



#### Listă publicații

Ş.L. dr. ing. Elena Camelia MUŞAT

#### Teză de doctorat:

1. David, E.C., 2011: *Cercetări privind calitatea arborilor pe picior din localități, parcuri și aliniamente stradale*. Teză de doctorat. Universitatea Transilvania din Braşov. Conducător științific: prof. univ. dr. ing. Arcadie CIUBOTARU.

#### Proiect post-doctorat:

1. Muşat, E.C., 2015: *Cercetări privind evaluarea stabilității arborilor din localități*. Raport de cercetare științifică pentru post-doctorat, susținut în data de 16.10.2015. Universitatea Transilvania din Braşov. Conducător științific: prof. univ. dr. ing. Arcadie CIUBOTARU.

#### Articole ISI:

1. Iftime, M., Muşat, E.C.\*, Ciobanu, V.D., 2019. *Analysis of the working accidents recorded during the harvesting of the trees, between 2013 – 2018, for workers of the National Forest Administration, Romsilva, Romania*. In: *Journal of Environmental Protection and Ecology*, vol. 20(4), pp. 1717-1726. Factor de impact 2018 = 0,634. <http://www.jepe-journal.info/journal-content/vol-20-no-4>.
2. Dumitraşcu, A.E., Salca, E.A.\*, Mihail, L.A., Ciobanu, V.D., MUŞAT, E.C., 2018. *Inferential Statistics of Quercus Species in Veneer Cutting*. In: *BioResources*, vol. 13(3), pp. 6766-6777. Factor de impact 2018 = 1,202. <https://apps.webofknowledge.com/InboundService.do?customersID=RRC&mode=FullRecord&IsProductCode=Yes&product=WOS&Init=Yes&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&action=retrieve&SrcApp=RRC&SrcAuth=RRC&SID=E4NOfuVRnpLUEvyODg3&UT=WOS%3A000440506300140>.
3. Dumitraşcu, A.E., Muşat, E.C., Dumitraşcu, D.I., Ciobanu, V.D., Salcă, E.A.\*, 2017a. *Influence of sessile oak log characteristics on the efficiency in veneer cutting*. In: *BioResources*, vol. 12(2), pp. 2579-2591. Factor de impact 2017 = 1,321. <https://apps.webofknowledge.com/InboundService.do?customersID=RRC&mode=FullRecord&IsProductCode=Yes&product=WOS&Init=Yes&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&action=retrieve&SrcApp=RRC&SrcAuth=RRC&SID=E4NOfuVRnpLUEvyODg3&UT=WOS%3A000440506300140>.



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4. **Muşat, E.C.**, Salcă, E.A., Ciobanu, V.D., Dumitraşcu, A.E.\*, 2017b. *The Influence of Log Defects on the Cutting Yield of Oak Venner*. In: *BioResources*, vol. 12(4), pp. 7917-7930. Factor de impact 2017 = 1,321. <https://apps.webofknowledge.com/InboundService.do?customersID=RRC&mode=FullRecord&IsProductCode=Yes&product=WOS&Init=Yes&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com?action=retrieve&SrcApp=RRC&SrcAuth=RRC&SID=E4NOfuVRnpLUEvyODg3&UT=WOS%3A000422879900074>.
5. Scriba, C., **Muşat, E.C.\***, Salcă, E.A., Ciobanu, V.D., 2017. *Influence of energy willow crops on soil features in the case of a contaminated land*. In: *Journal of Environmental Protection and Ecology*, vol. 18(4), pp. 1403-1410. Factor de impact 2017 = 0,774. <https://apps.webofknowledge.com/InboundService.do?customersID=RRC&mode=FullRecord&IsProductCode=Yes&product=WOS&Init=Yes&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com?action=retrieve&SrcApp=RRC&SrcAuth=RRC&SID=E4NOfuVRnpLUEvyODg3&UT=WOS%3A000423283800012>.
6. **Muşat, E.-C.**, Salcă, E.-A.\*, Dinulică, F., Ciobanu, V.D., Dumitraşcu, A.-E., 2016a. *Evaluation of color variability of oak veneers for sorting*. În: *BioResources*, vol. 11(1), February 2016, pp. 573-584. Accession Number: WOS:000367732700047. Factor de impact 2016 = 1,334. Scor relativ de influenţă 2014 = 1,810. Doi: 10.15376/biores.11.1.573-584. <https://apps.webofknowledge.com/InboundService.do?customersID=RRC&mode=FullRecord&IsProductCode=Yes&product=WOS&Init=Yes&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com?action=retrieve&SrcApp=RRC&SrcAuth=RRC&SID=E4NOfuVRnpLUEvyODg3&UT=WOS%3A000367732700047>.
7. **Muşat, E.-C.**, Apăfăian, A.I, Ignea, G., Ciobanu, D.V., Iordache E., Derczeni, R.A., Spârchez, G., Vasilescu, M.M., Borz, S.A.\*, 2016b. *Time expenditure in computer aided time studies implemented for highly mechanized forest equipment*. In: *Annals of Forest Research*, vol. 59(1), pp. 129-144. Factor de influenţă 2016 = 0,741. Doi: 10.15287/afr.2015.473. <https://apps.webofknowledge.com/InboundService.do?customersID=RRC&mode=FullRecord&IsProductCode=Yes&product=WOS&Init=Yes&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com?action=retrieve&SrcApp=RRC&SrcAuth=RRC&SID=E4NOfuVRnpLUEvyODg3&UT=WOS%3A000381649500010>.





8. Ene, C., Ciobanu, V.D., Dumitraşcu, A.-E., **David, E.-C.**, Borz, S.A.\*, 2013. *Resource management of renewable energy of forest fuel in south-west forest districts of Romania*. În: *Journal of Environmental Protection and Ecology (JEPE)*, vol. 14(4), pp. 1794-1802. Factor de impact 2013 = 0,338. Factor de impact 2016 = 0,734. Scor relative de influenţă 2014 = 0,027. Record Number: 20153052143. [https://apps.webofknowledge.com/full\\_record.do?product=UA&search\\_mode=GeneralSearch&qid=11&SID=N1oCjUPW2m8KjgnBGHh&page=1&doc=1](https://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=11&SID=N1oCjUPW2m8KjgnBGHh&page=1&doc=1).

#### Articole ISI Proceedings:

1. Bitir, I., **Muşat, E.C.\***, Derczeni, R.A., Ciobanu, V.D., 2019. *The influence of the increased tonnage upon the superstructure of forest roads*. In: *Conference Proceedings of the 19<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2019*, vol. 19 – *Water Resources. Forest, Marine and Ocean Ecosystems*, issue 3.2, pp. 853-860. <https://www.scopus.com/record/display.uri?eid=2-s2.0-85073381929&origin=resultslist&sort=plf-f&src=s&st1=MUSAT&st2=E.C.&nlo=1&nlr=20&nls=count-f&sid=ee9e525eb46445537b76697965ff245c&sot=anl&sdt=aut&sl=41&s=AU-ID%28%22Mu%c5%9fat%2c+Elena+Camelia%22+56950885300%29&relpos=1&citeCnt=0&searchTerm>.
2. Greşiţă, C.I.\*, **Muşat, E.C.**, Maican, I., 2019. *Monitoring the behavior of the dam of a big water reservoir by geodetic methods*. În: *Conference Proceedings of the 19<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2019*, vol. 19, issue 1.4. *Science and Technologies in Geology, Oil and Gas Exploration, Water Resources, Forest Ecosystems*, pp. 261-268.
3. **Muşat, E.C.\***, Greşiţă, C.I., Maican, I., 2019a. *Analysis of transported volumes and unloading times of raw material used in manufacturing OSB boards*. În: *Conference Proceedings of the 19<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2019*, vol. 19, issue 1.4. *Science and Technologies in Geology, Oil and Gas Exploration, Water Resources, Forest Ecosystems*, pp. 335-342.
4. **Muşat, E.C.\***, Iancu, B.I., Derczeni, R.A., Ciobanu, V.D., 2019b. *Analysis of transport distances and wood volumes purchased by a woodworking company*. În: *Conference Proceedings of the 19<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2019*, vol. 19 – *Water Resources. Forest, Marine and Ocean Ecosystem*, issue 3.2, pp. 617-624. <https://www.scopus.com/record/display.uri?eid=2-s2.0->



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5. **Muşat, E.-C.\***, Ciubotaru, A., Ciobanu, V.D., 2014a. *The external defects and the particularities of the trees crowns located into the green areas of Braşov*. In: *Conference Proceedings of the International Multidisciplinary Scientific Geoconferences (SGEM 2014), 14<sup>th</sup> GeoConference on Water Resources. Forest, Marine and Oceanic Ecosystems*, vol. II, pp. 461-468.  
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6. **Muşat, E.-C.\***, Ciubotaru, A., Ciobanu, V.D., 2014b. *The particularities on the crowns for poplar trees located in alignments and forest*. In: *Conference Proceedings of the International Multidisciplinary Scientific Geoconferences (SGEM 2014), 14<sup>th</sup> GeoConference on Water Resources. Forest, Marine and Oceanic Ecosystems*, vol. II, pp. 485-492.  
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#### Articole BDI:

1. Derceni, R.A., Salcă, E.A., Ciobanu, D.V., Bitir, I., **Muşat, E.C.\***, Liampas, S.A., 2019. *Establishing criteria for calculating the tax/road tolling for vehicles used for timber transport on forest roads*. In: *Proceedings of the Biennial International Symposium "Forest and Sustainable Development", The 8<sup>th</sup> Edition*, pp. 161-170.  
[https://www.cabdirect.org/cabdirect/abstract/20193382878?q=\(MUSAT+E.C.\)](https://www.cabdirect.org/cabdirect/abstract/20193382878?q=(MUSAT+E.C.)).
2. **Muşat, E.C.**, Derceni, R.A., Bitir, I., Liampas, S.A., Ciobanu, V.D., 2019. *Analiza costurilor în cazul lucrărilor de drumuri executate în regie proprie sau cu terţi*. In: *Revista Pădurilor*, anul 134, nr. 1, pp. 37-50.
3. Afrăsinei, I.I., Cheţa, M., Talagai, N., **Muşat, E.C.**, Borz, S.A.\*, 2017. *Testarea capacităţii culturilor de salcie energetică de a acţiona ca bariere de sunet*. In: *Revista Pădurilor*, anul 132,





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4. **Muşat, E.C.\***, 2017: *Analysing the sound speed through the wood of horse chestnut trees (Aesculus hippocastanum L.)*. In: *Bulletin of the Transilvania University of Brasov. Series II – Forestry. Wood Industry. Agricultural Food Engineering*, vol. 10(59), no. 1, Special Issue, pp. 55-66. [https://www.cabdirect.org/cabdirect/abstract/20183030760?q=\(MUSAT+E.C.\)](https://www.cabdirect.org/cabdirect/abstract/20183030760?q=(MUSAT+E.C.)).
5. Vişan, J., Alexandru, V.M., Ciobanu, D.V., **Muşat, E.C.\***, 2017. *The impact of forest roads on the environment: A short review*. In: *Proceedings of the International Simposyum "Forest and Sustainable Development"*, Braşov, pp. 133-138. [https://www.cabdirect.org/cabdirect/abstract/20173192443?q=\(MUSAT+E.C.\)](https://www.cabdirect.org/cabdirect/abstract/20173192443?q=(MUSAT+E.C.)).
6. **Muşat, E.C.\***, Ciobanu, D.V., Antoniadă, C., Săceanu, S.C-tin., 2016a. *Solicitările provocate de transportul lemnului cu autovehicule de tonaj sporit şi portanţa drumurilor forestiere secundare*. În: *Revista Pădurilor*, nr. 1-2, pp. 88-96. [https://www.cabdirect.org/cabdirect/abstract/20163393095?q=\(MUSAT+E.C.\)](https://www.cabdirect.org/cabdirect/abstract/20163393095?q=(MUSAT+E.C.)).
7. **Muşat, E.C.\***, Ciobanu, V.D., Vişan, J., Antoniadă, C., Săceanu, S.C-tin., 2016b. *Analiza variantelor de structuri rutiere în contextul sporirii capacităţii portante a drumurilor forestiere*. În: *Revista Pădurilor*, nr. 3-4, pp. 91-99. [https://www.cabdirect.org/cabdirect/abstract/20173105757?q=\(MUSAT+E.C.\)](https://www.cabdirect.org/cabdirect/abstract/20173105757?q=(MUSAT+E.C.)).
8. Bereziuc, R., Alexandru, V., Ciobanu, V.\*, **Muşat, E.-C.**, Dumitraşcu, A.-E., Antoniadă, C., Vişan, J., 2015. *The density index of the forest road network managed by the Natinal Forest Administration (R.N.P.)*. In: *Proceedings of the International Conference "Forest and Sustainable Development"*, pp. 196-203. Record Number: 20153393002. [https://www.cabdirect.org/cabdirect/abstract/20153393002?q=\(MUSAT+E.C.\)](https://www.cabdirect.org/cabdirect/abstract/20153393002?q=(MUSAT+E.C.)).
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10. **Muşat, E.-C.\***, Ciubotaru, A., 2015. *Crown influence on the stability of trees: A short literature review*. In: *Proceedings of the International Conference "Forest and Sustainable Development"*, pp. 262-269. Record Number: 20153393011. [https://www.cabdirect.org/cabdirect/abstract/20153393011?q=\(MUSAT+E.C.\)](https://www.cabdirect.org/cabdirect/abstract/20153393011?q=(MUSAT+E.C.)).
11. **Muşat, E.C.\***, Ciubotaru, A., Muşat, G., Săceanu, S.C-tin., 2015. *Variation of slenderness ratio in black poplar (Populus nigra L.) road alignments*. In: *Bulletin of the Transilvania University of Brasov. Series II – Forestry. Wood Industry. Agricultural Food Engineering*, vol. 8(57), no. 2,



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12. **Muşat, E.C.\***, Alexandru, V.M., Ciobanu, V.D., Săceanu, S.C-tin., Antoniadă căs. Roman, C., Vişan, J., 2014. *The type and the extension of the degradations caused by the introduction in the timber transportation of the increased weight vehicles*. In: *Revista Pădurilor*, anul 129, nr. 5 – 6, pp. 38-43. Record Number: 20153160743.  
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13. Ciubotaru, A.\*, **David, E.C.**, Grapă, F., 2012. *Cercetări privind structura resturilor de exploatare*. In: *Revista Pădurilor*, nr. 5, anul 127, pp. 9-13. Record Number: 20133027402.  
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14. Ciubotaru, A.\*, **David, E.C.**, 2011. *Cercetări privind unele caracteristici ale nodurilor plopului negru (Populus nigra L.) din aliniamente*. In: *Revista Pădurilor*, nr. 6, anul 126, pp. 8-12. Record Number: 20123036918.  
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15. **David, E.C.\***, Ciubotaru, A., 2011. *Research concerning the number and the surface of the knots detected at black poplar (Populus nigra L.)*. In: *Bulletin of the Transilvania University of Brasov, Series II – Forestry. Wood Industry. Agricultural Food Engineering*, vol. 4(53), no. 2, pp. 13-18. Record Number: 20123387813.  
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16. **David, E.C.\***, Enache, L.N., 2011a. *Research concerning the characteristics of the knots from some forest species from green area of Brasov*. In: *Proceedings of the Biennial International Symposium „Forest and Sustainable Development”*, pp. 609-614. Record Number: 20123105556.  
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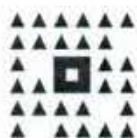




17. David, E.C.\*, Enache, L.N., 2011b. *Research concerning the frequency of the external defects for poplar (Populus nigra L.) from alignments*. In: *Bulletin of the Transilvania University of Brasov, Series II – Forestry. Wood Industry. Agricultural Food Engineering*, vol. 4(53), no. 1, pp. 21-28. Record Number: 20123415382.  
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18. Enache, L. N., Ciubotaru, A.\*, Câmpu, V. R., David, E. C., Dumitrache, R., 2011. *Research regarding the distribution of trees damages in mountain area*. In: *Proceedings of the Biennial International Symposium „Forest and Sustainable Development”*, pp. 627-632. Record Number: 20123105559.  
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#### Alte articole:

1. Muşat, E.C.\*, 2019. *A VIII-a ediție a Simpozionului Internațional „Forest and Sustainable Development”, Braşov, 25 – 27 octombrie 2018*. In: *Revista Pădurilor*, nr. 1, pp. 53-56.
2. Muşat, E.C.\*, 2018. *O excursie de studii deosebită...* In: *Revista Pădurilor*, nr. 3, anul 133, pp. 27-32.
3. Muşat, E.C.\*, 2018. *A VIII-a ediție a Simpozionului Internațional „Forest and Sustainable Development”*. In: *Newsletter, Universitatea Transilvania din Braşov*, nr. 79 - noiembrie 2018, p. 11.
4. Alexandru, V.M., Muşat, E.C.\*, 2017. *Doamna Prof.dr.ing. Valentina Doina Ciobanu împlineşte 70 de ani*. In: *Revista Pădurilor*, nr. 4, anul 132, pp. 57-58.



5. **Muşat, E.C.\***, 2015. *Profesor dr. ing. Valeria Maria Alexandru la 75 de ani*. In: *Revista Pădurilor*, anul 130, nr. 5-6, pp. 100-101.
6. Ciobanu, V., **Muşat, E.-C.\***, Pandrea, B.N., 2013. *Incendiile de pădure la nivelul judeţului Braşov*. In: *Meridiane Forestiere*, nr. 5, luna octombrie, pp. 28-29. [http://issuu.com/asociatia-forestierilor-asfor/docs/mf5\\_2013\\_e\\_book/28](http://issuu.com/asociatia-forestierilor-asfor/docs/mf5_2013_e_book/28).
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#### Articole B+

1. Iancu, B., Lunguleasa, A., **Muşat, E.**, Spîrchez, C., 2019. *Properties of resinoux wood species used in OSB technology*. In: *Recent Journal*, vol. 59, pp. 107-112.
2. **Muşat, E.C.\***, Ciubotaru, A., Száva, I., 2016: *A short review regarding the losses recorded in windfall*. In: *Annals of Faculty Engineering Hunedoara – International Journal of Engineering*, Tome XIV, fascicule 4, pp. 167-172.

#### Articole susţinute la conferinţe:

1. Bitir, I., **Muşat, E.C.\***, Derczeni, R.A., Ciobanu, V.D., 2019. *The influence of the increased tonnage upon the superstructure of forest roads*. Articol susţinut la: *19<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2019*. Section 14 – Forest Ecosystems, 28 June – 7 July, 2019, Albena, Bulgaria.
2. Greşiţă, C.I.\*, **Muşat, E.C.**, Maican, I., 2019. *Monitoring the behavior of the dam of a big water reservoir by geodetic methods*. Articol susţinut la: *19<sup>th</sup> International Multidisciplinary Scientific Geoconference SGEM 2019*, 9 – 11 December, 2019, Viena, Austria.
3. Iftime, M., **Muşat, E.C.\***, Tsioras, P.A., Ciobanu, V.D., 2019. *Analysis of the working accidents recordered during the harvesting of the trees, between 2013 – 2018, for workers of the National Forest Administration, Romsilva, Romania*. Articol susţinut la: *International U.A.B. – B.E.N.A. Conference Environmental Engineering and Sustainable Development*, 25-27 mai, 2017, Alba Iulia, România.
4. **Musat, E.C.**, Derczeni, R.A.\*, Barti, M.E., Dumitru-Dobre, C., 2019a. *Analysis of sound velocity through the wood of spruce trees lacated into a burned area*. Articol susţinut la: *International Symposium „Forest complex in the digital economy”*, dedicated to the 100<sup>th</sup> anniversary of the fundation of Mytishchi Branch of Bauman Moscow State Technical





University (ex. Moscow Forest Technical Institute – Moscow State Forest University), 2 – 5 December, 2019, Moscow, Russia.

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15. **Muşat, E.C.\***, Derczeni, R.A., Ciobanu, D.V., 2016b. *Research concerning the forest fires produces in Arges county, Romania*. Articol susţinut la: *International Symposium "Forest and Sustainable Development"*, 7-8 October, 2016, Braşov, Romania.
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19. **Muşat, E.-C.\***, Ciubotaru, A., Muşat, G., 2015a. *Research on the auxological parameters of the crowns of the poplar trees (Populus nigra L.) located into alignments*. Articol susţinut la: *The 14<sup>th</sup> International Symposium „Prospects for the 3<sup>d</sup> Millennium Agriculture*, 24-26 September 2015, Cluj-Napoca. University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania.
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## Cărţi

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## Contracte de cercetare ştiinţifică

1. Contractului de cercetare ştiinţifică „*Elaborarea normativului de întreţinere şi reparaţii la drumurile forestiere*”, contract înregistrat la Regia Naţională a Pădurilor – ROMSILVA, ca beneficiar, cu nr. 55/08.04.2013 şi la Universitatea Transilvania din Braşov, ca executant, cu nr. **4580/11.04.2013**. Membri: prof. univ. dr. ing. Rostislav BEREZIUC, prof. univ. dr. ing. Valeria ALEXANDRU, prof. univ. dr. ing. Valentina CIOBANU, prof. univ. dr. ing. Gheorghe IGNEA, şef. lucr. dr. ing. Adela Eliza DUMITRASCU, şef lucr. dr. ing. Alexandru Stelian BORZ, **dr. ing. Elena Camelia DAVID**. **Director contract anul 2013:** şef lucrări dr. ing. Adela – Eliza DUMITRASCU. **Directori contract anul 2014:** şef lucrări dr. ing. Stelian Alexandru BORZ şi prof. univ. dr. ing. Valentina CIOBANU. Valoare contract: 150 000 lei.
2. Contractului de cercetare ştiinţifică „*Studiu privind inventarierea stării reţelei de drumuri forestiere administrate de Regia Naţională a Pădurilor – ROMSILVA şi crearea unei baze de date pentru monitorizarea infrastructurii de transport forestier*”, contract înregistrat la Regia Naţională a Pădurilor – ROMSILVA, ca beneficiar, cu nr. 19/23.02.2015 şi la Universitatea Transilvania din Braşov, ca executant, cu nr. **1608/12.02.2015**. Membri: prof. univ. dr. ing. Valentina CIOBANU, conf. univ. dr. ing. Rudolf DERCZENI, conf. univ. dr. ing. Eugen IORDACHE, conf. univ. dr. ing. Stelian Alexandru BORZ, conf. univ. dr. ing. Mihai Daniel NIŢĂ şi **dr. ing. Elena – Camelia MUŞAT**. **Directori contract anul 2015:** prof. univ. dr. ing. Valentina CIOBANU şi **dr. ing. Elena – Camelia MUŞAT**. **Directori contract 2016:** conf. univ. dr. ing. Rudolf DERCZENI şi conf. univ. dr. ing. Eugen IORDACHE. Valoare contract: 200 000 lei.
3. Contract de cercetare ştiinţifică „*Elaborarea unei strategii de dezvoltare a reţelei de drumuri forestiere în pădurile administrate de RNP Romsilva şi crearea unei baze de date pentru monitorizarea lucrărilor de executat*”, contract înregistrat la Regia Naţională a Pădurilor – ROMSILVA, ca beneficiar, cu nr. 30/02.03.2017 şi la Universitatea Transilvania din Braşov, ca



- executant, cu nr. **2315/02.03.2017**. Membri: prof. univ. dr. ing. Stelian Alexandru BORZ, conf. univ. dr. ing. Eugen IORDACHE, **șef lucrări dr. ing. Elena – Camelia MUȘAT**, conf. univ. dr. ing. Mihai Daniel NIȚĂ și conf. univ. dr. ing. Viorela Marina MARCU. **Directori contract anii 2017 și 2018:** prof. univ. dr. ing. Stelian Alexandru BORZ, conf. univ. dr. ing. Eugen IORDACHE și **șef lucrări dr. ing. Elena Camelia MUȘAT**. Valoare contract: 150 000 lei.
4. Contract de cercetare științifică *„Asistență tehnică privind inventarierea stării rețelei de drumuri forestiere administrate de RNP-Romsilva și crearea unei baze de date pentru monitorizarea infrastructurii de transport forestier și pentru inventarierea stării obiectivelor de corectare a torenților din fondul forestier administrat de RNP-Romsilva și crearea unei baze de date pentru monitorizarea lucrărilor executate în acest scop”*, contract înregistrat la Regia Națională a Pădurilor – ROMSILVA, ca beneficiar, cu nr. 32/02.03.2017 și la Universitatea Transilvania din Brașov, ca executant, cu nr. **2387/03.03.2017**. Membri: prof. univ. dr. ing. Stelian Alexandru BORZ, conf. univ. dr. ing. Rudolf Alexandru DERCZENI, conf. univ. dr. ing. Mihai Daniel NIȚĂ și **șef lucrări dr. ing. Elena – Camelia MUȘAT**. **Directori contract pentru anul 2017:** prof. univ. dr. ing. Stelian Alexandru BORZ, conf. univ. dr. ing. Rudolf Alexandru DERCZENI, conf. univ. dr. ing. Mihai Daniel NIȚĂ și **șef lucrări dr. ing. Elena – Camelia MUȘAT**. Valoare contract: 50 000 lei.
5. Contract de cercetare științifică *„Cercetări privind stabilirea criteriilor de calcul a taxei / tarifului de peiaj pentru autovehiculele utilizate la transportul lemnului pe drumurile forestiere”*, contract înregistrat la Regia Națională a Pădurilor – ROMSILVA, ca beneficiar, cu nr. 29/02.03.2017 și la Universitatea Transilvania din Brașov, ca executant, cu nr. **2314/02.03.2017**. Membri: **șef lucrări dr. ing. Emilia Adela SALCĂ**, **șef lucrări dr. ing. Elena – Camelia MUȘAT**, prof. univ. dr. ing. Doina Valentina CIOBANU și conf. univ. dr. ing. Rudolf Alexandru DERCZENI. **Responsabili contract 2017:** **șef lucrări dr. ing. Emilia Adela SALCĂ**, conf. univ. dr. ing. Rudolf Alexandru DERCZENI și prof. univ. dr. ing. Doina Valentina CIOBANU. Valoare contract: 50 000 lei.
6. Contract de cercetare științifică *„Studiu comparativ privind execuția și reabilitarea drumurilor forestiere (regie proprie și terți)”*, contract înregistrat la Regia Națională a Pădurilor – ROMSILVA, ca beneficiar, cu nr. 31/02.03.2017 și la Universitatea Transilvania din Brașov, ca executant, cu nr. **2356/03.03.2017**. Membri: **șef lucrări dr. ing. Dorin Ion DUMITRAȘCU**, prof. univ. dr. ing. Doina Valentina CIOBANU, **șef lucrări dr. ing. Elena – Camelia MUȘAT**, conf. univ. dr. ing. Rudolf Alexandru DERCZENI și prof. univ. dr. ing. Stelian Alexandru BORZ. **Responsabili contract 2017:** **șef lucrări dr. ing. Dorin Ion DUMITRAȘCU**, **șef lucrări dr. ing.**





Elena Camelia MUŞAT şi prof. univ. dr. ing. Doina Valentina CIOBANU. Valoare contract: 50 000 lei.

#### Propuneri proiecte UEFISCDI:

1. 2016. Propunere PED. PN-III-P2-2.1-PD-2016. Soluţii de management forestier adaptate la schimbările climatice şi riscul la incendii de pădure. Acronim: PROCIF. **Muşat, E.C.** (director proiect).
2. 2019a. Propunere TE. PN-III-P1-1.1-TE-2019-1738. Sănătatea şi securitatea ocupaţională în sectorul forestier. Solicităările şi riscurile la care sunt supuşi fasonatorii mecanici. Domeniul de încadrare: Ştiinţele vieţii aplicate şi Biotehnologii. Acronim: SSM-FAS. Echipa: **Muşat, E.C. (coordonator)**, Câmpu, V.R., Ciocârlan, E., Iftime, M.D.
3. 2019b. Propunere TE. PN-III-P1-1.1-TE-2019-0989. Sistem de monitorizare satelitară a capacităţii pădurilor de atenuare a viiturilor rapide. Domeniul de încadrare: Ştiinţele vieţii aplicate şi Biotehnologii. Coordonator Niţă, M.D. Membri în echipa proiectului: Dutcă, I., **Muşat, E.C.** (membru în echipa proiectului).

#### Propunere invenţie 2014:

Titlul invenţiei: *Utilizarea geosinteticelor la consolidarea structurilor rutiere.*

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