

LISTA DE LUCRĂRI

1⁰ Teza de doctorat

T1. Deac Cristian-Valeriu, *Contribuții la dezvoltarea tehnologică a topirii și turnării unor materiale metalice utilizate în tehnica dentară*, Teză de doctorat (domeniul Știința și Ingineria Materialelor), Universitatea "Lucian Blaga" din Sibiu, 168 pg., conducător științific prof.dr.ing. Ilie Isarie, 2003.

2⁰ Cărți publicate (Ca, Cb, Cc), îndrumare publicate (I1, I2 etc.)

a) Cursuri, manuale

C1. Deac Cristian – *Materials Science and Engineering, vol. 1*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 978-606-12-1207-1, 210 pg., 2015

C2. Deac Cristian – *Studiul materialelor*, Ediția a 2-a, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 978-606-12-0905-7, 337 pg., 2014

C3. Deac Cristian – *Studiul materialelor*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 973-651-972-4, 346 pg., 2004

C4. Deac Valeriu, Petrescu Valentin, Deac Cristian, *Știința materialelor*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 973-651-150-2, 212 pg., 2001

b) Monografii

M1. Deac Cristian – *Characteristics and application of technical materials (2nd Edition)*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 978-606-12-1824-0, 201 pg., 2020

M2. Deac Cristian – *Characteristics and application of technical materials*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 978-606-12-1488-4, 145 pg., 2017

M3. Deac Cristian - *Managementul deșeurilor solide*, Ediția a 2-a, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 978-606-12-1377-1, 244 pg., 2016

M4. Deac Cristian - *Managementul deșeurilor solide*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 978-606-12-0626-1, 295 pg., 2013

M5. Deac Valeriu, Mițaru Mircea, Deac Cristian, Bibu Marius, *Turnarea titanului în protetica dentară*, Editura Universității din Sibiu, Sibiu, ISBN 973-95604-4-9, 148 pg., 1995

c) Îndrumătoare

I1. Deac Cristian - *Studiul metalelor: metalografie*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 973-739-193-4, 202 pg., 2005

I2. Deac Valeriu, Deac Cristian – *Metalografie*, Editura Universității din Sibiu, Sibiu, ISBN 973-651-028-1, 182 pg., 1999

3^o Articole/studii publicate

a) în reviste/volume de conferințe indexate ISI

ISIR1. Oleksik V., Pascu A., **Deac C.**, Fleacă R., Bologa O., Racz G., *Experimental study on the surface quality of the medical implants obtained by incremental forming*. International Journal of Material Forming, Springer-Verlag France, Vol. 3, Suppl. 1, ISSN 1960-6206, DOI 10.1007/s12289-010-0922-x, p. 935-938, 2010 (indexat ISI, Scopus)

ISI1. Deac C., Tarnu L., *Considerations on the role of modernizing the road infrastructure in the prevention of road accidents*. MATEC Web of Conferences, vol. 290, 06004, 8 pg., ISSN 2261-236X, <https://doi.org/10.1051/mateconf/201929006004>, 2019, indexat WoS, Scopus.

ISI2. Tarnu L., Deac C., *Analysis of the Road Risk on the National Road 7 Sector of the Olt River Gorge, between Talmaciu and Calimanesti, for the Years 2011-2018*. MATEC Web of Conferences, vol. 290, 06005, 5 pg., ISSN 2261-236X, <https://doi.org/10.1051/mateconf/201929006005>, 2019, indexat WoS, Scopus.

ISI3. Tarnu L., Gligor A., Deac C., *Analysis of the evolution of pollution indicators in a crossroads area of Sibiu, Romania*, MATEC Web of Conferences, vol. 178, 09013, 6 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201817809013>, 2018, indexat WoS, SCOPUS.

ISI4. Deac C., Gligor A., Tarnu L., *Considerations on determining the castability of dental casting alloys*, MATEC Web of Conferences, vol. 178, 04009, 6 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201817804009>, 2018, indexat WoS, SCOPUS.

ISI5. **Deac C.**, Bibu M., *Analysis of the Road Traffic-Induced Pollution in Two Areas of Sibiu, Romania*, MATEC Web of Conferences, vol. 121, 10002, 9 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201712110002>, 2017, indexat ISI Proceedings, SCOPUS

ISI6. Gligor A., **Deac C.**, Bibu M., *Computer-aided study of the gas flow within a natural gas storage and the associated collection network*, MATEC Web of Conferences, vol. 121, 09005, 10 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201712110002>, 2017, indexat ISI Proceedings, SCOPUS

ISI7. **Deac C.**, Barbulescu A., Gligor A., Bibu M., Petrescu V., *Studies concerning the decontamination of hydrocarbons polluted soil areas using bioremediation techniques*, Materials Science and Engineering vol. 161, no. 012088, ISSN 0921-5093, DOI: <https://doi.org/10.1088/1757-899X/161/1/012088>, Proceedings of the International Conference „INNOVATIVE MANUFACTURING ENGINEERING & ENERGY”, Kallithea Chalkidiki, Greece, 2016, indexat ISI Proceedings.

ISI8. Gligor A., Petrescu V., **Deac C.**, Bibu M., *Determining the explosion risk level and the explosion hazard area for a group of natural gas wells*, IOP Conference Series: Materials Science and Engineering vol. 161, no. 012089, ISSN 0921-5093, DOI: <https://doi.org/10.1088/1757-899X/161/1/012089>, Proceedings of the International Conference „INNOVATIVE MANUFACTURING ENGINEERING & ENERGY”, Kallithea Chalkidiki, Greece, 2016, indexat ISI Proceedings.

ISI9. Tera Melania, **Deac Cristian**, Oleksik Valentin, Bologa Octavian, Breaz Radu, Biriș Cristina, *Comparative Study by Numerical Analysis on the Formability of Deep-Drawn Tailor-Welded Blanks*, Advanced Materials Research Vols. 463-464, p. 582-586, 5 pg., Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.463-464.582, 2012, (indexat ISI Proceedings)

ISI10. Gligor A., Oleksik V., Petrescu V., **Deac C.**, Huidan A.S., *Using the Finite Element Method in Teaching Students about the Phenomena Occurring at the Flow of Methane Gas through Pipes and Faucets*, Proceedings of the International Conference on Engineering & Business Education, Innovation and Entrepreneurship, ICEBEIE 2012, Sibiu, Romania, 2012 (indexat ISI Proceedings)

ISI11. Bibu Marius, Deac Cristian, Petrescu Valentin, Nemeş Toderiţa, Gligor Alina, *Considerations on the Energy Efficiency of a New Technology for Protecting Nonfunctional Areas of Cam Shafts Against Plasma Nitriding*, Proceedings of the 7th International Conference Management of Technological Changes, MTC 2011, Alexandroupolis, Greece, 2011 (indexat ISI Proceedings).

ISI12. Ionescu Silvian, **Deac Cristian**, Bibu Marius, Petrescu Valentin, Corpodean Cristina, *Managerial Considerations on Implementing a New Technology for the Treatment of Asbestos-Containing Wastes in Romania*, Proceedings of the 7th International Conference Management of Technological Changes, MTC 2011, Alexandroupolis, Greece, 2011 (indexat ISI Proceedings)

ISI13. Oleksik V., Pascu A., **Deac C.**, Fleacă R., Roman M., Bologa O., *The influence of geometrical parameters on the incremental forming process for knee implants analyzed by numerical simulation*, Proceedings of the 10th International Conference on Numerical Methods in Industrial Forming Processes (Numiform 2010), Published by American Institute of Physics, No. 1252, Vol. 1, 2010, ISBN: 978-0-7354-0799-2, p. 1208-1215 (indexat ISI Proceedings)

ISI14. **Deac Cristian**, Tera Melania, Bibu Marius, Biriş Cristina. *Analytical Approach to Determining the Optimal Shape of the Casting Sprue for Small-Size Metallic Parts*. Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-70-4, ISSN 1726-9679, pp 995-996, 2009. (indexat ISI)

ISI15. Bibu Marius, **Deac Cristian**, Petrescu Valentin, Nemeş Toderiţa, Ciudin Rodica, *Analysis of Cathode Process Changes at the Plasma Nitriding of Machined Parts Locally Protected With Special Paints*. Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-70-4, ISSN 1726-9679, pp 1419-1420, 2009. (indexat ISI)

ISI16. Bibu Marius, Isarie Claudiu, **Deac Cristian**, Popescu Florian, *Productivity Issues on Product Evacuation at EDM Process of Chrome and Vanadium Alloyed Steels*. Proceedings of the 6th International Conference on Management of Technological Changes, vol. I, Editor C. Rusu, Published by Democritus University of Thrace, Greece, ISBN 978-960-89832-2-7-4, pp. 581-584, 2009. (indexat ISI)

ISI17. Nemeş Toderiţa, Bibu Marius, Petrescu Valentin, **Deac Cristian**, *Laser Cutting of Metal Sheets an Environmental Friendly Technology*, Proceedings of the 6th International Conference on Management of Technological Changes, vol. I, Editor C. Rusu, Published by Democritus University of Thrace, Greece, ISBN 978-960-89832-2-7-4, pp. 121-124, 2009. (indexat ISI)

ISI18. Oleksik Valentin, Pascu Adrian, **Deac Cristian**, Fleacă Radu, Roman Mihai, *Experimental strain field distribution in ankle-foot orthosis (AFO)*. Proceedings of the 2nd WSEAS International Conference on Biomedical Electronics and Biomedical Informatics, Moscow, Rusia, ISSN 1790-5125, ISBN 978-960-474-110-6, pp. 94-98, 5 pg, 2009 (indexat ISI, Scopus)

ISI19. **Deac Cristian**, Bibu Marius, Petrescu Valentin, Tera Melania, Biriş Cristina. *On the Assessment of the Quality of Casting Nonferrous Small-Size Parts by Numerical Simulation*. Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 361-362, 2008. (indexat ISI)

- ISI20.** Biriş Cristina, **Deac Cristian**, Tera Melania. *Aspects of Optimising the Positioning and Contouring Precision of CNC Laser Cutting Machines*. Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 101-102, 2008. (indexat ISI)
- ISI21.** Petrescu Valentin, Bibu Marius, Nemeş Toderița, Popescu Florian, **Deac Cristian**, *Analysis of the Characteristics of Metallic Powders Realised from the Waste Resulted from Ball Bearing Manufacturing*. Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 1071-1072, 2008. (indexat ISI Proceedings)
- ISI22.** Dușe Carmen Sonia, Dușe Dan-Maniu, Rusu Marcel Ioan, **Deac Cristian**, *Organisational Culture in Representative Institutions of an European Capital*. 5th WSEAS International Conference on Engineering Education, Creta, Grecia. New Aspects of Engineering Education - Proceedings of the 5th WSEAS / IASME International Conference on Engineering Education (EE'08), ISBN 978-960-6766-86-2, pp. 110-115, 5 pg., 2008, indexat ISI Proceedings.
- ISI23.** Bibu Marius, **Deac Cristian**, Petrescu Valentin, Deac Valeriu, *Experiments regarding some Modern Steel Treatment Methods*. Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium „Intelligent Manufacturing & Automation: Focus on creativity, responsibility and Ethics of Engineers”, Zadar, Croația, ISBN 3-901509-58-5, ISSN 1726-9679, pg.79-80, 2 pg., 2007, indexat ISI Proceedings.
- ISI24.** **Deac Cristian**, Bibu Marius, Nemeş Toderița, Deac Valeriu, *Researches referring to the plasma nitriding of some alloyed construction steels*. Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium „Intelligent Manufacturing & Automation: Focus on creativity, responsibility and Ethics of Engineers”, Zadar, Croația, ISBN 3-901509-58-5, ISSN 1726-9679, pg.217-218, 2 pg., 2007 (indexat ISI Proceedings).
- ISI25.** Nemeş Toderița, Petrescu Valentin, **Deac Cristian**, Isarie Claudiu, Popescu Florian, *Aspects of the Recovery of Nonferrous Metals from Solid Residues by Magnetic Separation*. Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium „Intelligent Manufacturing & Automation: Focus on creativity, responsibility and Ethics of Engineers”, Zadar, Croația, ISBN 3-901509-58-5, ISSN 1726-9679, pg.503-504, 2 pg., 2007, indexat ISI Proceedings.
- ISI26.** Nemeş Toderița, Petrescu Valentin, **Deac Cristian**, Bibu Marius, Deac Valeriu, *Results related to the Obtaining, on Iron-Carbon Alloys, of Combined, Corrosion-Resistant Layers*, Annals of DAAAM 2006 & Proceedings of the 17th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Mechatronics & Robotics", Viena, Austria, ISSN 1726-9679, ISBN 3-901509-57-7, Editor B. Katalinic, Published by DAAAM International, pp. 265-266, 2 pg., 2006, indexat ISI Proceedings.
- ISI27.** Deac Valeriu, **Deac Cristian**, *A New Method for Organising Teaching Activities in Engineering Education*, Proceedings of the 3rd Balkan Region Conference on Engineering Education BRCEE 2005, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 973-739-147-0, pp. 105-107, 4 pg., 2005, indexat ISI Proceedings.
- ISI28.** Bologa Octavian, Boissier Raymond, Martin Patrick, Maurine Patrick, **Deac Cristian**, *Cooperations of the "Lucian Blaga" University of Sibiu in the domain of technical higher education with French universities, in the European inter-university cooperation programme SOCRATES / ERASMUS*, Proceedings of the 3rd Balkan Region Conference on Engineering Education BRCEE 2005, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, ISBN 973-739-147-0, pp. 30-33, 4 pg., 2005, indexat ISI Proceedings.

b) în reviste/volume de conferințe indexate BDI

BDIR1. Cristea S., Bibu M., **Deac C.**, Gligor A., *Shock Behavior Analysis for Certain Alloy Steels*, Annals of the University Oradea, Fascicle of Management and Technological Engineering, vol. XV (XXV) nr. 1, p. 199-202, 4 pg., ISSN 2285-3278 ISBN 1978-606-10-1537-5, 2016, indexat Ulrichsweb, IndexCopernicus

BDIR2. Bibu M., **Deac C.**, Gligor A., Cristea S., *Study on the Usage of Special Materials for High-Strength Parts Used in the Machines Manufacturing Industry*, Annals of the University Oradea, Fascicle of Management and Technological Engineering, vol. XV (XXV) nr. 1, p. 203-206, 4 pg., ISSN 2285-3278, ISBN 1978-606-10-1537-5, 2016, indexat Ulrichsweb, IndexCopernicus

BDIR3. Barbulescu A., Gligor A., **Deac C.**, Petrescu V., Avram L., *Researches on the degradation of organic compounds in soils polluted with hydrocarbons and brine*, Advances in Environmental Sciences - International Journal of the Bioflux Society, vol. 7 nr. 2, p. 147-154, 8 pg., Online ISSN 2066-7647; Print ISSN 2066-7620, 2015, indexat EBSCO

BDIR4. Bibu M., **Deac C.**, Gligor A., Nemes T., *Analysis of the Behaviour of Some Binding Systems on the Local Protection of Metallic Parts Against Plasma Nitriding*, Academic Journal of Manufacturing Engineering, vol. 13 nr. 2, p.124-129, ISSN 1583-7904, 2015, indexat Scopus, EBSCO, IndexCopernicus

BDIR5. Gligor A., Oleksik V., **Deac C.**, Petrescu V., *CFD Study on eliminating impurities from natural gas flows in cyclone-type separator*, Annals of the University of Oradea, Fascicle of Management and Technological Engineering, vol. XIII (XXIII) nr. 1, p. 367-370, ISSN 1583-0691, 2014, indexat Ulrichsweb, IndexCopernicus

BDIR6. Bărbulescu A., **Deac C.**, Avram L., Petrescu V., Gligor A., *Experimental Studies on the Possibility of Depolluting Hydrocarbons-Contaminated Soils through Combustion*, Journal of Engineering Studies and Research, vol. 20 nr. 4, p. 5-10, ISSN 2068-7559, 2014, indexat IndexCopernicus, ProQuest

BDIR7. **Deac C.**, Bibu M., Petrescu V., Nemeș T., Gligor A., *Study concerning the effects of plasma nitriding on the characteristics of structural alloy steels*, Nonconventional Technologies Review, vol. XVIII nr. 4, p. 52-56, ISSN 2359-8646, 2014, indexat IndexCopernicus, ProQuest

BDIR8. Nemes T., Bibu M., **Deac C.**, Gligor A., *Comparative experimental researches on the processing of car parts made by sintering of an austenitic stainless steel - alumina powder mixture*, Nonconventional Technologies Review, vol. XVIII, nr. 3, p. 67-71, ISSN 2359-8646, 2014, indexat IndexCopernicus, ProQuest

BDIR9. Oleksik M., Cofaru N., Oleksik V., **Deac C.**, *Study on the Influence of the Temperature and Strain Rate on the Behavior of Polyamide 6.6 at the Uniaxial Tensile Test*, ANNALS OF THE ORADEA UNIVERSITY - Fascicle of Management and Technological Engineering, vol XXII nr. 1, p. 245-248, ISSN 1583-0691, 2013, indexat IndexCopernicus, Ulrichsweb, Intute, ICAAP, <http://journals.indexcopernicus.com/masterlist.php?name=Master&litera=A&start=270&skok=30>

BDIR10. Oleksik, M., **Deac, C.**, Pascu, A., Oleksik, V., *Comparative study regarding the mechanical properties of silicon-coated and uncoated nylon 6.6 fabrics*, Academic Journal of Manufacturing Engineering, vol. 11 nr. 1, p.84-89, ISSN 1583-7904, 2013, indexat IndexCopernicus, <http://journals.indexcopernicus.com/passport.php?id=5174>

BDIR11. Bibu Marius, Dumitru Mariana, **Deac Cristian**, *New Considerations on the Ionic Nitriding of Structural Alloy Steels*, Nonconventional Technologies Review, vol. XVII nr. 4, pp. 97-101, ISSN 1454-3087, 2013 (indexat IndexCopernicus, Proquest <http://journals.indexcopernicus.com/karta.php?action=masterlist&id=4979>)

BDIR12. Pascu Adrian, Oleksik Valentin, Fleacă Radu, Roman Mihai, **Deac Cristian**, Oleksik Mihaela. *Experimental study on the behavior of osteochondral cylinders transplanted at the femoral condyle in the case of autologous osteochondral transplant*. Petroleum - Gas University of Ploiesti Bulletin, Technical Series, vol. LXIII, no. 1/2011, pg. 107-116, ISSN 1224-8495 (indexat IndexCopernicus).

BDIR13. Petrianu, C., Muntean, A., Ință, M., **Deac, C.**, *An aplicatiion of Taguchi method for laser metal cutting parameters optimization*, Academic Journal of Manufacturing Engineering, vol. 9 1. 2, p.85-90, ISSN 1583-7904, 2011, indexat SCOPUS, IndexCopernicus.

BDIR14. Oleksik V., Pascu A., Fleacă R., Roman M. **Deac C.** *Using finite element method in study of autologous osteochondral mosaicplasty*, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, No. 53, Vol II, 2010, ISSN 1221-5872, Cod CNCISIS 118, categ. B+, p. 349-352. (indexat IndexCopernicus)

BDIR15. **Deac Cristian**, Tera Melania, Biriş Cristina, *Theoretical and experimental researches on the castability and suitability of dental alloys*, Academic Journal of Manufacturing Engineering, vol. 8 (2), pp. 26-31, ISSN 1583-7904, 2010 (indexat Scopus).

BDIR16. Tera Melania, **Deac Cristian**, *Aspects of the FEM modelling of casting small-sized metallic parts*, Academic Journal of Manufacturing Engineering, vol. 8 (2), pp. 87-92, ISSN: 1583-7904, 2010 (indexat Scopus).

BDIR17. Oleksik Valentin, Pascu Adrian, **Deac Cristian**, Fleacă Radu, Roman Mihai. Numerical simulation of the incremental forming process for knee implants. X International Conference on Computational Plasticity COMPLAS X, Barcelona, Spain, 1-4 September 2009, E. Oñate and D. R. J. Owen (Eds) ISBN: 978-84-96736-69-6, 2009 (indexat Scopus).

BDIR18. **Deac Cristian**, Deac Valeriu, *Un vast domeniu de interferență pluridisciplinară: turnarea materialelor metalice în protetica dentară*, Metalurgia vol. 58, nr. 3, Editura Științifică F.M.R., ISSN 0461-9579, pp. 27-29, 3 pg., 2006, indexat EBSCO.

BDI1. Tarnu L., Deac C., Analysis of the Dynamics of Road Accidents in Sibiu County, Romania, in the Period 2010-2018. IOP Conference Series: Materials Science and Engineering, vol. 568, no.1, 012040, 6 pg., ISSN 1757-899X, DOI: <https://doi.org/10.1088/1757-899X/568/1/012040>, 2019, indexat Scopus, Google Scholar.

BDI2. Tarnu L., Deac C., *Considerations on the Right of Way as Cause of Road Accidents in Romania*, MATEC Web of Conferences, vol. 184, 01012, 4 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201818401012>, 2018, indexat SCOPUS, Google Scholar.

BDI3. Tarnu L., Deac C., *Analysis of the Evolution of the Number of Fatal Road Accidents in Romania*, MATEC Web of Conferences, vol. 184, 01011, 4 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201818401011>, 2018, indexat SCOPUS, Google Scholar.

BDI4. Cristea S., Bibu M., **Deac C.**, Gligor A., Inta M., *Assessment of metallic materials required for shock stress protection*, MATEC Web of Conferences, vol. 112, 04012, 6 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201711204012>, 2017, indexat SCOPUS, Google Scholar

BDI5. Deac C., Petrescu V., Gligor A., *Reducing the noise pollution level along main roads in Sibiu, Romania by optimizing the traffic flow*, MATEC Web of Conferences, vol. 112, 09013, 6 pg., ISSN 2261-236X, DOI: <https://doi.org/10.1051/mateconf/201711204012>, 2017, indexat SCOPUS, Google Scholar

BDI6. Breaz Radu, Bologna Octavian, Tera Melania, **Deac Cristian**, *Low-cost motion control solution for industrial manufacturing systems*, Proceedings of the 9th IEEE International

Conference on Industrial Informatics (INDIN), Lisbon, Portugal, art. no. 6034888, pp. 280-285, ISSN 1935-4576, ISBN 978-145-770-4345, 2011 (indexat Scopus <http://www.scopus.com/inward/record.url?eid=2-s2.0-80055024916&partnerID=40&md5=47b76ff5aebb0129b208ff8b255b4d0e>)

BDI7. Deac C., Tera M., Biris C., Bibu M., Oleksik V., *Aspects of Improving the Cost-Performance Ratio for the Manufacturing of Small-Size Cast Parts*, Proceedings of the 5th Conference on Management and Control of Production Logistics - MCPL 2010, Coimbra, Portugalia, IFAC Proceedings Volumes (IFAC-PapersOnline), pp. 349-354, ISBN 978-3-902661-81-4, 2010. (Indexat Scopus <http://www.scopus.com/inward/record.url?eid=2-s2.0-80051993115&partnerID=40&md5=d3372abaaea8c1414c5877f07c7de274>.)

BDI8. Biriş Cristina, Marinescu Vasile, Bologna Octavian, Breaz Radu-Eugen, **Deac Cristian**, Tera Melania, *Improving the manufacturing accuracy of the profiling machines*, Proceedings of the 5th Conference on Management and Control of Production Logistics - MCPL 2010, Coimbra, Portugalia, IFAC Proceedings Volumes (IFAC-PapersOnline), pp. 335-338, ISBN 978-3-902661-81-4, 2010. (Indexat Scopus <http://www.scopus.com/inward/record.url?eid=2-s2.0-80051993115&partnerID=40&md5=d3372abaaea8c1414c5877f07c7de274>)

BDI9. Bibu Marius, **Deac Cristian**, Petrescu Valentin, Nemes Catalin, *Experimental Researches Concerning the Protection Against Ionitriding of Alloyed Structural Steels*, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp 267-268, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2010 (indexat Scopus, EBSCO).

BDI10. Duse D.-M., Duse C.-S., **Deac C.**, *Emotional intelligence - An important part of the teaching qualification in engineering education*, Proceedings of the 37th SEFI Annual Conference, 2009 (indexat Scopus).

BDI11. Duse D.-M., Duse C.-S., **Deac C.**, *The quality of academic staff: Student assessment versus an evaluation of the emotional intelligence*, Proceedings of the 37th SEFI Annual Conference, 2009 (indexat Scopus).

BDI12. Dușe Dan-Maniu, Dușe Carmen-Sonia, **Deac Cristian**, *CELGAS - Conventional & eLearning Gas Engineering Centre*. Proceedings of the 36th SEFI International Annual Conference, SENSE Publisher, Aalborg, Danmark. ISBN 978-90-8790-571-2, 4 pg., 2008 (indexat Scopus).

BDI13. Oleksik Valentin, Bologna Octavian, Racz Gabriel, Breaz Radu, **Deac Cristian**, *Study Regarding the Influence of Geometrical Parameters during the Incremental Forming Process*, 9th International Conference on Technology of Plasticity (ICTP 2008), 7-11 septembrie 2008, Gyeongju, Coreea de Sud, ISBN 978-89-5708-151-8, pp. 963-968, 6 pg., 2008 (indexat Scopus).

BDI14. Dușe Dan-Maniu, Dușe Carmen-Sonia, **Deac Cristian**, *CELGAS – Conventional & eLearning Gas Engineering Centre*. 19th International Scientific – Technical Conference, Zakopane, Polonia, 18-20 iunie 2008; Wiertnictwo, Nafta, Gaz vol. 25, nr. 2, pp. 251-257, 6 pg., ISSN 1507-0042, 2008 (indexat IndexCopernicus).

BDI15. **Deac Cristian**, Bibu Marius, *Researches Regarding the Adaptation of Dental Casting Machines for Processing under Vacuum*. Proceedings of the International Conference on Manufacturing Systems ICMaS 2004, București, Romanian Journal of Technical Sciences – Applied Mechanics, Tome 49, special number 2004, Editura Academiei Române, București, ISSN 0035-4074, ISBN 973-27-1102-7, pp. 509-512, 4 pg., 2004, indexat INSPEC.

BD16. Bibu Marius, **Deac Cristian**, *Considerations on the Possibility of Using the MagmaSoft Modeling Software for the Optimisation of the Casting Mould Design for Dental Prosthetic*

Purposes. Proceedings of the International Conference on Manufacturing Systems ICMaS 2004, București, Romanian Journal of Technical Sciences – Applied Mechanics, Tome 49, special number 2004, Editura Academiei Române, București, ISSN 0035-4074, ISBN 973-27-1102-7, pp. 555-558, 4 pg., 2004, indexat INSPEC.

c) în reviste neindexate

Rns1. Petrianu C., Bibu M., **Deac C.**, Petrescu V., Cercetări experimentale privind optimizarea calitativă a procesului de tăiere cu laser a unor table din oțel S355JR, *Sudura*, vol. XVIII nr. 3, p. 20-25, 6 pg., 2014, ISSN 1453-0384

Rns2. Fleacă Radu, Roman Mihai, Oleksik Valentin, Pascu Adrian, **Deac Cristian**, Baier Ioan, *The Evaluation of the Pull-Out Force between the Osteochondral Plug and the Receiving Tunnel in Autologous Osteochondral Transplantation*, *Acta Medica Transilvanica*, Anul XV, Nr. 1, Sibiu, Editura Universității "Lucian Blaga" din Sibiu, pp. 191-193, 3 pg., 2010, clasificare CNCSIS B

Rns3. Fleacă Radu, Roman Mihai, Oleksik Valentin, Pascu Adrian, **Deac Cristian**, Baier Ioan. *Analysis of the mechanical properties and the behaviour of the distal femur to axial static loading.* *Revista de Ortopedie și Traumatologie (Journal of Orthopaedic Trauma)*, Vol. 19, No. 3, 2009, ISSN 1220-6466, Cod CNCSIS 374, pp. 128-129, 2 pg., clasificare CNCSIS C.

Rns4. **Deac Cristian**, Biriș Cristina, *Variation of Microstructure-Related Features in Mild Steels as a Result of Applying Laser Cutting Operations with Different Processing Parameters*, *Acta Universitatis Cibiniensis - Technical Series*, vol. LVI, Sibiu, ISSN 1583-7149, pp. 13-16, 4 pg., 2008.

Rns5. **Deac Cristian**, Tera Melania, Considerations on the Introduction of Combined Parameters for Improving the Suitability Assessment of Materials in Various Processing Situations, *Acta Universitatis Cibiniensis - Technical Series*, vol. LVI, Sibiu, ISSN 1583-7149, pp. 17-20, 4 pg., 2008.

Rns6. Deac Valeriu, **Deac Cristian**, *Studii privind unele procedee de îmbinare a pieselor de dimensiuni mici realizate din titan sau din aliaje pe bază de titan*, *Metalurgia* vol. 58, nr. 4, Editura Științifică F.M.R., ISSN 0461-9579, pp. 25-28, 4 pg., 2006, indexat în baza de date EBSCO.

Rns7. Deac Valeriu, Iacobescu Aurel, **Deac Cristian**, *Researches Regarding The Realising, Through Hot Pressing, From A Polymeric Composite, Of The Nozzle Block For The Short-Duration Reactive Propulsion.* *Acta Universitatis Cibiniensis - Technical Series*, vol. LII, Sibiu, ISSN 1583-7149, pp. 123-126, 4 pg., 2005.

Rns8. **Deac Cristian**, Bibu Marius, *Elaborarea de straturi protectoare pe bază de cupru utilizate împotriva nitrurării în plasmă*, *Metalurgia* vol. 56, nr. 9, Editura Științifică F.M.R., ISSN 0461-9579, pp. 19-25, 7 pg., 2004.

Rns9. Bibu Marius, **Deac Cristian**, *Considerații referitoare la elaborarea unor vopsele speciale pentru protecția locală la nitrurarea ionică*, *Metalurgia* vol. 56, nr. 9, Editura Științifică F.M.R., ISSN 0461-9579, pp. 26-32, 7 pg., 2004.

Rns10. **Deac Cristian**, *A Review of Quality-Related Problems in Cast Dental Prosthetic Parts Made of Titanium*, *Acta Universitatis Cibiniensis - Technical Series*, vol. XLIX, Sibiu, ISSN 1583-7149, pp. 15-18, 4 pg., 2004.

Rns11. **Deac Cristian**, Nemeș Toderița, Bibu Marius, *An Analysis of Dental Casting Alloys from the Point of View of their Suitability for Dental Prosthetic Applications*, *Acta Universitatis*

- Cibiniensis - Technical Series, vol. XLIX, Sibiu, ISSN 1583-7149, pp. 7-14, 8 pg., 2004.
- Rns12. Bibu Marius, Nemeș Toderița, **Deac Cristian**, *Conclusions Referring to Using Special Paints for Local Protection in Plasma Nitriding of Parts which Present Nonfunctional Surfaces*, Acta Universitatis Cibiniensis - Technical Series, vol. XLIX, Sibiu, ISSN 1583-7149, pp. 3-6, 4 pg., 2004.
- Rns13. Nemeș Toderița, Bibu Marius, **Deac Cristian**, *The Influence of Carbonitriding on the Fatigue Behaviour of the Steel 17CrNiMo3*, Acta Universitatis Cibiniensis - Technical Series, vol. XLIX, Sibiu, ISSN 1583-7149, pp. 29-32, 4 pg., 2004.
- Rns14. **Deac Cristian**, *Study regarding the corrosion behaviour of some commonly-used dental alloys*, Acta Universitatis Cibiniensis - Technical Series, A. Materials Science and Technology, vol. XXLIV, Sibiu, ISSN 1221-4949, pp. 59-62, 4 pg., 2001.
- Rns15. **Deac Cristian**, *Considerations regarding some systems used for the investment casting of dental prosthetic parts made of titanium*, Acta Universitatis Cibiniensis - Technical Series, A. Materials Science and Technology, vol. XXLIV, Sibiu, ISSN 1221-4949, pp. 63-66, 4 pg., 2001.
- Rns16. Bibu Marius, **Deac Cristian**, *Considerații asupra temperaturii la nitrurarea în plasmă a pieselor protejate local cu vopsele speciale*, Acta Universitatis Cibiniensis - Seria Tehnică. A. Știința și tehnologia materialelor, vol. XXXVI, Editura Universității "Lucian Blaga" din Sibiu, ISSN 1221-4949, pp. 157-160, 4 pg., 1999.
- Rns17. Bibu Marius, **Deac Cristian**, *Aspecte ale influenței vopselelor pentru protecția locală a pieselor asupra duratei de nitrurare în plasmă*, Acta Universitatis Cibiniensis - Seria tehnică. A. Știința și tehnologia materialelor, vol. XXXVI, Editura Universității "Lucian Blaga" din Sibiu, ISSN 1221-4949, pp. 161-164, 4 pg., 1999.
- Rns18. **Deac Cristian**, *Aspecte tehnico-economice ale utilizării titanului în protetica dentară* Acta Universitatis Cibiniensis - Seria Tehnică, B. Tehnologii Mecanice și Utilaje Tehnologice, vol. XXXIII, Sibiu, ISSN 1221-4949, pp. 35-38, 4 pg., 1999.
- Rns19. **Deac Cristian**, *Aprecierea turnabilității titanului în protetica dentară*, Acta Universitatis Cibiniensis - Seria Tehnică. B. Tehnologii Mecanice și Utilaje Tehnologice, vol. XXXIII, Sibiu, ISSN 1221-4949, pp. 31-34, 4 pg., 1999.
- Rns20. **Deac Cristian**, *Particularități ale topirii prin inducție a aliajelor utilizate în tehnica dentară*, Acta Universitatis Cibiniensis - Seria Tehnică. B. Tehnologii mecanice și Utilaje tehnologice, vol. XV, Sibiu, ISSN 1221-4949, pp. 64-67, 4 pg., 1995.
- Rns21. Deac Valeriu, **Deac Cristian**, *Turnarea centrifugală a aliajelor dentare*, Acta Universitatis Cibiniensis - Seria Tehnică. B. Tehnologii mecanice și Utilaje tehnologice, vol. XV, Sibiu, ISSN 1221-4949, pp. 68-71, 4 pg., 1995.

d)

Rno1. Barth Hans, Berbente Corneliu, Bologa Octavian, **Deac Cristian**, *Tehnica spațială în folosul omenirii*, Univers Ingineresc, anul XVIII nr. 13 (395), ISSN 1223-0294, pp. 4-5, 2 pg., 2007

Rno2. Deac Valeriu, Bălan Marcel, Ștefănescu Dan-Paul, Petrescu Valentin, **Deac Cristian**, *Procedeu pentru sudarea cap la cap, fără bavuri interioare, a țevilor din polietilenă*, Revista Națională de Gaze nr.1, ISSN 1454-2692, pp 23-26, 4 pg., 2006.

4⁰ Articole/studii publicate în volumele unor manifestări științifice: a)

internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate (Vi) și b) naționale (Vn)

a)

- Vi1.** Tarnu L., **Deac C.**, *Considerations Regarding the Analysis and Interpretation of Traumatic Lesional Mechanisms in Road Accidents*. MATEC Web of Conferences, vol. 343, 06006, 15 pg., ISSN 2261-236X, <https://doi.org/10.1051/mateconf/202134306006>, 2021.
- Vi2.** Barbulescu A., Petrescu V., Deac C., Gligor A., Avram L., *Researches on the efficiency of depolluting hydrocarbons-contaminated soils using a thermal method*, Proceedings of the 10th International Conference ELSEDDIMA, Cluj Napoca, 2014, ISBN 978-973-606-526-183-9
- Vi3.** Bibu M., Dumitru M., **Deac C.**, *Researches on the Plasma Carburising and Nitrosulphuring of some Structural Steels*, Proceedings of the International Conference on Manufacturing Science and Education, MSE 2013, Sibiu, p. 57-60, ISSN 1843-2522, 2013
- Vi4.** Cotigă C., Bologa O., **Deac C.**, *Contributions to Assessing Materials for Prosthetic Parts Obtained by Incremental Forming*, Proceedings of the International Conference on Manufacturing Science and Education, MSE 2013, Sibiu, p. 61-65, ISSN 1843-2522, 2013
- Vi5.** Nemes T., **Deac C.**, Bibu M., Gligor A., *Involving students in monitoring occupational risk at a battery recycling facility*, Proceedings of the 4th WIETE Annual Conference on Engineering and Technology Education, Ed. Z.J. Pudlowski, p. 32-35, ISBN 978-0-9807664-5-5, Cairns, Australia, 2013
- Vi6.** Ionescu S., **Deac C.**, Nemes T., Bibu M., Petrescu V., *Experimental Researches regarding the thermal behaviour of asbestos cement waste using thermogravimetric analysis*, Proceedings of the 9th International Conference on Environmental Legislation, Safety Engineering and Disaster Management ELSEDDIMA 2012 Cluj-Napoca, 2012
- Vi7.** Pascu, A., Oleksik, V., Fleacă, R., **Deac, C.**, Roman M. *Numerical simulation of a femur with osteochondral autologous plug transplantation*, 9th International Symposium Computer Methods in Biomechanics and Biomedical Engineering 2010, Valencia, Spain, 2010
- Vi8.** Fleacă, R., Roman, M., Oleksik, V., Pascu, A., **Deac, C.**, Baier, I. *Biomechanical analysis of the relationship between the plug and the deep of the receiving tunnel in autologous osteochondral transplantation*, 14th ESSKA Congress, June 9-12, 2010, Oslo, Abstract Published on Knee Surgery Sports Traumatology Arthroscopy, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056, p.248-249.
- Vi9.** Fleacă, R., Roman, M., Oleksik, V., Pascu, A., **Deac, C.**, Baier, I., Stanciu, T. *Comparative analysis by finite element method on a theoretical model between 6 mm and 8 mm diameter plug osteochondral autologous transplantation*, 14th ESSKA Congress, June 9-12, 2010, Oslo, Abstract Published on Knee Surgery Sports Traumatology Arthroscopy, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056, p.258-259.
- Vi10.** Roman M., Fleacă R., Oleksik V., Pascu A., **Deac C.**, Cofaru N., Baier I. *ACL reconstruction with STG grafts - hybrid tibial fixation – biomechanical study*. 14th ESSKA Congress, June 9-12, 2010, Oslo, Abstract Published on Knee Surgery Sports Traumatology Arthroscopy, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056.
- Vi11.** Roman M., Fleacă R., Cofaru N., Oleksik V., Pascu A., **Deac C.**, Baier I., Roman Cristina *Partial lesions of the anterior cruciate ligament*. 14th ESSKA Congress, June 9-12, 2010, Oslo, Abstract Published on Knee Surgery Sports Traumatology Arthroscopy, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056.
- Vi12.** Fleacă, R., Roman, M., Oleksik, V., Pascu, A., **Deac, C.**, Baier, I., Stanciu, T., Popescu, M., Sopon, C., Lupean, A., Mohor, C. [The Prevalence Of Knee Articular Cartilage Lesions In Arthroscopic Examination](#). The 11-th Congress of European Federation of National Association of Orthopaedics and Traumatology (EFORT 2010), Madrid, Spain, 2-5 June 2010, p. 476.

- Vi13.** Roman, M., Fleacă, R., Baier, I., Baci, R., Coman, A.M., Oleksik, V., Cofaru, N., Pascu, A., **Deac, C.**, Roman, C. *Hybrid tibial fixation in ACL reconstruction with hamstrings graft (STG)* The 11-th Congress of European Federation of National Association of Orthopaedics and Traumatology (EFORT 2010), Madrid, Spain, 2-5 June 2010, p. 516.
- Vi14.** Roman, M., Fleacă, R., Cofaru, N., Oleksik, V., Pascu, A., **Deac, C.**, Baier, I. *Hybrid tibial fixation of hamstring grafts in ACL reconstruction – a biomechanical study*, The 11-th Congress of European Federation of National Association of Orthopaedics and Traumatology (EFORT 2010), Madrid, Spain, 2-5 June 2010, p. 517.
- Vi15.** **Deac Cristian**, Tera Melania. *Computer-Aided Assessment of the Quality of Small-Sized Cast Parts*, Chapter 60 in DAAAM International Scientific Book 2009, B. Katalinic (Ed.), Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-69-8, ISSN 1726-9687, DOI:10.2507/daaam.scibook.2009.60, pp. 621-628, 2009, indexat EBSCO.
- Vi16.** **Deac Cristian**, Bibu Marius, Tera Melania, Biriş Cristina, *Critical Analysis of the Currently Available Systems for Casting Small-Size Parts Made of Titanium or Titanium Alloys*. 4th International Conference on Manufacturing Science and Education, MSE 2009, Sibiu, Romania, Editors D.M. Duş, P.D. Brândaşu, L.D. Beju, Editura Universităţii "Lucian Blaga" din Sibiu, vol.I, ISSN 1843-2522, pp. 271-274, 2009.
- Vi17.** Tera Melania, Bologa Octavian, **Deac Cristian**, *Study of Deep-Drawn Tailor Welded Parts Used in Automotive Industry*. 4th International Conference on Manufacturing Science and Education, MSE 2009, Sibiu, Romania, Editors D.M. Duş, P.D. Brândaşu, L.D. Beju, Editura Universităţii "Lucian Blaga" din Sibiu, vol.I, ISSN 1843-2522, pp. 95-98, 2009.
- Vi18.** Oleksik Valentin, **Deac Cristian**, Pascu Adrian, *Experimental Researches Regarding the Structural Modifications Suffered by Parts Obtained by Incremental Sheet Metal Forming*. Proceedings of the 17th International Conference on Manufacturing Systems – ICMaS 2008, Bucureşti, Editura Academiei Române, ISSN 1842-3183, pp. 291-294, 4 pg., 2008.
- Vi19.** Tera Melania, **Deac Cristian**, *Computer-Aided Selection of Steels for the Realising of Bimetallic Deep-Drawn Parts*. Proceedings of the 17th International Conference on Manufacturing Systems – ICMaS 2008, Bucureşti, Editura Academiei Române, ISSN 1842-3183, pp. 313-316, 4 pg., 2008.
- Vi20.** Duş Dan-Maniu, Duş Carmen-Sonia, **Deac Cristian**, Rusu Marcel Ioan, *Human Resources Management within Leonardo Da Vinci Project CELGAS – International E-Learning Initiatives in Gas Engineering Education*. Proceedings of the 36th SEFI International Annual Conference, SENSE Publisher, Aalborg, Danmark. ISBN 978-90-8790-571-2, 4 pg., 2008.
- Vi21.** **Deac Cristian**, Tera Melania, Biriş Cristina, *Studies Regarding the Optimisation of the Sprue Design at the Casting of Small-Size Parts Made of Nonferrous Alloys*. 17th International Metallurgical and Materials Conference "METAL 2008", Ostrava, Cehia, ISBN 978-80-254-1987-8, 6 pg., 2008.
- Vi22.** Biriş Cristina, **Deac Cristian**, Tera Melania, *Considerations on the Choice of the Cutting Method and Technique Employed for the Cutting of Parts Made of Titanium Alloys*. 17th International Metallurgical and Materials Conference "METAL 2008", Ostrava, Cehia, ISBN 978-80-254-1987-8, 5 pg., 2008.
- Vi23.** Tera Melania, Biriş Cristina, **Deac Cristian**, *Considerations on the Selection of Materials for the Realising of Deep-Drawn Bimetallic Parts*. 17th International Metallurgical and Materials Conference "METAL 2008", Ostrava, Cehia, ISBN 978-80-254-1987-8, 5 pg., 2008.
- Vi24.** Oleksik Valentin, Bologa Octavian, Racz Gabriel, **Deac Cristian**, *Roughness Control of Parts Obtained through Incremental Sheet Forming*. The 4th International Federation of

Automatic Control Conference on Management and Control of Production and Logistics – MCPL 2007, Sibiu. Preprints. ISBN 978-973-739-481-1, pp. 891-894, 4 pg., 2007.

Vi25. Deac Cristian, Bibu Marius, Deac Valeriu, Petrescu Valentin, *Considerations on the Castability of Metallic Materials Used for the Realising of Small-Size Parts*. 11th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT 2007, Hammamet, Tunisia, ISBN 978-9958-617-34-8, pp. 391-394, 4 pg., 2007.

Vi26. Bibu Marius, **Deac Cristian**, Deac Valeriu, Nemeş Toderiţa, *Temperature Uniformisation at Plasma Nitriding by Using Special Protection Screens*. 11th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT 2007, Hammamet, Tunisia ISBN 978-9958-617-34-8, pp. 279-282, 4 pg., 2007.

Vi27. Nemeş Toderiţa, Petrescu Valentin, Popescu Florian, **Deac Cristian**, *Researches Regarding the Processing of Composite Materials by Means of a Hydroabrasive Jet*. 11th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT 2007, Hammamet, Tunisia, ISBN 978-9958-617-34-8, pp. 39-42, 4 pg., 2007.

Vi28. Deac Cristian, Biriş Cristina, Tera Melania, *Aspects of Modern Procedures for thermal cutting and Welding of Small-Sized Titanium-Based Parts*, Proceedings of the 3rd International Conference on Manufacturing Science and Education MSE 2007, Sibiu, ISSN 1843-2522, pp. 75-76, 2 pg., 2007. Academic Journal of Manufacturing Engineering, Supplement Nr. 2/2007, Editura Politehnica Timișoara, ISSN 1583-7904, pp.21-25, 4 pg., 2007

Vi29. Reichert Gerhard, Şerb Silvana, **Deac Cristian**, *Considerations Regarding the Systemic Analysis of Manufacturing Systems*. Proceedings of the 3rd International Conference on Manufacturing Science and Education MSE 2007, Sibiu ISSN 1583-7904, pp. 221-222, 2 pg., 2007. Academic Journal of Manufacturing Engineering, Supplement Nr. 3/2007, Editura Politehnica Timișoara, ISSN 1583-7904, pp. 131-135, 4 pg., 2007

Vi30. Dușe Dan-Maniu, Dușe Carmen Sonia, **Deac Cristian**, Rusu Marcel Ioan, *Human Resources Management within Leonardo da Vinci Project CELGAS – International E-Learning Initiatives in Gas Engineering Education*, Proceedings of the 5th WSEAS International Conference on E-Activities, E-ACTIVITIES '06, Veneția, Italia, ISSN 1790-5095, ISSN 1790-5117, ISBN 960-8457-56-4, pp.367-372, 6 pg., 2006, indexat ISI.

Vi31. Dușe Dan-Maniu, Dușe Carmen Sonia, **Deac Cristian**, Rusu Marcel Ioan, *Advanced Training of Human Resources within the Leonardo da Vinci Project "CELGAS" - e-Learning International Education Initiatives in Teaching of Gas Engineering*, WSEAS Transactions on Advances in Engineering Education, vol. 3, nr. 9, sept. 2006, ISSN 1790-1979, pp. 817-822, 6 pg., 2006

Vi32. Deac Cristian, Deac Valeriu, Bibu Marius, Petrescu Valentin, Nemeş Toderiţa, *A Comparative Analysis of Welded Joints in Band Saw Blades for the Processing of Wood*, 10th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT 2006, Barcelona-Lloret de Mar, Spania, ISBN 9958-617-30-7, pp. 213-216, 4 pg., 2006.

Vi33. Bibu Marius, **Deac Cristian**, Deac Valeriu, Petrescu Valentin, Nemeş Toderiţa, *Considerations on the Effects of Magnesium-Based Binders in the Special Paints Employed for the Local Protection of Steel Parts against Plasma Nitriding*, 10th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT 2006, Barcelona-Lloret de Mar, Spania, ISBN 9958-617-30-7, pp. 281-284, 4 pg., 2006.

Vi34. Deac Valeriu, Petrescu Valentin, Ştefănescu Dan-Paul, Bălan Marcel, **Deac Cristian**, *Procedure for the Pressure Butt Welding, without Inner Burrs, of Polyethylene Pipes*. 6th European Conference on Welding, Joining and Cutting EUROJOIN 6, Santiago de Compostela,

Spania, ISBN 84-934316-0-5, pp. 691-692, 2 pg., 2006.

Vi35. **Deac Cristian**, Ință Marinela, *Conclusions Regarding the Choice of Casting Machines for the Realising of Small Parts from Titanium or Titanium Alloys*. 15th International Metallurgical and Materials Conference "METAL 2006", Ostrava, Cehia, ISBN 80-86840-18-2, 4 pg., 2006.

Vi36. Dumitru Mariana, Bibu Marius, **Deac Cristian**, *Studies and Researches on the Obtaining of Cast Titanium Implants*. 15th International Metallurgical and Materials Conference "METAL 2006", Ostrava, Cehia, ISBN 80-86840-18-2, 5 pg., 2006.

Vi37. **Deac Cristian**, Bibu Marius, *Contributions to the adaptation of Dental Casting Machines for Processing of Nonferrous Alloys Under Inert Gas Protective Atmosphere*, Proceedings of the 4th International Conference on Advanced Manufacturing Technologies ICAMaT 2005, Editura Academiei Române, București, ISBN 973-27-1254-6, pp. 541-544, 4 pg., 2005.

Vi38. Bibu Marius, **Deac Cristian**, *The Biocompatibility of Titanium, Reason for its Usage for the Manufacturing of Dental Implants*. Proceedings of the 4th International Conference on Advanced Manufacturing Technologies ICAMaT 2005, Editura Academiei Române, București, ISBN 973-27-1254-6, pp. 33-36, 4 pg., 2005.

Vi39. **Deac Cristian**, Ință Marinela, *Computer-Aided Selection Of Metallic Materials For The Casting Of Small Parts Used In Dental Prosthetics*. 9th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT 2005, Antalya, Turcia, ISBN 9958-617-28-5, pp. 275-278, 4 pg., 2005.

Vi40. **Deac Cristian**, Nemeș Toderița, *New Approaches in the Precision Casting of Titanium and Other Nonferrous Alloys Used In Prosthetic Applications*, 14th International Metallurgical and Materials Conference "METAL 2005", Ostrava - Cehia, ISBN 80-86840-13-1, 4 pg., 2005.

Vi41. Nemeș Toderița, **Deac Cristian** - *Researches Regarding the Anticorrosive Protection of Steels by Galvanic Coating Followed by Thermochemical Treatments*. 14th International Metallurgical and Materials Conference "METAL 2005", Ostrava, Cehia, ISBN 80-86840-13-1, 6 pg., 2005.

Vi42. Balazs Bela, Nemeș Toderița, **Deac Cristian**, *Researches Regarding the Thermal Behaviour of Different Charge Mixtures Used at Sometra S.A., Copsa Mica, Romania*, 14th International Metallurgical and Materials Conference "METAL 2005", Ostrava, Cehia, ISBN 80-86840-13-1, 8 pg., 2005.

Vi43. Trantabăț Gheorghe, Nemeș Toderița, **Deac Cristian**, *Experimental Researches Regarding the Separation of Bismuth by Hydrolysis from Solutions Obtained at the Solubilisation of Secondary Products From the Non-Ferrous Industry*. 14th International Metallurgical and Materials Conference "METAL 2005", Ostrava, Cehia, ISBN 80-86840-13-1, 5 pg., 2005.

Vi44. **Deac Cristian**, *Considerations on the Introduction of a Suitability Parameter for Casting Alloys Used In Dental Prosthetics*, 13th International Metallurgical and Materials Conference "METAL 2004", Ostrava - Cehia, ISBN 80-85988-95-X, 5 pg., 2004.

Vi45. **Deac Cristian**, Petrescu Valentin, Nemeș Toderița, *Influence of the Special Paints for the Local Protection against Plasma Nitriding on Fundamental Processes in the Ionised Gas*, 13th International Metallurgical and Materials Conference "METAL 2004", Ostrava - Cehia, ISBN 80-85988-95-X, 5 pg., 2004.

Vi46. Petrescu Valentin, Bibu Marius, **Deac Cristian**, *The Optimisation of the Electro-Discharge Machining Process for Parts Made of Metallic Carbides*, 13th International Metallurgical and Materials Conference "METAL 2004", Ostrava - Cehia, ISBN 80-85988-95-X, 4 pg., 2004.

Vi47. Nemeș Toderița, **Deac Cristian**, Bibu Marius, *The Effects of Plasma Carbonitriding on*

Refractory Steels, 13th International Metallurgical and Materials Conference "METAL 2004", Ostrava - Cehia, ISBN 80-85988-95-X, 4 pg., 2004.

Vi48. **Deac Cristian**, *A new method for the assessment of the castability of metallic materials used in dental prosthetics*, Proceedings of the International Conference on Manufacturing Science and Education – Challenges of the European Integration MSE 2003, Editura Universității "Lucian Blaga" din Sibiu, ISBN 973-651-700-4, pp. 123-126, 4 pg., 2003.

Vi49. **Deac Cristian**, Gheorghe Ion, *Considerations regarding the determination of the optimal shape of the sprue at the casting of dental prosthetic parts*, Proceedings of the International Conference on Manufacturing Science and Education MSE 2003, Editura Universității din Sibiu, ISBN 973-651-700-4, pp. 119-122, 4 pg., 2003.

Vi50. Bologa Octavian, **Deac Cristian**, *Romanian Postgraduate Master Programmes in the Transition Period Towards a Common European Approach*, Proceedings of the International Conference on Manufacturing Science and Education MSE 2003, Editura Universității din Sibiu, ISBN 973-651-700-4, pp. 71-74, 4 pg., 2003.

Vi51. Bibu Marius, **Deac Cristian**, Petrescu Valentin, *Conclusions referring to using a modern method for local protection in plasma nitriding of parts that present non-functional surfaces*, A VI-a Conferință Științifică Internațională de Comunicări "Tehnologii Moderne, Calitate, Restructurare" – TMCR 2003, Universitatea Tehnică a Moldovei, vol. 2, Editura Universității Tehnice a Moldovei, Chișinău, Republica Moldova, ISBN 9975-9748-0-5 / ISBN 9975-9748-2-1 (vol. 2), pp. 17-20, 4 pg., 2003.

Vi52. Bibu Marius, Petrescu Valentin, **Deac Cristian**, *A Modern Method for the Local Protection of Parts During Plasma Nitriding*, A VI-a Conferință Științifică Internațională de Comunicări "Tehnologii Moderne, Calitate, Restructurare" – TMCR 2003, Universitatea Tehnică a Moldovei, vol. 2, Editura Universității Tehnice a Moldovei, Chișinău - Republica Moldova, ISBN 9975-9748-0-5 / ISBN 9975-9748-2-1 (vol. 2), pp. 13-16, 4 pg., 2003.

Vi53. **Deac Cristian**, Nemeș Toderița, *Special Procedures for the Joining of Titanium-Based Prosthetic Parts*. 12th International Metallurgical and Materials Conference "METAL 2003", Ostrava - Cehia, ISBN 80-85988-82-8, 5 pg., 2003.

Vi54. Nemeș Toderița, Petrescu Valentin, **Deac Cristian**, *The Characterisation of Ionitrided Layers from the Point of View of Corrosion*, 12th International Metallurgical and Materials Conference "METAL 2003", Ostrava - Cehia, ISBN 80-85988-82-8, 8 pg., 2003.

Vi55. **Deac Cristian**, *Utilizări actuale ale titanului și aliajelor de titan*, Conferința internațională de comunicări științifice "BEYOND 2000 – Engineering Research Strategies", Universitatea "Lucian Blaga" din Sibiu, Acta Universitatis Cibiniensis, Seria Tehnică. A. Știința și tehnologia materialelor, vol. XXXIV, Sibiu, ISSN 1221-4949, pp. 69-72, 4 pg., 1999.

Vi56. **Deac Cristian**, *Procedee neconvenționale de asamblare a pieselor din titan în protetica dentară*, Conferința internațională de comunicări științifice "BEYOND 2000 – Engineering Research Strategies", Universitatea "Lucian Blaga" din Sibiu, Acta Universitatis Cibiniensis - Seria Tehnică. A. Știința și tehnologia materialelor, vol. XXXIV, Sibiu, ISSN 1221-4949, pp. 65-68, 4 pg., 1999.

Vi57. Bibu Marius, Deac Valeriu, **Deac Cristian**, *Influența straturilor de vopsele protectoare asupra temperaturii și duratei de nitrurare ionică*, A VIII-a Conferință internațională de inginerie managerială și tehnologică "TEHNO'98", Universitatea "Politehnica" din Timișoara, vol. II, ISBN 973-0-00596-6, ISBN 973-0-00607-5, pp. 503-510, 8 pg., 1998.

Vi58. Bibu Marius, Deac Valeriu, **Deac Cristian**, *Stabilirea grosimii optime a straturilor de vopsea care asigură eficacitatea protecției la nitrurarea ionică*, A VIII-a Conferință internațională de inginerie managerială și tehnologică "TEHNO'98", Universitatea "Politehnica" din Timișoara, vol. II, ISBN 973-0-00596-6, ISBN 973-0-00607-5, pp. 511-516, 6 pg., 1998.

b)

Vn1. Nemeş T., Petrescu V., Bibu M., **Deac C.**, Ciudin R., Assessment of the Activity of a Thermoelectrical Power Plant Using the Best Available Techniques (BAT), A V-a Conferință Națională cu participare internațională "Coroziune și Protecție Anticorozivă", Cluj-Napoca, 2010

Vn2. Nemeş, Toderița, **Deac Cristian**, Petrescu Valentin, Bibu Marius, *Study on the Improvement of the Anticorrosive Resistance of Steels Through Combined Galvanic and Heat Treatment*. Conferința națională "Coroziune și protecție anticorozivă", Bistrița, 2007. Revista "Coroziune și protecție anticorozivă", ISSN 1842-0346, vol. III, nr. 4, pp. 5-8, 5 pg., 2008.

Vn3. **Deac Cristian**, *Istoria timpurie a tehnicii ratchetelor în Transilvania*, Simpozionul Internațional "De la pionierii sibieni ai ratchetelor la tehnica modernă în domeniu", organizatori: AGIR (România) și VDI (Germania), Editura AGIR, Sibiu, ISBN 978-973-720-129-4, pp. 83-96, 14 pg., 2007.

Vn4. Nemeş Toderița, Petrescu Valentin, **Deac Cristian**, Deac Valeriu, Bibu Marius, *Experimentări privind protecția catodică a conductelor metalice îngropate*, Conferința națională "Coroziune și protecție anticorozivă", Cluj-Napoca, 2006.

Vn5. Pascu Adrian, Sofonea Galaftion, **Deac Cristian**, *The Determination by Experimental and Numerical Methods of Stress and Strain States in a Pre-ondulated Wire Mesh Structure Stressed with Uniaxial Traction*. 6th Conference with International Participation "Constructive and Technological Design Optimization in the Machines Building Field" OPROTEH-2005, Bacău, ISSN 1224-7499, pp. 289-294, 6 pg., 2005.

Vn6. **Deac Cristian**, *Contributions to the realising of dental prosthetic parts from biocompatible titanium alloys*, Buletinul Simpozionului Materiale Avansate, Tratamente Termice și Calitatea Managementului - MATTM 2001, Timișoara, ISBN 973-8247-32-2, pp. 73-76, 4 pg., 2001.

Vn7. **Deac Cristian**, Bibu Marius, *Appreciations about the using of the special paints based on blade shaped copper powder at local protection against plasma nitriding*, Buletinul Simpozionului Materiale Avansate, Tratamente Termice și Calitatea Managementului - MATTM 2001, Timișoara, ISBN 973-8247-32-2, pp. 184-189, 6 pg., 2001.

Vn8. Bibu Marius, **Deac Cristian**, *Experimental determinations refering to local protection with special paints based on blade shaped copper powder at ionic nitriding*, Buletinul Simpozionului Materiale Avansate, Tratamente Termice și Calitatea Managementului - MATTM 2001, Timișoara, 2001, ISBN 973-8247-32-2, pp. 178-183, 6 pg., 2001.

5⁰ Brevete de invenție

B1. Deac Valeriu, **Deac Cristian**, *Procedeu și instalație pentru topirea și turnarea de precizie a titanului și aliajelor de titan, a altor materiale metalice*, Brevet de invenție nr. 110423, Titular: Universitatea din Sibiu, România, 1997

6⁰ Proiecte de cercetare-dezvoltare-inovare:

a) Internaționale

Pi1. **Deac Cristian** – colaborator grant, *Conventional & e-Learning Gas Engineering Center (CELGAS)*, proiect european tip Leonardo da Vinci, cod PL/04/B/F/ PP-17-4431 / 2004, perioada de derulare 2005-2007

Pi2. **Deac Cristian** – colaborator grant, *Dezvoltarea unui program complex de pregătire postuniversitară prin doctorat în domeniul materialelor, tehnologiilor și a echipamentelor pentru prelucrare prin deformare*, contract nr. 21/1998, beneficiar CNCISIS, program finanțat de Banca Mondială și Guvernul României, 1998-2001.

b) Naționale

Pn1. **Deac Cristian** – director contract, *Cercetări privind optimizarea materialelor, tehnologiei de sudare și a tratamentelor termice aferente pânzelor-panglică pentru prelucrarea lemnului*, contract nr. 2644/2005, beneficiar S.C. DIAMOND S.A. Sibiu, perioada de desfășurare 2005-2006.

Pn2. **Deac Cristian** – colaborator grant, *Analiza teoretică și experimentală a comportării statice și dinamice a grefelor în transplantul osteocondral autolog*, contract PNCDI II, nr. contract 698/2009, director grant Oleksik V., perioada de desfășurare 2009-2011, buget 194613 RON

Pn3. **Deac Cristian** – colaborator grant, *Cercetări privind preprocesarea și procesarea materialelor compozite avansate cu matrice metalică MMCs și ceramică CMCs*, program CEEEX, nr. contract 166/2006, responsabil ULBS Nemeș T., perioada de desfășurare 2006-2008, buget 70000 RON

Pn4. **Deac Cristian** – colaborator grant, *Sisteme inteligente de prelucrare prin deformare plastică la rece în construcție modulară*, contract grant nr. 24/2005, beneficiar AMCSIT-Politehnica București.

Pn5. **Deac Cristian** – colaborator grant, *Modernizarea mașinilor de rectificat și ascuțit din fabricația și exploatarea partenerilor industriali prin echiparea cu sisteme de comandă numerică*, contract grant nr. 1841/2003, beneficiar AMCSIT-Politehnica București.

Pn6. **Deac Cristian** – colaborator grant, *Configurarea unui laborator de cercetare în domeniul sistemelor flexibile de prelucrare prin presare*, contract grant nr. 1365/2001, beneficiar AMCSIT-Politehnica București.

Pn7. **Deac Cristian** - colaborator grant, *Structuri de conducere, supraveghere și optimizare a consumurilor specifice de energie și fluide tehnologice pe linii de procesare termică în mediu gazos – etapa III, faza 6 – 3902/2001*, Execuție probe, măsurători și determinări metalografice pe produse finite supuse tratamentului termic de cementare în mediul gazos, contract 747/2000, beneficiar AMCSIT POLITEHNICA București, Programul RELANSIN-INTEGRARE, 2000-2003.

Pn8. **Deac Cristian** – colaborator grant, *Optimizarea unor performanțe ale preselor mecanice folosite la prelucrarea materialelor compozite*, contract grant nr. 6229/2000, beneficiar ANSTI.

c) Contracte de cercetare cu terți

F1. Deac Cristian - colaborator contract, *Prestare servicii de consultanță tehnică*, contract nr. 1329 / 18.04.2012, beneficiar: H.Stoll GmbH & Co. KG, Reutlingen, Germania, director contract Brad R., buget 6000 EUR, perioada de desfășurare 2012.

F2. Deac Cristian - colaborator contract *Studii și cercetări privind nivelul de compatibilitate cu caracteristicile de exploatare a unor materiale tubulare metalice (țevi de extracție), ca urmare a degradării premature a acestora – țevi de extracție care echipează sondele de gaz ale S.N.G.N.ROMGAZ S.A.*”, beneficiar: S.C. S.N.G.N.ROMGAZ S.A. Mediaș, director contract Petrescu V., buget 147000 RON, de desfășurare 2011.

F3. **Deac Cristian** - colaborator contract, *Protecția locală la nitrurarea ionică a unor piese care prezintă zone nefuncționale (neprelucrate mecanic)*, contract nr. 886/2004, beneficiar S.C. METALCAR S.A. Sibiu, director contract Bibu M., buget 3000 RON.

F4. **Deac Cristian** - colaborator contract, *Îmbunătățirea tehnologiei de fabricație a axelor conducătoare (de la presele tip SS-400), prin izolare locală a acestora cu vopsele speciale de protecție la nitrurarea în plasmă*, contract nr. 1016/2004, beneficiar S.C. SIMEROM S.A. Sibiu.

F5. **Deac Cristian** - colaborator contract, *Creșterea rezistenței la uzură și la coroziune prin nitrurarea ionică a matritelor de granulare a polietilenei*, contract nr. 2535/2004, beneficiar S.C. GROSING S.R.L. Tecuci.

F6. **Deac Cristian** - colaborator contract, *Procedeu tehnologic de protecție anticorosivă a oțelurilor prin tratament combinat (acoperire galvanică + tratament termochimic)*, contract nr. 247/2004, beneficiar S.C. SIRTRAND S.R.L. Galați.

Sibiu,

15.04.2022