

LISTA LUCRĂRILOR ȘTIINȚIFICE

1. Lucrări reprezentative

- 1.1. **Darabă, D.**(2007). *Remanufacturing – Opportunities and Barriers*, Published in Scientific Bulletin, Serie C, volume XXI, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, pag 165-170, Romania, Baia Mare, 2007, ISSN-1224-3264, <http://www.nordtech.ubm.ro/issues/2007/2007.01.25.pdf>.
- 1.2. Kallay, F., **Darabă, D.**(2007). *The Current Perception of Remanufacturing as an Industrial Activity*, (2007), Published in Scientific Bulletin, Serie C, volume XXI, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, pag. 303 -308, Romania, Baia Mare, 2007, ISSN-1224-3264, <http://www.nordtech.ubm.ro/issues/2007/2007.01.46.pdf>.
- 1.3. **Darabă, D.**, Alexandrescu, M., Cosma, M., (2008). *Remanufacturing – A Challenger for engineering*, Published in Scientific Bulletin, Serie C, volume XXII, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, pag. 135 -138, Romania, Baia Mare, 2008, ISSN 1224-3264. <http://www.nordtech.ubm.ro/issues/2008/2008.01.20.pdf>.
- 1.4. **Darabă, D.**, Dogariu, C., Anania, D. F.,(2008). *Determining the maximum speed borne by the elastic structure of a machine tool, previously its remanufacturing*, Published in Scientific Bulletin, Serie C, volume XXII, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, pag. 129-134, Romania, Baia Mare, ISSN 1224-3264. <http://www.nordtech.ubm.ro/issues/2008/2008.01.21.pdf>.
- 1.5. **Darabă, D.**, Cosma, M., Alexandrescu, M.,(2009). *Setting Up the Maximum Speed at which the Structural Elements of the Fus 25 Milling Machine Resist After Remanufacturing*, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, „Intelligent Manufacturing & Automation: Focus on Theory, Practice and Education”, ISI Scientific Proceedings Thomson Reuters, , pag. 1063-1064 Vienna, Austria, ISBN 978-3-901509-70-4, ISSN 1726-9679.
- 1.6. **Darabă, D.**, Ungureanu, N., Cotețiu, R., Novakova, J., (2009). *Aspect on the Analysis with the Finite Elements Method of the Machine Tools Structures regardig Remanufacturing*, Transactions of the VŠB, Technical University of Ostrava, Mechanical Series, No.1, vol. LV, ISBN 978-80-248-2051-4, ISSN 1210-0471, pag. 37-42. <http://www.degruyter.com/view/j/tvsb.>http://transactions.fs.vsb.cz/2009-1/1645Daraba.pdf>.
- 1.7. **Darabă, D.**, Dogariu., C., Alexandrescu, M., (2009). *Static Stress Performance analysis using the Finite Elements Method of the FUS 25 Milling Machine before Remanufacturing*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, University POLITEHNICA of Bucharest, Machine and Manufacturing Systems Department, pag. 55-58, Romania, Bucharest, Vol. 4, 2009, ISSN 1842-3183. www.icmas.eu>http://icmas.eu/Journal_archive_files/Vol4_2009_PDF/55-58_Daraba_216_FINAL.pdf.
- 1.8. **Darabă, D.** & Boca, G. D.,(2010). *Experimental Assessment of the Milling Machine Column Before Remanufacturing*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), pp. 0733-0734, Published by DAAAM International Vienna, Vienna, 2010, ISSN 1726-9679.

- 1.9. **Darabă, D.** (2014). *Static and Dynamic Verification of Machine Tools Before Remanufacturing, Monitoring Controlling and Architecture of Cyber Physical Systems*, Published in the volume *Applied Mechanics and Materials*, vol. 656, ISBN-13 978-3-03835-274-7, Trans Tech Publications Ltd. Switzerland, 2014, pp. 458-466, <http://www.scientific.net/AMM.656.458>.
- 1.10. **Daraba D,** Nasui, V. Ungureanu, N., (2015). *Theoretical Research for Determining the Static and Dynamic, Rigidity of the Machines before Drafting the Remanufacturing Project*, Published in the volume *Applied Mechanics and Materials, Innovative Manufacturing Engineering 2015*. vol. 809-810, ISBN 978-3-03835-663-9, pag.1010-1015, <http://www.ttp.net/978-3-03835-663-9/17.html>,

2. Teza de doctorat.

Titlul: *Studii și cercetări privind refabricarea echipamentelor tehnologice.*

Conducător de doctorat: Prof.univ.dr.ing. Eugen PAY dr. H.C.

Instituția: Universitatea de Nord din Baia Mare.

Data susținerii: 27.06.2008.

Data obținerii titlului: 04.11.2008.

3. Cărți

- 3.1 **Darabă, D.,** *Ingineria refabricării echipamentelor tehnologice*, Editura Univeristății de Nord, Baia Mare, ISBN 978-606--536-103-4.
- 3.2 **Darabă, D.,** *Tehnologii și echipamente de asamblare*, Editura U.T.Press, Cluj-Napoca, ISBN 978-606-737-092-8.
- 3.3 **Darabă, D.,** *Organizarea producției*, Editura U.Tpress, Cluj-Napoca, ISBN 978-606-737-091-1.

4. Articole publicate în reviste BDI și ISI

- 4.1.**Darabă, D.**(2007). *Remanufacturing – Opportunities and Barriers*, Published in Scientific Bulletin, Serie C, volume XXI, Fascicle: Mechanics,Tribology, Machine Manufacturing Technology, pag 165-170, Romania, Baia Mare, 2007, ISSN-1224-3264, <http://www.nordtech.ubm.ro/issues/2007/2007.01.25.pdf>.
- 4.2.Kallay, F., **Darabă, D.**(2007). *The Current Perception of Remanufacturing as an Industrial Activity*, (2007), Published in Scientific Bulletin, Serie C, volume XXI, Fascicle: Mechanics,Tribology, Machine Manufacturing Technology, pag. 303 -308, Romania, Baia Mare, 2007, ISSN-1224-3264, <http://www.nordtech.ubm.ro/issues/2007/2007.01.46.pdf>.
- 4.3.**Darabă, D.,** Alexandrescu, M., Cosma, M., (2008). *Remanufacturing – A Challenger for enginnering*, Published in Scientific Bulletin, Serie C, volume XXII, Fascicle: Mechanics,Tribology, Machine Manufacturing Technology, pag. 135 -138, Romania, Baia Mare, 2008, ISSN 1224-3264. <http://www.nordtech.ubm.ro/issues/2008/2008.01.20.pdf>.
- 4.4.**Darabă, D.,** Dogariu, C., Anania, D. F.,(2008). *Determining the maximum speed borne by the elastic structure of a machine tool, previonsty its remanufacturing*, Published in Scientific Bulletin, Serie C, volume XXII, Fascicle: Mechanics,Tribology, Machine Manufacturing

- Technology, pag. 129-134, Romania, Baia Mare, ISSN 1224-3264.
<http://www.nordtech.ubm.ro/issues/2008/2008.01.21.pdf>.
- 4.5. Alexandrescu, I. M., Cotețiu, R., Cotețiu, A., Cosma, M., Tiron, M., **Darabă, D.**, (2008). *Some Aspects Regarding Instantaneous Squeeze Force to the Narrow Radial Bearing Working under Hard Shocks*, Scientific Bulletin, Serie C, Volume XXII, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, pag 9-14, Romania, Baia Mare, 2008, ISSN-1224-3264.
<http://www.nordtech.ubm.ro/issues/2008/2008.01.01.pdf>.
- 4.6. Cosma, M., Alexandrescu, M., **Daraba, D.**, Cotetiu, R., (2008). *The Chatter Vibration During Ball Nose end Milling Operation on 15° sup 0° Workpiece Inclination Angle*, Published in Scientific Bulletin, Serie C, volume XXII, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, pag. 303 -308, Romania, Baia Mare, 2008, ISSN-1224-3264.
<http://www.nordtech.ubm.ro/issues2008.php>.
- 4.7. **Darabă, D.**, Cosma, M., Alexandrescu, M., (2009). *Setting Up the Maximum Speed at which the Structural Elements of the Fus 25 Milling Machine Resist After Remanufacturing*, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, „Intelligent Manufacturing & Automation: Focus on Theory, Practice and Education”, ISI Scientific Proceedings Thomson Reuters, , pag. 1063-1064 Vienna, Austria, ISBN 978-3-901509-70-4, ISSN 1726-9679.
- 4.8. Cosma, M., **Darabă, D.**, Alexandrescu, I. M., Diciuc, V., (2009). *Theoretical and Experimental Researches on 3-Axis Ball Nose End Milling*, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, „Intelligent Manufacturing & Automation: Focus on Theory, Practice and Education”, ISI Scientific Proceedings Thomson Reuters, Vienna, Austria, ISBN 978-3-901509-68-1, ISSN 1726-9679, pag. 1065-1066.
- 4.9. Alexandrescu, I. M.; Cotetiu, R.; Cotetiu, A.; Ungureanu, N.; Cosma, M., **Darabă, D.**, (2009). *Experimental Aspects Regarding Pressure Determination to the Narrow Sliding Radial Bearing ($L/D < 0,6$) Working under Hard Shocks*, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, „Intelligent Manufacturing & Automation: Focus on Theory, Practice and Education”, ISI Scientific Proceedings Thomson Reuters, Vienna, Austria, ISBN 978-3-901509-68-1, ISSN 1726-9679, pag. 1645-1646.
- 4.10. **Darabă, D.**, Ungureanu, N., Cotețiu, R., Novakova, J., (2009). *Aspect on the Analysis with the Finite Elements Method of the Machine Tools Structures regardig Remanufacturing*, Transactions of the VŠB, Technical University of Ostrava, Machanical Series, No.1, vol. LV, ISBN 978-80-248-2051-4, ISSN 1210-0471, pag. 37-42.
<http://www.degruyter.com/view/j/tvsb,>http://transactions.fs.vsb.cz/2009-1/1645Daraba.pdf>.
- 4.11. **Darabă, D.**, Dogariu., C., Alexandrescu, M., (2009). *Static Stress Performance analysis using the Finite Elements Method of the FUS 25 Milling Machine before Remanufacturing*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, University POLITEHNICA of Bucharest, Machine and Manufacturing Systems Department, pag. 55-58, Romania, Bucharest, Vol.4, 2009, ISSN 1842-3183.
www.icmas.eu>http://icmas.eu/Journal_archive_files/Vol4_2009_PDF/55-58_Daraba_216_FINAL.pdf.
- 4.12. Cosma, M., **Darabă, D.**, Pop, M., *Cross Section Study of the uncut Chip in 5 Axes Ball Nose end Milling for the second quadrant of the Tool Inclination*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, University POLITEHNICA of Bucharest,

- Machine and Manufacturing Systems Department, pag 187 -190, Romania, Bucharest, Vol. 4, ISSN1842-3183.
http://icmas.eu/Journal_archive_files/Vol4_2009_PDF/187190_Cosma_170.pdf.
- 4.13. **Darabă, D.** & Boca, G. D.,(2010). *Experimental Assessment of the Milling Machine Column Before Remanufacturing*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), pp. 0733-0734, Published by DAAAM International Vienna, Vienna, 2010, ISSN 1726-9679.
- 4.14. Boca, G. D. & **Daraba, D.**, (2010). *A Solution to Improve Quality Products*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia, ISSN 1726-9679, ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), pp. 0907-0908, Published by DAAAM International Vienna, Vienna, 2010, ISSN 1726-9679.
- 4.15. Alexandrescu, I.M., Cotețiu, R.I, Cotețiu, A.G., **Darabă, D.**, (2012). *Experimental Results Regarding Lubricant Film Thickness to the Radial Bearing with HD Lubrication*, Published in Scientific Bulletin, Serie C, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, Volume 2012, No. XXVI, pag. 2-6. 2012, ISSN 1224-3264.
http://www.nordtech.ubm.ro/issues/2012/BSSC_v2012_issXXVI_2to6.pdf.
- 4.16. Alexandrescu, M., Cotețiu, R., Cotețiu, A., Ungureanu N., **Darabă, D.**, (2013). *Experimental Results Regarding Lubricant Film Thickness to the Narrow Sliding Radial Bearing Working under Hard Shocks*, Published in Scientific Bulletin, Serie C, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, Volume 2013, No. XXVII, pag. 2-5, Romania, Baia Mare, 2013,ISSN1224-3264.
http://www.nordtech.ubm.ro/issues/2013/BSSC_v2013_issXXVII_2to5.pdf.
- 4.17. **Darabă, D.** (2014). *Static and Dynamic Verification of Machine Tools Before Remanufacturing*, Monitoring Contolling and Architecture of Cyber Physical Systems, Published in the volume Applied Mechanics and Materials, vol. 656, ISBN-13 978-3-03835-274-7, Trans Tech Publications Ltd. Switzerland, 2014, pp. 458-466 ,
<http://www.scientific.net/AMM.656.458>.
- 4.18. **Daraba D**, Nasui, V. Ungureanu, N., (2015). *Theoretical Research for Determining the Static and Dynamic, Rigidity of the Machines before Drafting the Remanufacturing Project*, Published in the volume Applied Mechanics and Materials, Innovative Manufacturing Engineering 2015. vol. 809-810, ISBN 978-3-03835-663-9, pag.1010-1015,
<http://www.ttp.net/978-3-03835-663-9/17.html>, <http://www.scientific.net/AMM.809-810.1010>, DOI 10.4028/www.scientific.net/AMM.809-810.1010.
- 4.19. **Daraba, D.**, (2015). *Analysis of the Elastic System of Machine-Tools before Remanufacturing*, SCIENTIFIC BULLETIN, Serie C, Volume XXIX, Fascicle Mechanics, Tribology, Machine Manufacturing Technology, ISSN 1224-3264, 2015. pag. 26-28.
http://www.nordtech.ubm.ro/issues/2015/BSSC_v2015_issXXIX_26to28.pdf.
- 4.20. Nasui, V., Banica, M., **Daraba, D** ,(2015). *Dynamic and Positioning Performances of Linear Electromechanical Actuator* (2015), Published in the volume Applied Mechanics and Materials-Innovative Manufacturing Engineering 2015, vol. 809-810, ISBN 978-3-03835-663-9, pag. 682-687, <http://www.ttp.net/978-3-03835-663-9/12.html>, <http://www.scientific.net/AMM.809-810.682>, DOI 10.4028/www.scientific.net/AMM.809-810.682.

- 4.21. Ungureanu, N., **Daraba, D.**, Moraru, R. I., (2015). *Health and Safety in Maintenance Activities*, ACTA Universitatis Cibiniensis–Technical series, Vol. LXVI, 2015, DOI: 10.1515/aucts-2015-0052. <http://www.degruyter.com/view/j/aucts.2015.66.issue-1/aucts-2015-0052/aucts-2015-0052.xml>.
- 4.22. M Alexandrescu, R Cotetiu, N Ungureanu, **D Daraba.**, (2016). Experimental Results Regarding the Lubricant Film Thickness to the Radial HD Working Bearing Under Hard Shocks, Innovative Ideas in Science IIS2015, Publication in the journal “IOP Conference Series: Materials Science and Engineering” (acceptată pentru publicare).

5. Lucrări științifice publicate în volumele unor conferințe internaționale de specialitate

- 5.1. **Darabă, D.**, *Remanufacturing–Approaching ways*, (2008). MicroCAD 2008 International Scientific Conference, Section K: Machine and Construction Design, University of Miskolc, 2008, ISBN 978-963-661-812-4, pag. 13-18.
- 5.2. **Darabă, D.**, (2008) *Analyses of technological equipment structural elements for remanufacturing using the finite element method*, Proceedings of MicroCAD 2008 International Scientific Conference, Section K: Machine and Construction Design, University of Miskolc, 2008, ISBN 978-963-661-812 - 4, pag.19-24.
- 5.3. **Darabă, D.**, Cotețiu, R., Ungureanu, N., Alexandrescu, M., (2008), *Experimental Determination of own Vibration Mode Machine Tools Before Remanufacturing*, International Scientific Conference for PhD Students, University of Žilina, Slovacia, May 2008. ISBN 978-80-89276-11-0, pag.52-57.
- 5.4. Alexandrescu, M., Cotețiu, R., Ungureanu, N., **Darabă, D.**, Cosma, M., (2008). *Pressure Distribution to the Narrow Sliding Radial Bearing Working under Hard Shocks*, International Scientific Conference for PhD Students, University of Žilina, May 2008, ISBN 978 -80-8927 6-11-0, pag. 9 -12.
- 5.5. Cotetiu, A., Cotetiu, R., Nasui, V., Alexandrescu, M., **Daraba, D.**, (2008). *Automatic Adjustment Solution, with Monostable Fluidic Element, for the Advance Force at the Pneumatic Rotating Hammer Drills Based on the Atlas Copco Hydraulic Schema*, 9th International Scientific Conference, Technical University of Košice, Faculty of Manufacturing Technologies with a seat in Prešov, 2008, ISBN 978-80-553-0044-3, pag. 370-374.
- 5.6. **Darabă D.**, (2009) *Experimental Determination of Own Vibration mode of Machine Tools*, Published in Scientific Bulletin, Serie C, Volume XXIII, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, The 9th Edition International Multidisciplinary Conference, pag. 107 – 110, Romania, Baia Mare, 2009, ISSN-1224-3264.
- 5.7. Alexandrescu, M., Cotețiu, R., Cotețiu, A., **Darabă, D.**, (2009), *Spindle Rotation Influence Concerning the shock Amplitude of Radial bearings with HD Lubrication*, Published in Scientific Bulletin, Serie C, Volume XXIII, Fascicle: Mechanics, Tribology,

- Machine Manufacturing Technology, The 9th Edition International Multidisciplinary Conference, pag. 9-12, Cluj-Romania, Baia Mare, 2009, ISSN-1224-3264.
- 5.8. **Darabă, D.**, Cosma, M., Alexandrescu, M.I., (2010), *Some Aspects on the Design of the Technological Equipment, in Order to be Remanufacturing*, Proceedings of The 8th Edition, The International Conference of the Carpathian Euro-Region Specialists in Industrial Systems, Nord University of Baia Mare, Faculty of Engineering, Editura Universitatii de Nord, ISBN 978-606-536-094-5, pag. 63 – 68, May 12 – 14.
- 5.9. Alexandrescu, M., Cotețiu, R., Cotețiu, A., **Darabă, D.**, (2010), *Issues Concerning the influence of Revolutions and Static and Dynamic Loading on a Radial HD Bearing*, Nord University of Baia Mare, Faculty of Engineering, Proceedings of the 8th Edition, The International Conference of the Carpathian Euro-Region Specialists in Industrial Systems, Ed. Universitatii de Nord, ISBN 978-606-536-094-5, pag. 7–12, May 12–14.
- 5.10. Alexandrescu, M., Cotețiu, R., Cotețiu, A., Ungureanu N., **Darabă, D.**, (2011) *Aspects of the Behavior Lubricant Film to Dynamic Stress at a Radial Bearing with HD Lubrication*, Nord University of Baia Mare, Faculty of Engineering, The 9th Edition International Multidisciplinary Conference, Editura Bessenyei Publishing House Nyiregyhaza, ISBN 978-615-5097-18-8, pag. 7 – 12, May 19– 21.
- 5.11. **Darabă, D.**, (2013). *Optimizing Investment Costs for Production Systems with Discontinuous Operation Mode*, Technical University of Cluj-Napoca North University Center at Baia Mare, The 9th International Conference Applied Mathematics, September 25-28, pag. 77– 78.
- 5.12. **Darabă D.**, (2014) *Optimizing Waste Costs in Production Management*, 10th International Conference of Applied Mathematics, Proceeding 2nd Mini Symposium on Mathematical Modelling with Application in Economics, North Center University of Baia Mare, pag.36-41, ISBN 978-606-93094-8-3d.
<https://drive.google.com/file/d/0B4MKW7dTSmB5OE9FMTZZWHBKaEk/view>.
- 5.13. Alexandrescu, I.M., Cotețiu, A., **Darabă, D.**, (2016). *Correlations Regarding Lubricant Film Thickness to the Narrow Sliding Radial Bearing Working under Hard Shocks*, The 11th edition International Conference of the Carpathian Euro-Region's Specialists in Industrial Systems, Baia Mare, 2016.
- 5.14. Alexandrescu, I.M., Cotețiu, R.I., **Darabă, D.**, (2016) *Theoretical and experimental correlations about the instantaneous carrying force and pressure distribution in the case of the narrow sliding radial bearing under hard shocks*, The 13th International Conference on Tribology ROTRIB'16, September 22-24, 2016 – Galați, ROMANIA – acceptată.

6. Lucrări publicate în buletine și jurnale științifice neindexate

- 6.1. **Darabă, D.**, (2004), *Aspecte ale eficienței reutilizării cu echipamente tehnologice refabricate sau modernizate*, În: Buletin Științific Management Tehnologic, Universitatea de Nord din Baia Mare, 2004, anul I, Numărul 1, ISSN 1584- 7306, pag. 61-66.

- 6.2. **Darabă, D.**, (2005), *Refabricarea – activitate industrială puțin cunoscută*, În: Buletin Științific Management Tehnologic, Universitatea de Nord din Baia Mare, 2005, anul II, Numărul 1, ISSN 1584- 7306, pag.73-78.
- 6.3. **Darabă, D.**, Cotețiu, R., Cotețiu, A., Ungureanu, N., Alexandrescu, M., Cosma, M.,(2008), Consideration on the Machine Tools Dynamic system, in the Context of Remanufacturing, În: Journal CA Systems in Production Planning, Nr. 1, Vol. 9, ISSN 1335-3799, pag. 27-29.
- 6.4. Alexandrescu, M., Cotețiu, R., Cotețiu, A., Ungureanu, N., **Darabă, D.**, Cosma, M., (2008). *The Dinamic Circumferential Pressure Distribution to the Sliding Radial Bearing in the case of huge Challenging Working*, În: Journal CA Systems in Production Planning, Nr. 1, Vol. 9, 2008, ISSN 1335-3799, pag.5-8.
- 6.5. Cotețiu, R., Cotețiu, A., Alexandrescu, M., **Darabă, D.**, Ungureanu, N., (2008), Comparative Analysis of Theoretical and Experimental Values of Rolling Worm Gears Efficiency, În: Journal CA Systems in Production Planning, Number. 1, Vol. 9, 2008, ISSN 1335 -3799, pag. 21-24.
- 6.6. Cosma, M., Cotețiu, R., Alexandrescu, M., **Darabă, D.**, (2008), *Considerations Concerning the Undeformed chip in ball nose end Milling*, Tehnickă Universita Košiciach, Prešov, Faculty of Manufacturing Technologies with a seat of in Prešov, 2008, ISBN 978-80-553-0044-3, pag. 35-40.
- 6.7. Alexandrescu, M.I.,Cotețiu, R., Cotețiu, A., Cosma, M., **Darabă, D.**, Tiron, M., Theoretical and Experimental Aspect Refarding Instantaneous Squeeze Force in the Case of the Narrow Sliding Radial Bearing, Tehnickă Universita Košiciach, Prešov, Faculty of Manufacturing Technologies with a seat of in Prešov, 2008, ISBN 978-80-553-0044-3, pag. 352- 357.
- 6.8. **Darabă, D.**, Cotetiu, R., Cotetiu, A., Ungureanu, N.,(2008). *The Remanufacturing Machine and the Analysis of the New Elastic System*, Research Reports Project CII-SK-0030-03-0708, From Preparation to Development, Implementation and Utilisation of Joint Programs in Study area of Production Engineering Contribution to Higher Flexibility and Mobility of Students in Central European Region, System Equipment Process, CA Systems and Technologies, Cracow, 2008, pg.53-56, ISBN 978-83-7242-418-5.

7. Contracte de cercetare – director

- 7.1. Contract nr. 1292/16.06.2009 . Beneficiar: Întreprinderea Montaj Instalații SA Baia Mare(CÎF RO 2945191) – *Studii privind reamplasarea echipamentelor tehnologice în vederea optimizării fluxurilor de fabricație la atelierul de confecții metalice al SC IMI SA din Baia Mare*. Valoarea contractului 1200 lei.
- 7.2. Contract nr. 858 din 06.04.2011. Beneficiar: TIR 2000 SRL din Cluj Napoca, (CÎF RO 13126311) – *Studii și cercetări privind optimizarea activității de transport pe baza teorie drumurilor optime*. Valoarea contractului 2500 lei.

- 7.3. Contract nr. 285/09.02.2012. Beneficiar: TAPARO SA din Târgu Lăpuș (CÎF RO 17048267) – *Studii privind organizarea producției în vederea trecerii de la producția clasică a canapelei Klippan la varianta cu structură din poliuretan*. Valoarea contractului 1500 lei.
- 7.4. Contract nr. 286/09.02.2012. Beneficiar: TAPARO SA din Târgu Lăpuș (CÎF RO 17048267) – *Organizarea activității de producției la SC TAPARO SRL în vederea producerii structurii metalice pentru canapeaua Klippan*. Valoarea contractului 1500 lei.
- 7.5. Contract nr. 1751/28.07.2015. Beneficiar: Intermetal S.R.L. Baia Mare.(C.Î.F. RO 17366724) *Studii și cercetări aplicative privind optimizarea procesului tehnologic de debitare cu plasmă a pieselor cu contur complicat*. Valoarea contractului 25000 lei.

8. Granturi/contracte de cercetare – membru în echipa de cercetare

- 8.1. Contract nr. 282/09.02.2012. Beneficiar: TAPARO SA, Târgu Lăpuș (C.Î.F. RO 17048267). *Proiectarea matriței de injectare-turnare a reperelor ramei canapelei Klippan din poliuretan*. Valoarea contractului 2000 lei.
- 8.2. Contract nr. 283/09.02.2012. Beneficiar: TAPARO SA Târgu Lăpuș Lăpuș (C.Î.F. RO 17048267). *Optimizarea construcției ramei canapelei Klippan SO2 KD NGS din repere din poliuretan rigid*. Valoarea contractului 2000 lei.
- 8.3. Project number 3-007/2014. UTILISATION OF GREEN CHEMICALS IN NON-ENERGY EXTRACTIVE INDUSTRIES: *Preparation of modified nanofibrillar celluloses (NFC) for flotation, flocculation and dewatering, and water purification in mining industry (CELMIN) CELMIN, Network on the Industrial Handling of Raw Materials for European Industries, CCCDI-UEFISCDI*. Valoarea grantului 75000 euro.
- 8.4. Contract nr. 2735/19.10.2015. Beneficiar: Privat Silviu Zetea S.R.L. Medieșu Aurit, jud. Satu Mare. *Tehnologii noi cu privire la eliminarea compușilor nedorți (toxici) rezultați din procesul de fermentare (filtre ceramice)- Cercetări privind realizarea filtrelor ceramice prin sinterizare*, Valoarea contractului 44000 lei.
- 8.5. Contract nr. 291/08.02.2016, Beneficiar: Universal Alloy Corporation Europe SRL (C.Î.F. 23000336). *Cercetari privind creșterea eficienței la operațiile de prelucrare pe mașini-unelte cu comanda numerică în cadrul Universal Alloy Corporation Europe SRL*. Valoarea contractului 63700 lei.

9. Contracte pentru servicii de formare profesională – membru în echipă

- 9.1. Contract nr. 2807/20.10.2011. Beneficiar: Universal Alloy Corporation Europe. SRL. *Formator pentru Programul de formare profesionala in calificarea de Operator masini-unelte cu comandă numerică, cod. N.C/COR 8211.2.1*. Valoarea contractului 40000 lei.
- 9.2. Contract nr. 219/17.08.2012. Beneficiar: Universal Alloy Corporation Europe. SRL. *Formator pentru Programul de formare profesionala in calificarea de Operator masini-unelte cu comandă numerică, cod. N.C/COR 8211.2.1*. Valoarea contractului 38000 lei.

- 9.3 Contract nr. 904/29.04.2013. Beneficiar: Universal Alloy Corporation Europe. SRL. *Formator pentru Programul de formare profesionala in calificarea de Operator masin-unelte cu comandă numerică , cod. N.C/COR 8211.2.1. Valaorea contractului 35000 lei.*
- 9.4. Contract nr. 1916/03.09.2013. Beneficiar: Universal Alloy Corporation Europe. SRL. *Formator pentru Programul de formare profesionala in calificarea de Operator masin-unelte cu comandă numerică, cod. N.C/COR 8211.2.1. Valaorea contractului 35000 lei.*
- 9.5 Contract nr. 823/08.04.2014. Beneficiar: Universal Alloy Corporation Europe. SRL. *Formator pentru Programul de formare profesionala in calificarea de Operator masin-unelte cu , comandă numerică cod. N.C/COR 8211.2.1. Valaorea contractului 35000 lei.*
- 9.6. Contract nr. 1748/22.08.2014. Beneficiar: Universal Alloy Corporation Europe. SRL. *Formator pentru Programul de formare profesionala in calificarea de Operator masin-unelte cu comandă numerică , cod. N.C/COR 8211.2.1. Valaorea contractului 35000 lei.*
- 9.7. Contract nr. 2785/2010.2015. Beneficiar: Universal Alloy Corporation Europe. SRL. *Formator pentru Programul de formare profesionala in calificarea de Operator masin-unelte cu comandă numerică, cod. N.C/COR 8211.2.1. Valaorea contractului 40000 lei.*
- 9.8. Proiect POSDRU/164/2.3/S/13994, cofinanțat din Fondul Social European prin POSDRU 2007-2013 și bugetul statului “AEROCALIFICARE-Competitivitate și sustenabilitate în sectorul aeronautic prin calificarea profesională inovativă”. Expert perioada scurtă. Perioada: 12.01.2015 – 22.10.2015.

21.06.2016

Șef luc. dr. ing., ec. Dinu DARABĂ

