vol. 239, art. no. 106648. (2018: 2.955 - IF, Q1 - JCR, 0.862 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0022-4073.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia).

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

- ADCB01 KITTLER, Richard - DARULA, Stanislav. Specific ISO/CIE cloudless winter skies in Australia. In Architectural Science Review, 2019, vol. 62, iss. 6, p. 485-492. (2018: 0.433 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0003-8628.(APVV 0118-12 : Simulovanie denného svetla v umelej oblohe. VEGA 02/0042/17).

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 SLÁDEK, Ján - SLÁDEK, Vladimír - REPKA, Miroslav - HRCEK, S. THE MIXED FEM FOR ANALYSIS OF QUANTUM-DOT SYSTEMS BASED ON GRADIENT THEORY. In Computer Methods in Material Science, 2018, vol. 18, no. 2, p. 81-89. (2017: 0.140 - SJR, Q4 - SJR). ISSN 1641-8581.(SK-CN-RD-18-0005 : Multiškálová flexoelektrická teória a nova metóda na detekciu mikrotrhlín v dielektrikách v realnom čase).

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- ADMA01 DARULA, Stanislav. Review of the current state and future development in standardizing natural lighting in interiors. In Light and Engineering, 2018, vol. 26, no. 4, p. 5-26. (2017: 0.160 - IF, Q4 - JCR, 0.195 - SJR, Q3 - SJR). ISSN 0236-2945.(APVV 0118-12 : Simulovanie denného svetla v umelej oblohe. VEGA 2/0042/17).
- ADMA02 WÜNSCHE, Michael - SLÁDEK, Ján - SLÁDEK, Vladimír - ZHANG, C. - REPKA, Miroslav. Dynamic Wave Propagation in Fiber Reinforced Piezoelectric Composites with Cracks. In International Journal of Computational Methods, 2019, vol. 16, iss. 6, art. no. 1840021. (2018: 1.221 - IF, Q3 - JCR, 0.487 - SJR, Q1 - SJR). ISSN 0219-8762.(SASPRO 0106/01/01 : Multiškálové modelovanie vrstevnatých, vláknami vystužených a poréznych magnetoelektrických materiálov).

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- ADMB01 DARULA, Stanislav - MALÍKOVÁ, Marta. Building envelope and energy demand in retrofitting office. In International Review of Applied Sciences and Engineering, 2018, vol. 9, no. 2, p. 81-87. (2018 - Scopus). ISSN 2062-0810.(VEGA 2/0042/17).

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- ADMB03 DRAGOMIROVÁ, Janette - PALOU, Martin T. - GMÉLING, Katalin - SZILÁGYI, Veronika - HARSÁNYI, Ildikó - SZENTMIKLÓSI, László. Design of heavyweight concrete used in radiation protection based on complete NAA, PGAA and XRF results; activation and physical properties. In Brittle Matrix Composites 12 : Proceedings of the Twelfth International Symposium on Brittle Matrix Composites. - Warsaw : Institute of Fundamental Technological Research, 2019, p. 195-210. ISBN 978-83-65550-20-0.(V4-KOREA_RADCON : Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí. Brittle matrix composites).
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- ADMB05 MATIAŠOVSKÝ, Peter - MIHÁLKA, Peter. Capillary Moisture Content - Parameter of Water Suction and Drying. In AIP Conference Proceedings, 2019, vol. 2170, art. no. 020011. (2018: 0.182 - SJR). ISSN 0094-243X.(APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch).
- ADMB06 SÁTOR, Ladislav - SLÁDEK, Vladimír - SLÁDEK, Ján. Vibration of thin elastic FGM plates with multi-gradation effects. In Vibroengineering Procedia, 2019, vol. 23, p. 24-29. ISSN 2345-0533.(APVV-14-0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov).
- ADMB07 SLÁDEK, Ján - SLÁDEK, Vladimír - JUS, M. The MLPG for Modeling of Flexoelectricity. In AIP Conference Proceedings, 2019, vol. 2116, art. no. 450005. (2018: 0.182 - SJR). ISSN 0094-243X.
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- ADMB10 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.

AFC Publikované príspevky na zahraničných vedeckých konferenciách

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BAA Odborné knižné publikácie vydané v zahraničných vydavateľstvách

- BAA01 DARULA, Stanislav - KITTLER, Richard - KOCIFAJ, Miroslav - PLCH, Jiří - MOHELNÍKOVÁ, Jitka - VAJKAY, František. *Osvětlování světlovody*. Praha : Grada, 2009. 160 s. ISBN 978-80-247-2459-1.

Citácie:

1. [1.1] NEKVAPIL, J. - SKODA, J. - MOTYCKA, M. - STEPANEK, J. - KRBAL, M. *Simulation of Skylight in TracePro and Comparison with Laboratory Measurement. In PROCEEDINGS OF THE 2018 19TH INTERNATIONAL SCIENTIFIC CONFERENCE ON ELECTRIC POWER ENGINEERING (EPE). ISSN 2376-5623, 2018., Registrované v: WOS*

- BAA02 DULLA, Matúš - BUJNA, Tomáš - DROPOVÁ, Zoja - JAMNICKÝ, Ivan - KLIMEKOVÁ, Alexandra - KRAMÁRIKOVÁ, Janka - KRCHO, Ján - KRPELÁN, Igor - KUBIČKOVÁ, Klára - LABUDOVÁ, Zuzana - MELLNER, Dušan - MINAROVIECH, Jana - MOLNÁR, Martin - MORAVČÍKOVÁ, Henrieta - MRŇA, Ľubomír - POHANIČOVÁ, Jana - PRIATKOVÁ, Adriana - SEMANČÍK, Maroš - ŠLAPETA, Vladimír. *Slávne vily Slovenska*. Editor Matúš Dulla. Foibos Books SK : Foibos Books, 2010. 282 s. ISBN 978-80-87073-26-1.

Citácie:

1. [1.1] KVASNICOVA, M. *Quality architecture and reasonable function - sine qua non of successful restoration. In ARCHITEKTURA V PERSPEKTIVE 2017, 2017, p. 226-229., Registrované v: WOS*

BAB Odborné knižné publikácie vydané v domácich vydavateľstvách

- BAB01 KITTLER, Richard - KITTLEROVÁ, L. *Návrh a hodnotenie denného osvetlenia*. Bratislava : ALFA, 1975. 243 s. Edícia stavebníckej literatúry.

Citácie:

1. [1.1] DARULA, S. *Review of the current state and future development in standardizing natural lighting in interiors. In LIGHT & ENGINEERING. ISSN 0236-2945, 2018, vol. 26, no. 4, p. 5-26., Registrované v: WOS*

- BAB02 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.

Citácie:

1. [1.1] LI, D. H. W. - LOU, S. W. *Review of solar irradiance and daylight illuminance modeling and sky classification. In RENEWABLE ENERGY. ISSN 0960-1481, 2018, vol. 126, p. 445-453., Registrované v: WOS*

BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

- BEE01 DARULA, Stanislav - OBERMAN, Peter. *Jas okna v noci*. In *Kurz osvětlovací techniky XXVII.* - Ostrava : VŠB-Technická univerzita Ostrava, 2009, p. 24-29. ISBN 978-80-248-2087-3. (Kurz osvětlovací techniky).

Citácie:

1. [3.1] BEČÁK, P. – WLOSOKOVÁ, J. – NOVÁK, T. – SOKANSKÝ, K. *Vyzařování*

světelného toku do horního poloprostoru z reálného modelu části města. In KURZ OSVĚTLOVACÍ TECHNIKY XXXIV: sborník recenzovaných příspěvků, Loučná nad Desnou, 8.-10. října 2018. Ostrava: Vysoká škola báňská – TU Ostrava, 2018, s. 123-131. ISBN 978-80-248-4221-9.

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

FAI01 Dušan Jurkovič : Súborná výstava architektonického diela. Zostavovatelia katalógu Dana Bořutová, Anna Zajková, Matúš Dulla. Bratislava : SAS, 1993. 245 s. ISBN 80-900483-5-8.

Citácie:

1. [4.1] ZVAROVÁ, Z. Údolná stanica visutej lanovej dráhy v Tatranskej Lomnici. In Pamiatky a múzeá, 2018, roč. 67, č. 2, s. 17.

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. Ing. Stanislav Darula, CSc.

Názov semestr. predmetu: Building Physics - Daylighting

Počet hodín za semester: 12

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra konštrukcií pozemných stavieb

Ing. Peter Matiašovský, CSc.

Názov semestr. predmetu: Metodológia vedeckého experimentu

Počet hodín za semester: 4

Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra konštrukcií pozemných stavieb

Prof.Dr.Ing. Martin-Tchingnabé Palou

Názov semestr. predmetu: Priemyselná anorganická chémia

Počet hodín za semester: 24

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav anorganickej chémie, technológie a materiálov

Prof.Dr.Ing. Martin-Tchingnabé Palou

Názov semestr. predmetu: Špeciálna Technológia anorganických materiálov

Počet hodín za semester: 36

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav anorganickej chémie, technológie a materiálov

Semestrálne cvičenia:

Ing. Peter Matiašovský, CSc.

Názov semestr. predmetu: Metodológia vedeckého experimentu

Počet hodín za semester: 20

Názov katedry a vysokej školy: Stavebná fakulta STU, Katedra konštrukcií pozemných stavieb

Semináre:

doc. Ing. Stanislav Darula, CSc.

Názov semestr. predmetu: Building Physics - Thermal performance of buildings

Počet hodín za semester: 2

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra konštrukcií pozemných stavieb

Terénne cvičenia:

Individuálne prednášky:

doc. Ing. Stanislav Darula, CSc.

Názov semestr. predmetu: Osvětlovací technika

Počet hodín za semester: 2

Názov katedry a vysokej školy: Brno University of Technology, Česko, FEKT

Príloha E**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
Holandsko					Darula	3
Poľsko					Darula	9
ČR					Darula	4
Počet vyslaní spolu						16

(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
USA					Mark Bomberg	1
ČR					Žák	1
ČR					Vrbík	1
ČR					Boreš	1
Malajzia					Lau	1
Mexiko					Lamphar	60
Počet prijatí spolu						65

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Maďarsko	LPTMM 2019	Jaromír Petržala	4
	LPTMM 2019	Ladislav Kómar	4
	LPTMM 2019	Miroslav Kocifaj	4
	2 nd JTACC	Martin T. Palou	4
	2 nd JTACC	Eva Kuzielová	4
	2 nd JTACC	Matúš Žemlička	4
	2 nd JTACC	Janette Dragomirová	4
Česká republika	Světlo 2019	Jaromír Petržala	3
	Světlo 2019	Stanislav Darula	3
	Světlo 2019	Miroslav Kocifaj	3
	ENGINEERING MECHANICS 2019	Miroslav Repka	4
	Kvalita cementu 2019	Martin T. Palou	2
	ICBMPT 2019	Martin T. Palou	2
	INFO DNY MSC, Software 2019	Jozef Kriváček	2
	ICCC 2019	Martin T. Palou	3
	ICCC 2019	Eva Kuzielová	5
	ICCC 2019	Matúš Žemlička	5

	Vápenický seminár 2019	Martin T. Palou	2
	CESBP 2019	Peter Matiašovský	3
Poľsko	EALPO 2019	Miroslav Kocifaj	3
	EALPO 2019	Anna Kocifajová	3
	ISBMC	Martin T. Palou	2
	ISBMC	Janette Dragomirová	2
	Workshop RADCON	Martin T. Palou	2
Portugalsko	MECHCOMP 2019	Ladislav Sátor	7
	BEM/MRM 42	Vladimír Sládek	4
Taliansko	ICoNSoM	Vladimír Sládek	6
	CEEC-TAC5 Medicta 2019	Eva Kuzielová	4
Čína	ICCS 22	Vladimír Sládek	6
	ICCS 22	Ján Sládek	6
	Flexoelectricity	Ján Sládek	10
Japonsko	ICCES 2019	Vladimír Sládek	5
	ICCES 2019	Ján Sládek	5
Grécko	FDM 2019	Ján Sládek	6
Kórejská republika	The 2nd SK-KR International Workshop	Martin T. Palou	10
	The 2nd SK-KR International Workshop	Janette Dragomirová	10
Spolu			156

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

Skratky použité v tabuľke C:

MECHCOMP 2019 - 5th International Conference on Mechanics of Composites 2019
 BEM/MRM 42 – 42nd International Conference on Boundary Elements and other Mesh Reduction Methods
 ICoNSoM – International Conference on Nonlinear Solid Mechanics
 ICCS 22 - International Conference on Composite Structures 2019
 ICCES 2019 – International Conference on Computational & Experimental Engineering and Sciences
 ENGINEERING MECHANICS 2019-25th International Conference on Engineering Mechanics
 FDM-2019, 18th Int. Conference on Fracture and Damage Mechanics
 Flexoelectricity - 1st International Symposium on Flexoelectricity Xian
 LPTMM 2019 – Light Pollution – Theory, Modelling and Measurement
 EALPO 2019 - 1st International Conference on Environmental and Astronomical Light Pollution
 2nd JTACC - Journal of Thermal Analysis and Calorimetry
 ICBMPT 2019 - International Conference Building Materials, Products and Technologies
 ICC 2019 - 15th International Congress on the Chemistry of Cement
 ISBMC - International Symposium Brittle Matrix Composites
 CESBP - Central European Symposium on Building Physics

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Stanislav Darula		PB	Denné osvetlenie v kontexte európskej štandardizácie	SKGBC Green Business Breakfast (GBB) – Zdravé budovy I. (akustika – svetlo – teplo), Bratislava	2.10.2019
Stanislav Darula		IN	Nová európska norma pre denné osvetlenie v budovách	https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=8326	28.6.2019
Stanislav Darula		PB	Príbeh tvorby európskej normy EN 17037	Česká komora autorizovaných inžierov a techniků činných ve výstavbě, Praha	29.10.2019
Stanislav Darula		EX	Slovalux 2019	ÚSTARCH SAV	22.11.2019
Miroslav Kocifaj		IN	Light Pollution : Theory, Modelling, and Measurements (2019)	https://www.journals.elsevier.com/journal-of-quantitative-spectroscopy-and-radiative-transfer/call-for-papers/light-pollution-theory-modelling-and-meas	2019
Miroslav Kocifaj		IN	V PNAS uverejnili revolučnú metódu charakterizovania svetelného znečistenia	https://www.sav.sk/?lang=sk&charset=&doc=services-news&source_no=20&news_no=8166	2.4.2019
Ladislav Kómar		PB	Light pollution quantification possibilities from acquired atmospheric aerosol parameters	Ministerstvo životního prostředí ČR, Praha	17.1.2019
Ladislav Kómar		PB	Svetelné znečistenie - vypočítame, zmeriame, uvidíme.	Materiálovotechnologická fakulta STU, Trnava	7.11.2019
Ladislav Kómar		PB	Svetelné znečistenie – problém, ktorý sa dá vypočítať	SOLAR - Hvezdáreň Senec	15.5.2019
Ladislav Kómar	Janette Dragomirová, Ladislav Sátor, Miroslav Repka	iné	Víkend so SAV	Primaciálne námestie, Bratislava	21-22.6.2019

Matúš Žemlička		IN	Tvorba a editovanie stránok projektu APVV-15-0631	www.geomat.sav.sk	2019
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¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film