

## LISTA LUCRARILOR PUBLICATE

### Lista de lucrări relevante

1. Draghici, S.; Parausanu, I.; **Baciu, F.** ; Petrescu, H.A; Hadar, A.; Pastrama, S.D., *A Comparative Experimental - Numerical Analysis on the Vibration Behaviour of a Composite Satellite Subset*, Materiale Plastice (**FI 0,903**), Volume 53, Issue 4, Dec 2016, Pages 585-589, [WOS:000395047100003](https://doi.org/10.1016/j.ceramint.2015.03.01)
2. Bolcu, D., Sava, M., Dinita, A., Miritoiu, C.M., **Baciu, F.**, *The influence of discontinuities on elastic and mechanical properties of composite materials reinforced with woven Carbon, Carbon-Kevlar and Kevlar* ", Materiale Plastice (**FI 0,903**), Volume 53, Issue 1, March 2016, Pages 23-28, [WOS:000373966500006](https://doi.org/10.1016/j.ceramint.2015.03.01)
3. Vladescu, M. Dinu, M. Braic, C. Vitelaru, M. Balaceanu, M. Tarcolea, V. Braic, **F. Baciu**, C.M. Cotrut, *"The effect of TiSiN interlayers on the bond strength of ceramic to NiCr and CoCr alloys"*, Ceramics International (**FI 2,758**); Vol. 41, Issue 6, Pages 8051-8058, doi:10.1016/j.ceramint.2015.03.01, [WOS:000354140300113](https://doi.org/10.1016/j.ceramint.2015.03.01)
4. **Baciu, F.**; Hadar, A. ; Sava, M. ; Stanescu, M.M.; Bolcu, D., *Calculation of the Relative Uniformity Coefficient on the Green Composites Reinforced with Cotton and Hemp Fabric*, International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29, 2015, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), AIP Conference Proceedings, Vol. 1738, Published: 2016, [DOI: 10.1063/1.4952322](https://doi.org/10.1063/1.4952322) WOS:000380803300539
5. Taca, M., Constantinescu, D.M., **Baciu, F.**, Geanta, V., Daisa, D., Stefanoiu, R., *"Influence of Technological Parameters on the Toughness Improvement of Microalloyed Steels"*, Materials Today: Proceedings Volume 3, Issue 4, 2016, Pages 1177-1182, [WOS:000373068900052](https://doi.org/10.1063/1.4952322)
6. **Baciu, F.**, Bratosin, C., Rusu-Casandra, A., *"A Three-dimensional Finite Element Analysis of Restored Deciduous Canine"*, 6th International Conference „Biomaterials, Tissue Engineering & Medical Devices”, Constanța, Romania, 17-20 septembrie 2014, BiomMedD 2014, Key Engineering Materials Vol. 638 (2015) pp 123-129; [doi:10.4028/www.scientific.net/KEM.638.123](https://doi.org/10.4028/www.scientific.net/KEM.638.123)(SCOPUS)
7. Rusu-Casandra Aurelia Liliana, , **Baciu Florin**, Iliescu Nicolae, Atanasiu Costica, *"Stresses in a Bogie Frame of a Rail Carriage"*, Edited By Branko Katalinic; 25th DAAAM International Symposium on Intelligent

Manufacturing and Automation, 2014; Procedia Engineering; Volume 100, 2015, Pages 482–487; doi:10.1016/j.proeng.2015.01.394  
[WOS:000380551900060](https://doi.org/10.1016/j.proeng.2015.01.394)

8. Cotruț, C.M.; Târcolea, M.; Vrânceanu, M.D.; Gherghilescu, A.I.; Ghiban, N.; **Baciu, F**; Ionescu, I.C., ”*Stainless steel brackets: In vitro corrosion behaviour and mechanical debonding test*”, Solid State Phenomena; Volume 216, 2014, Pages 187-193; 5th International Conference on Advanced Materials and Structures, AMS 2013; Timisoara; Romania; 24 - 25 October 2013; ISSN: 10120394; [WOS:000347924100032](https://doi.org/10.1016/j.proeng.2015.01.394), [DOI: 10.4028/www.scientific.net/SSP.216.187](https://doi.org/10.4028/www.scientific.net/SSP.216.187)
9. Bratosin, Claudia; **Baciu, Florin**; Rusu-Casandra, Aurelia, ”*Comparative Study of the Biomechanical Behavior of the Deciduous Molar-Restorative Material-Bone Assembly*”; Edited by: Katalinic, B; Conference: 24th DAAAM International Symposium on Intelligent Manufacturing and Automation Location: Univ Zadar, Zadar, CROATIA Date: OCT 23-26, 2013; Sponsor(s): DAAAM Int Assoc; Int Acad Engn; Vienna Univ Technol; Austrian Soc Engineers & Architects; Vienna Univ Appl Sci Technikum; DAAAM, Danube Rectors Conf; DAAAM, Rectors & Presidents Honor Comm; 24TH DAAAM INTERNATIONAL SYMPOSIUM ON INTELLIGENT MANUFACTURING AND AUTOMATION, 2013 Book Series: Procedia Engineering Volume: 69 Pages: 1251-1257 Published: 2014; [WOS:000335859300165](https://doi.org/10.1016/j.proeng.2014.03.116); doi:10.1016/j.proeng.2014.03.116

## I. TEZA (E) DE DOCTORAT (T)

2011 - Modelarea cu elemente finite a procesului de sudare în vederea determinării tensiunilor și deformațiilor remanente.

## II. CĂRȚI PUBLICATE (C)

**Ca 1. Baciu, Fl.**, „*Rezistența materialelor Suport de curs*”, CD, ISBN 978-606-23-0744-8, Ed. Printech, 2017

**Ca 2. Amza, C.Gh., Baciu, F., Radu, Ct., Tașcă, G.D.**, ”Proiectare asistată de calculator. AutoCAD 2012 – Ediție revizuită și adăugită”, ISBN 978-606-23-0278-8, Ed. Printech, 2014

**Ca 3. Jiga, G., Vlăsceanu D., Baciu, Fl.**, „*Rezistența materialelor Teste-grilă pentru facultățile de profil nemecanic*”, ISBN 978-973-718-681-2, Ed. Printech, 2007.

**Ca 4. Jiga, G., Pastramă, Șt., Baciu, Fl.**, ș.a. “*Teste grilă de Rezistența materialelor*”, ISBN 9975-63-241-8, Editura Tehnică INFO Chișinău, Republica Moldova, 2004,

### III.ALTE MATERIALE PUBLICATE (I,D)

### IV.ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

#### Ris total 8

**Ris 1.** Draghici, S.; Parausanu, I.; **Baciu, F.** ; Petrescu, H.A; Hadar, A.; Pastrama, S.D., *A Comparative Experimental - Numerical Analysis on the Vibration Behaviour of a Composite Satellite Subset*, Materiale Plastice (**FI 0,903**), Volume 53, Issue 4, Dec 2016, Pages 585-589, [WOS:000395047100003](#)

**Ris 2.** Bolcu, D., Sava, M., Dinita, A., Miritoiu, C.M., **Baciu, F.**, *The influence of discontinuities on elastic and mechanical properties of composite materials reinforced with woven Carbon, Carbon-Kevlar and Kevlar*”, Materiale Plastice (**FI 0,903**), Volume 53, Issue 1, March 2016, Pages 23-28, [WOS:000373966500006](#)

**Ris 3.** Miculescu, M., Vlăsceanu, R., **Baciu, F.**, Miculescu, F., Study on the metal-ceramic bonding strength improvement by unconventional methods, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 78, Issue 1, 1 January 2016, Pages 193-200, [ISSN 14542331](#)(SCOPUS)

**Ris 4.** Vladescu, M. Dinu, M. Braic, C. Vitelaru, M. Balaceanu, M. Tarcolea, V. Braic, **F. Baciu**, C.M. Cotrut, *”The effect of TiSiN interlayers on the bond strength of ceramic to NiCr and CoCr alloys”*, Ceramics International (**FI 2,758**); Vol. 41, Issue 6, Pages 8051-8058, doi:10.1016/j.ceramint.2015.03.01, [WOS:000354140300113](#)

Citări:

Jarzabek, DM.; Milczarek, M.; Wojciechowski, T., Dziekonski, C. ; Chmielewski, M., *The effect of metal coatings on the interfacial bonding strength of ceramics to copper in sintered Cu-SiC composites*, Ceramics International (**FI 2,758**), Vol. 43, Issue 6, Pages 5283-5291, Apr 15 2017, [WOS:000394556200073](#)

Mick, E., Tinschert, J., Mitrovic, A., Bader, R, *”A novel technique for the connection of ceramic and titanium implant components using glass solder bonding”*, MATERIALS (**FI 2,728**), Volume 8, Issue 7, 2015, Pages 4287-4298, [WOS:000359898300035](#)

Ciuca, S., Badea, M., Pozna, E., (...), Moga, M., Vladescu, A., *”Evaluation of Ag containing hydroxyapatite coatings to the Candida albicans infection”*, Journal of Microbiological Methods (**FI 1,857**), Volume 125, p. 12-18, [WOS:000376702200003](#)

**Ris 5.** Stanescu, Marius Marinel; Bolcu, Dumitru; Ciuca, Ion; Miritoiu, Cosmin Mihai; **Baciu, Florin**, *”Experimental Determinations of Stiffness and Damping Coefficient of the Sandwich Bars with Core of Polypropylene Honeycomb Reinforced with Steel Fabric”*, MATERIALE PLASTICE (**FI 0,903**) Volume: 50 Issue: 3 Pages: 179-182 Published: SEP 2013; [WOS:000324783500007](#)

Citări:

Jaffar, Mohd Isa; Badaruzzaman, Wan Hamidon Wan; Abdullah, Mohd Mustafa Al Bakri; et al., "Relationship Between Panel Stiffness and Mid-span Deflection in Profiled Steel Sheeting Dry Board with Geopolymer Concrete Infill", *MATERIALE PLASTICE (FI 0,903)*, Volume: 52 Issue: 2 Pages: 243-248 Published: JUN 2015 [WOS:000357767900025](#)

Miritoiu, C.M., Stanescu, M.M., Bolcu, D., Stanimir, A., Manea, I., "Experimental determinations and comparative studies of the stiffness for some sandwich bars reinforced with metal fabric", *Applied Mechanics and Materials*, Volume 658, pp. 249-254, [DOI 10.4028/www.scientific.net/AMM.658.249](#)(SCOPUS)

**Ris 6.** Atanasiu, C. , Pastramă, Ș.D. , **Baciu, F.**, Vlăsceanu, D., "Pure shearing tests of a prandtl-type material", *UPB Scientific Bulletin, Series D: Mechanical Engineering*; Volume 72, Issue 3, ISSN: 14542358; 2010, [Pages 49-58](#)(SCOPUS)

**Ris 7.** Stanescu, Marius Marinel; Bolcu, Dumitru; Pastrama, Stefan Dan; Ciuca, Ion; Manea, Ion; **Baciu, Florin**, "Determination of Damping Factor at the Vibrations of Composite Bars Reinforced with Carbon and Kevlar Texture", *MATERIALE PLASTICE (FI 0,903)* Volume: 47 Issue: 4 Pages: 492-496 Published: DEC 2010; [WOS:000291134000020](#)

Citări:

Bolcu, D. ; Miritoiu, CM.; Bolcu, A.; Dinu, G., *Damping Study for Dammar Composite Bars Reinforced with Natural Fibers, With and Without Sandarac Core*, *MATERIALE PLASTICE (FI 0,903)* ,Volume: 53 Issue: 4 Pages: 632-638, Published: DEC 2016, [WOS:000395047100012](#)

Demir, E., *A study on natural frequencies and damping ratios of composite beams with holes*, *STEEL AND COMPOSITE STRUCTURES (FI 1,796)* , Volume: 21 Issue: 6 Pages: 1211-1226, DOI: 10.12989/scs.2016.21.6.1211, Published: AUG 30 2016, [WOS:000391133600002](#)

Marius Marinel; "Kelvin Model Equivalent to a Body with Viscoelastic Behaviour", *MATERIALE PLASTICE (FI 0,903)*, Volume: 53 Issue: 2 Pages: 235-239 Published: JUN 2016, [WOS:000380629300012](#)

Bolcu, Dumitru; Stanescu, Marius Marinel; Ciuca, Ion; et al., "Comparative Study about the Damping Properties of the Sandwich Beams with Core by Polystyrene or Polypropylene Honeycomb", *MATERIALE PLASTICE, (FI 0,903)* Volume: 50 Issue: 2 Pages: 100-105 Published: JUN 2013; [WOS:000320842600007](#)

Miritoiu, Cosmin Mihai; Bolcu, Dumitru; Stanescu, Marius Marinel; et al., "Determination of Damping Coefficients for Sandwich Bars with Polypropylene Honeycomb Core and the Exterior Layers Reinforced with Metal Fabric", By: *MATERIALE PLASTICE, (FI 0,903)* Volume: 49 Issue: 2 Pages: 118-122 Published: JUN 2012; [WOS:000305843200009](#)

**Ris 8.** **Baciu, F.**, Vlăsceanu, D., Târcolea, M., Slăvescu, D., Târcolea, R.M., Cotrut, C.M, Bololoi, R., "Behavior of mandible-implant interface under stress

and temperature ”, European Cells and Materials; Volume 16, Issue SUPPL. 1, 2008, [Page 19](#)(SCOPUS)

#### **Rns total 4**

**Rns 1.** Constantinescu D.M., Sandu M., Apostol D., Miron M., Moldovan P., Bojin D., **Baciu F.**, *Static and fatigue properties of magnesium alloys used in automotive industry*, Ingineria automobilului, Nr. 14, martie 2010, pag. 14-16, ISSN 1842-4074

**Rns 2.** Hadăr, A., Gheorghiu, H., **Baciu, Fl.**, Dinca, A., Tudor, D.I., *”Modification of the Mechanical Behaviour of Fiber Reinforced Composite Materials under the Action of the A. D. Type Bio-Phyto-Modulators”*, Bulletin UASVM Cluj-Napoca, Vol. 67, 2010, p. 505-511, ISSN 1843-5254

**Rns 3.** Hadăr, A., **Baciu, Fl.**, Gheorghiu, H., Dincă, A., *”Influence of Bio-Fito-Dynamic AD Type Modulators on Elastic and Mechanical Characteristics of Some Plastics”*, Bulletin UASVM Cluj-Napoca, Vol. 66, 2009, p. 900-906, ISSN 1843-5254

**Rns 4.** Atanasiu, D. Vlasceanu, **F. Baciu**, *”The experimental stress investigations by the strain gauge technique in the draw of bars and pipe installation”*, The annals of "Dunarea de jos" University of Galati, Fascicle XIV Mechanical engineering, ISSN 1224-5615, p.5-8

#### **Vis total 25**

**Vis 1.** **Baciu, F.**; Hadar, A. ; Sava, M. ; Stanescu, M.M.; Bolcu, D., *Calculation of the Relative Uniformity Coefficient on the Green Composites Reinforced with Cotton and Hemp Fabric*, International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29, 2015, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), AIP Conference Proceedings, Vol. 1738, Published: 2016, [DOI: 10.1063/1.4952322](#) WOS:000380803300539

**Vis 2.** Sava, M.; Hadar, A.; Parausanu, I.; Petrescu, H.A. ; **Baciu, F.**; Stanescu, M.M., *Analysis of Discontinuities Influence on the Differences between Static and Dynamic Elastic Modulus of Composite Materials*, International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29, 2015, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), AIP Conference Proceedings, Vol. 1738, Published: 2016, [DOI: 10.1063/1.4952321](#), WOS:000380803300538

**Vis 3.** Sava, M.; Hadar, A. ; Parausanu, I.; Petrescu, HA.; **Baciu, F.**; Stanescu, M.M., *Validation of the Numerical Model of Single-layer Composites Reinforced with Carbon Fiber and Aramid*, International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29,

2015, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), AIP Conference Proceedings, Vol. 1738, Published: 2016, [DOI: 10.1063/1.4952316](https://doi.org/10.1063/1.4952316), WOS:000380803300533

**Vis 4.** Taca, M., Constantinescu, D.M., **Baciu, F.**, Geanta, V., Daisa, D., Stefanoiu, R., ”*Influence of Technological Parameters on the Toughness Improvement of Microalloyed Steels*”, Materials Today: Proceedings Volume 3, Issue 4, 2016, Pages 1177-1182, [WOS:000373068900052](https://www.wos.com/wos/000373068900052)

Citări:

Taca, M., Daisa, D., Geanta, V., Stefanoiu, R., Voiculescu, I., Constantinescu, D.M., Vintila, A., *Atinfluence of forging parameters on the structure and toughness of forged parts*, 33rd Danubia Adria Symposium on Advances in Experimental Mechanics; Portoroz; Slovenia; 20 September 2016 through 23 September 2016; [Pages 126-127](https://www.scopus.com/publicationid/urn:sid:000905012016000126127)(SCOPUS)

**Vis 5.** **Baciu, F.**, Bratosin, C., Rusu-Casandra, A., ”*A Three-dimensional Finite Element Analysis of Restored Deciduous Canine*”, 6th International Conference „Biomaterials, Tissue Engineering & Medical Devices”, Constanța, Romania, 17-20 septembrie 2014, BiomMedD 2014, Key Engineering Materials Vol. 638 (2015) pp 123-129; [doi:10.4028/www.scientific.net/KEM.638.123](https://doi.org/10.4028/www.scientific.net/KEM.638.123)(SCOPUS)

**Vis 6.** Rusu-Casandra Aurelia Liliana, , **Baciu Florin**, Iliescu Nicolae, Atanasiu Costica, ”*Stresses in a Bogie Frame of a Rail Carriage*”, Edited By Branko Katalinic; 25th DAAAM International Symposium on Intelligent Manufacturing and Automation, 2014; Procedia Engineering; Volume 100, 2015, Pages 482–487; doi:10.1016/j.proeng.2015.01.394 [WOS:000380551900060](https://www.wos.com/wos/000380551900060)

**Vis 7.** Cotruț, C.M.; Târcolea, M.; Vrânceanu, M.D.; Gherghilescu, A.I.; Ghiban, N.; **Baciu, F**; Ionescu, I.C., ”*Stainless steel brackets: In vitro corrosion behaviour and mechanical debonding test*”, Solid State Phenomena; Volume 216, 2014, Pages 187-193; 5th International Conference on Advanced Materials and Structures, AMS 2013; Timisoara; Romania; 24 - 25 October 2013; ISSN: 10120394; [WOS:000347924100032](https://www.wos.com/wos/000347924100032), [DOI: 10.4028/www.scientific.net/SSP.216.187](https://doi.org/10.4028/www.scientific.net/SSP.216.187)

**Vis 8.** Bratosin, Claudia; **Baciu, Florin**; Rusu-Casandra, Aurelia, ”*Comparative Study of the Biomechanical Behavior of the Deciduous Molar-Restorative Material-Bone Assembly*”; Edited by: Katalinic, B; Conference: 24th DAAAM International Symposium on Intelligent Manufacturing and Automation Location: Univ Zadar, Zadar, CROATIA Date: OCT 23-26, 2013; Sponsor(s): DAAAM Int Assoc; Int Acad Engn; Vienna Univ Technol; Austrian Soc Engineers & Architects; Vienna Univ Appl Sci Technikum; DAAAM, Danube Rectors Conf; DAAAM, Rectors & Presidents Honor Comm; 24TH DAAAM INTERNATIONAL SYMPOSIUM ON INTELLIGENT MANUFACTURING AND AUTOMATION, 2013 Book Series: Procedia Engineering Volume: 69 Pages: 1251-1257 Published: 2014; [WOS:000335859300165](https://www.wos.com/wos/000335859300165); doi:10.1016/j.proeng.2014.03.116

**Vis 9.** Rusu-casandra, A.L., **Baciu, F.**, Iliescu, N., Atanasiu, C., "*Stresses and strains in a torpedo pot for cast iron*", Edited by: Katalinic, B; 23rd DAAAM International Symposium on Intelligent Manufacturing and Automation 2012; Zadar; Croatia; 24 - 27 October 2012 Sponsor(s): DAAAM Int Assoc; Int Acad Engn; Vienna Univ Technol; Austrian Soc Engineers & Architects; Vienna Univ Appl Sci Technikum; DAAAM, Danube Rectors Conf; DAAAM, Rectors & Presidents Honor Comm; 23rd DAAAM International Symposium on Intelligent Manufacturing and Automation 2012; Volume 1, 2012, [Pages 437-440](#); Conference Paper, (SCOPUS)

**Vis 10.** Rusu-Casandra, A.L., Iliescu, N., **Baciu, F.**, "*Comparative study of the stress state in plates assembled with screws*", Edited by: Katalinic ; 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 23 - 26 November 2011; Sponsors: Denona D.D.,Festo,HSTEC D.D.,KHS GmbH,Kordun,MKW Kunststofftechnik GmbH; 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 2011, [Pages 487-488](#); Conference Paper, (SCOPUS)

**Vis 11.** Rusu-Casandra, A.L., Iliescu, N., **Baciu, F.**, "*Numerical and experimental stress analysis of a crown-molar system*", Edited by: Katalinic ; 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 23 - 26 November 2011; Sponsors: Denona D.D.,Festo,HSTEC D.D.,KHS GmbH,Kordun,MKW Kunststofftechnik GmbH; 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 2011, [Pages 489-490](#); Conference Paper, (SCOPUS)

**Vis 12.** Rusu-Casandra, A., Iliescu, N., **Baciu, F.**, "*Stress analysis of a rolling slideway*", Edited by: Katalinic; Annals of DAAAM for 2010 and 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 20 - 23 October 2010; Sponsors: Denona D.D.,Festo,HSTEC D.D.,KHS AG - Filling and Packing - Worldwide,Kordun,MKW Kunststofftechnik GmbH; 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 2010, [Pages 673-674](#); Conference Paper, (SCOPUS)

**Vis 13.** Rusu-Casandra, A., Iliescu, N., **Baciu, F.**; "*Combined study of stress state in two types of manipulator grippers*"; Edited by: Katalinic; Annals of DAAAM for 2010 and 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 20 - 23 October 2010; Sponsors: Denona D.D.,Festo,HSTEC D.D.,KHS AG - Filling and Packing - Worldwide,Kordun,MKW Kunststofftechnik GmbH; 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 2010, [Pages 671-672](#); Conference Paper, (SCOPUS)

**Vis 14.** Rusu-Casandra, Aurelia; Iliescu, Nicolae; **Baciu, Florin**, ”*Comparison of three-dimensional finite element and photoelastic results for a scroller shaft* ”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Volume: 20 Pages: 575-576 Published: 2009; [WOS:000282335600288](#)

**Vis 15.** Rusu-Casandra, Aurelia; Iliescu, Nicolae; **Baciu, Florin**, ”*Combined study on mechanical behavior of scroller shafts*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Volume: 20 Pages: 279-280 Published: 2009; [WOS:000282335600140](#)

**Vis 16.** Gheorghiu, Horia; Dinu, Gabriela; **Baciu, Florin**, ”*The determination of the strain state in the bed of a press* ”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Volume: 20 Pages: 979-980 Published: 2009; [WOS:000282335600490](#)

**Vis 17.** Atanasiu, Costica; Vlasceanu, Daniel; **Baciu, Florin**, ”*The experimental stress investigations in bars of the draw installation of pipes*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Volume: 20 Pages: 901-902 Published: 2009; [WOS:000282335600451](#)

**Vis 18.** Dan Pastrama, S., Iliescu, N., **Baciu, F.**, Gruionu, L., ”*Experimental investigations on the mechanical behavior of a total knee prosthesis during walking*”, Editors: Eichlseder W; 26th Danubia-Adria Symposium on Advances in Experimental Mechanics; Montanuniversitat LeobenLeoben; Austria; 23 - 26 September 2009; [Pages 175-176](#); Conference Paper, (SCOPUS)



**Vis 19.** Atanasiu, Costica; **Baciu, Florin**; Vlasceanu, Daniel, ”*The stress distribution in a filleted shell*”, Edited by: Daniel, M; Holy, S; Ruzicka, M; Conference: 25th Danubia-Adria Symposium on Advances in Experimental Mechanics Location: Ceske Budejovice, CZECH REPUBLIC Date: SEP 24-27, 2008; Sponsor(s): Czech Techn Univ Prague; Inst Technol & Business Ceske Budejovice; Czech Soc Mech; Czech Assoc Mech Engn; 25TH DANUBIA-ADRIA SYMPOSIUM ON ADVANCES IN EXPERIMENTAL MECHANICS Pages: 3-4 Published: 2008 [WOS:000292693200002](#)

**Vis 20.** Dinu, Gabriela; Atanasiu, Costica; **Baciu, Florin**; et al., ”*Study of deformations in ram-boring spindle*”, Edited by: Katalinc, B; Conference: 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008; ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Pages: 379-380 Published: 2008; [WOS:000262860100189](#)

Citări:

Dinu, G., Hadar, A., Vlasceanu, D., ”*A determination of the displacements of the contact surface*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings [Pages: 733-734](#) Published: 2009, (SCOPUS);

**Vis 21.** Dinu, Gabriela; **Baciu, Florin**; Vlasceanu, Danielâ; et al.,”*Study the strength and stiffness of a boring and milling machine bed*”, Edited by: Katalinc, B; Conference: 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008; ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Pages: 381-382 Published: 2008; [WOS:000262860100190](#)

Citări:

Dinu, G., Hadar, A., Vlasceanu, D., ”*A determination of the displacements of the contact surface*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings [Pages: 733-734](#) Published: 2009, (SCOPUS)

**Vis 22.** Nicodim, Mariana; Vlasceanu, Daniel; **Baciu, Florin**, ”*Design of a safety mechanism for machine tools*”, Edited by: Katalinc, B; Conference: 19th

International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008; ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Pages: 973-974 Published: 2008; [WOS:000262860100486](#)

**Vis 23.** Vlasceanu, Daniel; Cotrut, Cosmin; Tarcolea, Mihai; **Baciu, Florin;** Nicodim, Mariana, ”*Investigation of the hard films deposited by pvd-magnetron sputtering on the cutting tools*”, Edited by: Katalinc, B; Conference: 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008; ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings Pages: 1487-1488 Published: 2008; [WOS:000262860100743](#)

**Vis 24.** Jiga, G.; Vlasceanu, D.; **Baciu, F.**, ”*Analysis of a roll over protective structure using the finite element method* ”, Edited by: Katalinic, B; Conference: 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Zadar, CROATIA Date: OCT 24-27, 2007; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Univ Zadar; Vienna Univ Technol; Univ Appl Sci Technikum; Austrian Sco Engineers & Architects; ANNALS OF DAAAM FOR 2007 & PROCEEDINGS OF THE 18TH INTERNATIONAL DAAAM SYMPOSIUM: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON CREATIVITY, RESPONSIBILITY, AND ETHICS OF ENGINEERS Pages: 359-360 Published: 2007; [WOS:000252067400180](#)

**Vis 25.** Filipou, Ioan Dan; Carutasu, Nicoleta Luminita; Radu, Gheorghe; **Baciu, Florin**, ”*The tension state - Deformations in the metallic sructure of a multifunctional backpack*”, Edited by: Katalinic, B; Conference: 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Zadar, CROATIA Date: OCT 24-27, 2007; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Univ Zadar; Vienna Univ Technol; Univ Appl Sci Technikum; Austrian Sco Engineers & Architects; ANNALS OF DAAAM FOR 2007 & PROCEEDINGS OF THE 18TH INTERNATIONAL DAAAM SYMPOSIUM: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON CREATIVITY, RESPONSIBILITY, AND ETHICS OF ENGINEERS Pages: 279-280 Published: 2007; [WOS:000252067400140](#)

## **Vi total 24**

**Vi 1.** Cormoș, R., Petrescu, H-A., **Baciu, F.**, Hadăr, A., *Finite Element Model Validation for a Multilayered Honeycomb Structure Under Compressive Load*, The 5th International Conference on “Structural Analysis of Advanced Materials”, ICSAAM-2013 23 - 26 September 2013, Kipriotis Village Resort, Island of Kos, Greece, on CD

**Vi 2.** Drăghici, S., **Baciu, F.**, Voicu, R., Hadăr, A., *Equipment Design and Structural Analysis of CFRP Electronics Housing vs. Aluminium Electronics Housing for an ADPMS*, The 5th International Conference on “Structural Analysis of Advanced Materials”, ICSAAM-2013 23 - 26 September 2013, Kipriotis Village Resort, Island of Kos, Greece, on CD

**Vi 3.** Hadăr, A., Nica, M.N., Bolcu, D., Stănescu, M.M., **Baciu, F.**, Mirițoiu, C.M., *Damping of Vibrations of Sandwich Bars with Natural Resin Middle Layer Reinforced with Natural Fiber Fabric*, The 5th International Conference on “Structural Analysis of Advanced Materials”, ICSAAM-2013 23 - 26 September 2013, Kipriotis Village Resort, Island of Kos, Greece, on CD

**Vi 4.** M. Dinu, C. Cotrut, A. Vladescu, V. Braic, M. Târcolea, A. Kiss, M. Braic, **F. Baciu**, *Synthesis and characterization of Ti-SiON biocompatible thin films used in dental restoration*, International Seminar on Biomaterials & Regenerative Medicine BioReMed’2013, 30 mai-2 iunie 2013, Iasi

**Vi 5.** M. Târcolea, **F. Baciu**, C. Cotrut, *Effects of simulated masticatory force on metallic crowns for porcelain bridges*, International Seminar on Biomaterials & Regenerative Medicine BioReMed’2013, 30 mai-2 iunie 2013, Iasi

**Vi 6.** C.M. Cotrut, M. Târcolea, M. Dinu, **F. Baciu**, *The influence of TiSiN coatings on bond strength of NiCr and CoCr alloy to dental ceramic*, E-MRS 2013 SPRING MEETING, 27-31 mai 2013, Strasbourg, France

**Vi 7.** Constantinescu D.M., Moldovan P., Sillekens W.H., Sandu M., Bojin D., Baciu F., Apostol D., Miron M., *Static and Fatigue Properties of Magnesium Alloys used in Automotive Industry*, The 8-th International Conference ESFA 2009, 12-14 november 2009, Bucharest, Romania, ISSN 2067-1083, vol. 1, pp.257-264

**Vi 8.** Dinu, G., **Baciu, F.**, *Contributions for estimation for estimation of the displacements in contact*, International Conference on Structural Analysis of Advanced Materials, ICSAM-2009, September 7-10, 2009, Tarbes, France.

**Vi 9.** Atanasiu C., Pastrama S., Vlasceanu D., **Baciu F.**, *Pure shearing tests of a Prandtl-type material*, ICSAAM 2009 Conference in Tarbes, Franta, p.126, ISBN 978-2-9534804-0-5, 7-10Septembrie, 2009

**Vi 10.** Atanasiu, C., **Baciu, Fl.**, Vlăsceanu, D., Draghici, S., „*The stress distribution in a filleted shell*”, 25th Danubia-Adria symposium on Advances in experimental Mechanics, Ceske Budejovice, Czech Republic, september 24-27,2008, p. 3-4

**Vi 11.** D.M. Constantinescu, P. Moldovan, W.H. Sillekens, M. Sandu, G. Popescu, **F. Baciu**, "*Fatigue life particularities of AZ80 Magnesium alloys used in Automotive industry*", 2nd Fatigue Symposium Leoben, 23-24 April 2008, Leoben, Austira, p. 117-127

**Vi 12.** Iliescu, N., Atanasiu, C., Pastramă, Ș.D., **Baciu, Fl.**, “*Numerical and experimental study of the stress state and the possibility of crack initiation in a fastening element of a hydroaggregate*”, The 13<sup>th</sup> International Conference of Fracture Mechanics, Modeling and Optimization in the Machines Buiding Field, MOCM – 13 Volume 4, Universitatea din Bacău, 1-3 noiembrie 2007, p. 121-124;

**Vi 13.** Gheorghiu, H., **Baciu, Fl.**, Vlăsceanu, D., „*Nonlinearity in curved tube loaded with internal pressure*”, 9<sup>th</sup> International Conference on Management of Innovative Technologies MIT`2007, 9 – 10 octombrie 2007, Fiesa, Slovenia, p. 182-184;

**Vi 14.** Jiga, G., Vlasceanu, D., **Baciu, Fl.**, „*Considerations on the tensile residual stress evaluation of two different composite materials ballistically impacted*”, 24<sup>th</sup> DANUBIA-ADRIA Symposium on Developments in Experimental Mechanics, 19-22 septembrie 2007, Sibiu, Romania, p. 75-76;

**Vi 15.** Dinu, G., **Baciu, Fl.**, „*The study of strains within the assembly of a machine – tool*”, 24<sup>th</sup> DANUBIA-ADRIA Symposium on Developments in Experimental Mechanics, 19-22 septembrie 2007, Sibiu, Romania, p.157-158;

**Vi 16.** Dinu, G., **Baciu, Fl.**, „*A study on the stiffness computation for a machine-tool*”, The International Conference on Structural Analysis of advanced Materials, 2-6 septembrie 2007, Patras, Grecia.

**Vi 17.** Atansiu, C., Ilescu, N., **Baciu Fl.**, „*Comparative experimental reserch on residual stress in semi-products*”, The International Conference on Structural Analysis of advanced Materials, 2-6 septembrie 2007, Patras, Grecia.

**Vi 18.** Jiga, G., **Baciu, Fl.**, Vlăsceanu, D., „*Effects of the stacking sequence upon the interlaminar stresses in a general multidirectional laminate*”, The International Conference on Structural Analysis of advanced Materials, 2-6 septembrie 2007, Patras, Grecia.

**Vi 19.** **Baciu, Fl.**, Vlăsceanu, D., Târcolea, M., Jiga, G., Slăvescu, D., Târcolea, R.M., „*Study of Mandible-implant interface behavior under stresses*”, The International Conference on Structural Analysis of advanced Materials, 2-6 septembrie 2007, Patras, Grecia.

**Vi 20.** **Baciu, F.**, Tarcolea, M., Slavescu, D., R. M. Tarcolea, „*FEM study of stresses in mandible-implant interface*”, BiomMedD'2006, 9-11 Noiembrie 2006.

**Vi 21.** Vlăsceanu D., Jiga G. , **Baciu Fl.**, „*Hard metal growth life of TiN coated cutting tools*“, The 8th International Conference on Management of Inovative Technologies MIT 2005;

**Vi 22.** Jiga, G., **Baciu, Fl.**, Vlăsceanu, D., „*Elaboration et détermination des propriétés d'un matériau composite à matrice métallique et particules céramiques*”, La XXX<sup>ème</sup> Session de Communications Scientifiques à participation internationale, Technologies modernes au XXI<sup>ème</sup> siècle, p. 249-254;

**Vi 23.** Jiga, G., Vlăsceanu, D., **Baciu, Fl.**, „*Influence of the stacking sequence and volume fraction on the response of a laminated plate subjected to tensile load*“, Al X-lea Simpozion Internațional de Tensometrie și Incercări de materiale, Sibiu, 22-23 octombrie 2004 , p. 61 – 66;

**Vi 24.** Sandu M., **Baciu F.**, Vlăsceanu, D., „*Force/ pressure strain gauge transducer with an optimized elastic element*”, Al X-lea Simpozion Internațional de Tensometrie și Incercări de materiale, Sibiu, 22-23 octombrie 2004 , p. 43 – 47;

## Vn total 5

**Vn 1.** Atanasiu, C., Pastramă, St., **Baciu, F.**, Vlăsceanu, D., *Pure Shearing Test of a Prandtl – Type Material*, National Conference on Mechanics of Solids, CNMS – XXXIII, Bucharest, 2009,

**Vn 2.** **Baciu, Fl.**, Vlăsceanu, D., Târcolea, M., Cotruț, C.M., Slăvescu, D., *“Studiul stării de tensiune la interfața implant-mandibulă”*, Simpozionul Național de Biomateriale, Cluj-Napoca, 18-20 octombrie 2007

**Vn 3.** Miculescu, M., Târcolea, M., Coșmeleață, G., **Baciu Fl.**, Vlăsceanu, D., Târcolea R.M., *„Transferul termic la interfața implant-mandibulă”*, Simpozionul Național de Biomateriale, Cluj-Napoca, 18-20 octombrie 2007

**Vn 4.** Morosanu, V. Nelea, Carmen Plapcianu, J. Neamtu, F. Dumitrache, G. Socol, **F. Baciu**, I. N. Mihailescu, *“Efectul tratamentelor termice asupra refacerii structurale a filmelor biocompatibile de fosfați de calciu”*, Simpozionul Național de Biomateriale, 13-14 Decembrie 2002, Bucuresti, abstract S1-I-67;

**Vn 5.** **Baciu, F.**, Ciucă, S., Vlăsceanu, D., *„Studii de structură și compoziție privind acoperirile de ceramice bioactive de fosfați de calciu prin procedee PVD - pulverizare magnetron în radio-frecvență.”*, Simpozionul național de Biomateriale Galați 2003

## V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

## VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

Pn 1. “ANTREPRENOR - Idei de afaceri de succes si dezvoltarea antreprenoriatului in regiunile Bucuresti-Ilfov si Sud-Vest Oltenia”, Proiect POSDRU 176/3.1/S/150650 (2015) – Responsabil partener

Pn 2. “*ACTIV pe Piața Muncii: Abilități și Competențe Tehnice pentru Integrare și Valorificare pe Piața Muncii*”, Proiect POSDRU /125/5.1/S/125723, (2014-2015)

Pn 3. “*Comunitate virtuală pentru asigurarea calității și perfecționării managementului strategic și inovativ în universitățile tehnice și compozite, în vederea creșterii relevanței învățământului superior pentru piața muncii - ACAD-INOV*”, Proiect POSDRU /155/1.2/S/141884, (2014-2015)

Pn 4. “*Formarea personalului didactic din învățământul secundar (ISCED 2-3) în vederea utilizării tehnologiei informației și a instrumentelor e-learning în activitatea didactică*”, Proiect POSDRU, ID 64227, (2010-2013)

Pn 5. “*Comunitate virtuală interuniversitară pentru știință, tehnologie, inovare și valorificare a proprietății intelectuale*”, Proiect POSDRU, ID 56872, (2010-2013)

Pn 6. *“Oteluri nanoprecipitate microaliate cu tenacitate înaltă”*, UEFISCDI, Contract nr. 170/2012, Cod depunere: PN-II-PT-PCCA-201-3.2-1018, Participant

Pn 7. *“Aplicatii performante ale materialelor compozite cu gradient functional”* - COMGRAD, UEFISCDI, Contract nr. 246/2014, participant

Pn 8. *“Structuri elastice optimale pentru captoare cu traductoare rezistive”*, Tema 44, Contract nr.40528/05.11.2003, cod CNCSIS 125 tip A., 2003-2005, participant

Pn 9. *“Proiectarea si incercarea materialelor compozite multifunctionale laminate si sandwich utilizate pentru asigurarea integritatii structurilor”*, CNCSIS, participant 2006-2008, participant

Pn 10. *“Îmbunătățirea calității vieții pacienților cu artoplastii prin creșterea duratei de viață a endoprotezelor”*, CEEEX 131/2006 - programul Viasa

Pn 11. *„Tehnologie și instalație ecologică pentru determinarea ansamblelor de oțel”*, CEEEX, 153/2006, participant 2006-2008, participant

Pn 12. *“Cercetări privind realizarea din materiale compozite a elementelor modulare în scopul creșterii rezistenței la șocuri a structurilor de protecție mecanică destinate parapetilor pentru drumuri-ELMOSTPRO”* – CEEEX 211/2006, participant 2006-2008, participant

Pn 13. *“Cercetări privind realizarea unor elemente modulare din materiale compozite pentru mărirea rezistenței la șocuri mecanice a structurilor protective ale cabinelor mașinilor mobile – EMCOM”* – CEEEX 213/2006, participant 2006-2008, participant

Pn 14. *„Baterie sanitară multifuncțională cu control digital prin senzori de proximitate al parametrilor funcționali”*, BACTA- contract INOVARE nr. 63/25.09.2007, participant

Pn 15. *„Generator de impulsuri mecanice cu acționare electrică având energia impulsurilor în domeniul: 10-10000 J/impuls”*, MEGA – contract INOVARE nr. 61/25.09.2007, participant

Pn 16. *„Instalație și tehnologie de turnare în vid a reperelor mecanice din aliaje de aluminiu ale produsului Mira Reflex”*, MIRA - contract INOVARE nr. 79/25.09.2007, participant

Pn 17. *„Instalație eoliană de mică și medie putere pentru agricultură și întreprinderi mici și mijlocii”*, EVANS - contract INOVARE nr. 82/25.09.2007, participant

Pn 18. *Structuri compozite complexe destinate protecției balistice a persoanelor si echipamentelor militare si civile, solicitate la impact cu viteze supersonice (PROTECTIMPACT)*, beneficiar ICEM SA, Contract PN2 nr. 81-008 / 18.09.2007

Pn 19. *Retea integrata pentru monitorizarea integritatii structurale a componentelor critice din instalatiile nucleare (RIMIS)*, IFA - CERES, Contract CEEEX nr. 2 - CEX06 - 10 - 81/ 26.07.2006

Pn 20. *Platforma tehnologica integrata de inginerie electrochimica a suprafetelor pentru materiale avansate; aplicatii in domeniul evaluarii integritatii*

*si fiabilitatii structurilor (ELSUSTRUCT)*, AMCSIT, Contract CEEEX nr. 255 / 11.09.2006

Pn 21. *Modelarea si simularea comportarii la solicitari complexe a materialelor compozite cu aplicatii in industria aeronautica (MOSCOM)*, AMCSIT, Contract CEEEX nr. 202 / 20.07.2006

Pn 22. *Retea nationala de cercetare in domeniul ingineriei integrate a produselor si proceselor, INPRO*, CEEEX 243/2006

Pn 23. *Reductor diferential cu doua trepte de reducere, cu aplicatii intr-o gama larga de puteri si rapoarte de transmitere*, Contract INOVARE, nr. 285/2008, participant

Pn 24. *Instalatie solară hibridă de înalt randament pentru uz casnic, climatizare și furnizarea apei calde menajere*, Contract INOVARE, nr. 283 /2008, participant

Pn 25. *Manipulator telecomandat girostabilizat cu sistem de ochire optoelectronic integrat pentru armamentul de infanterie*, Contract INOVARE, nr. 284/2008, participant

Pn 26. Contract PN 2, nr.82-097/2008: *Blindaje compozite performante pentru protectie la amenintari multiple (PROTECTCOMB)*, beneficiar ICEM-SA

Pi 1. *„Continuous training program in the field of smart and new composite materials”* (proiect internațional), Proiect de mobilități Leonardo da Vinci 91105/EX încheiat cu Universitatea din Patras, Grecia, Iulie 2004

## **VII. PREMII ȘI RECUNOAȘTERE INTERNAȚIONALE:**

FESTO Young Researchers and Scientists Support Scholarship, The 19th international DAAM Symposium „ Make harmony between tehnology and nature, and your mind will fly vree as a bird”, 22-25 Octombrie 2007, Trnava, Slovakia