

Ústav stavebníctva a architektúry SAV



**Správa o činnosti organizácie SAV
za rok 2018**

Bratislava
január 2019

Obsah osnovy Správy o činnosti organizácie SAV za rok 2018

1. Základné údaje o organizácii
2. Vedecká činnosť
3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku
4. Medzinárodná vedecká spolupráca
5. Vedná politika
6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky
7. Spolupráca s aplikačnou a hospodárskou sférou
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie
9. Vedecko-organizačné a popularizačné aktivity
10. Činnosť knižnično-informačného pracoviska
11. Aktivity v orgánoch SAV
12. Hospodárenie organizácie
13. Nadácie a fondy pri organizácii SAV
14. Iné významné činnosti organizácie SAV
15. Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
17. Problémy a podnety pre činnosť SAV

PRÍLOHY

- A Zoznam zamestnancov a doktorandov organizácie k 31.12.2018*
- B Projekty riešené v organizácii*
- C Publikáčná činnosť organizácie*
- D Údaje o pedagogickej činnosti organizácie*
- E Medzinárodná mobilita organizácie*
- F Vedecko-popularizačná činnosť pracovníkov organizácie SAV*

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.

Adresa: Dúbravská cesta 9, 845 03 Bratislava 45

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Názvy a adresy detašovaných pracovísk: nie sú

Vedúci detašovaných pracovísk: nie sú

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
		M	Ž	M	Ž			
Celkový počet zamestnancov	43	25	18	5	1	42	39.52	22.14
Vedeckí pracovníci	17	16	1	3	0	17	16.16	15.76
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	5	3	2	2	1	4	4	3
Odborní pracovníci VŠ (ostatní zamestnanci ²)	4	0	4	0	0	4	2.74	0
Odborní pracovníci ÚS	12	4	8	0	0	12	11.62	3.38
Ostatní pracovníci	5	2	3	0	0	5	5	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5

² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2018 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2018 (bez riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2018)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	2	12	3	1	2	7	7
Ženy	0	1	0	0	0	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
Muži	1	3	3	1	1	1	2	5	2
Ženy	1	0	1	0	1	1	0	1	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2018

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	A	B	A	B	A	B
Muži	50.7	51.4	50.3	49.7	49.7	49.8
Ženy	54.1	55.6	39.0	39.0	45.2	48.3
Spolu	52.1	53.2	49.6	49.0	48.8	49.5

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

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

V roku 2018 bola zmenená organizačná štruktúra organizácie. Sedem útvarov vedeckovýskumného úseku bolo transformovaných do troch vedeckých oddelení: Oddelenia mechaniky, Oddelenia stavebných materiálov a konštrukcií a Oddelenia stavebnej fyziky. Štyria pracovníci z oddelenia Architektúry boli delimitovaní na Historický ústav SAV.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2018

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	7	1	22528	11439	21062	21062	801	-
2. Projekty APVV	6	0	-	-	286067	249061	-	-
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	0	0	30232	30232	20154	20154	-	-
5. Projekty centier excelentnosti SAV	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	1	0	-	-	-	-	900	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2018

Štruktúra projektov	Miesto podania	Organizácia nositeľom projektu	je Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2018	ÚSTARCH Bratislava	3	
2. Projekty výziev OP ŠF podané r. 2018	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2018

Tabuľka 2c Medzinárodné projekty riešené v roku 2018

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	2	-	-	-	-	-	37304
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	1	0	16380	16380	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTs z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
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 2018

Tabuľka 2d Počet projektov Horizont 2020 v roku 2018

	A	B
Počet podaných projektov Horizont 2020		

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

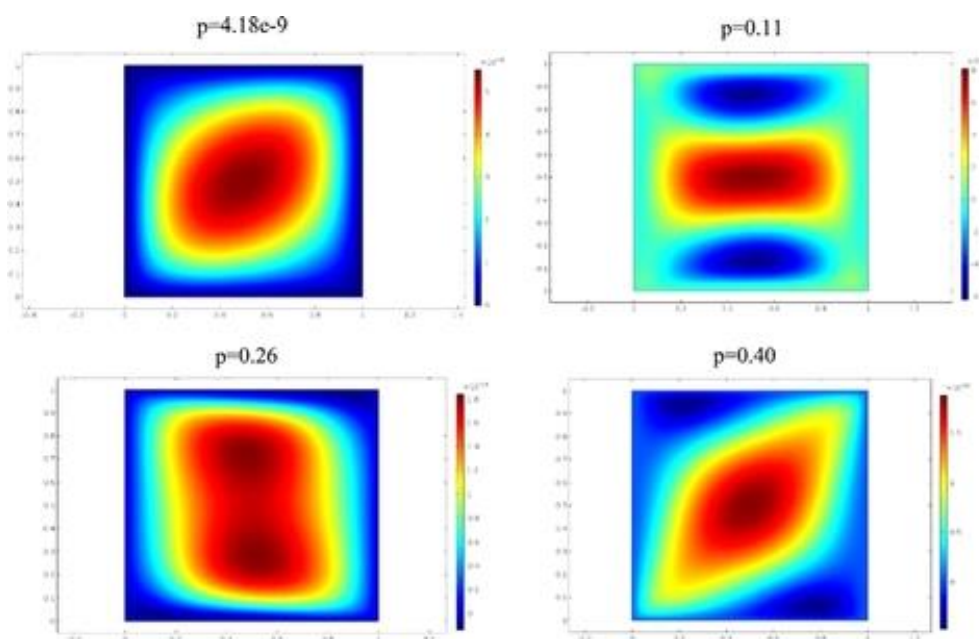
2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

2.3.1. Základný výskum

Formulácia a numerické simulácie úloh pre ohyb dosiek so zahrnutím mikro-štrukturálnych aspektov (APVV -14-0440).

Mená riešiteľov: J. Sládek, V. Sládek, M. Repka, L. Sátor

V ostatnom čase sú v mikro- a nano-elektromechanických systémoch často využívané konštrukčné prvky ako napr. nosníky, dosky a škrupiny malých rozmerov. Klasické teórie kontinua (vrátane elasticity) boli pôvodne vyvinuté na popis fyzikálnych javov a procesov, ktoré môžeme zachytiť voľným okom, t. j. približne v rozsahu od milimetrov po metre. Nedávne experimentálne pozorovania odhalili, že klasické teórie kontinua nepostačujú na presný popis deformačných javov v režime mikro- a nano-škálových rozmerov. Vznikla potreba obohatiť modely kontinua nejakými charakteristikami mikroštruktúry, napr. vytvorením koncepcie funkcionálnej gradácie materiálových koeficientov kontinuálneho média, kontinuálnych teórií vyšších rádov (obohatenie počtu primárnych polí), kontinuálne teórie s vyššími gradientmi primárnych polí a pod. Kombináciou predpokladov klasických teórií ohybu dosiek a obohatených modelov kontinua, sme vypracovali jednotnú formuláciu ohybu dosiek, vedúcu v numerických simuláciách k existencii efektov pozorovaných v mikro-štrukturálnych [1] ako aj mikro-kompozitných [2, 3] doskách.



Obr. Ilustrácia efektu previazanosti poli v doskách s mikropórmami. Posuny v rovine priečne zaťažených dosiek so 4 rôznymi hodnotami pórovitosti.

Výstupy:

[1] REPKA, Miroslav - SLÁDEK, Vladimír - SLÁDEK, Ján. Gradient elasticity theory enrichment of plate bending theories. In Composite Structures, 2018, vol. 202, p. 447–457. (4.101 - IF2017). (2018 - Current Contents). ISSN 0263-8223.(APVV-14-0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov).

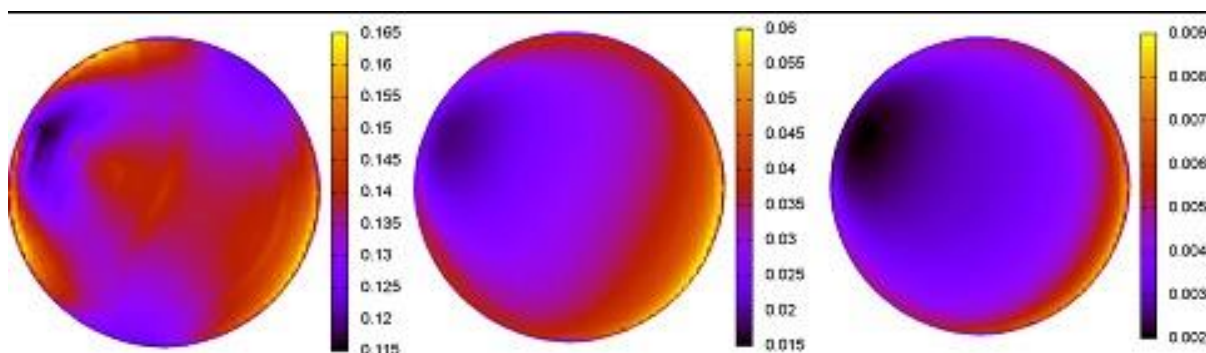
[2] REPKA, Miroslav - SLÁDEK, Vladimír - SLÁDEK, Ján. Bending of elastic plates with micro-voids. In Composite Structures, 2018, vol. 202, p. 1155–1163. (4.101 - IF2017). (2018 - Current Contents). ISSN 0263-8223.(APVV-14-0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov).

[3] SÁTOR, Ladislav - SLÁDEK, Vladimír - SLÁDEK, Ján. Bending of FGM plates under thermal load: Classical thermoelasticity. In Composites Part B: Engineering, 2018, vol. 146, p. 176-188. (4.920 - IF2017). (2018 - Current Contents). ISSN 1359-8368.(APVV-14-0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov).

Viacnásobný rozptyl svetla v podmienkach nočnej atmosféry: model zahrňujúci všetky rády rozptylu (APVV-14-0017, VEGA 2/0016/16)

Mená riešiteľov: Miroslav Kocifaj

Nedávne merania ukázali, že amplitúda a priestorová redistribúcia svetelného znečistenia sa líšia od predpovedí založených na doterajších teóriách. To vyvoláva obavy ohľadne aplikovateľnosti súčasných modelov v reálnych podmienkach, pričom nejasnú úlohu tu zohráva aj mechanizmus viacnásobného rozptylu, ktorý deformuje pole rozptýleného žiarenia a komplikuje interpretáciu experimentálnych dát. Vôbec po prvý krát sme prišli s kompletným teoretickým riešením zahrňujúcim všetky rády rozptylu svetla v podmienkach nočnej atmosféry a ukázali, že vyššie módy ovplyvňujú žiaru oblohy len na veľkých vzdialenostiach od zdroja (mesta) a len v protihľom kvadrante oblohy voči azimutálnej pozícii mesta. Vzhľadom k vysokej hustote osídlenia v mnohých častiach sveta je výskyt izolovaných miest veľmi zriedkavý a preto považujeme prvý rád rozptylu za dostatočne presné priblíženie. To otvára priestor pre efektívne metódy predpovedí svetelného znečistenia v ktorejkoľvek lokalite.



Obr Vypočítaná žiara nočnej oblohy v modrej časti spektra pre rozptyl vyšších rádo vzhľadom k prvému rádu rozptylu v podmienkach nočnej atmosféry ožiarenej pozemnými zdrojmi svetla. Z ľava do prava: i_2/i_1 , i_3/i_1 , a i_4/i_1 , kde i_1 , i_2 , i_3 a i_4 sú spektrálne žiary nočnej oblohy v aproximácii rozptylu prvého, druhého, tretieho a štvrtého rádu.

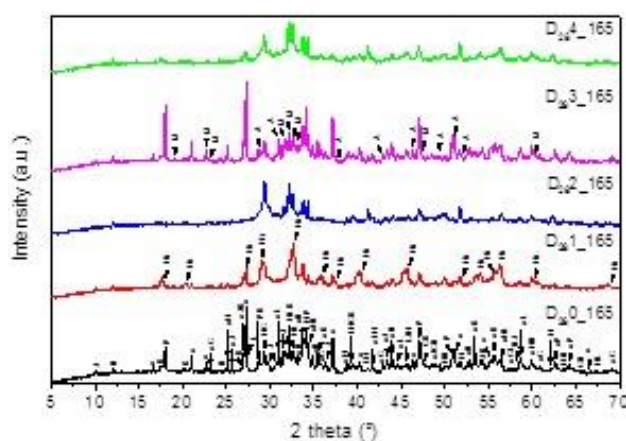
Výstupy:

KOCIFAJ, Miroslav. Multiple scattering contribution to the diffuse light of a night sky: A model which embraces all orders of scattering. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 206, p. 260-272. (2.600 - IF2017). (2018 - Current Contents). ISSN 0022-4073.(APVV-14-0017 : Zovšeobecnený model jasu/žiary nočnej oblohy a jeho aplikácia pri získavaní emisnej funkcie miest. VEGA 2/0016/16 : Optické vlastnosti zalomených svetlovodov za podmienok nehomogénnej oblačnosti s ľubovoľným pokrytím oblohy).

Vývoj fázového zloženia zmesových cementov triedy G za hydrotermálnych podmienok (APVV-15-0631).

Mená riešiteľov: M. Tchingnabé Palou, E. Kuzielová, M. Žemlička

Vzhľadom na tlak spoločnosti obmedziť získavanie energie z tradičných zdrojov a nahradiť ho tzv. zelenou energiou, priťahuje geotermálna energia rastúcu pozornosť. Jej efektívne získavanie závisí od spoľahlivého fungovania geotermálnych vrtov, v ktorých cementovanie zohráva kľúčovú úlohu. V dôsledku podmienok, ktorým je cementovanie vo vrtoch vystavené, sa však jeho integrita často už po relatívne krátkom používaní zhoršuje, čo si vyžaduje finančne a časovo náročné opravy. Príčinou degradácie sú transformácie primárnych hydratačných produktov na kryštalické a oveľa hutnejšie α -C₂SH a jaffeite (J). Nežiadúcim premenám možno efektívne zabrániť znížením pomeru CaO k SiO₂, resp. tvorbou termicky stabilnejších C-A-S-H fáz. Na základe týchto poznatkov bol Dyckerhoff cement čiastočne substituovaný (15 hm.%) kremičitým úletom (SF), metakaolínom a granulovanou vysokopecnou troskou. Zistilo sa, že množstvo J sa s dĺžkou autoklárovania pri 165 °C a 0,6 MPa výrazne nemení, prebiehajúce negatívne zmeny preto závisia predovšetkým od rastúceho množstva α -C₂SH. Žiadna z nežiadúcich fáz nebola identifikovaná v zložení s SF, ktoré sa ukázalo ako najvhodnejšie pre použitie za daných hydrotermálnych podmienok.



Obr. RTG záznamy vzoriek po autoklárovaní pri 0,6 MPa a 165 °C po dobu 28 dní.

Výstupy:

KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - MÁSILKO, Jiří - PALOU, Martin T.. Effect of additives on the performance of Dyckerhoff cement, Class G, submitted to simulated hydrothermal curing. In Journal of Thermal Analysis and Calorimetry, 2018, vol. 133, no. 1, p. 63-76. (2.209 - IF2017). (2018 - 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).

PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - ŽIVICA, Vladimír - TKACZ, Jakub. Vývoj cementových kompozitov pre využitie v náročných podmienkach hĺbkových geotermálnych a ropných vrtoch = Development of cementitious materials for application under severe conditions in oil and geothermal wells. In Cement 2018 : zborník prednášok z konferencie inovatívne technológie a trendy vo výrobe stavebných látok - innovative technologies and trends in the production of building materials. - Trenčín : CEMDESIGN, 2018, s. 15-27. ISBN 978-80-973167-0-9.(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. Cement 2018 : inovatívne technológie a trendy vo výrobe stavebných látok - innovative technologies and trends in the production of building materials).

PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - TKÁČZ, Jakub - MÁŠILKO, Jiří. Insights the hydration of portland cement under hydrothermal curing. In CCTA13 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis : abstracts. - Lublin : UMCS, 2018, p. 126-127.(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. Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis).

2.3.2. Aplikačný typ

Efektívne SkyGlow modelovanie pre porovnanie rôznych svetelných technológií

Mená riešiteľov: Miroslav Kocifaj

Aplikátor: The Illuminating Engineering Society (IES)
Pacific Northwest National Laboratory.

Illumination Engineering Society a Pacific Northwest National Laboratory uvoľnili pre celosvetové používanie "Sky Glow Comparison Tool", ktorého účelom je predpovedať zmeny úrovni svetelného znečistenia v závislosti na charakteristikách danej lokality a použitej svetelnej technológii. Tool je postavený na teórii a numerickej implementácii SkyGlow v5.c vyvinutými na USTARCH SAV a FMFI UK. Použitím SkyGlow v5.c bola vybudovaná databáza obsahujúca asi 215000 vypočítaných rekordov, nad ktorými pracuje SkyGlow Comparison tool. Riešenie je poskytnuté aplikačnej sfére, odbornej verejnosti a vedeckým tímom na požiadanie podľa pokynov na stránke:
<https://www.energy.gov/eere/ssl/potential-impacts-led-street-lighting-sky-glow>

Vysokoporézne anorganické materiály pre tepelno-izolačné aplikácie (VEGA 1/0696/15)

Mená riešiteľov: Eva Kuzielová

Aplikátor: Považská cementáreň, a.s. na základe projektu Vlastnosti cementových pien s objemovou hmotnosťou 300 kg m^{-3} PENOCEM realizovanom na Fakulte chemickej a potravinárskej technológie STU

Intenzívne používanie viaczožkových cementov kvôli ekonomickým aj ekologickým nárokom na znižovanie emisií podnecuje ich využitie aj v penobetónoch. V záverečnej fáze riešenia projektu sa preto študoval nový hybridný H-cement (Považská cementáreň, a. s.), ktorý obsahuje len 20 hm.% portlandského slinku. Jeho úžitkové vlastnosti ovplyvňuje puzolánová reakcia popolčeka, latentná hydraulická reakcia vysokopecnej granulovanej trosky a alkalická aktivácia anorganického geopolyméru. V porovnaní s tradičným portlandským cementom (OPC) poskytuje výroba H-cementu až 80 % úsporu emisií CO₂, nevyžaduje tepelnú úpravu či autoklávovanie a redukuje zmrašťovanie v dôsledku dlhodobého pôsobenia suchého prostredia. Metódou predpeňovania a optimalizáciou parametrov prípravy, ktoré významne vplyvajú na vývoj pórovej štruktúry (vodný súčiniteľ, koncentrácia penotvorného činidla, čas miešania), boli pripravené penobetóny s objemovou hmotnosťou 470 kg m⁻³ a 7-dňovou pevnosťou v tlaku 1,3 MPa. Dosiahnuté výsledky teda potvrdili možnosť použitia H-cementu ako ekologickej a ekonomicky prijateľnej náhrady OPC pre uvažované účely.

Výstupy:

KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - BAČA, Ľuboš - PACH, Ladislav. Preparation of lightweight foam concretes with bulk density less than 200 kg.m(-3) = Przygotowanie lekkich pianobetonów o gęstości pozornej mniejszej niż 200 kg·m-3. In Cement Wapno Beton, 2018, vol. 23, no. 5, p. 369-378. (0.468 - IF2017). ISSN 1425-8129.(VEGA 1/0696/15 : Vysokoporézne anorganické materiály pre tepelno-izolačné aplikácie).

2.3.3. Medzinárodné vedecké projekty

V4-KOREA_RADCON: The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment

Zodpovedný riešiteľ: Martin-Tchingnabé Palou

Projekt sa zaoberá problematikou trvanlivosti betónových stavieb v prostredí vystavenom dlhodobému jadrovému žiareniu. Ide o medzinárodnú spoluprácu „Visegrad Group (V4) - Korea Joint Research Program on Chemistry and Chemical Engineering“ s hlavným cieľom navrhnuť receptúry a metódy hodnotenia ťažkých betónov pre účely ochrany proti ionizujúcemu žiareniu v jadrových elektrárnach. V prvej fáze riešenia projektu bolo navrhnutých a pripravených šesť typov betónov na báze CEM I 42,5 R a kompozitných cementov obsahujúcich metakaolín, kremičitý úlet a vysokopecnú trosku do 25 hm. %. Použité boli dva typy agregátov (baryt a magnetit) s vysokou objemovou hmotnosťou a ich zmes. Výsledky skúšok fyzikálno-mechanických vlastností (pevnosť v tlaku, pevnosť v ťahu, modul pružnosti, objemová hmotnosť čerstvých a zatvrdnutých betónov, zmrašťovanie) potvrdili, že vyrobené vzorky patria medzi ťažké a vysokopevnostné betóny, a sú potenciálne využiteľné ako tieniace betóny v jadrových elektrárnach.

Výstupy:

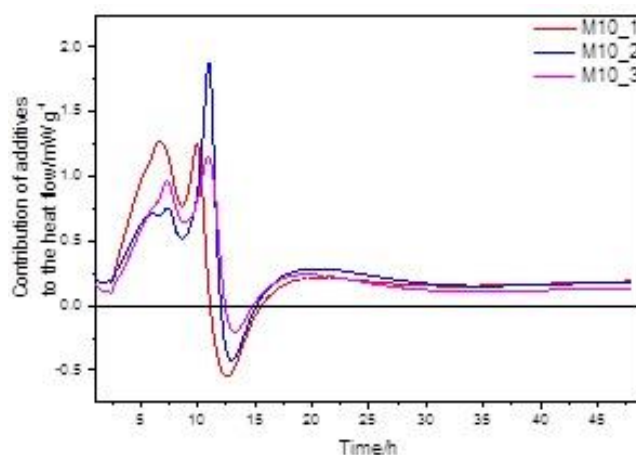
DRAGOMIROVÁ, Janette - PALOU, Martin T. Příprava a vlastnosti vysokopevnostných ťažkých betónov. In Betonárske dni 2018 : zborník príspevkov. Sekcia A4.Nové materiály a technológie. – Bratislava: Slovenská technická univerzita v Bratislave, 2018, s. 165-170.ISBN 978-80-227-4852-0.

2.3.4 Ďalšie významné výsledky

Simultánný efekt anorganických prímiesí (kremičitého úletu, metakaolínu a granulovanej vysokopečnej trosky) na hydratáciu mnohozložkových cementových spojív (VEGA 2/0097/17).

Mená riešiteľov: Martin Tchingnabé Palou, Eva Kuzielová, Matúš Žemlička

Zloženia štvorzložkových cementových spojív boli zvolené tak, aby profitovali zo synergického efektu jednotlivých prímiesí: metakaolínu (MK), kremičitého úletu (SF) a granulovanej vysokopečnej trosky (BFS). Vyšší obsah SF a MK viedol k urýchleniu hydratácie slinkových fáz a k puzolánovým reakciám, ktoré boli preukázané už počas prvých 2 dní hydratácie. Synergický vplyv použitých prímiesí umožnil zvýšiť obsah BFS na 25 hm% pri zachovaní pevnostných charakteristík blízkyh referenčnej vzorky. Všetky pripravené zloženia sa ukázali ako sľubné pre prípravu vysoko hodnotných betónov.



Obr. Tepelný tok korešpondujúci s puzolanitou prímiesí vo vzorkách pripravených s 10 hm.% SF.

Výstupy:

PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - MÁŠILKO, Jiří. The effect of metakaolin upon the formation of ettringite in metakaolin–lime–gypsum ternary systems. In Journal of Thermal Analysis and Calorimetry, 2018, vol. 133, no. 1, p. 77–86. (2.209 - IF2017). (2018 - Current Contents). ISSN 1388-6150.(APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch).

KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - PALOU, Martin T.. Synergický efekt kremičitého úletu, metakaolínu a jemne granulovanej vysokopečnej trosky na skoré štádium hydratácie Portlandského cementu = Synergic effect of silica fume, metakaolin and ground granulated blast-furnace slag on early hydration of Portland cement. In Cement 2018 : zborník prednášok z konferencie inovatívne technológie a trendy vo výrobe stavebných látok - innovative technologies and trends in the production of building materials. - Trenčín : CEMDESIGN, 2018, s. 106-118. ISBN 978-80-973167-0-9.(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. Cement 2018 : inovatívne technológie

a trendy vo výrobe stavebných látok - innovative technologies and trends in the production of building materials)._

KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - PALOU, Martin T.. Study of early hydration in four-component cement based systems. In CCTA13 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis : abstracts. - Lublin : UMCS, 2018, p. 162.(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. VEGA 1/0696/15 : Vysokoporézne anorganické materiály pre tepelno-izolačné aplikácie. Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis).

PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - MÁŠILKO, Jiří. Mechanisms of pozzolanic reaction in cement composites containing silica fume. In CCTA13 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis : abstracts. - Lublin : UMCS, 2018, p. 132-133.(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. Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis).

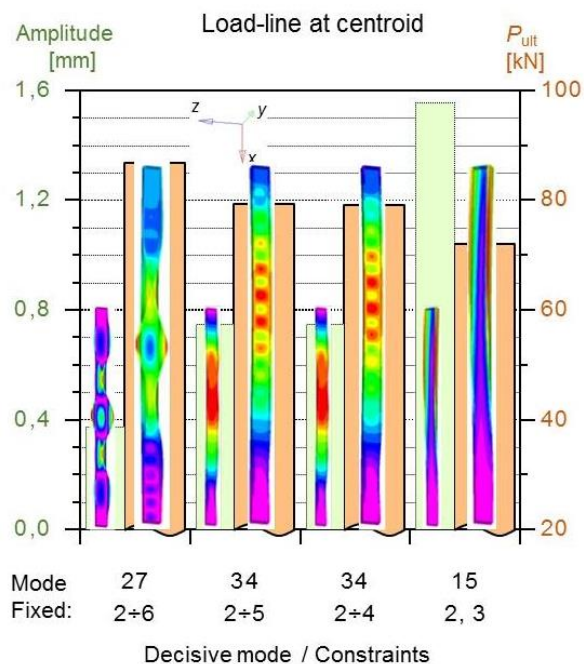
ŽEMLIČKA, Matúš - KUZIELOVÁ, Eva - PALOU, Martin T.. Vyšetrovanie priebehu hydratácie v štvorzložkových zmesových systémoch v sústave Portlandský cement - prímеси = Investigation of hydration course in quaternary Portland cement - supplementary cementitious materials blended systems. In Cement 2018 : zborník prednášok z konferencie inovatívne technológie a trendy vo výrobe stavebných látok - innovative technologies and trends in the production of building materials. - Trenčín : CEMDESIGN, 2018, s. 119-128. ISBN 978-80-973167-0-9.(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. Cement 2018 : inovatívne technológie a trendy vo výrobe stavebných látok - innovative technologies and trends in the production of building materials).Žemlička, Matúš - Kuzielová, Eva - Palou, Martin T. Investigation of four-component cement based systems by using thermal analysis techniques. CCTA13 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis: abstracts. – Lublin : UMCS, 2018, p. 163

Vplyv okrajových podmienok a excentricity zaťaženia na najmenšiu únosnosť tenkostenných za studena tvarovaných oceľových stĺpov (VEGA 2/0154/15).

Mená riešiteľov: Jozef Kriváček

Geometrické imperfekcie tenkostenných prvkov konštrukcií významne ovplyvňujú ich únosnosť. Jej modelovanie vyžaduje aplikáciu geometricky a materiálovo nelineárnej konečno prvkovej analýzy konštrukcií s imperfekciami (GMNIA). Spoločný návrh prvku sa odvodzuje z najmenšej únosnosti pri uvažovaní geometrických imperfekcií v podobe vlastných tvarov zodpovedajúceho linearizovaného problému. Pre reálne okrajové podmienky a excentricity zaťaženia sa klasický prístup založený na pravidelných lokálnych a distorzných imperfekciách ako aj zvolenom globálnom tvare nedá použiť. Na príkladoch tlačených za studena tvarovaných stĺpov C prierezu sa ukázala vhodnosť nedávno vypracovanej metodiky založenej na normalizácii vlastných tvarov podľa energetickej miery. Metodika umožňuje porovnanie vplyvu variácie okrajových podmienok a

excentricity zaťaženia na základe určených najmenších únosností. Obrázok ilustruje vplyv okrajových podmienok pri zmene rovnomerného posunu tlačenej koncovej platne stĺpa (2÷6) na umožnenie rotácie platne podľa slabej osi prierezu (2÷5), slabej a silnej osi (2÷4) a všetkých osí (2, 3). Variácia excentricity zaťaženia sa prejavuje väčšími rozdielmi najmenších únosností.



Obrázok: Najmenšie GMNIA únosnosti P_{ult} a odpovedajúce deformácie stĺpa pre uvedené okrajové podmienky; geometrické imperfekcie sú dané príslušnými kritickými tvarmi a ich amplitúdou.

Výstupy:

SADOVSKÝ, Zoltán - KRIVÁČEK, Jozef. Influence of boundary conditions and load eccentricity on strength of cold-formed lipped channel columns. In Thin-Walled Structures, 2018, vol. 131, p. 556-565. (2.881 - IF2017). ISSN 0263-8231.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2018/ doplňky z r. 2017
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	24 / 0
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	6 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	2 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	3 / 1
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	2 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	6 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	6 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	8 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	1
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. 2017 (zdroj JCR) <i>Počet článkov / doplnky 2016</i>	15 / 0	10 / 0	0 / 0	2 / 0	27 / 0
Podľa SJR z r. 2017 (zdroj Scimago) <i>Počet článkov / doplnky 2016</i>	23 / 0	3 / 0	4 / 0	0 / 0	30 / 0

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2017/ doplnky z r. 2016
Citácie vo WOS (1.1, 2.1)	656 / 11
Citácie v SCOPUS (1.2, 2.2)	57 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	1 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	16 / 6
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	19
Prednášky a vývesky na domácich vedeckých podujatiach	9

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

V. Sladek, M. Repka, J. Sladek: Moving finite element method. WIT Transactions on Engineering Sciences, vol. 122, WIT Press: Southampton and Boston, 2018, witpress.com/elibrary, ISSN 1743-3533.

M. Palou: Multicomponent cementitious composites: advantages and risks. 21st International Conference - Building materials, products and technologies ICBMPT 2018 from 29th – 31st May 2018, Českovice, Česká republika

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

V. Sladek, M. Repka, J. Sladek: Bending of elastic plates by Moving Finite Element method, Proceedings of the 19th International Scientific Conference Transfer 2018, 22-23 November 2018, Trenčianske Teplice, Slovakia, CD ROM, ISBN 978-80-8075-827-1.

J. Sladek, V. Sladek: Optimal design of metamaterials, Proceedings of the 19th International Scientific Conference Transfer 2018, 22-23 November 2018, Trenčianske Teplice, Slovakia, CD ROM, ISBN 978-80-8075-827-1.

M. Palou: Vápenický Seminár 2018, Congress Hotel Centrum, Košice 15. – 16. listopadu 2018

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

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

M. Palou: Chemistry of construction and building materials. School of Civil and Environmental

Engineering (Room A439), Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul, 03722, Republic of Korea.

J. Sladek: Computational Tools for Flexoelectric Problems, State Key Laboratory for Strength and Vibration of Structures, School of Aerospace, Xian Jiaotong University, Xian, China

V. Sladek: Gradient elasticity theory enrichment of plate bending theories. Numerical study of size effects in micro/nano plates by Moving Finite Elements, State Key Laboratory for Strength and Vibration of Structures, School of Aerospace, Xian Jiaotong University, Xian, China

M. Repka: Analysis of quantum dots systems under thermal loads based on the gradient elasticity. State Key Laboratory for Strength and Vibration of Structures, School of Aerospace, Xian Jiaotong University, Xian, China

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2018

2.7.1. Vynálezy, na ktoré bol udelený patent

Na Slovensku - počet patentov: 2

Číslo PV: SK 288616 B6

Pôvodca: Kocifaj Miroslav, Videen Gorden, Klačka Jozef

Názov vynálezu: Spôsob a zariadenie na indikáciu ohrozenia bleskom

Majiteľ / spolumajiteľ: Ústav stavebníctva a architektúry SAV, Univerzita Komenského v Bratislave, Videen Gorden, Adelphi Maryland, US

Číslo PV: SK 288562 B6

Pôvodca: Kocifaj Miroslav, Mego Michal

Názov vynálezu: Systém na izoláciu cirkulujúcich buniek z periférnej krvi

Majiteľ / spolumajiteľ: Ústav stavebníctva a architektúry SAV, Univerzita Komenského v Bratislave

V zahraničí - počet patentov: 2

Číslo PV: EP No. 3105614 B1

Pôvodca: Kocifaj Miroslav, Videen Gorden, Klačka Jozef

Názov vynálezu: Method and apparatus for lightning threat indication

Majiteľ / spolumajiteľ: Ústav stavebníctva a architektúry SAV, Univerzita Komenského v Bratislave, Videen Gorden, Adelphi Maryland, US

Číslo PV: EP No. 3052026 A1

Pôvodca: Kocifaj Miroslav, Mego Michal

Názov vynálezu: System for isolation of circulating cells from peripheral blood

Majiteľ / spolumajiteľ: Ústav stavebníctva a architektúry SAV, Univerzita Komenského v Bratislave, Centrum Vedecko-Technických informácií SR

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2018 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Kriváček Jozef	VEGA	2
Križma Martin	VEGA	1
Kuzielová Eva	VEGA	1

2.9. Účasť 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	0	0	0	0	1	0	3
Kocifaj Miroslav	0	0	30	0	0	0	0
Kómar Ladislav	0	0	6	0	0	0	0
Kuzielová Eva	0	0	4	0	0	0	0
Matiašovský Peter	1	0	0	0	0	0	5
Palou Martin-Tchingnabé	0	0	23	1	0	0	0
Sátor Ladislav	0	0	1	0	0	0	0
Sládek Ján	0	0	15	0	0	0	0
Sládek Vladimír	0	0	12	0	0	0	3
Spolu	1	0	91	1	1	0	11

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 2018

Forma	Počet k 31.12.2018						Počet ukončených doktorantúr v r. 2018					
	Doktorandi						Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		po skúške		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	0	1	0	0	0	0	0	0	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	1	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	0	0	0	0	0	0	0	0	0	0	0	0
Súhrn	1		0		0		1		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie

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 2018 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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Ing. Matúš Žemlička	Externá	01.09.2014	13.07.2018	5.2.19	ÚSTARCH	Fakulta chemickej a potravinárskej technológie, STU
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Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Medzinárodné doktorandské štúdium

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi
0	0	0	0

3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3e Zoznam akreditovaných študijných odborov 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	5.2.8	STU / Stavebná fakulta

Tabuľka 3f 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
Ing. Stanislav Darula, CSc. (pozemné stavby)	Ing. Stanislav Darula, CSc. (Stavebná fakulta TUKE)	Ing. Eva Kuzielová, PhD. (IIa)
Ing. Stanislav Darula, CSc. (elektroenergetika)	Ing. Peter Matiašovský, CSc. (Slovenská technická univerzita v Bratislave)	Ing. Matúš Žemlička, PhD. (IIb)
Ing. Martin Križma, PhD. (inžinierske konštrukcie a dopravné stavby)	Ing. Peter Matiašovský, CSc. (Stavebná fakulta STU)	
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. (aplikovaná mechanika)		
Prof. RNDr. Vladimír Sládek, DrSc. (numerická analýza a vedecko-technické výpočty)		

3.6. Údaje o pedagogickej činnosti

Tabuľka 3g Prednášky a cvičenia vedené v roku 2018

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	1	3	0
Celkový počet hodín v r. 2018	62	3	40	0

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

Tabuľka 3h Aktivity pracovníkov na VŠ

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

3.7. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2018 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Termofyzika 2018, Smolenice, 07.11.-09.11.2018

Počas týždňa vedy a techniky, v dňoch 7 – 9. novembra 2018 ústav organizoval v Kongresovom centre SAV v Smoleniciach medzinárodnú konferenciu Thermophysics 2018, 23. 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 51 účastníkov zo Slovenska, Českej republiky, Poľska, Švédska, Francúzska, Kanady a Indie.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2019 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

Light Pollution : Theory, Modelling, and Measurements 2019 / Svetelné znečistenie: Teória, modelovanie a meranie 2019, Zselic Valley Leisure Farm, Hungary, 25.06.-28.06.2019, (Miroslav Kocifaj, 02/ 5930 9293, kocifaj@savba.sk)

Thermophysics 2019/Termofyzika 2019, Smolenice, 22.10.-24.10.2019, (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	1	0	1
Peter Matiašovský	2	3	1
Ladislav Kómar	0	1	0
Peter Mihálka	0	1	0
Vladimír Sládek	2	0	0
Spolu	5	5	2

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

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)

prom. fyz. Oľga Koronthályová, CSc.

CIB W040 Heat and Moisture Transfer in Buildings (funkcia: člen)

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. Účasť 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
Kocifaj Miroslav	APVV/bilaterálne/SRB	1

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

S. Darula - Účasť na 1. Kick off a 2. zasadnutí expertov IEA SHC TAsk 61 Integrated Solutions for Daylighting and Electric Lighting: From component to user centered system efficiency.

S. Darula - CEN/TC 169/WG 11 – Daylight, expert, člen spracovateľského kolektívu európskej normy Fpr EN 17037 Daylight in Buildings

M. Kocifaj - Ústav pokračoval v úspešnej spolupráci s Dr. H. A. Solano-Lampharom, z Interdisciplinary Center for Metropolitan Studies, ktorý bol na pracovnom pobyte na Ústave stavebníctva a architektúry od 18.9.2018 do 28.11.2018. Výsledkom spolupráce sú dva články, ktoré budú zaslané na publikáciu.

M. Palou - Vývoj ťažkých betónov pre využitie v JE. V4-Kórea Joint Reseach Program on Chemistry and Chemical Engineering. The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment

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. Vedná politika

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

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

Druh spolupráce (spoločné pracovisko alebo iné): spolupráca na riešení projektu APVV-14-0017

Začiatok spolupráce: 2015

Zameranie: svetlotechnika

Zhodnotenie: spoločný projekt

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

Druh spolupráce (spoločné pracovisko alebo iné): práca na spoločných publikáciách

Začiatok spolupráce: 2018

Zameranie: svetelná technika

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

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

Druh spolupráce (spoločné pracovisko alebo iné): spoločný projekt, spolupráca v pedagogickej činnosti

Začiatok spolupráce: 2014

Zameranie: materiálový výskum silikátov

Zhodnotenie: spoločný projekt, spolupráca v pedagogickej činnosti, konzultácie

Názov univerzity/vysokej školy a fakulty: Stavebná fakulta TUKE

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

Začiatok spolupráce: 2017

Zameranie: stavebná fyzika

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

Názov univerzity/vysokej školy a fakulty: Stavebná fakulta ŽU

Druh spolupráce (spoločné pracovisko alebo iné): spolupráca na riešení projektu VEGA 2/0033/15

Začiatok spolupráce: 1996

Zameranie: betónové konštrukcie a mosty, stavebná mechanika

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

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

Druh spolupráce (spoločné pracovisko alebo iné): spolupráca na meraní svetelného znečistenia

Začiatok spolupráce: 2017

Zameranie: svetelné znečistenie

Zhodnotenie: experimenty na území Rakúska

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

Druh spolupráce (spoločné pracovisko alebo iné): spoluorganizovanie konferencie LPTMM2019

Začiatok spolupráce: 2015

Zameranie: rozptyl svetla

Zhodnotenie: zintenzívnenie spolupráce

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

Druh spolupráce (spoločné pracovisko alebo iné): príprava projektu

Začiatok spolupráce: 2018

Zameranie: rozptyl žiarenia na nabitých časticách

Zhodnotenie: príprava USAITC projektu

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

Druh spolupráce (spoločné pracovisko alebo iné): spolupráca na projekte

Začiatok spolupráce: 2017

Zameranie: svetelné znečistenie

Zhodnotenie: spolupráca na projekte SkyMeAPP

Názov univerzity/vysokej školy a fakulty: National Cheng Kung University Tainan, Taiwan

Druh spolupráce (spoločné pracovisko alebo iné): bilaterálny projekt MAD

Začiatok spolupráce: 2016

Zameranie: BIPV moduly

Zhodnotenie: práca na bilaterálnom projekte integrovaných fotovoltických modulov

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

S. Darula - člen komisie VTV pri ZSVTS

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Zákazka „Diffuse light transmission factor“ pre Terkoplast a.s., Bratislava

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
Peter Matiašovský	Pracovná skupina Akreditačnej komisie Vlády SR pre oblasť výskumu 5: Projektovanie, inžinierstvo, technológie a vodné hospodárstvo	člen
Stanislav Darula	TK108 Svetlo a osvetlenie – technická komisia pre činnosť v oblasti normalizácie pre ÚNMS	člen
Stanislav Darula	Odborno legislatívna pracovná skupina pri MDS SR k návrhu zákona o územnom plánovaní a zákona o výstavbe	člen
Martin Križma	TK 5 – normalizačná komisia pre betónové konštrukcie	člen

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
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8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi 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	0	tlač	14	TV	0
rozhlas	0	internet	1	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
Termophysics 2018	medzinárodná	Smolenice	07.11.-09.11.2018	51

9.3. Účasť na výstavách

Názov výstavy: KONČEK SKOČEK TITL, výstava diela

Miesto konania: Fakulta architektúry STU

Dátum: 2.5.2018

Zhodnotenie účasti: výstava sa konala 2.5. – 24. 5. 2018

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
J. Sládek	1	0	0
V. Sládek	1	0	0
Spolu	2	0	0

9.5. Členstvo v redakčných radách časopisov

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)

Proceedings of the National Academy of Sciences of the United States of America (funkcia: Guest Editor)

Ing. Peter Matiašovský, CSc.

Journal of Building Physics (funkcia: člen)

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

Ing. Stanislav Darula, CSc.

SBkS - Slovenská bioklimatologická spoločnosť pri SAV (funkcia: člen)

SNK CIE (funkcia: člen predsedníctva, vedecký tajomník)

SSTP - Slovenská spoločnosť pre techniku prostredia (funkcia: člen)

SSTS-Slovenská svetelnotechnická spoločnosť (funkcia: člen predsedníctva)

ZSVTS (funkcia: člen Rady)

Mgr. Miroslav Kocifaj, PhD.

CIE Div5, TC 5-28 (funkcia: člen)

Slovenská astronomická spoločnosť (funkcia: člen)

RNDr. Ladislav Kómar, PhD.

SSTS - Slovenská svetelnotechnická spoločnosť (funkcia: člen)

prom. fyz. Oľga Koronthályová, CSc.

SFS Slovenská fyzikálna spoločnosť (funkcia: člen)

SSTP Slovenská spoločnosť pre techniku prostredia (funkcia: člen)

Ing. Martin Križma, PhD.

Slovenský komitét fib (funkcia: člen)

Ing. Peter Matiašovský, CSc.

Slovenská bioklimatologická spoločnosť pri SAV (funkcia: člen)

Slovenská fyzikálna spoločnosť pri SAV (funkcia: člen)

Slovenská spoločnosť pre techniku prostredia (funkcia: člen)

Zväz slovenských vedeckotechnických spoločností (funkcia: Auditor EUR-ACE akreditačného centra ZSVTS)

Prof.Dr.Ing. Martin-Tchingnabé Palou

CO-SM Qualiform s.r.o. (funkcia: člen)

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		89700
z toho	knihy a zviazané periodiká	79888
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	10184
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		2
z toho zahraničné periodiká		2
Ročný prírastok knižničných jednotiek		2
v tom	kúpou	2
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		372
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)		803
v tom z r. 1	prezenčné výpožičky	32
	absenčné výpožičky	771
v tom z r. 1	odborná literatúra pre dospelých	735
	výpožičky periodík	68
MVS iným knižniciam		
MVS z iných knižníc		9
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		
Počet vypracovaných rešerší		

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	43
Návštevníci knižnice spolu (bez návštevníkov podujatí)	74

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 €	268

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

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 RO SAV

Tabuľka 12a Výdavky RO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2018 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	1 378 939	883 202	160 190	335 547	
Bežné výdavky	1 371 428	875 872	160 009	335 547	
v tom:					
mzdy (610)	807 128	662 893	609	143 626	
poistné a príspevok do poisťovní (620)	252 695	126 717	74 628	51 350	
tovary a služby (630)	222 982	71 739	67 015	84 228	
z toho: časopisy	2 474	2 474			
VEGA projekty	35 075	35 075			
MVTS projekty	38 688	38 688			
CE					
vedecká výchova	480	480			
bežné transfery (640)	88 623	14 523	17 757	56 343	
z toho: štipendiá	7 540	7 540			
transfery partnerom projektov	56 343			56 343	
Kapitálové výdavky	7 511	7 330	181		
v tom:					
obstarávanie kapitálových aktív	7 511	7 330	181		
kapitálové transfery					
z toho: transfery partnerom projektov					

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2018 spolu	v tom:	
		rozpočtové	z mimoroz p. zdrojov
Príjmy spolu	1 394 934	891 514	503 420
Nedaňové príjmy	164 220	164 220	
v tom:			
príjmy z prenájmu	77 796	77 796	
príjmy z predaja výrobkov a služieb	74 032	74 032	
iné	12 392	12 392	
Granty a transfery (mimo zdroja 111)	503 420		503 420
v tom:			
tuzemské	483 265		483 265
z toho: APVV	319 045		319 045
iné	164 220		164 220
zahraničné	20 155		20 155
z toho: projekty rámcového programu EÚ			
iné			

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2018

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Kocifaj Miroslav

Špičková časopisecká publikácia

Oceňovateľ: Predsedníctvo SAV

Opis: za prácu: Nature Geoscience, Vol. 10, No. 4, pp. 270-273, 2017

15.1.2. Iné domáce ocenenia

Darula Stanislav

Strieborná medaila ZSVTS

Oceňovateľ: Zväz slovenských vedeckotechnických spoločností

Opis: Za rozvoj svetelnej techniky a vedy v kontexte domáceho a medzinárodného rozvoja

Kocifaj Miroslav

Prémia za trojročný vedecký ohlas

Oceňovateľ: Literárny fond

Opis: Udelené sekciou pre vedeckú a odbornú literatúru a počítačové programy

15.2. Medzinárodné ocenenia

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. usarlako@savba.sk +421 2 59 309 241

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
Ing. Peter Matiašovský, CSc.

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

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2018

Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Prof. Ing. Ján Sládek, DrSc.	100	1.00
2.	Prof. RNDr. Vladimír Sládek, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	Ing. Stanislav Darula, CSc.	100	1.00
2.	Mgr. Milan Držík, CSc.	30	0.30
3.	Mgr. Miroslav Kocifaj, 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
8.	Dr. Ing. Michael Wunsche	100	0.83
Vedeckí pracovníci			
1.	RNDr. Ladislav Kómar, PhD.	100	1.00
2.	Ing. Jozef Kriváček, CSc.	80	0.80
3.	Ing. Peter Mihálka, PhD.,	50	0.50
4.	Mgr. Jaromír Petržala, PhD.	100	1.00
5.	Ing. Miroslav Repka, PhD.	100	1.00
6.	Ing. Ladislav Sátor, PhD.	100	1.00
7.	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 Kuliffayová	100	1.00
4.	Ing. Marta Malíková	100	1.00
5.	Ing. Marián Vrabec	100	1.00
6.	Mgr. Stefan Wallner	50	0.25
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	RNDr. Anna Kocifajová	100	1.00

2.	Ing. Mária Považancová	100	1.00
3.	Mgr. Dagmar Práznovská	50	0.21
4.	Ing. Danko Sitarčíková	50	0.50
Odborní pracovníci ÚSV			
1.	Olga Adamcová	100	1.00
2.	Viera Blahová	100	1.00
3.	Iveta Boříková	100	0.62
4.	Sylvia Bučičová	100	1.00
5.	Zdenko Černý	100	1.00
6.	Martin Habovštiak	100	1.00
7.	Anna Hrdá	100	1.00
8.	Roman Kralovič	100	1.00
9.	Mária Makovicová	100	1.00
10.	Anna Rajnohová	100	1.00
11.	Dagmar Slámová	100	1.00
12.	Alexander Toth	100	1.00
Ostatní pracovníci			
1.	Jozefa Garajská	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
Samostatní vedeckí pracovníci			
1.	prom. fyz. Oľga Koronthályová, CSc.	31.3.2018	0.63
2.	prof. Dr. Ing. arch. Henrieta Moravčíková	1.6.2018	1.00
Vedeckí pracovníci			
1.	Ing. Ján Malík, CSc.	15.2.2018	0.40
2.	PhDr. Katarína Haberlandová, PhD.	1.6.2018	1.00
3.	Ing. arch. Laura Pastoreková, PhD.	1.6.2018	1.00
4.	Mgr. Peter Szalay, PhD.	1.6.2018	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Marta Kuliffayová	30.11.2018	1.00

Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Ján Dobiáš	30.6.2018	0.03

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Ing. Janette Dragomirová	Slovenská technická univerzita v Bratislave	5.2.8 stavebnictvo
Interní doktorandi hrazení z jiných zdrojů			
<i>organizácia nemá interných doktorandov hrazených z jiných zdrojů</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 %)
--	-----------------------	-----------------------	-----------------------	---------------------

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: Medziakademická dohoda (MAD)

1.) Originálne riešenie tepelnej regulácie BIPV modulov včlenením vrstiev MEPCM (*Novel thermal management design for BIPV modules incorporating MEPCM layers*)

Zodpovedný riešiteľ: Peter Matiašovský
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: SAS-MOST JRP 2015/7
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 2 - Taiwan: 2
Čerpané financie: 16380 €

Dosiahnuté výsledky:

WANG, SH. - MATIAŠOVSKÝ, P. - MIHÁLKA, P. - LAI, CH-M.. Experimental investigation of the daily thermal performance of a mPCM honeycomb wallboard. In Energy and Buildings, 2018, vol. 159, p. 419-425. (4.457 - IF2017). (2018 - Current Contents). ISSN 0378-7788. Na základe výsledkov experimentu bola uskutočnená verifikácia a optimalizácia modelu vhodného pre simulácie celoročného tepelného správania stenových panelov integrovaných s budovou a ich vývoj.

KÓMAR, L. - KOCIFAJ M.. Bended Light-Guide Modeling Under Broken Cloud Arrays. In: VII. Lighting Conference of the Visegrad Countries (Lumen V4), IEEE, DOI: 10.1109/LUMENV.2018.8521084

KOCIFAJ, M. - KÓMAR, L. - KUNDRACIK, F. PePSS - A portable sky scanner for measuring extremely low night-sky brightness. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 210, p. 74-81. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

Programy: UNESCO

2.) 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: 0

Dosiahnuté výsledky:

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:	37304 €

Dosiahnuté výsledky:

DRAGOMIROVÁ, J. - PALOU, M.-T.. Príprava a vlastnosti vysokopevnostných ťažkých betónov. In Betonárske dni 2018 : zborník príspevkov. Sekcia A4.Nové materiály a technológie. – Bratislava: Slovenská technická univerzita v Bratislave, 2018, s. 165-170.ISBN 978-80-227-4852-0.(V4-KOREA_RADCON : Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí. Betonárske dni 2018). Typ: **AEDA**

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: 4316 €

Dosiahnuté výsledky:

DARULA, S. Hodnotenie denného svetla v Európe. Světlo, 2018, vol. 21, no. 2, p. 40-42. ISSN 1212-0812.

FABIAN, M.- UETANI, Y. - DARULA, S. Monthly luminous efficacy models and illuminance prediction using ground measured and satellite data. Solar Energy, 2018, vol. 162, p. 95-108.

LYTRA, A. V. - BARTZOKAS, A. - DARULA, S. - MARKOU, M.T. Determination of diurnal daylight courses for a central European region. In Solar Energy, 2018, vol. 169, p. 441-449.

KITTLER, R. - DARULA, S. The Natural Redistribution of Sunlight and Skylight Due to the Atmospheric Turbidity of Cloudless Skies. Leukos, 2018, vol. 14, no. 2, p. 87-93.

MOHELNÍKOVÁ, J. - DARULA, S. - OMISHORE, A. - MOHELNIK, P. - MIČEK, D. Light Guide Collector Prototype: Laboratory Testing. International Journal of Sustainable Lighting, 2017, p. 124-131.

DARULA S. - KITTLER R. The window size in residential house facades after the current and new CEN standard (Veľkosť okna vo fasáde bytového domu podľa súčasnej a CEN normy). Proc. Of the VII. Int. Lighting Conference of the Visegrad Countries LUMEN V4 2018. Brno: Czech Lighting Society and Brno University of Technology, 2018, p. 19-23.

DARULA, S. - MALÍKOVÁ, M. Význam obvodového plášťa budovy pri osvetľovaní interierov. Zborník z konferencie Kurz osvetľovací techniky XXXIV. Ostrava: Vysoká škola báňská - Technická univerzita Ostrava, 2018, s. 36-42

DARULA, S. - MALÍKOVÁ, M. Building envelope and energy demand in retrofitting office. Book of Abstracts of the 13th International enviBUILD 2018. - Debrecen : University of Debrecen, 2018, p. 4.

DARULA, S. - MALÍKOVÁ, M. Nový prístup k hodnoteniu denného osvetlenia. Technika osvetľování XXVIII. Plzeň: Česká společnost pro osvetľování, 2018, s. 5-11.

DARULA, S. Posúdenie denného osvetlenia interiérov - EÚ norma a jej energetické úskalia. Zborník prezentácií 13. medzinárodnej konferencie Inteligentne na energetickú efektívnosť, <http://www.enef.eu/2018/?mnu=zb>

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: 6475 €

Dosiahnuté výsledky:

BARENTINE, J. C. - WALKER, C. E. - KOCIFAJ, M. - KUNDRACIK, F. - JUAN, A. - KANEMOTO, J. - MONRAD, CH. K. Skyglow changes over Tucson, Arizona, resulting from a municipal LED street lighting conversion. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 212, p. 10-23. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

KOCIFAJ, M. Multiple scattering contribution to the diffuse light of a night sky: A model which embraces all orders of scattering. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 206, p. 260-272. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

KOCIFAJ, M. - KÓMAR, L. - KUNDRACIK, F. PePSS - A portable sky scanner for measuring extremely low night-sky brightness. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 210, p. 74-81. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

KOCIFAJ, M. Towards a comprehensive city emission function (CCEF). In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 205, p. 253-266. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

SOLANO LAMPHAR, H. A. - KOCIFAJ, M. Numerical research on the effects the skyglow could have in phytochromes and RQE photoreceptors of plants. In Journal of Environmental Management, 2018, vol. 209, p. 484-494. (4.005 - IF2017). ISSN 0301-4797. Typ: ADCA

TSANG, E. K. W. - KOCIFAJ, M. - LI, D. H. W. - KUNDRACIK, F. - MOHELNÍKOVÁ, J. Straight light pipes` daylighting: A case study for different climatic zones. In Solar Energy, 2018, vol. 179, p. 56-63. (4.374 - IF2017). ISSN 0038-092X. Typ: ADCA

PETRŽALA, J. - KOCIFAJ, M. - KÓMAR, L. Accurate tool for express optical efficiency analysis of cylindrical light-tubes with arbitrary aspect ratios. In Solar Energy, 2018, vol. 169, p. 264-269. (4.374 - IF2017). ISSN 0038-092X. Typ: ADCA

PETRŽALA, J. - KÓMAR, L. Analytical Estimation of Optical Efficiency of Cylindrical Light-Tubes Under Various CIE Sky Types. In: VII. Lighting Conference of the Visegrad Countries (Lumen V4), IEEE, DOI: 10.1109/LUMENV.2018.8521084

KUNDRACIK, F. – KOCIFAJ, M. SkyGlow Model Successfully Applied to the Evaluation of the Light Pollution over Tucson, US. In: VII. Lighting Conference of the Visegrad Countries (Lumen V4), IEEE, DOI: 10.1109/LUMENV.2018.8521084

KÓMAR, L. – KOCIFAJ, M. Bended Light-Guide Modeling Under Broken Cloud Arrays. In: VII. Lighting Conference of the Visegrad Countries (Lumen V4), IEEE, DOI: 10.1109/LUMENV.2018.8521084

3.) Modelovanie pokritického pôsobenia tenkostenných za studena tvarovaných prvkov
(*Modelling of post-buckling behaviour and strength of thin-walled cold formed columns*)

Zodpovedný riešiteľ: Jozef Kriváček
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0154/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 2806 €

Dosiahnuté výsledky:

4.) Vplyv opakovaného a dlhodobého namáhania na parametre interakcie pri sanácií železobetónových prvkov
(*Influence of repeated and long - term loading on interaction of parameters at reconstruction of reinforced concrete elements*)

Zodpovedný riešiteľ: Martin Križma
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0033/2015
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA: 2158 €

Dosiahnuté výsledky:

KRIŽMA, M - BOLHA, Ľ. - MORAVČÍK, M. Vplyv dlhodobého namáhania na parametre interakcie pri sanácii lineárnych železobetónových prvkov členitého prierezu. In Betón na Slovensku 2014-2018 : zborník prednášok z konferencie SNK fib. - Bratislava : Slovenský národný komitét fib vo vydavateľstve IRIS, 2018, s. 499-506. ISBN 978-80-8200-019-4.(VEGA 2/0033/15 : Vplyv opakovaného a dlhodobého namáhania na parametre interakcie pri sanácii železobetónových prvkov. Betón na Slovensku 2014-2018 : konferencia SNK fib pri príležitosti 5.fib kongresu - Melbourne, 2018).

KRIŽMA, M - BOLHA, Ľ. - MORAVČÍK, M. Vplyv dlhodobého namáhania na parametre interakcie pri sanácii lineárnych železobetónových prvkov s členitým prierezom = Influence of long term load on parameters of interaction by remediation of linear strengthened concrete of ragged section. In Inžinierske stavby, 2018, roč. 66, č. 4, s. 163-168. ISSN 1335-0846.(VEGA 2/0033/15 :

Vplyv opakovaného a dlhodobého namáhania na parametre interakcie pri sanácií železobetónových prvkov).

KRIŽMA, M. - BOLHA, Ľ. - MORAVČÍK, M. Vplyv časového faktora na odolnosť a používateľnosť poškodených a následne zosilnených betónových prvkov členitého prierezu. In TZB-info : stavba, specializace na stavebnictví a sociologii bydlení, 7 s. ISSN 1801-4399. Dostupné na internete:

<https://stavba.tzb-info.cz/beton-malty-omitky/17007-vplyv-casoveho-faktora-na-odolnost-a-pouzivatelnost-poskodenych-a-nasledne-zosilnenych-betonovych-prvkov-cleniteho-prierezu>

(VEGA 2/0033/15 : Vplyv opakovaného a dlhodobého namáhania na parametre interakcie pri sanácií železobetónových prvkov. VEGA 2/0033/15 : Vplyv opakovaného a dlhodobého namáhania na parametre interakcie pri sanácií železobetónových prvkov).

5.) Vysokoporézne anorganické materiály pre tepelno-izolačné aplikácie (*High porous inorganic materials for thermal insulating applications*)

Zodpovedný riešiteľ: Eva Kuzielová
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 1/0696/15
Organizácia je koordinátorom projektu: nie
Koordinátor: Fakulta chemickej a potravinárskej technológie STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 801 €

Dosiahnuté výsledky:

KUZIELOVÁ, E. - ŽEMLIČKA, M. - BAČA, Ľ. - PACH, L. Preparation of lightweight foam concretes with bulk density less than 200 kg.m(-3) = Przygotowanie lekkich pianobetonów o gęstości pozorniej mniejszej niż 200 kg·m-3. In Cement Wapno Beton, 2018, vol. 23, no. 5, p. 369-378. (0.468 - IF2017). ISSN 1425-8129.(VEGA 1/0696/15 : Vysokoporézne anorganické materiály pre tepelno-izolačné aplikácie).

6.) Monitorovanie tepelno - vlhkostného režimu UNESCO pamiatky kostola sv. Jakuba v Levoči a národnej pamiatky katedrály sv. Martina v Bratislave (*Monitoring of the hygrothermal regime of the UNESCO object of St Jame's Church in Levoči and national heritage object St Martin's Cathedrale in Bratislava*)

Zodpovedný riešiteľ: Peter Matiašovský
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 2/0105/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

7.) Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohozložkových 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 áno
koordinátorom projektu:
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7250 €

Dosiahnuté výsledky:

PALOU, M.-T – KUZIELOVÁ, E. - ŽEMLIČKA, M. - NOVOTNÝ, R. - MÁŠILKO, J. The effect of metakaolin upon the formation of ettringite in metakaolin-lime-gypsum ternary systems. Journal of Thermal Analysis and Calorimetry (2018) doi.org/10.1007/s10973-017-6885-0

KUZIELOVÁ, E. - ŽEMLIČKA, M. - NOVOTNÝ, R. - PALOU, M.-T. Simultaneous effect of silica fume, metakaolin and ground granulated blast-furnace slag on the hydration of multicomponent cementitious binders. Journal of Thermal Analysis and Calorimetry (2018) doi.org/10.1007/s10973-018-7813-7

KUZIELOVÁ, E. - ŽEMLIČKA, M. - NOVOTNÝ, R. - PALOU, M. T. Synergický efekt kremičitého úletu, metakaolínu a jemne granulovanej vysokopečnej trosky na skoré štádium hydratácie Portlandského cementu. Cement 2018, Inovatívne technológie a trendy vo výrobe stavebných látok, Zborník prednášok z konferencie Cement 2018 / 03. – 05.10.2018/ Vysoké Tatry, 2018, s. 106-118, ISBN 978-80973167-0-9

KUZIELOVÁ, E. - ŽEMLIČKA, M. - NOVOTNÝ, R. - PALOU, M.- T. Study of early hydration in four-component cement based systems. CCTA13 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis: abstracts. – Lublin : UMCS, (2018), p. 162

PALOU, M.-T - KUZIELOVÁ, E. - ŽEMLIČKA, M. - MÁŠILKO, J. Mechanisms of pozzolanic reaction in cement composites containing silica fume. CCTA13 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis: abstracts. – Lublin: UMCS, 2018, p. 132-133

ŽEMLIČKA, M. - KUZIELOVÁ, E. - PALOU, M.-T. Vyšetrovanie priebehu hydratácie v štvorzložkových zmesových systémoch v sústave Portlanský cement – prímеси. Cement 2018, Inovatívne technológie a trendy vo výrobe stavebných látok, Zborník prednášok z konferencie Cement 2018 / 03. – 05.10.2018/ Vysoké Tatry, 2018, s. 119-128, ISBN 978-80973167-0-9

ŽEMLIČKA, M. - KUZIELOVÁ, E. - PALOU, M.-T. Investigation of four-component cement based systems by using thermal analysis techniques. CCTA13 13th Conference on Calorimetry and

Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis: abstracts. – Lublin : UMCS, 2018, p. 163

8.) 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: 9496 €

Dosiahnuté výsledky:

SLÁDEK, J. – SLÁDEK, V. – JUS M.: The MLPG for crack analysis in composites with flexoelectricity effects, Compos Struct 204 (2018), 105-113.

BISHAY, P.L. – SLÁDEK, J. – PAN, E. – SLÁDEK, V.: Analysis of functionally graded quantum-dot systems with graded lattice mismatch strain, Jour. Computational and Theoretical Nanoscience 15 (2018), 542-550.

SLÁDEK J., SLÁDEK V., WÜNSCHE M., TAN C.L.: Flexoelectric effect for cracks in piezoelectric solids, Key Eng. Mater. 774 (2018), 90-95.

SLÁDEK, J. – NOVAK, P. – BISHAY, P.L. – SLÁDEK, V.: Numerical analyses of cement-based piezoelectric smart composites, Proceedings at the 9th ICCM 2018, 6th-10th August 2018, Rome, Italy (Eds: G.R. Liu, Patrizia Trovalusci), Sci Tech Publisher, pp. 486-491, ISSN 2374-3948 (online). <http://www.sci-en-tech.com/ICCM2018/Full%20Paper%20Proceedings.pdf>

SLÁDEK, V. – REPKA, M. – SLÁDEK, J.: Bending of elastic plates by Moving Finite Element method, Proceedings of the 19th International Scientific Conference Transfer 2018, 22-23 November 2018, Trenčianske Teplice, Slovakia, CD ROM, ISBN 978-80-8075-827-1.

Programy: APVV

9.) Zovšeobecnený model jasu/žiary nočnej oblohy a jeho aplikácia pri získavaní emisnej funkcie miest (*Generalized skyglow model and its application to retrieval of city emission function*)

Zodpovedný riešiteľ: Miroslav Kocifaj
Trvanie projektu: 1.7.2015 / 31.12.2018
Evidenčné číslo projektu: APVV-14-0017
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských 0

inštitúcií:

Čerpané financie: APVV: 42562 €

Dosiahnuté výsledky:

BARENTINE, J. C. - WALKER, C. E. - KOCIFAJ, M. - KUNDRACIK, F. - JUAN, A. - KANEMOTO, J. - MONRAD, Ch. K. Skyglow changes over Tucson, Arizona, resulting from a municipal LED street lighting conversion. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 212, p. 10-23. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

KOCIFAJ, M. Multiple scattering contribution to the diffuse light of a night sky: A model which embraces all orders of scattering. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 206, p. 260-272. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

KOCIFAJ, M. - KÓMAR, L. - KUNDRACIK, F. PePSS - A portable sky scanner for measuring extremely low night-sky brightness. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 210, p. 74-81. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

KOCIFAJ, M. Towards a comprehensive city emission function (CCEF). In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 205, p. 253-266. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

SOLANO LAMPHAR, H. A. - KOCIFAJ, M. Numerical research on the effects the skyglow could have in phytochromes and RQE photoreceptors of plants. In Journal of Environmental Management, 2018, vol. 209, p. 484-494. (4.005 - IF2017). ISSN 0301-4797. Typ: ADCA

PETRŽALA, J. Feasibility of inverse problem solution for determination of city emission function from night sky radiance measurements. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 213, p. 86-94. (2.600 - IF2017). ISSN 0022-4073. Typ: ADCA

KUNDRACIK, F. - KOCIFAJ, M. SkyGlow Model Successfully Applied to the Evaluation of the Light Pollution over Tucson, US. In: VII. Lighting Conference of the Visegrad Countries (Lumen V4), IEEE, 10.1109/LUMENV.2018.8520963.

10.) 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 áno

koordinátorom projektu:

Koordinátor: Ústav stavebníctva a architektúry SAV

Počet spoluriešiteľských 5 - Kórejská republika: 5

inštitúcií:

Čerpané financie: 1941 €

Dosiahnuté výsledky:

DRAGOMIROVÁ, J. – PALOU, M.-T. – NOVOTNÝ, R. Effect of heavy aggregates on concrete shrinkage. In Maltoviny 2018 : odborná konferencie o viedě, výzkumu a aplikacích v oboru maltovin. – Brno : Vysoké učení technické v Brně, 2018, s. 44-49. ISBN

978-80-214-5567-2.(V4-KOREA_RADCON : Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí. Maltoviny 2018 : odborná konferencia o vede, výskumu a aplikáciách v oboru maltovin).

11.) 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 / 31.12.2020
Evidenčné číslo projektu: APVV-15-0631
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 40820 €

Dosiahnuté výsledky:

KUZIELOVÁ, E. – ŽEMLIČKA, M. – MÁSILKO, J. – PALOU, M.-T. Upgrading the G-oil cement by refining pore structure. In Kvalita cementu 2018 : XII. odborný seminár Výskumného ústavu stavebných hmot, 12.- 13. 4. 2018, Mikulov. – Brno : Výskumný ústav stavebných hmot, 2018, s. 45-53. ISBN 978-80-87397-28-2.

KUZIELOVÁ, E. - ŽEMLIČKA, M. - MÁSILKO, J. - PALOU, M.-T. Effect of additives on the performance of Dyckerhoff cement, Class G, submitted to simulated hydrothermal curing. Journal of Thermal Analysis and Calorimetry (2018) doi.org/10.1007/s10973-017-6806-2

PALOU, M.-T - KUZIELOVÁ, E. - ŽEMLIČKA, M. - ŽIVICA, V. - TKACZ, J. Vývoj cementových kompozitov pre využitie v náročných podmienkach hĺbkových geotermálnych a ropných vrto. Cement 2018, Inovatívne technológie a trendy vo výrobe stavebných látok, Zborník prednášok z konferencie Cement 2018 / 03. – 05.10.2018/ Vysoké Tatry, , 2018, s. 15-27, ISBN 978-80973167-0-9

PALOU, M.-T - KUZIELOVÁ, E. - ŽEMLIČKA, M. - TKACZ, J. - MÁSILKO, J. Insights the hydration of portland cement under hydrothermal curing. CCTA13 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis: abstracts. – Lublin: UMCS, (2018), p. 126-127

12.) Multiškalo va 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 áno

koordinátorom projektu:

Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 1 - Čína: 1
Čerpané financie: APVV: 36736 €

Dosiahnuté výsledky:

13.) Multiškálové modelovanie viazaných polí v kompozitných materiáloch (*Multiscale modelling of coupled fields in composite materials*)

Zodpovedný riešiteľ: Ján Sládek
Trvanie projektu: 1.7.2015 / 31.12.2018
Evidenčné číslo projektu: APVV-14-0216
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 68068 €

Dosiahnuté výsledky:

SLÁDEK, J. – BISHAY, P.L. – REPKA, M. – PAN, M. – SLÁDEK, V.: Analysis of quantum-dot systems under thermal loads based on gradient theory. Smart Material Structures 27 (2018) 095009.

SLÁDEK, J. – SLÁDEK, V. – JUS, M.: The MLPG for crack analyses in composites with flexoelectric effects. Composite Structures 204 (2018) 105-113.

SLÁDEK, J. – SLÁDEK, V. – WÜNSCHE, M. – KASALA, J.: Gradient piezoelectricity for cracks under an impact load. International Journal of Fracture 210 (2018) 95–111.

SAPUTRA, A. – SLÁDEK, V. – SLÁDEK, J. – SONG, C.: Micromechanics determination of effective material coefficients of cement-based piezoelectric ceramic composites. Journal of Intelligent Material Systems and Structures 29 (2018) 845-862.

SLÁDEK, J. – SLÁDEK, V. – WÜNSCHE, M. – ZHANG, CH.: Effects of electric field and strain gradients on cracks in piezoelectric solids. European Journal of Mechanics/A Solids 71 (2018) 187–198.

SLÁDEK, J. – SLÁDEK, V. – WÜNSCHE, M.: Crack analysis in magneto-electro-elastic solids by gradient theory, Mechanics of Advanced

14.) 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 áno

koordinátorom projektu:

Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 58934 €

Dosiahnuté výsledky:

SÁTOR, L. – SLÁDEK, V. – SLÁDEK, J.: Bending of FGM plates under thermal load: Classical thermoelasticity analysis by a meshless method, Composites Part B 146 (2018), 176-188.

REPKA, M. – SLÁDEK, V. – SLÁDEK, J.: Gradient elasticity theory enrichment of plate bending theories, Composite Structures 202 (2018), 447-457.

REPKA, M. – SLÁDEK, V. – SLÁDEK, J.: Bending of elastic plates with micro-voids, Composite Structures 202 (2018), 1155-1163.

SLÁDEK, V. – SÁTOR, L. – SLÁDEK, J.: Thermoelastic analysis of bending problems in FGM plates, Int. J. Comp. Meth. and Exp. Meas. 6 (2018), 1161-1172. (DOI: 10.2495/CMEM-V6-N6-1161-1172)

SLÁDEK, V. – SÁTOR, L. – REPKA, M. – SLÁDEK, J.: Numerical simulations of coupling effects in FGM plates by meshfree methods, Proceedings at the 9th ICCM 2018, 6th-10th August 2018, Rome, Italy (Eds: G.R. Liu, Patrizia Trovalusci), Sci Tech Publisher, pp. 400-417, ISSN 2374-3948 (online). <http://www.sci-en-tech.com/ICCM2018/Full%20Paper%20Proceedings.pdf>

SLÁDEK, V. – REPKA, M. – SLÁDEK, J.: Moving finite element method. WIT Transactions on Engineering Sciences, vol. 122, WIT Press: Southampton and Boston, (to be published in 2018, witpress.com/elibrary), ISSN 1743-3533.

SLÁDEK, V. – SÁTOR, L. – SLÁDEK, J.: Consistent 2D formulation of thermoelastic bending problems for FGM plates, Proceedings 21st Int. Conf. on Composite Structures – ICCS21, 4-7 September 2018, University Bologna, Italy (Eds. A.J.M. Ferreira, F. Tornabene, N. Fantuzzi, E. Viola), Societa Editrice ESCULAPIO, ISBN 978-88-9385-079-7, pp.14.

REPKA, M. – SLÁDEK, V. – SLÁDEK, J.: Numerical study of size effects in micro/nano plates by movingfinite elements, Proceedings 21st Int. Conf. on Composite Structures – ICCS21, 4-7 September 2018, University Bologna, Italy (Eds. A.J.M. Ferreira, F. Tornabene, N. Fantuzzi, E. Viola), Societa Editrice ESCULAPIO, ISBN 978-88-9385-079-7, pp.15.

SLÁDEK, V. – SÁTOR, L. – REPKA, M. – SLÁDEK, J.: Bending of piezo-electric functionally graded plates, Proceedings 1st Int. Conf. on Mechanics of Advanced Materials and Structures – ICMAMS 2018, 17-20 June 2018, Castello del Valentino, Torino, Italy, (Eds. J.N.Reddy, E. Carrera), ISBN 979-12-2003-311-4, pp. 75.

SÁTOR, L. – SLÁDEK, V. – SLÁDEK, J.: Coupling effects in transient anaysis of FGM plates bending in non-classical thermoelasticity, Book of Abstracts, 4th Int. Conf. on Mechanics of Composites – MechComp4, 9-12 July 2018, Universidad Carlos III de Madrid, Spain, (Eds. A.J.M. Ferreira, C. Santiuste).

SLÁDEK, V. – REPKA, M. – SLÁDEK, J.: Bending of elastic plates by Moving Finite Element method, Proceedings of the 19th International Scientific Conference Transfer 2018, 22-23

November 2018, Trenčianske Teplice, Slovakia, CD ROM, ISBN 978-80-8075-827-1.

SÁTOR, L.: Transient analysis of FGM plates bending under thermal loading: comparative study within classical and generalized thermoelasticity, Book of Abstracts, XXIII Polish-Slovak Scientific Conference on Mashine Modelling and Simulations – MMS 2018, 4-7 September 2018, Rydzyna, Poland, Publ. House of Poznan Univ of Technology.

Programy: Iné projekty

15.) Antroposféra a svetelný smog (*Anthroposphere and light pollution*)

Zodpovedný riešiteľ:	Igor Broska
Zodpovedný riešiteľ v organizácii SAV:	Miroslav Kocifaj
Trvanie projektu:	1.1.2018 / 31.12.2018
Evidenčné číslo projektu:	OA
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav vied o Zemi SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 900 €

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 BARENTINE, John C. - WALKER, Constance E. - KOCIFAJ, Miroslav - KUNDRACIK, F. - JUAN, Amy - KANEMOTO, John - MONRAD, Christian K. Skyglow changes over Tucson, Arizona, resulting from a municipal LED street lighting conversion. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2018, vol. 212, p. 10-23. (2.600 - IF2017). (2018 - Current Contents). ISSN 0022-4073.(APVV-14-0017 : Zovšeobecnený model jasu/žiary nočnej oblohy a jeho aplikácia pri získavaní emisnej funkcie miest. VEGA 2/0016/16 : Optické vlastnosti zalomených svetlovodov za podmienok nehomogénnej oblačnosti s ľubovoľným pokrytím oblohy).
- ADCA02 FABIAN, Miroslav - UETANI, Y. - DARULA, Stanislav. Monthly luminous efficacy models and illuminance prediction using ground measured and satellite data. In Solar Energy, 2018, vol. 162, p. 95-108. (4.374 - IF2017). (2018 - Current Contents). ISSN 0038-092X.(APVV 0118-12 : Simulovanie denného svetla v umelej oblohe. VEGA 2/0045/17).
- ADCA03 HSIANG, C. C. - CHOU, C. K. - YOUNG, D. L. - SLÁDEK, Ján - SLÁDEK, Vladimír. Applying the Method of Characteristics and the Meshless Localized Radial Basis Function Collocation Method to Solve Shallow Water Equations. In Journal of Engineering Mechanics, 2018, vol. 144, no. 7, art. no. 04018047. (1.799 - IF2017). (2018 - Current Contents). ISSN 0733-9399.
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AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách

- AFA01 SLÁDEK, Vladimír - SLÁDEK, Ján - SÁTOR, Ladislav. Meshless implementations of Local Integral Equations for bending of thin plates. In Boundary Elements and other Mesh Reduction Methods XXXIV. Eds. C.A. Brebbia, D. Poljak. - Southampton : WIT Press, 2012, p. 15-26.

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AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 DARULA, Stanislav - KITTLER, Richard. CIE General Sky standard defining luminance distributions. In Proceeding Conference eSim 2002. The Canadian conference on building energy simulation : september 11th - 13th, 2002, Montreal. Dostupné na internete: <http://www.ustarch.sav.sk/wp-content/uploads/darula_kittler_proc_conf_esim_2002.pdf>.
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 2. [1.1] *SCHMID, A. L. - SEKI UEHARA, L. K. Lighting performance of multifunctional PV windows A numeric simulation to explain illuminance distribution and glare control in offices. In ENERGY AND BUILDINGS. ISSN 0378-7788, 2017, vol. 154, p. 590-605., Registrované v: WOS*
 3. [3.1] *DAICHE, A. M. - MAZOUZ, S. - DAICH, S. - SAADI, M. Y. Toward a tool to optimize the daylighting into the process of architectural design – reverse approach. In PROCEEDINGS OF THE 3rd IBPSA-England Conference BSO 2016, Great North Museum, Newcastle, 12th-14th September 2016. Number o article: 1007. Dostupné na internete: http://www.ibpsa.org/?page_id=797 , <http://www.ibpsa.org/proceedings/BSO2016/p1007.pdf> .*
 4. [3.2] *WACHTER, M. - GOTTSCHALK, L. - SIMMLER, M. - WOIDICH, G. - SCHULZE, A. - HÜTTL, B. Accurate Measurement of Short Circuit Current at Clear-Sky Conditions: Prerequisite for a Reliable Outdoor Characterization of Photovoltaic Modules. In BROCHURE OF THE 8th INTERNATIONAL WORKSHOP NOVEL DEVELOPMENTS AND APPLICATIONS IN SENSOR AND ACTUATOR TECHNOLOGY, 2016, Coburg: Institute of Sensor and Actuator Technology, 2016, p. 33.*
- AFC02 HARTMAN, Peter - HANULIAK, Peter - MAŇKOVÁ, Lucia - FABIAN, Miroslav - HRUŠKA, Jozef - DARULA, Stanislav. Indoor daylight spectral characteristics and illuminance levels measurements in deep space rooms and its evaluation for human visual and biological response. In LIGHT SVĚTLO 2015 : proceedings of the 21st international conference. Editors Jan Škoda, Stanislav Sumec. - Brno : Brno University of Technology, Faculty of Electrical Engineering and Communication, Department of Electrical Power Engineering, 2015, s. 223-226. ISBN 978-80-214-5244-2.
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- AFC03 JANOTKA, Ivan - KRAJČI, Ľudovít. Utilization of natural zeolite in portland pozzolan cement of increased sulfate resistance. In Proceedings of the 5th CANMET/ACI International Conference on Durability of Concrete. - Barcelona, 2000, vol. 1, P. 223-236.
- Citácie:

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2. [1.1] SICAKOVA, A. - SPAK, M. - KOZLOVSKA, M. - KOVAC, M. *Long-Term Properties of Cement-Based Composites Incorporating Natural Zeolite as a Feature of Progressive Building Material. In ADVANCES IN MATERIALS SCIENCE AND ENGINEERING. ISSN 1687-8434, 2017, article number: 7139481., Registrované v: WOS*

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 KORONTHÁLYOVÁ, Olga - MATIAŠOVSKÝ, Peter. Hygroscopicity of non-matured and matured plasters. In Thermophysics 2005 : proceedings of the meeting of the thermophysical society. - Bratislava : ICA SAS, 2005, p. 43 -49. ISBN 80-969434-2-1.
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AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 ZHANG, C. - SLÁDEK, Ján - SLÁDEK, Vladimír. A time-domain BIEM for crack analysis in FGMs under dynamic loading. In Computational Mechanics : abstract of the 6th world congress in computational mechanics, Beijing, 5-10 September 2004. - Beijin : Tsinghua University Press & Springer – Verlag, 2004, p. 447.
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1. [1.1] MANOLIS, G. D. - DINEVA, P. S. - RANGELOV, T. V. - WUTTKE, F. *In-Plane Wave Motion in Unbounded Cracked Inhomogeneous Media. In SEISMIC WAVE PROPAGATION IN NON-HOMOGENEOUS ELASTIC MEDIA BY BOUNDARY ELEMENTS. ISSN 0925-0042, 2017, vol. 240, p. 213-245., Registrované v: WOS*

AGI Správy o vyriešených vedeckovýskumných úlohách

- AGI01 DARULA, Stanislav - KITTLER, Richard - KAMBEZIDIS, H.D. - BARTZOKAS, A. Guidelines for more realistic daylight exterior conditions in energy conscious designs. Computer adaptation and examples : GK-SK 013/1998. Bratislava, Athens : ICA SAS, IERSD HOA : University of Ioannina, November 2000. 34 p.
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1. [1.1] PIOTROWSKA, E. - BORCHERT, A. *Energy consumption of buildings depends on the daylight. In ENERGY AND FUELS 2016. ISSN 2267-1242, 2017, vol. 14, article number UNSP 01029., Registrované v: WOS*
- AGI02 KINZEY, Bruce - PERRIN, Tess E. - MILLER, Naomi J. - KOCIFAJ, Miroslav - AUBÉ, Martin - SOLANO LAMPAR, H. A. An Investigation of LED Street Lighting's Impact on Sky Glow. Richland, Washington : Pacific Northwest National Laboratory, 2017. 38 p. Dostupné na internete: <https://energy.gov/sites/prod/files/2017/05/f34/2017_led-impact-sky-glow.pdf>.
Citácie:
1. [1.1] KYBA, C. C. M. - KUESTER, T. - SANCHEZ DE MIGUEL, A. - BAUGH, K. - JECHOW, A. - HOELKER, F. - BENNIE, J. - ELVIDGE, C. D. - GASTON, K.

- J. - GUANTER, L. *Artificially lit surface of Earth at night increasing in radiance and extent. In SCIENCE ADVANCES. ISSN 2375-2548, 2017, vol. 3, no. 11, article number e1701528., Registrované v: WOS*
- AGI03 KITTLER, Richard - DARULA, Stanislav - PEREZ, Richard. A set of standard skies characterising daylight conditions for computer and energy conscious design. U.S. – Slovak Science and technology Cooperation 1991-1998 : Final Report. American-Slovak Grant Project US-SK 92052. Bratislava : ICA SAS, 1998. 240 p.
- Citácie:
1. [1.1] ALSHAIBANI, K. A. *Classification Standard Skies: The use of horizontal sky illuminance. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2017, vol. 73, p. 387-392., Registrované v: WOS*
 2. [1.1] SOUZA, D. F. - SCARAZZATO, P. S. - PEDRINI, H. *Classifying skies from images: A multidimensional approach to detecting high dynamic range imaging attributes. In LIGHTING RESEARCH & TECHNOLOGY. ISSN 1477-1535, 2016, vol. 48, no. 5, p. 559-572., Registrované v: WOS*
 3. [4.1] DOLNÍKOVÁ, E. – KATUNSKÝ, D. *Hodnotenie svetelnej pohody pri kombinovanom osvetľovaní systéme v priemyselných halách. Košice: elfa, 2017, 162 p. ISBN 978-80-553-2809-6.*

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. [3.1] NEKVAPIL, J. - ŠKODA, J. *Experimentální měření dutých světlovodů v laboratoři. In KURZ OSVĚTLOVACÍ TECHNIKY XXXIII: sborník recenzovaných příspěvků, Loučná nad Desnou, 2.-4. října 2017. Ostrava: Vysoká škola báňská – TU Ostrava, 2017, s. 144-153. ISBN 978-80-248-4104-5.*
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 3. [4.1] NEKVAPIL, J. - ŠKODA, J. *Experimental measurement of tubular skylight in laboratory. In SVETLO 2017: zborník z 22. medzinárodnej konferencie LIGHT SVETLO 2017, Podbanské, 8.-10. novembra 2017. Ed. D. Gašparovský. Bratislava: Slovenská svetelnotechnická spoločnosť, 2017, s. 194-203. ISBN 978-80-972865-0-7.*
 4. [4.1] POPELIŠ, M. *Svetlovody pre náročné priestory. In SVETLO 2017: zborník z 22. medzinárodnej konferencie LIGHT SVETLO 2017, Podbanské, 8.-10. novembra 2017. Ed. D. Gašparovský. Bratislava: Slovenská svetelnotechnická spoločnosť, 2017, s. 245-248. ISBN 978-80-972865-0-7.*

BAB Odborné knižné publikácie vydané v domácich vydavateľstvách

- BAB01 DULLA, Matúš. Slovenská architektúra od Jurkoviča po dnešok. Bratislava : Perfkt, 2007. 196 s. ISBN 978-80-8046-366-3.
- Citácie:
1. [1.1] ANDRAS, M. *Architecture Building Architecture in the Post-War Period in Slovak Rural Environment. In 8TH ARCHITEKTURA V PERSPEKTIV 2016, 2016, vol., no., pp. 237-239., Registrované v: WOS*
- BAB02 KITTLER, Richard - KITTLEROVÁ, L. *Návrh a hodnotenie denného osvetlenia. Bratislava : ALFA, 1975. 243 s. Edícia stavebníckej literatúry.*
- Citácie:

1. [1.1] KATUNSKY, Dusan - DOLNIKOVA, Erika - DOROUDIANI, Saeed. *Integrated Lighting Efficiency Analysis in Large Industrial Buildings to Enhance Indoor Environmental Quality*. In *BUILDINGS*. ISSN 2075-5309, 2017, vol. 7, no. 2, article number 47., Registrované v: WOS

BAB03 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] ALSHAIBANI, K. A. *Classification Standard Skies: The use of horizontal sky illuminance*. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2017, vol. 73, p. 387-392., Registrované v: WOS
2. [1.1] LI, D. H. W. - LOU, S. - GHAFARIANHOSEINI, A. - ALSHAIBANI, K. A. - LAM, J. C. *A review of calculating procedures on daylight factor based metrics under various CIE Standard Skies and obstructed environments*. In *BUILDING AND ENVIRONMENT*. ISSN 0360-1323, 2017, vol. 112, p. 29-44., Registrované v: WOS
3. [1.1] LOU, S. - LI, D. H. W. - LAM, J. C. *CIE Standard Sky classification by accessible climatic indices*. In *RENEWABLE ENERGY*. ISSN 0960-1481, 2017, vol. 113, p. 347-356., Registrované v: WOS
4. [3.1] GÁBROVÁ, L. *Rozdíly v tradičním novém přístupu k hodnocení denního osvětlení budov*. In *TZB-info*, ISSN 1801-4399, 2017, 5 p. Dostupné na internete: <https://stavba.tzb-info.cz/denni-osvetleni-a-osluneni/16687-rozdily-v-tradicnim-a-novem-pristupu-k-hodnoceni-denniho-osvetleni-budov>.

BDE Odborné práce v ostatných zahraničných časopisoch

BDE01 KOCIFAJ, Miroslav - DARULA, Stanislav - KUNDRACIK, F. *Tubusové svetlovody - modelovanie interiérových osvetleností pri štandardných svetelných podmienkach*. In *Světlo : časopis pro světelnou techniku a osvětlování*, 2010, roč. 13, č. 2, s. 52-54. ISSN 1212-0812.

Citácie:

1. [3.1] SKOTNICOVÁ, I. – ČERNÍKOVÁ, M. *Pasivní osvětlovací systémy pro obtížné osvětlitelné prostory*. In *KURZ OSVĚTLOVACÍ TECHNIKY XXXIII: sborník recenzovaných příspěvků, Loučná nad Desnou, 2.-4. října 2017*. Ostrava: Vysoká škola báňská – TU Ostrava, 2017, s. 191-197. ISBN 978-80-248-4104-5.

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Stanislav Darula, CSc.

Názov semestr. predmetu: Building Physics - Daylighting

Počet hodín za semester: 10

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: Slovenská technická univerzita v Bratislave, 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 anorganická technológia

Počet hodín za semester: 24

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

Semestrálne cvičenia:

Ing. Eva Kuzielová, PhD.

Názov semestr. predmetu: Laboratórium chemických technológií II

Počet hodín za semester: 18

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Oddelenie anorganických materiálov

Ing. Peter Matiašovský, CSc.

Názov semestr. predmetu: Metodológia vedeckého experimentu

Počet hodín za semester: 20

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

Semináre:

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:

Ing. Stanislav Darula, CSc.

Názov semestr. predmetu: Osvětlovací technika

Počet hodín za semester: 3

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
Čína					J. Sladek	9
Čína					V. Sladek	9
Čína					M. Repka	9
Rakúsko					L. Kómar	4
Rakúsko					J. Petržala	4
Kórejská republika	M. Palou	6				
Litva					M. Palou	3
Počet vyslaní spolu	1	6			6	38

(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
					Aicha Diakité	2
ČR					Pavel Staněk	1
Mexiko					H. A. Solano-Lamphar	72
India	S. Venkateswara Rao	60				
Taiwan	Chi-Ming Lai, C.J. Ho, Rong-Horng Chen	8				
Počet prijatí spolu	4	68			3	75

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Španielsko	MECHCOMP4	L. Sátor	7
	FDM 17, Sevilla	J. Sladek	6
Poľsko	MMS2018	L. Sátor	4

	CCTA	M. Palou	5
		E. Kuzielová	5
		M. Žemlička	5
Taliansko	ICCS21	M. Repka	5
		V. Sladek	5
Taliansko	ICMAMS, Torino	J. Sladek	6
		V. Sladek	6
	ICCM, Rome	J. Sladek	6
		V. Sladek	6
England	BEM/MRM 41, New Forest	V. Sladek	5
Ukrajina	ICMPMM, Lviv	J. Sladek	5
Francúzsko	ICCE-26, Paris	J. Sladek	5
Grecko	ICNAAM, Rhodes	J. Sladek	7
Maďarsko	EnviBuild	S. Darula	3
Nemecko	ECCC	M. Palou	3
Švajčiarsko	IWCSE	M. Palou	3
Česká Republika	KTO	S. Darula	3
	KOT	S. Darula	3
		L. Kómar	3
	LUM	S. Darula	3
		L. Kómar	4
		J. Petržala	4
		M. Kocifaj	4
	KC 2018	M. Palou	3
	ICBMPT2018	M. Palou	3
	ICBM2018	E. Kuzielová	1
		M. Žemlička	1
		J. Dragomirová	1

	ID MSC	J. Kriváček	4
Spolu	21	32	134

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

Skratky použité v tabuľke C:

ECCC - 4th European Cement Calorimetry Conference Dresden 2018

CCTA - 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of

IWCSE - International Workshop on Calcium Sulfoaluminate Cements

Calorimetry and Thermal Analysis

KC 2018 – Kvalita cementu 2018

ICBMPT 2018 – International Conference on Building Materials, Products and Technologies 2018

ICBM2018 - International Conference on Building Materials 2018

MECHCOMP4 – 4th International Conference on Mechanics of Composites

MMS2018 - International Polish – Slovak Conference on Machine Modeling and Simulations 2018

ICCS21-International Conference on Composite Structures 2018

ICMAMS – International Conference on Mechanics of Advanced Materials and Structures

ICCM – International Conference on Computational Methods

BEM/MRM 41 - 41st International Conference on Boundary Elements and other Mesh Reduction Methods

ICCE-26 Int. Conference for Composite Engineering

ICNAAM – Int. Conference for Numerical Analysis and Applied Mathematics

ICMPMM- Int. Conf. On Modern Problems of Mechanics and Mathematics

FDM 17- Int. Conf. On Fracture and Damage Mechanics

Lumen - VII. Int. Lighting Conference of the Visegrad Countries LUMEN V4

EnviBuild - 13th International Conference enviBUILD 2018

KTO – Konf. Technika osvětlování XXVIII 2018

KOT - Konf. Kurz osvětlovací techniky XXXIII 2018

ID MSC - Info Dny MSC.Software 2018

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

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Miroslav Kocifaj, PhD.		TL	Amerika rieši svetelný smog slovenskou metódou	https://spravy.pravda.sk/domace/clanok/461418-amerika-riesi-svetelny-smog-slovenskou-metodou/	9.3.2018
Mgr. Miroslav Kocifaj, PhD.		TL	https://www.24hod.sk/clanok_etarget.php?id=638601	https://www.24hod.sk/clanok_etarget.php?id=638601	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		IN	Rezonancie v malých častiach môžu iniciovať rozvoj technológií	Aktuality SAV	25.6.2018
Mgr. Miroslav Kocifaj, PhD.		TL	SAV: Airports Could Save Millions in Losses Thanks to Lightning Research	http://www.tasr.sk/tasr-clanok/TASR:20181211TBB00129	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Slovenskí vedci pracujú na vylepšeniach, ako predpovedať blesky v búrkových mrakoch	https://dennikn.sk/1323848/slovenski-vedci-pracuju-na-vylepsenia-ch-ako-predpovedat-bl-esky-v-burkovych-mra-koch/	16.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Slovenskí vedci s patentom: Výskum bleskov môže letiskám ušetriť miliónové straty	https://www.dnes24.sk/slovenski-vedci-s-pate-ntom-vyskum-bleskov-moze-letiskam-usetrit-milionove-straty-317390	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Slovenský tím fyzikov prispel k riešeniu problematiky svetelného znečistenia	http://vedanadosah.cvtsr.sk/slovensky-tim-fyzikov-prispel-k-rieseni-u-problematiky-svetelneho-znecistenia	10.3.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí letiskám miliónové straty	http://vedanadosah.cvtsr.sk/vyskum-bleskov-usetri-letiskam-milionove-straty	16.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí letiskám miliónové straty	https://vat.pravda.sk/technologie/clanok/494750-vyskum-bleskov-usetri-letiskam-milionove-straty/	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí letiskám miliónové straty, tvrdia vedci zo SAV	https://www.etrend.sk/technologie/vyskum-bl-eskov-usetri-letiskam-milionove-straty-tvrdia-vedci-zo-sav.html	11.12.2018

Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí podľa vedcov letiskám miliónové straty	https://domov.sme.sk/c/22006041/vyskum-ble-skov-usetri-podla-vedcov-letiskam-milionove-straty.html	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí podľa vedcov letiskám miliónové straty	https://snn.sk/teraz_sk_366536/	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí podľa vedcov letiskám miliónové straty	https://www.dnesky.sk/vyskum-bleskov-usetri-podla-vedcov-letiskam-milionove-straty/	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí podľa vedcov letiskám miliónové straty	https://www.dobrenoviny.sk/c/150325/vyskum-bleskov-usetri-podla-vedcov-letiskam-milionove-straty	11.12.2018
Mgr. Miroslav Kocifaj, PhD.		TL	Výskum bleskov ušetrí podľa vedcov letiskám miliónové straty	https://www.teraz.sk/magazin/sav-vyskum-bleskov-usetri-podla-ved/366536-clanok.html	11.12.2018

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