

**TECHNICKÁ UNIVERZITA V KOŠICIACH**  
**STAVEBNÁ FAKULTA**

**PREHĽAD PUBLIKAČNEJ ČINNOSTI Z DATABÁZ**  
**Evidencia publikačnej činnosti – EPC TUKE**  
**Web of Science**  
**Scopus**

Ing. Viktória Bajzecerová, PhD.

Košice, august 2021

**Prehľad publikačnej činnosti podľa evidencie publikačnej činnosti – EPC TUKE****Technická univerzita v Košiciach****Prehľad publikačnej činnosti**Autor: **BAJZECEROVÁ, Viktória**Dátum generovania výstupu: **23. 8. 2021, 15:59:30****Skupina A2 - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI)****Počet záznamov: 2**

BAB - Odborné monografie vydané v domácich vydavateľstvách (1)

BCI - Skriptá a učebné texty (1)

**Skupina B - Publikácie v karentovaných vedeckých časopisoch a autorské osvedčenia, patenty a objavy (ADC, ADD, AEG, AEH, BDC, BDD, CDC, CDD, AGJ)****Počet záznamov: 3**

ADC - Vedecké práce v zahraničných karentovaných časopisoch (2)

AGJ - Autorské osvedčenia, patenty, objavy (1)

**Skupina C - Ostatné recenzované publikácie (ACC, ACD, ADE, ADF, AEC, AED, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEC, BED, BFA, BFB, BGH, CDE, CDF)****Počet záznamov: 65**

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (4)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (4)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (3)

AFD - Publikované príspevky na domácich vedeckých konferenciách (47)

AFH - Abstrakty príspevkov z domácich konferencií (1)

BDE - Odborné práce v zahraničných nekarentovaných časopisoch (4)

BEC - Odborné práce v zahraničných recenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

BED - Odborné práce v domácich recenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

**Skupina N - Nové kategórie EPC v zmysle Vyhlášky č. 456/2012 (ADM, ADN, AEM, AEN, BDM, BDN, CBA, CBB)****Počet záznamov: 6**

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (1)

ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS (5)

**Skupina D - Ostatné - mimo kategórií MŠSR****Počet záznamov: 7**

BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (5)

BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

DAI - Dizertačné a habilitačné práce (1)

**Počet záznamov spolu: 83****Menný zoznam publikácií:****ADC - Vedecké práce v zahraničných karentovaných časopisoch(2)**

ADC001 [225826] **The design and production of a suitable carrier for microwires used for non-contact detection of mechanical strains** / Mohamad Al Ali ... [et al.] - 2021.In: Sustainability. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 13, č. 2 (2021), 1-10 [online]. - ISSN 2071-1050 (online) Spôsob prístupu: <https://www.mdpi.com/2071-1050/13/2/477/htm>. [AL ALI, Mohamad (20%) - KMEŤ, Stanislav (20%) - PLATKO, Peter (20%) - BAJZECEROVÁ, Viktória (20%) - ZELENÁKOVÁ, Martina (20%)]

ADC002 [229552] **Monitoring the strain of beech plywood using a bistable magnetic microwire** / Mohamad Al Ali ... [et al.] - 2021.In: Sensors and Actuators, A: Physical. Roč. 326 (2021), s. [1-6] [print]. - ISSN 0924-4247 Spôsob prístupu: <https://www.sciencedirect.com/science/article/pii/S0924424721001898?via%3Dihub>. [AL ALI, Mohamad (16%) - PLATKO, Peter (14%) - BAJZECEROVÁ, Viktória (14%) - KMEŤ, Stanislav (14%) - GALDUN, Ladislav (14%) - ŠPEGÁROVÁ, Anna (14%) - VARGA, Rastislav (14%)]

#### ADE - Vedecké práce v zahraničných nekarentovaných časopisoch(4)

ADE001 [86577] **Experimentálne vyšetovanie drevo-betónových nosníkov s rozptýlenou výstužou pri dlhodobom zaťažení** / Ján Kanócz, Viktória Bajzecerová - 2009.In: Konstrukce. Vol. 8, no. 4 (2009), p. 17-21. - ISSN 1213-8762 [KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

ADE002 [86815] **Investigation of timber-concrete composite beams under long term loading** / Ján Kanócz, Viktória Bajzecerová - 2009.In: Zeszyty naukowe Politechniki Rzeszowskiej. Vol. 264, no. 52 (2009), p. 71-78. - ISSN 0209-2646 [KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

ADE003 [136195] **Dlouhodobé působení spřáhnutých drevo-betonových nosných prvků** / Viktória Bajzecerová - 2011.In: TZB-info. (2011), p. 1-7. - ISSN 1801-4399 Spôsob prístupu: <http://stavba.tzb-info.cz/drevene-a-ocelove-konstrukce/7576-dlouhodobem-pusobeni-sprahnutych-drevo-betonovych-nosnych-prvku>. [BAJZECEROVÁ, Viktória (100%)]

ADE004 [137145] **Návrh spriahnutých drevo-betónových konštrukcií v pozemnom a inžinierskom staviteľstve** / Ján Kanócz, Viktória Bajzecerová - 2013.In: TZB info. (2013), s. 1-7. - ISSN 1801-4399 Spôsob prístupu: <http://stavba.tzb-info.cz/drevene-a-ocelove-konstrukce/10315-navrh-spriahnutych-drevo-betonovych-konstrukcii-v-pozemnom-a-inzinierskom-stavitelstve>. [KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

#### ADF - Vedecké práce v domácich nekarentovaných časopisoch(4)

ADF001 [103667] **Experimental investigation of timber - concrete composite members under long term loading** / Ján Kanócz, Viktória Bajzecerová - 2010.In: Selected Scientific Papers : Journal of Civil Engineering. Roč. 5, č. 1 (2010), s. 39-46. - ISSN 1336-9024 [KANÓCZ, Ján (100%) - BAJZECEROVÁ, Viktória (50%)]

ADF002 [167476] **Spriahnuté drevo-betónové mosty - Charakteristika a výpočtový model** / Viktória Bajzecerová, Ján Kanócz - 2015.In: Pozemné komunikácie a dráhy. Roč. 11, č. 2 (2015), s. 13-20. - ISSN 1336-7501 [BAJZECEROVÁ, Viktória (50%) - KANÓCZ, Ján (50%)]

ADF003 [185464] **Vplyv vlhkostných a teplotných zmien prostredia na spriahnutú drevo-betónovú mostovku** / Viktória Bajzecerová, Ján Kanócz - 2016.In: Pozemné komunikácie a dráhy. Roč. 12, č. 2 (2016), s. 23-31. - ISSN 1336-7501 [BAJZECEROVÁ, Viktória (50%) - KANÓCZ, Ján (50%)]

ADF004 [201724] **Structural analysis of cross-laminated timber slabs subjected to bending – state of the art** / Viktória Bajzecerová, Maroš Kováč, Ján Kanócz - 2018.In: SSP - Journal of Civil Engineering : the Journal of Technical University of Kosice. - Košice (Slovensko) : Stavebná fakulta Roč. 13, č. 1 (2018), s. 133-140 [print]. - ISSN 1336-9024 Spôsob prístupu: <https://content.sciendo.com/view/journals/sspice/13/1/article-p133.xml>. [BAJZECEROVÁ, Viktória (34%) - KOVÁČ, Maroš (33%) - KANÓCZ, Ján (33%)]

#### ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS(1)

ADM001 [185588] **Design methods of timber-concrete composite ceiling structure** / M. Al Ali, V. Bajzecerová, V. Kvočák - 2017.In: Magazine of Civil Engineering. Vol. 73, no. 5 (2017), p. 88-95. -

ISSN 2071-4726

[AL ALI, Mohamad (34%) - BAJZECEROVÁ, Viktória (33%) - KVOČÁK, Vincent (33%)]

**ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS(5)**

ADN001 [142983] **Timber-concrete composite elements with various composite connections**  
Part 1: Screwed connection/ Ján Kanócz, Viktória Bajzecerová, Štefan Šteller - 2013.In: Wood research. Roč. 58, č. 4 (2013), s. 555-569. - ISSN 1336-4561  
[KANÓCZ, Ján (40%) - BAJZECEROVÁ, Viktória (40%) - ŠTELLER, Štefan (20%)]

ADN002 [148522] **Parametrical analysis of long-term behaviour of timber - Concrete composite bended elements** / Ján Kanócz, Viktória Bajzecerová - 2014.In: Wood Research. Roč. 59, č. 3 (2014), s. 379-388. - ISSN 1336-4561 Spôsob prístupu: <http://www.centrumdp.sk/wr/03/01.pdf>.  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

ADN003 [152578] **Timber-concrete composite elements with various composite connections**  
Part 2: Grooved connection/ Ján Kanócz, Viktória Bajzecerová, Štefan Šteller - 2014.In: Wood Research. Roč. 59, č. 4 (2014), s. 627-638. - ISSN 1336-4561  
[KANÓCZ, Ján (40%) - BAJZECEROVÁ, Viktória (40%) - ŠTELLER, Štefan (20%)]

ADN004 [166345] **Timber-concrete composite elements with various composite connections**  
**Part 3: Adhesive connection** / Ján Kanócz, Viktória Bajzecerová - 2015.In: Wood Research. Roč. 60, č. 6 (2015), s. 939-952. - ISSN 1336-4561  
[KANÓCZ, Ján (35%) - BAJZECEROVÁ, Viktória (65%)]

ADN005 [200451] **Analysis of composite action of various mass timber structural panels with concrete layer** / Ján Kanócz, Viktória Bajzecerová - 2018.In: Wood research. - Bratislava (Slovensko) : Slovenský drevársky výskumný ústav Roč. 63, č. 6 (2018), s. 1091-1100 [print]. - ISSN 1336-4561 Spôsob prístupu: <http://www.woodresearch.sk/wr/201806/16.pdf>.  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

**AFC - Publikované príspevky na zahraničných vedeckých konferenciách(3)**

AFC001 [83604] **Analýza spriahnutých drevo-betónových prvkov pri dlhodobom zaťažení = Investigation of timber-concrete composite beams under long term loading** / Ján Kanócz, Viktória Bajzecerová - 2009.In: 12. mezinárodní vědecká konference u příležitosti 110. výročí založení FAST VUT v Brně a 14. výročí založení Stavebních veletrhů Brno. Sekce 7, Management stavebnictví. - Brno : CERM, 2009 P. 41-44. - ISBN 9788072046294  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFC002 [174229] **CLT-lightweight concrete composite beam with adhesive connection** / Ján Kanócz, Viktória Bajzecerová - 2016.In: WCTE 2016. - Vienna : University of Technology, 2016 P. 1-8. - ISBN 978-3-903039-00-1 Spôsob prístupu: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85011005101&origin=resultslist&sort=plf-f&src=s&st1=CLT-lightweight+concrete+composite+beam+with+adhesive+connection&st2=&sid=c198a70a343d59de886cff63a234a942&sot=b&sdt=b&sl=79&s=TITLE-ABS-KEY%28CLT-lightweight+concrete+composite+beam+with+adhesive+connection%29&relpos=0&citeCnt=1&searchTerm=>  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFC003 [199117] **New Concepts in Design of Timber View Towers** / Ján Kanócz ... [et al.] - 2018.In: World Conference on Timber Engineering. - Seoul (Kórejská republika) : National institute of forest science s. 1-6 [CD-ROM]. - ISBN 979-11-6019-235-3  
[KANÓCZ, Ján (20%) - BAJZECEROVÁ, Viktória (16%) - MIHALÁK, Michal (16%) - PLATKO, Peter (16%) - KARLA, Viktor (16%) - MERTOVIÁ, Miroslava (16%)]

**AFD - Publikované príspevky na domácich vedeckých konferenciách(47)**

AFD001 [118254] **Analýza výsledkov ohybových skúšok pri dlhodobom zaťažení** / Ján Kanócz,

Viktória Bajzecerová - 2012.In: Vedecko-výskumná činnosť ÚIS : Prezentácia vedeckých výsledkov projektov ÚIS za rok 2011 : 4. ročník : zborník príspevkov : Herľany, 6.-7. december 2011. - Košice : TU, SvF, 2012 S. 41-46. - ISBN 978-80-553-0821-0  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD002 [121817] **Nové prístupy k návrhu drevených rozhladní** / Ján Kanócz, Viktória Bajzecerová, Peter Platko - 2012. - 1 elektronický optický disk (CD-ROM).In: 9. International Scientific Conference FCE TUKE : The 35th Anniversary of the Faculty of Civil Engineering and The 60th Anniversary of the Technical University of Košice : 22. - 25.5.2012, Košice. - Košice : TU, 2012 S. 1-7. - ISBN 978-80-553-0905-7  
[KANÓCZ, Ján (40%) - BAJZECEROVÁ, Viktória (40%) - PLATKO, Peter (20%)]

AFD003 [128920] **Influence of rheological behaviors to load-carrying capacity of timber-concrete composite beams under long term loading** / Ján Kanócz, Viktória Bajzecerová - 2012.In: Procedia Engineering : Steel Structures and Bridges 2012 : 23rd Czech and Slovak international conference : Podbanské, Slovakia, September 26-28, 2012. - Košice : TU, 2012 Vol. 40 (2012), p. 20-25. - ISSN 1877-7058 Spôsob prístupu: <http://www.sciencedirect.com/science/article/pii/S1877705812024356>.  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD004 [128926] **Vplyv zmršťovania betónu na dlhodobú odolnosť ohýbaných spriahnutých drevo-betónových prvkov** / J. Kanócz, V. Bajzecerová - 2012.In: 9. International Scientific Conference FCE TUKE : The 35th Anniversary of the Faculty of Civil Engineering and The 60th Anniversary of the Technical University of Košice : 22. - 25.5.2012, Košice. - Košice : TU, 2012 S. 1-6. - ISBN 978-80-553-0905-7  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD005 [128947] **Zohľadnenie dotvarovania spriahnutia pri návrhu drevo-betónových ohýbaných prvkov** / Ján Kanócz, Viktória Bajzecerová - 2012.In: Drevo - surovina 21. storočia v architektúre, stavebníctve a interiéri : 8. konferencia so zahraničnou súčasťou : zborník prednášok : 29. - 30.októbra 2012, Smolenický zámok. - Bratislava : ADAPT, 2012 S. 23-27. - ISBN 978-80-89145-07-2  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD006 [133348] **Možnosti stanovenia súčiniteľa dotvarovania spriahnutia pri návrhu drevo-betónových nosníkov** / J. Kanócz, V. Bajzecerová - 2013.In: Vedecko-výskumná činnosť ÚIS : Prezentácia vedeckých výsledkov projektov ÚIS za rok 2012 : 5. ročník : 4. - 5. december 2012, UVZ TU Herľany. - Košice : TU, 2013 S. 47-50. - ISBN 978-80-553-1300-9  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD007 [138814] **Príspevok k navrhovaniu drevo-betónových konštrukcií v praxi** / J. Kanócz, V. Bajzecerová - 2013.In: Ocelové, kompozitné a drevené nosné konštrukcie a mosty : 38. aktív pracovníkov odboru ocelových konštrukcií : zborník príspevkov : 2. - 4. október 2013, Košice. - Košice : TU, SvF, 2013 S. 89-96. - ISBN 978-80-553-1480-8  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD008 [138815] **Experimentálne stanovenie globálneho súčiniteľa dotvarovania spriahnutých drevo-betónových nosníkov** / J. Kanócz, V. Bajzecerová - 2013.In: Ocelové, kompozitné a drevené nosné konštrukcie a mosty : 38. aktív pracovníkov odboru ocelových konštrukcií : zborník príspevkov : 2. - 4. október 2013, Košice. - Košice : TU, SvF, 2013 S. 97-102. - ISBN 978-80-553-1480-8  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD009 [141267] **Experimentálne a numerické overovanie krátkodobej odolnosti lamelových dosák spriahnutých s ľahkým betónom pomocou lepenia** / Ján Kanócz, Viktória Bajzecerová, Marek Mojdís - 2013.In: Structural and Physical Aspects of Civil Engineering : 2nd International Scientific Conference : November 27-29, 2013, High Tatras, Štrbské Pleso, SR. - Košice : TU, 2013 S. 1-7. - ISBN 978-80-553-1488-4  
[KANÓCZ, Ján (34%) - BAJZECEROVÁ, Viktória (33%) - MOJDIS, Marek (33%)]

AFD010 [141268] **Numerické modelovanie skrutkového spriahnutia drevo-betónových prvkov** /

Ján Kanócz, Viktória Bajzecerová - 2013.In: Structural and Physical Aspects of Civil Engineering : 2nd International Scientific Conference : November 27-29, 2013, High Tatras, Štrbské Pleso, SR. - Košice : TU, 2013 S. 1-4. - ISBN 978-80-553-1488-4  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD011 [144825] **Možnosti navrhovania spriahnutých drevo-betónových konštrukcií** / J. Kanócz, V. Bajzecerová - 2014.In: Vedecko-výskumná činnosť ÚIS : Prezentácia vedeckých výsledkov projektov ÚIS za rok 2013 : 6. ročník : zborník príspevkov : Herľany, 4. - 5. december 2013. - Košice : TU, 2014 S. 65-70. - ISBN 978-80-553-1611-6  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD012 [144826] **Experimentálna a teoretická analýza lepených drevo-betónových kompozitov** / J. Kanócz, V. Bajzecerová, M. Mojdis - 2014.In: Vedecko-výskumná činnosť ÚIS : Prezentácia vedeckých výsledkov projektov ÚIS za rok 2013 : 6. ročník : zborník príspevkov : Herľany, 4. - 5. december 2013. - Košice : TU, 2014 S. 71-78. - ISBN 978-80-553-1611-6  
[KANÓCZ, Ján (34%) - BAJZECEROVÁ, Viktória (33%) - MOJDIS, Marek (33%)]

AFD013 [148524] **Experimental and numerical analysis of timber-lightweight concrete composite with adhesive connection** / Ján Kanócz, Viktória Bajzecerová, Marek Mojdis - 2014.In: Advanced Materials Research : SPACE 2013 : 2nd International Conference on Structural and Physical Aspects of Civil Engineering : High Tatras, Slovakia, 27-29 November 2013. Vol. 969 (2014), p. 155-160. - ISBN 978-303835147-4 - ISSN 1662-8985  
[KANÓCZ, Ján (34%) - BAJZECEROVÁ, Viktória (33%) - MOJDIS, Marek (33%)]

AFD014 [152580] **Metódy stanovenia odolnosti spriahnutých CLT-betónových nosníkov** / Viktória Bajzecerová, Ján Kanócz - 2014.In: Oceľ, drevo, betón, sklo a ich kombinácie v moderných konštrukciách : 39. celoštátny aktív pracovníkov odboru oceľových konštrukcií so zahraničnou účasťou : 16. - 17.10.2014, Topoľčianky. - Bratislava : STU, 2014 S. 1-8. - ISBN 978-80-227-4257-3  
[BAJZECEROVÁ, Viktória (70%) - KANÓCZ, Ján (30%)]

AFD015 [160939] **Parametrická štúdia niektorých vplyvov dlhodobého pôsobenia spriahnutých drevo-betónových nosníkov** / J. Kanócz, V. Bajzecerová - 2015.In: Vedecko-výskumná činnosť ÚIS. - Košice : TU, 2015 S. 35-44. - ISBN 978-80-553-2013-7  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD016 [160940] **Výpočet únosnosti CLT-betónového nosníka spriahnutého lepeným spojom** / V. Bajzecerová, J. Kanócz - 2015.In: Vedecko-výskumná činnosť ÚIS. - Košice : TU, 2015 S. 45-50. - ISBN 978-80-553-2013-7  
[BAJZECEROVÁ, Viktória (50%) - KANÓCZ, Ján (50%)]

AFD017 [167422] **Application of magnetic microwires for sensing stresses in structures** / Rudolf Sabol ... [et al.] - 2015.In: Journal of Electrical Engineering : Magnetic Measurement 2015. - Bratislava : STU, 2015 Roč. 66, č. 7/s (2015), s. 164-167. - ISSN 1335-3632  
[SABOL, Rudolf (20%) - ROVNÁK, Marián (20%) - BAJZECEROVÁ, Viktória (20%) - VOJTANÍK, Pavol (20%) - VARGA, Rastislav (20%)]

AFD018 [168754] **Innovative structural composite elements from timber and lightweight concrete bounded by adhesive** / Ján Kanócz ... [et al.] - 2015.In: Potential and services of USP Technicom for efficient development of entrepreneurship and research collaboration with industry. - Košice : Elfa, 2015 S. 91-94. - ISBN 978-80-8086-252-7  
[KANÓCZ, Ján (25%) - KOBAN, Juraj (10%) - ROVNÁK, Marián (10%) - BAJZECEROVÁ, Viktória (25%) - BOČKOVÁ, Andrea (10%) - MIHALÁK, Michal (10%) - JAVORÍKOVÁ, Miroslava (10%)]

AFD019 [169931] **Križom lamelovaná doska spriahnutá s betónovou vrstvou pomocou lepenia - experimentálny program** / Ján Kanócz, Viktória Bajzecerová - 2016.In: Vedecko-výskumná činnosť ÚIS. - Košice : TU, 2016 S. 43-48. - ISBN 978-80-553-2489-0  
[KANÓCZ, Ján (50%) - BAJZECEROVÁ, Viktória (50%)]

AFD020 [169932] **Križom lamelovaná doska spriahnutá s betónovou vrstvou pomocou lepenia – teoretická analýza** / V. Bajzecerová, J. Kanócz - 2016.In: Vedecko-výskumná činnosť ÚIS. - Košice :

TU, 2016 S. 15-20. - ISBN 978-80-553-2489-0

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**Technická univerzita v Košiciach****Prehľad publikačnej činnosti**

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**Skupina C - Ostatné recenzované publikácie (ACC, ACD, ADE, ADF, AEC, AED, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEC, BED, BFA, BFB, BGH, CDE, CDF)**

**Počet záznamov: 3**

AFD - Publikované príspevky na domácich vedeckých konferenciách (3)

**Skupina D - Ostatné - mimo kategórií MŠSR****Počet záznamov: 1**

BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

**Počet záznamov spolu: 4****Menný zoznam publikácií:****AFD - Publikované príspevky na domácich vedeckých konferenciách(3)**

AFD001 [63586] **Možnosti využitia spriahnutých drevo-betónových nosných prvkov na stropné konštrukcie budov** / J. Kanócz ... [et al.] - 2007.In: Kovové, spriahnuté a drevené konštrukcie a mosty. - Žilina : ŽU, 2007 S. 73-78. - ISBN 9788096916153

[KANÓCZ, Ján - ŠTELLER, Štefan - LABIS, Ladislav - SABOLOVÁ, Viktória]

AFD002 [67513] **Dlhodobé pôsobenie spriahnutých drevo-betónových konštrukčných prvkov** / Ján Kanócz, Viktória Sabolová - 2007.In: 8. vedecká konferencia Stavebnej fakulty TU v Košiciach pri príležitosti 30. výročia založenia SvF a 55. výročia založenia TU v Košiciach. Sekcia 2, Inžinierske konštrukcie a dopravné stavby, Kovové a drevené konštrukcie. - Košice : TU, 2007 S. 127-132. - ISBN 9788080738020

[KANÓCZ, Ján (50%) - SABOLOVÁ, Viktória (50%)]

AFD003 [67528] **Analýza spriahnutých drevo-betónových prvkov pri dlhodobom statickom zaťažení** / Ján Kanócz, Viktória Sabolová - 2007.In: Drevo - surovina 21. storočia v architektúre a stavebníctve. - Bratislava : ADAPT, 2007 S. 60-63. - ISBN 9788089145041

[KANÓCZ, Ján (50%) - SABOLOVÁ, Viktória (50%)]

**BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných)(1)**

BEE001 [80465] **Výskum a vývoj dvoch typov spriahnutých drevo-betónových stropných sústav** / J. Kanócz ... [et al.] - 2008.In: Dřevostavby 2008. - Volyně : Vyšší odborná škola a Střední průmyslová škola, 2008 P. 65-70. - ISBN 9788086837185

[KANÓCZ, Ján (25%) - ŠTELLER, Štefan (25%) - LABIS, Ladislav (25%) - SABOLOVÁ, Viktória (25%)]

**Record 1 of 15****Title:** Normal Stress Distribution of Timber-Concrete Composite Panels with an Adhesive Shear Connection under Thermal and Humidity Loadings**Author(s):** Bajzecerova, V (Bajzecerova, Viktoria); Kanocz, J (Kanocz, Jan); Kormanikova, E (Kormanikova, Eva); Karla, V (Karla, Viktor); Orolin, P (Orolin, Peter); Vranay, F (Vranay, Frantisek)**Source:** BIORESOURCES **Volume:** 16 **Issue:** 3 **Pages:** 4862-4875 **DOI:** 10.15376/biores.16.3.4862-4875 **Published:** AUG 2021**Abstract:** Humidity and temperature conditions have a substantial influence on the stresses and total deformation of timber-concrete composite panels, especially in terms of the high rigidity of the shear connection. In the present research, the normal stresses that resulted from the hygrothermal load of timber-concrete composite panels with an adhesive shear connection were analyzed. Three timber-concrete composite panel specimens were placed in controlled climate conditions. Strains in two orthogonal directions were measured. The stress distribution resulted from an approximate analytical calculation model. The results show that the highest stresses occurred near the shear connection. An increase in timber moisture content by 2.1% was predicted to result in exceeding the flexural tensile strength in the concrete perpendicular to the timber grain direction. At an outdoor temperature range, stresses influenced only by the temperature alone will possibly not cause a failure of timber or concrete. Under winter environmental conditions, the stress in timber can possibly reach 12% of the bending strength of the timber used.**Accession Number:** WOS:000688342600007**ISSN:** 1930-2126**Record 2 of 15****Title:** Monitoring the strain of beech plywood using a bistable magnetic microwire**Author(s):** Al Ali, M (Al Ali, M.); Platko, P (Platko, P.); Bajzecerova, V (Bajzecerova, V.); Kmet, S (Kmet, S.); Galdun, L (Galdun, L.); Spegarova, A (Spegarova, A.); Varga, R (Varga, R.)**Source:** SENSORS AND ACTUATORS A-PHYSICAL **Volume:** 326 **Article Number:** 112726 **DOI:** 10.1016/j.sna.2021.112726 **Published:** AUG 1 2021**Abstract:** The application of a bistable magnetic microwire as a contactless sensor of strain in a beech plywood strip is tested. The results are compared to the strain gauge measurement. It is shown that the magnetic response of the microwire increases linearly within a low load range. At a higher load range, the response fluctuates, probably reflecting the local fluctuation of strain distribution. The sensitivity of the microwire response allows for the theoretical strain sensitivity down to  $6 \times 10^{-8}$ . The small size of the microwire permits its application between plywood layers, making it a SMART material with self-monitoring of its stress. (C) 2021 Elsevier B.V. All rights reserved.**Accession Number:** WOS:000647444600007**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Galdun, Ladislav	AAU-6566-2021	
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047

**ISSN:** 0924-4247**eISSN:** 1873-3069**Record 3 of 15****Title:** The Design and Production of a Suitable Carrier for Microwires Used for Non-Contact Detection of Mechanical Strains**Author(s):** Al Ali, M (Al Ali, Mohamad); Kmet, S (Kmet, Stanislav); Platko, P (Platko, Peter); Bajzecerova, V (Bajzecerova, Viktoria); Zelenakova, M (Zelenakova, Martina)**Source:** SUSTAINABILITY **Volume:** 13 **Issue:** 2 **Article Number:** 477 **DOI:** 10.3390/su13020477 **Published:** JAN 2021**Abstract:** During the loading process, strain gauges connected to measuring devices are usually used to detect the strains of structural load-bearing members. Nowadays, newer and more sophisticated measurement methods are being developed. One of these involves the application of amorphous glass-coated microwires for non-contact detection of mechanical strains. This paper presents the results of research work aimed at finding a suitable carrier or transfer medium for such microwires. The identification of a suitable transfer medium was part of extensive theoretical and experimental research focusing on non-contact detection of mechanical strains based on amorphous glass-coated microwires. The results present an innovative and effective approach for sustainable practices in various fields of construction activity.**Accession Number:** WOS:000611741900001**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047
Ali, Mohamad Al	AAH-5275-2019	0000-0001-7866-8156
Platko, Peter		0000-0002-7508-884X
Zelenakova, Martina	E-6103-2014	0000-0001-7502-9586

**eISSN:** 2071-1050**Record 4 of 15****Title:** Hygrothermal performance of timber-concrete composite panels - theoretical investigation**Author(s):** Bajzecerova, V (Bajzecerova, Viktoria); Kormanikova, E (Kormanikova, Eva); Kanocz, J (Kanocz, Jan)**Edited by:** Kotrasova K; Kormanikova E; Kmet S**Source:** 4TH INTERNATIONAL SCIENTIFIC CONFERENCE STRUCTURAL AND PHYSICAL ASPECTS OF CONSTRUCTION ENGINEERING (SPACE 2019) **Book Series:** MATEC Web of Conferences **Volume:** 310 **Article Number:** 00038 **DOI:** 10.1051/mateconf/202031000038 **Published:** 2020**Abstract:** The concrete layer as a part of the timber-concrete composite (TCC) element makes it possible to maintain the accumulated heat and thus reduce the energy required for heating. Especially for buildings used for a sauna, swimming pools or wellness. In the TCC cross-section due to uneven thermal and humidity deformation of both materials, additional stresses occur. It can lead to the failure of partial cross-sections or composite connection. The aim of the research is to investigate the influence of changing humidity and temperature conditions of the environment on the composite adhesively bonded TCC panels without the influence of other phenomena such as mechanical stress or the effect of concrete shrinkage. The paper presents the results of the preliminary theoretical investigation before the realization of measurements on prepared specimens.**Accession Number:** WOS:000638061500038**Conference Title:** 4th International Scientific Conference on Structural and Physical Aspects of Construction Engineering (SPACE)**Conference Date:** NOV 13-15, 2019**Conference Location:** SLOVAKIA**Conference Sponsors:** Tech Univ Kosice, Civil Engrn Fac, Inst Struct Engrn, Dept Struct Mech, Slovak Soc Mech, Slovak Acad Sci

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047
Kormanikova, Eva	S-4465-2018	

ISSN: 2261-236X

**Record 5 of 15****Title:** ANALYSIS OF COMPOSITE ACTION OF VARIOUS MASS TIMBER STRUCTURAL PANELS WITH CONCRETE LAYER**Author(s):** Kanocz, J (Kanocz, Jan); Bajzecerova, V (Bajzecerova, Viktoria)**Source:** WOOD RESEARCH **Volume:** 63 **Issue:** 6 **Pages:** 1091-1099 **Published:** 2018

**Abstract:** In the presented paper composite actions of various mass timber panels with concrete layer are compared. The composite action of timber and concrete by grooves in wood and by adhesive was realized. In the frame of experimental investigation bending test of real scale composite panels with cross-laminated and nailed/glued vertical planks mass timber was performed. In the analysis, vertical mid-span deflection of tested panels was compared and also some technological aspects of their production were taken into account

**Accession Number:** WOS:000453515000016**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047
Kanocz, Jan	AAF-6925-2021	

ISSN: 1336-4561

**Record 6 of 15****Title:** Design methods of timber-concrete composite ceiling structure**Author(s):** Al Ali, M (Al Ali, M.); Bajzecerova, V (Bajzecerova, V.); Kvocak, V (Kvocak, V.)**Source:** MAGAZINE OF CIVIL ENGINEERING **Volume:** 73 **Issue:** 5 **Pages:** 88-95 **DOI:** 10.18720/MCE.73.8 **Published:** 2017

**Abstract:** Timber-concrete composite structural members are increasingly used in the case of restoration of wooden ceilings. In the other hand, their use also increases in the case of new buildings. Design methods of the composite structures have been evolving since their first use. This expressive evolution of design methods is related to extensive research in this area in last three decades. This paper presents basic information about realisation, experimental and numerical analysis of timber-concrete composite ceiling with nail connections. The design of the mentioned ceiling was realised according to the relevant standards and recommendations in that time. The paper also presents a comparison between the design results of this composite ceiling and deflections measured during experimental short term loading process with the currently widely used analytical calculation model, so called gamma-method. This method takes into account the joint compliance of the used nails. In addition, creep behaviour of used materials and concrete shrinkage were implemented in this calculation model. Comparison of the numerical and experimental results shows, that the current method better reflects the real stiffness of the ceiling structure. On the base of mentioned calculation model, the final deformation of the ceiling was also predicted.

**Accession Number:** WOS:000424432100008**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Kvocak, Vincent	AAA-1481-2020	
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047
Ali, Mohamad Al	AAH-5275-2019	0000-0001-7866-8156

ISSN: 2071-4726

eISSN: 2071-0305

**Record 7 of 15****Title:** Parameters of various timber-concrete composite connection systems**Author(s):** Bajzecerova, V (Bajzecerova, V.); Kanocz, J (Kanocz, J.)**Edited by:** Ali MA; Platko P**Source:** ADVANCES AND TRENDS IN ENGINEERING SCIENCES AND TECHNOLOGIES II **Pages:** 21-26 **Published:** 2017

**Abstract:** Analysis of shear composite connections is a part of extensive research of timber-concrete composite systems. In the first phase of the project, timber-concrete composite beams with a screwed composite connection were investigated. The next phase examined the composite deck system consisting of a vertically laminated nailed timber and concrete using a grooved connection. Finally, composite structural elements with a lightweight concrete and a timber deck system was realized using a special adhesive for wet concrete. In this paper three connection types with different connection stiffnesses are analyzed. To determine the shear parameters of the composite connections, short term shear tests were performed. An experimental estimation of mechanical parameters is presented and the results are finally compared and discussed.

**Accession Number:** WOS:000424002600004**Conference Title:** 2nd International Conference on Engineering Sciences and Technologies (ESaT)**Conference Date:** JUN 29-JUL 01, 2016**Conference Location:** SLOVAKIA**Conference Sponsors:** Tech Univ Kosice, Civil Engrn Fac, Univ Miskolc**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047
Kanocz, Jan	AAF-6925-2021	

ISBN: 978-1-315-39382-7; 978-1-138-03224-8

**Record 8 of 15****Title:** Bending Stiffness of CLT-Concrete Composite Members - Comparison of Simplified Calculation Methods**Author(s):** Bajzecerova, V (Bajzecerova, Viktoria)**Edited by:** Kormanikova E; Kotrasova K; Kmeay S**Source:** STRUCTURAL AND PHYSICAL ASPECTS OF CONSTRUCTION ENGINEERING **Book Series:** Procedia Engineering **Volume:** 190 **Pages:** 15-20 **DOI:** 10.1016/j.proeng.2017.05.301 **Published:** 2017

**Abstract:** Cross-laminated timber (CLT) is currently a highly efficient material for the bearing structures of timber buildings. The combination with concrete in composite cross-section disposes of many advantages. The paper analyses some of the available analytical calculation procedures for determining the bending resistance of these multilayer laminated panels. The aim is to assess their suitability for the determination of the resistance of composite CLT-concrete beams, where concrete and wooden layers are connected rigidly by adhesive. (C) 2017 The Authors. Published by Elsevier Ltd.

**Accession Number:** WOS:000416996800003

**Conference Title:** 3rd International Conference on Structural and Physical Aspects of Construction Engineering (SPACE)

**Conference Date:** NOV 09-11, 2016

**Conference Location:** SLOVAKIA

**Conference Sponsors:** Tech Univ Kosice, Civil Engn Fac, Inst Struct Engn, Dept Struct Mech, Slovak Soc Mech, Slovak Acad Sci

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047

ISSN: 1877-7058

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#### Record 9 of 15

**Title:** The Effect of Environment on Timber-Concrete Composite Bridge Deck

**Author(s):** Bajzecerova, V (Bajzecerova, Viktoria); Kanocz, J (Kanocz, Jan)

**Edited by:** Bujnak J; Vican J

**Source:** BRIDGES IN DANUBE BASIN 2016 - NEW TRENDS IN BRIDGE ENGINEERING AND EFFICIENT SOLUTION FOR LARGE AND MEDIUM SPAN BRIDGES **Book**

**Series:** Procedia Engineering **Volume:** 156 **Pages:** 32-39 **DOI:** 10.1016/j.proeng.2016.08.264 **Published:** 2016

**Abstract:** In the field of timber bridges progressive static structural solution is if the timber bearing members of the bridge deck are combined with concrete layer applying a shear connection to receive their composite action. The composite timber-concrete bridge deck comparing to the standard timber bridge deck has a higher rigidity, is more resistant to dynamic effects and has protected wooden part from external mechanical actions. The behavior of timber-concrete bridge deck is significantly influenced by the conditions of surrounding environment. In the presented paper, results of theoretical and experimental investigation of the effect of temperature and humidity changes of environment on the timber-concrete composite bridge deck will be presented. The applied analytical calculation model developed for analysis of long term behavior of timber-concrete elements influenced by the environment temperature and humidity will be introduced. In the experimental program, timber concrete members with different timber structural parts and various composite connections under short and long term loading were investigated. The environmental conditions, temperature and humidity, during the 5 year long test were continually registered. Comparison of theoretical and experimental results and some practical conclusions for design of timber concrete bridge deck will be finally presented. (C) 2016 The Authors. Published by Elsevier Ltd.

**Accession Number:** WOS:000383246700005

**Conference Title:** 9th International Conference on Bridges in Danube Basin

**Conference Date:** SEP 30-OCT 01, 2016

**Conference Location:** Zilina, SLOVAKIA

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Kanocz, Jan	AAF-6925-2021	
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047

ISSN: 1877-7058

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#### Record 10 of 15

**Title:** APPLICATION OF MAGNETIC MICROWIRES FOR SENSING STRESSES IN STRUCTURES

**Author(s):** Sabol, R (Sabol, Rudolf); Rovnak, M (Rovnak, Marian); Bajzecerova, V (Bajzecerova, Viktoria); Vojtanik, P (Vojtanik, Pavol); Varga, R (Varga, Rastislav)

**Source:** Journal of Electrical Engineering-Elektrotechnicky Casopis **Volume:** 66 **Issue:** 7 **Special Issue:** SI **Pages:** 164-167 **Published:** DEC 2015

**Abstract:** The possibility of application of glass-coated microwires for sensing stress in timber structure have been studied. The measurements of the switching field dependence on applied stress have been compared to the classical method of strain measurement - by the digital deformeter Huggenberger and resistance strain gauges. The test results obtained by using microwires proved to be consistent with those for which conventional strain gauges were used. However, it was found that the sensing is strongly influenced by the position of the excitation coil.

**Accession Number:** WOS:000389765100041

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047
Rovnak, Marian	AAH-5357-2019	
Varga, Rastislav	D-1601-2017	

ISSN: 1335-3632

eISSN: 1339-309X

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#### Record 11 of 15

**Title:** TIMBER - CONCRETE COMPOSITE ELEMENTS WITH VARIOUS COMPOSITE CONNECTIONS PART 3: ADHESIVE CONNECTION

**Author(s):** Kanocz, J (Kanocz, Jan); Bajzecerova, V (Bajzecerova, Viktoria)

**Source:** WOOD RESEARCH **Volume:** 60 **Issue:** 6 **Pages:** 939-952 **Published:** 2015

**Abstract:** In the presented paper theoretical and experimental investigations of two types of timber-concrete composite structural elements with lightweight concrete is described. For the first type of composite beams vertically laminated timber, for the second type cross-laminated timber was used. Composite connection between the timber and concrete special adhesive for wet concrete was applied. To determine the load displacement characteristics four point short and long term bending tests were carried out on the both type of composite beams. In middle span of the beams vertical displacements were gauged and also deformations in the beam's middle cross section were detected. To determine the shear parameters of the composite connection, short term shear tests were performed. The received results of bending tests with theoretical models for short and long term loading were compared respectively. In theoretical model the composite structure of cross-laminated timber was taken into account.

**Accession Number:** WOS:000368315300010

**Author Identifiers:**



Author	Web of Science ResearcherID	ORCID Number
Kanocz, Jan	AAF-6925-2021	
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047

ISSN: 1336-4561

#### Record 12 of 15

**Title:** PARAMETRICAL ANALYSIS OF LONG-TERM BEHAVIOUR OF TIMBER - CONCRETE COMPOSITE BENDED ELEMENTS

**Author(s):** Kanocz, J (Kanocz, Jan); Bajzecerova, V (Bajzecerova, Viktoria)

**Source:** WOOD RESEARCH **Volume:** 59 **Issue:** 3 **Pages:** 379-388 **Published:** 2014

**Abstract:** The article presents results of the parametric study in which influence of several properties of wood-concrete beams changes to their final resistance under long-term loading was investigated. Influence of concrete and wood strength changes, concrete shrinkage and effect of various environmental conditions was analysed. The changed parameters on two types of timber - concrete elements with different structural systems, on beam-type and plate-type element were studied. For the analysis mathematical model derived in analytical terms was used, which takes into account viscous-elastic creep of concrete and wood, mechano-sorptive creep of wood, creep of shear connection, concrete shrinkage and the changes of environment under the long term loading.

**Accession Number:** WOS:000350081100001

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Kanocz, Jan	AAF-6925-2021	
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047

ISSN: 1336-4561

#### Record 13 of 15

**Title:** TIMBER - CONCRETE COMPOSITE ELEMENTS WITH VARIOUS COMPOSITE CONNECTIONS PART 2: GROOVED CONNECTION

**Author(s):** Kanocz, J (Kanocz, Jan); Bajzecerova, V (Bajzecerova, Viktoria); Steller, S (Steller, Stefan)

**Source:** WOOD RESEARCH **Volume:** 59 **Issue:** 4 **Pages:** 627-638 **Published:** 2014

**Abstract:** Theoretical and experimental investigations of timber-concrete composite structural element consisting of the vertically nailed timber planks with fiber reinforced concrete on the top will be described. Within the experimental works four point short and long term bending tests were carried out on the composite beams. In middle of the beams span vertical displacements were gauged and also deformations in the beam's middle cross section were detected. To determine the shear parameters of the grooved composite connection, short term shear tests were performed. For theoretical analysis with short term loading the presented calculation model for rigid connection, with long term loading analytical model presented in "Part 1" of this paper was applied. Comparison and analysis of the received results will be presented.

**Accession Number:** WOS:000343372600010

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Kanocz, Jan	AAF-6925-2021	
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047

ISSN: 1336-4561

#### Record 14 of 15

**Title:** TIMBER- CONCRETE COMPOSITE ELEMENTS WITH VARIOUS COMPOSITE CONNECTIONS PART 1: SCREWED CONNECTION

**Author(s):** Kanocz, J (Kanocz, Jan); Bajzecerova, V (Bajzecerova, Viktoria); Steller, S (Steller, Stefan)

**Source:** WOOD RESEARCH **Volume:** 58 **Issue:** 4 **Pages:** 555-569 **Published:** 2013

**Abstract:** In this paper theoretical and experimental investigation of timber-concrete composite members acted by short and long term loading is presented. The analysis was focused to the beams with screwed composite connection. In the theoretical analysis for the short term loading the simplified elastic calculation model and for the long term loading analytical calculation model considering the most significant rheological behavior such as: viscous-elastic creep of concrete and wood, mechano-sorptive creep of wood, creep of shear connection, concrete shrinkage and strains due to thermal and relative humidity changes of environment was applied. The obtained theoretical results were compared with the experimentally measured data to confirm the validity of the short and long term analytical calculation model.

**Accession Number:** WOS:000329895300005

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Kanocz, Jan	AAF-6925-2021	
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047

ISSN: 1336-4561

#### Record 15 of 15

**Title:** Influence of rheological behaviour on load-carrying capacity of timber-concrete composite beams under long term loading

**Author(s):** Kanocz, J (Kanocz, J.); Bajzecerova, V (Bajzecerova, V.)

**Edited by:** Bujnak J; Vican J

**Source:** STEEL STRUCTURES AND BRIDGES 2012 - 23RD CZECH AND SLOVAK INTERNATIONAL CONFERENCE **Book Series:** Procedia Engineering **Volume:** 40 **Pages:** 20-25 **DOI:** 10.1016/j.proeng.2012.07.049 **Published:** 2012

**Abstract:** Wood and concrete are materials with different time dependent behaviour and both have different reactions to thermal and humidity changes of environment. In timber-concrete composite beams it results in generation of inelastic strains and redistribution of stress in cross-section. To determine load carrying capacity of composite wood-concrete element is possible according to Additions B of EN 1995-1-1, Design of Timber Structures. But this calculation technique does not consider the influence of rheological properties of composite materials as shrinkage, eventually bulking of materials, the influence of composite on creep coefficient and the influence of environmental changes. In this paper, the analytical calculation model of long term behavior of the timber-concrete composite beams is presented, which considers the most significant rheological phenomena such as: viscous-elastic creep of concrete and wood, mechano-sorptive creep of wood, creep of shear connection, concrete shrinkage and strains due to thermal and relative humidity changes of environment. This model is applicable for simple beams with linear material properties and allows determining the final deflection in the middle span and stressing distribution in the middle cross-section of the composite beams affected by long term loading. Applying the presented calculation model and results of experimental tests, the analysis of rheological behavior influence on long term load carrying capacity of timber-concrete beams is described as



well. (c) 2012 Published by Elsevier Ltd. Selection and review under responsibility of University of Zilina, FCE, Slovakia.

**Accession Number:** WOS:000314665300004

**Conference Title:** 23rd Czech and Slovak Conference on Steel Structures and Bridges

**Conference Date:** 2012

**Conference Location:** SLOVAKIA

**Conference Sponsors:** Slovak Assoc Steel Construct, Czech Construct Steelwork Assoc

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bajzecerova, Viktoria	L-3134-2014	0000-0001-9869-5047
Kanocz, Jan	AAF-6925-2021	

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Al Ali, M., Platko, P., Bajzecerova, V., Kmet, S., Galdun, L., Spegarova, A., Varga, R.  
55516059900;56035635000;56021870700;55920493900;55929062700;57222555663;7006563821;

Monitoring the strain of beech plywood using a bistable magnetic microwire (2021) Sensors and Actuators, A: Physical, 326, art. no. 112726, .  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85103792076&doi=10.1016%2fj.sna.2021.112726&partnerID=40&md5=13ff4a01cc204760d760b5a9d4205044>

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55516059900;55920493900;56035635000;56021870700;35249929800;

The design and production of a suitable carrier for microwires used for non-contact detection of mechanical strains (2021) Sustainability (Switzerland), 13 (2), art. no. 477, pp. 1-10. Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099122744&doi=10.3390%2fsu13020477&partnerID=40&md5=dd403feff2074546cd5cff7f6b73456>

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Kanócz, J., Bajzecerová, V., Karl'a, V.

6508181241;56021870700;57204961191;

Analysis of mechanical properties of I-beam with web from transparent wood (2020) IOP Conference Series: Materials Science and Engineering, 867 (1), art. no. 012017, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093946946&doi=10.1088%2f1757-899X%2f867%2f1%2f012017&partnerID=40&md5=b604078ecb3acbdce7aa00eee4f29993>

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Bajzecerová, V., Kanócz, J.

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