



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Cătălin FETECĂU**

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Nationality Romanian

Date of birth 15.06.1959

Gender Male

Work experience

Dates **February 2002 onwards (since 2008 – Dean of the Faculty of Mechanical Engineering)**

Occupation or position held Professor PhD. Eng.

Main activities and responsibilities Teaching and research in the field of Plastic Materials and Designing of Cutting Tools

Name and address of employer Dunarea de Jos University of Galati, Faculty of Mechanical Engineering
47 Domneasca Street, Galati, 800008, Romania

Type of business or sector Academic - Research

Dates **September 1999 – February 2002 (January 2000-February 2008 – Director of the Department for Continuous Training and Technological Transfer)**

Occupation or position held Associate Professor Ph.D. Eng.

Main activities and responsibilities Teaching and research in the field of Plastic Materials and Modern Technologies in Engineering

Name and address of employer Dunarea de Jos University of Galati, Faculty of Mechanical Engineering
47 Domneasca Street, Galati, 800008, Romania

Type of business or sector Academic - Research

Dates **February 1992 – September 1999**

Occupation or position held Lecturer PhD Eng.

Main activities and responsibilities Teaching and research in the field of The Fundamentals of Surfaces Cutting and Generation, Technologies of Cold Processing, Technologies of Fine Mechanics

Name and address of employer Dunarea de Jos University of Galati, Faculty of Mechanical Engineering
47 Domneasca Street, Galati, 800008, Romania

Type of business or sector Academic - Research

Dates **October 1987 – February 1992**

Occupation or position held Assistent PhD. Eng.

Main activities and responsibilities Teaching in the field of The Fundamentals of Surfaces Cutting and Generation, Technologies of Cold Processing

Name and address of employer Dunarea de Jos University of Galati, Faculty of Mechanical Engineering
47 Domneasca Street, Galati, 800008, Romania

Type of business or sector Academic - Research

Dates **August 1984 – October 1987**

Occupation or position held Engineer – Workshop supervisor

Main activities and responsibilities Coordinating and supervising the activity of 85 workers
 Name and address of employer IUGC Galati, 2 Smirdan Street, Galati, Romania
 Type of business or sector Mechanical Engineering

Education and training

Dates **March 1992 – November 1997**
 Title of qualification awarded Doctor Degree in the field of Industrial Engineering
 Principal subjects/occupational skills covered Theory of Cutting, Surfaces Generation, Cutting Tools, Optimizing the tool cutting area geometry of helical borers with curved edge, Investigation techniques for increasing the helical borers durability.
 Name and type of organisation providing education and training Dunarea de Jos University of Galati, Faculty of Mechanical Engineering
 47 Domneasca Street, Galati, 800008, Romania

Dates **September 1979 – June 1984**
 Title of qualification awarded Engineer Degree in the field of Industrial Engineering
 Principal subjects/occupational skills covered Technologies in Machine Building, Designing of Cutting Tools, Designing of Machining Devices, Technologies of Cold Processing, Fundamentals of Surfaces Cutting and Generation, Designing of Manufacturing Technologies.
 Name and type of organisation providing education and training Dunarea de Jos University of Galati, Faculty of Mechanical Engineering
 47 Domneasca Street, Galati, 800008, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Independent user	B1	Independent user	A1	Elementary user	A1	Elementary user	A1	Elementary user
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B2	Independent user

(*) Common European Framework of Reference for Languages

Social skills and competences I am able to perform in a multi-cultural environment on my own or as part of a team without compromising the quality of my work and I have good communication and negotiation skills.

Organisational skills and competences I have significant experience in management activities: since 2008, I am the Dean of Faculty of Mechanical Engineering and I managed as director the Department for Continuous Training and Technological Transfer of Dunarea de Jos University of Galati for 7 years;
 I have good experience in research project management and funding schemes;
 I managed as director 10 research projects and I was a team member of 25 research contracts (one of these contracts was international);
 I participated in FP7 competition with two project proposals as research team leader, on behalf of Dunarea de Jos University of Galati, for call title FP7-NMP-2008-LARGE-2 și FP7-NMP-2008-SME-2;
 I gave my contribution for organizing 2 international conferences, 2 national symposiums, 9 workshops, 7 seminars, 4 professional competitions;
 I manage the activity of Research Laboratory of Polymer Materials (Certified ISO 9001 no. 1754 C/2008).

Computer skills and competences Proficient in Windows and Microsoft Office (Word, Excel and PowerPoint)
 Advanced user: AdvantEdge, Moldflow

Additional information **Scientific Referent**

- PROCEEDINGS of the ROMANIAN ACADEMY. Series A: Mathematics, Physics, Technical Science, Information Science, ISSN: 1454-9069;
 - Polymer Engineering & Science, ISSN: 0032-3888, Wiley, InterScience;

- International Journal of Machine Tools and Manufacture, ISSN: 0890-6955, ELSEVIER;
- Revista de Materiale Plastice, București, ISSN 0025-5289;
- Academic Journal of Manufacturing Engineering, Timișoara, ISSN 1583-7904;
- International Journal of Modern Manufacturing Technologies ISSN 2067–3604.

Research grants – Project Manager

I brought significant contributions on mechanical processing of plastic materials, numerical modeling and simulation of the injection process, calendaring of plastic materials as well as recycling of plastic materials. The main achievements are:

1. 2014-2015. Programul Operațional Sectorial „Creșterea Competitivității Economice (POS CCE) 2007-2013”, Axa Prioritară 1 „Un sistem de producție inovativ și ecoeficient”, Domeniul major de intervenție D1.3 „Dezvoltarea durabilă a antreprenoriatului”, Operațiunea „Dezvoltarea structurilor de sprijin al afacerilor de interes național și internațional”. Contract 12.P01.024/CDI 11. Nivel de finanțare: 4 386 843RON total proiect/ UDJ - 1 975 000 RON. Polul național de competitivitate în promovarea sistemelor moderne de fabricație pentru implementarea principiilor economiei verzi (National Pole of Competitiveness in Promoting the Manufacturing of Components and Modern Systems for Green Economy) - MEDGREEN / Cercetări și transfer tehnologic de materiale avansate, nanostructuri și tehnologii de fabricație pentru dezvoltarea sistemelor de energii regenerabile
Promotor: S.C. Grupul de Măsuratori și Diagnostică SRL Galați
Partener: Universitatea Dunarea de Jos din Galați
2. 2008-2011. CNCSIS. Contract PNII Idei 789. Nivel de finanțare: 1 000 000RON. Cercetari privind reologia aplicata la injectarea multi-component a materialelor polimerice.
Participanti: Universitatea Dunarea de Jos din Galați.
3. 2007-2008. CNCSIS. Contract A 674. Nivel de finanțare: 200 000RON. Modelarea și simularea optimala multi-obiectiv a procesului de injectare a pieselor complexe din materiale termoplastice.
Participanti: Universitatea Dunarea de Jos din Galați.
4. 2006-2008. MedC-ANCS. Contract CEEX- M1-C2-373, nr. 62/2006. Nivel finanțare: 1.068.875 RON. Model biomecanic pentru executia, incercarea și optimizarea protezei de sold.
Participanti: Universitatea Dunarea de Jos din Galați; Universitatea Tehnica Gh. Asachi din Iasi- Responsabil proiect: prof. dr, ing. Gheorghe Nagat; Universitatea din Bacau- Responsabil proiect: prof. dr, ing. Valentin Zichil; Institutul National de Cercetare pentru Sport Bucuresti- Responsabil proiect: prof. dr, ing. Dan Boboc.
5. 2006. MedC-ANCS.Contract CEEX - PR- MII – Resurse Umane – Proiecte de formare și perfecționare în managementul de cercetare/29.09.2006. Nivel finanțare: 13 900 RON. Denumire curs: Senior manager.
Responsabil proiect: prof. dr. ing Catalin Fetecau, director Departamentul de Formare Continua și Transfer Tehnologic, Universitatea Dunarea de Jos din Galați
Furnizor curs: Agentia Manageriala pentru Cercetarea Stiintifica, Inovare și Transfer Tehnologic AMCSIT Politehnica, responsabil curs – prof. dr. Sorin Ionescu.
6. 2006-2007. MedC-ANCS.Contract CEEX PR-D04-PT00-30 M3 nr 20/16.01.2006. Nivel finanțare: 2.000 mil ROL. Dezvoltarea unei retele de colaborare în domeniul tehnologiilor neconventionale.
Director: prof. dr. ing. Laurențiu Slatineanu, Universitatea Tehnica „Gh. Asachi” din Iasi.
Responsabil proiect (Partener 2): prof. dr. ing Catalin Fetecau, Universitatea Dunarea de Jos din Galați (Suma care a revenit UDJ 57 020 lei)
Participanti: Universitatea Tehnica Gh. Asachi din Iasi; Universitatea Dunarea de Jos din Galați, Universitate Stefan cel Mare din Suceava.
7. 2005. S.C. ATLAS S.A., Galați . Contract 378/1345, 25-01-2005. Nivel finanțare: 22 mil ROL. Optimizarea prelucrării alezajelor prin aschiere folosind noi metode de ascuțire a burghiilor elicoidale cu tăisuri curbe.
Participanti: Universitatea Dunarea de Jos din Galați.
8. 2005. S.C. BRAI-CATA S.R.L. ECOLOGIC Braila. Contract 379/1346, 27-01-2005. Nivel finanțare: 21 mil ROL. Cercetari teoretice și experimentale privind reciclarea materialelor plastice.
9. 2001. C.N.C.S.I.S. Contract 34976/314-20.07.2001- faza2. Nivel finanțare: 42 mil ROL. Sinteza procedeelelor de prelucrare mecanica a maselor plastice.
Participanti: Universitatea Dunarea de Jos din Galați.
10. 2000. Contract 36943/859-27.07.2000- faza1. Nivel finanțare: 48 mil RO. Sinteza procedeelelor de prelucrare mecanica a maselor plastice.
Participanti: Universitatea Dunarea de Jos din Galați.

Annexes

List of relevant publications and patents

List of relevant publications

Refereed Journals

ISI Journals

1. **Fetecău, C.**, Oancea, N., Stan, F., 2000, *Determination of the Capable Torque and the Axial Force for a Twist Drill Using Finite Element Method*. SME, SUA, Technical paper, pag. 1-5, MR00-111. SME Identification ID: TP00PUB15, Published: Jan 10, 2000.
2. **Fetecău, C.**, Stan, F., 2000, *Axial Force and Drilling Torque Measurement at Curved Cutting Edge of the Working Drill*. SME, SUA, Technical paper, pag. 1-7MR00-113. SME Identification ID: TP00PUB16, Published: Jan 10, 2000.
3. **Fetecău, C.**, 2005, *Aspecte reologice la prelucrarea materialelor plastice prin injectare. Faza de umplere*. În: Revista Materiale Plastice (IF 2005-0,412), București, ISSN 0025-5289, vol.42, nr.4, 2005, pp. 291-293.
4. **Fetecău, C.**, Stan, F., Popa, C., 2005, *Simularea injectării unei cupe cotiloide folosind analiza cu elemente finite*. În: Revista Materiale Plastice (IF 2005-0,412), București, ISSN 0025-5289, vol.42, nr.3, 2005, pp. 245-247.
5. **Fetecău, C.**, Stan, F., 2006, *Studiu numeric privind comportarea unor materiale termoplastice la calandrare*. În: Revista Materiale Plastice (IF 2006-0,319), București, ISSN 0025-5289, vol.43, nr.2, 2006, pp.146-149.
6. **Fetecău, C.**, Stan, F., Popa, C., 2006, *Studiu numeric comparativ privind comportarea unor materiale plastice biocompatibile la injectare*. În: Revista Materiale Plastice (IF 2006-0,319), București, ISSN 0025-5289, vol.43, nr.1, 2006, pp. 51-56.
7. **Fetecău, C.**, Blanco, M., S., J., Stan, F., Mihăilă, Șt., 2006, *Applications of Silicone Rubber for Spin Casting of ZnAl Alloys*. În: Revista Materiale Plastice (IF 2006-0,319), București, ISSN 0025-5289, vol.43 nr.3, 2006, pp.190-193.
8. **Fetecău, C.**, Cosma, L., Stan, F., 2007, *Study of the Cooling Time for the Injection of the Plastic Materials*. În: Revista Materiale Plastice (IF 2007-0,404), București, ISSN 0025-5289, vol.44 nr.2, 2007, pp.163-166.
9. **Fetecău, C.**, Stan, F., 2007, *Computational Prediction of Defects During Injection Molding in Complex Part*. În: Revista Materiale Plastice (FI 2007-0,404), București, ISSN 0025-5289, vol.44 nr.3, 2007, pp.180-184.
10. **Fetecău, C.**, Stan, F., 2007, *Analysis and Simulation of the Three-Dimensional Injection Moulding Process of Ultra-High Molecular Weight Polyethylene*. În: Revista Materiale Plastice (IF 2007-0,404), București, ISSN 0025-5289, vol.44 nr.4, 2007, pp. 262-268.
11. **Fetecău, C.**, Stan, F., and Oancea, N., 2009, *Toroidal Grinding Method for Curved Cutting Edge Twist Drills*, Journal of Material Processing Technology, Elsevier, Volume 209, Number 7, 1 apr. 2009, ISSN 0924-0136, (IF 2011-1,783), pp. 3460-3468.
12. Munteanu, A., **Fetecău, C.**, Stan, F., Lungu, A., Iovu, H., 2009, *Evaluation of cutting forces for two different graphite Teflon composites*. În: Revista Materiale Plastice (revistă cotate ISI, IF 2009-0), București, ISSN 0025-5289, vol.46 nr.2, 2009, pag. 153-157.
13. Nedelcu, D., **Fetecău, C.**, Ciofu, C., Mindru, D., 2009, *Aspects regarding the use of FEM for calculus performing at the injection moulding of a high accuracy part*. În: Revista Materiale Plastice (revistă cotate ISI, IF 2009-0), București, ISSN 0025-5289, vol.46 nr.3, 2009, pp. 269-273.
14. Postolache, I., Fetecău C., Stan, F., Nedelcu, D., 2009, *Study of the polymer flow through tubular runner*. În: Revista Materiale Plastice (revistă cotate ISI, IF 2009-0), București, ISSN 0025-5289, vol.47 nr.4, 2009, pp. 458-461.
15. Nedelcu, D., Mindru, D., **Fetecău, C.**, Cohal, V., Cretu, Gh., 2010, *Some Aspects Regarding the Simulation of Two-Component Injection Parts*. În: Revista Materiale Plastice (revistă cotate ISI, IF 2010-0), București, ISSN 0025-5289, vol.47 nr.2, 2010, pp. 225-230.
16. Ivascu, N., **Fetecău, C.**, Stan, F., Postolache, I., 2010, *Optimization of the Injection Molding Process Simulation Using Taguchi Method*. În: Revista Materiale Plastice (revistă cotate ISI, IF 2010-0), București, ISSN 0025-5289, vol.47 nr.4, 2010, pp. 467-473.
17. Stan, F., Munteanu, A.V., **Fetecău, C.**, 2011, *Analysis of Visco-Elastic-Plastic Behaviour of Short Glass Fiber Reinforced Polyamide 66 Composite (Pa66 Gf30)*. În: Revista Materiale Plastice (IF 2011-0,387) București, ISSN 0025-5289, vol.48 nr.1, 2011, pp. 1-6.
18. Sandu, I., L., **Fetecău, C.**, 2011, *Effects of Injection Process parameters on the Warpage of Thin-walled Plastic Parts*. În: Revista Materiale Plastice (IF 2011-0,387), București, ISSN 0025-5289, vol.48 nr.4, 2011, pp. 315-321.
19. **Fetecău, C.**, Stan F., 2012, *Study of cutting force and surface roughness in turning of polytetrafluoroethylene composites with a polycrystalline diamond tool*, Measurement 45, Issue 6, July 2012, ELSEVIER, ISBN 0236-2241, DOI. 10.1016/j. measurement. 2012.03.030, (IF 2011-0,836), pp. 1367-1379.
20. Dobreă D., V., Bîrsan D., **Fetecău, C.**, Palade L., Bîrsan I., G., 2012, *Experimental and numerical analysis with MSC Marc software for the characterization of two-component moulded parts*. În: Revista Materiale Plastice (IF 2011-0,387, AIS – 0,038), București, ISSN 0025-5289, vol.49 nr.4, 2012, pp. 242-248.
21. Stan F., **Fetecău, C.**, 2013, *Characterization of viscoelastic properties of molybdenum disulphide filled polyamide by indentation*. Journal: Mechanics of Time-Dependent Materials, Springer, ISSN 1385-2000 17(2), (IF 2011-1,109), pp. 205-221. (<http://link.springer.com/article/10.1007%2Fs11043-012-9198>

22. Stan F., **Fetecau, C.**, 2013, *Study of stress relaxation in polytetrafluoroethylene composites by cylindrical macroindentation*. Journal: Composites: Part B 47 (2013), Elsevier, ISSN: 1359-8368 (IF 2011-1,731), pp 298-307. (<http://www.sciencedirect.com/science/article/pii/S1359836812007263>)
23. Stan F., Dobrea, D., **Fetecau, C.**, Antoniac, I., Belea, R., 2013, *The effect of processing parameters on the bond strength and electrical conductivity of multi-wall carbon nanotube/low-density polyethylene composite*. Journal of Adhesion Science and Technology, Taylor & Francis, ISSN 0169-4243, (IF 2011-0,948), , 27(22), pp. 2433-2445.
24. Vlad, D.,V., **Fetecau, C.**, Doicin, C., Palade, I., L., 2013, *Experimental Study on the Cutting Forces in PTFE Orthogonal Cutting*. În: Revista Materiale Plastice (IF 2012-0,379), București, ISSN 0025-5289, vol.5C nr.4, 2013, pp. 326-333.
25. Stan F., Sandu L., **Fetecau, C.**, 2014, Effect of processing parameters and strain rate on mechanical properties of carbon nanotube-filled polypropylene nanocomposites, Composites: Part B 59 (2014), pp.109–122.

ISI Conference Proceedings

1. **Fetecău, C.**, Oancea, N., Stan, F., 1999, *Toroidal Sharpening of the Twist Drills*. 3rd INTERNATIONAL MACHINING AND GRINDING CONFERENCE, Cincinnati, Ohio, SUA, October 4-7, 1999, Technical paper, pag. 1-6, MR99-112. SME Identification ID: TP99PUB92, Published: Jan 10, 1999, Baza de date SCOPUS.
2. **Fetecău, C.**, Oancea, N., Stan, F., 1999, *Helical Grinding Procedure of the Curved Cutting Edge Drills*. 3rd INTERNATIONAL MACHINING AND GRINDING CONFERENCE, Cincinnati, Ohio, SUA, October 4-7, 1999, Technical paper, pag. 1-7, MR99-113. SME Identification ID: TP99PUB93, Published: Jan 10, 1999, Baza de date SCOPUS.
3. **Fetecău, C.**, Oancea, N., 2001, *Hight Durability Under-Reamer*. 4rd INTERNATIONAL MACHINING AND GRINDING CONFERENCE, Troy, Michigan, SUA, May 7-10, 2001, Technical paper, FC01-338, SME Identification ID: TP01PUB238, Published: Jan 10, 2001.
4. **Fetecău, C.**, Stan, F., Munteanu, A. and Popa, V., 2008, *Machining and surface integrity of polymeric materials*. 11th ESAFORM2008 Conference on Material Forming. Lyon, France. 23, 24 and 25 april 2008. International Journal of Material Forming, Springer Paris (ISI), 1960-6206 (Print) 1960-6214 (Online), March 30, 2008, DOI 10.1007/s12289-008-0192-z, pp. 352-355.
5. **Fetecau, C.**, Postolache, I., San, F., 2008, *Numerical and Experimental Study on the Injection Molding of a Thin-wall Complex Part*, Proceedings of the 2008 ASME International Manufacturing Science and Engineering Conference (MSEC) Collocated with the 3rd JSME/ASME International Conference on Materials and Processing (ICM&P) October 7-10, 2008 (ISI)• Evanston, Illinois USA. Source: MSEC 2008: PROCEEDINGS OF THE ASME INTERNATIONAL MANUFACTURING SCIENCE AND ENGINEERING CONFERENCE 2008, VOL 1 Pages: 85-93 Published: 2009, AMER SOC MECHANICAL ENGINEERS, THREE PARK AVENUE, NEW YORK, NY 10016-5990 USA, IDS Number: BJK26 ISBN: 978-0-7918-4851-7.
6. Nagit, Gh., **Fetecau, C.**, Negoescu, F., Iosub, A., Axinte, E., 2008, *A MATHEMATICAL MODEL FOR ROUGHNESS IN CASE OF VIBROROLLING*. 19th DAAAM Proceedings Paper. 19th DAAAM International Symposium 2008"Intelligent Manufacturing & Automation"Slovak University of Technology Faculty of Materials Science and Technology in Trnava, Trnava, Slovakia, 22-25th October 2008. Annals of DAAAM for 2008, ISSN 1726-9679, ISI PROCEEDINGS pp. 945-946.
7. **Fetecau, C.**, Teodor, V., G., Dumitrascu, N., Oancea, N., 2010, *Method For Conical Sharpening Of Multi Flute Helical Drill With Curved Cutting Edge*. Proceedings of The 14th International Conference *Modern Technologies, Quality and Innovation - ModTech – 2010; New face of TMCR* , 20-22 May 2010 (ISI), Slanic-Moldova, Romania, ISSN 2066-3919, pp. 275-278.
8. Vlad, D.,V., **Fetecau, C.**, Stan, F., Teodor, V., G., 2010, *Comparison Between Numerical Simulation And Experimental Measurement of Cutting Force During Machining of Aluminium Alloy*. Proceedings of The 14th International Conference *Modern Technologies, Quality and Innovation - ModTech – 2010; New face of TMCR* , 20-22 May 2010 (ISI), Slanic-Moldova, Romania, ISSN 2066-3919, pp. 675-678.
9. Munteanu, A., V., **Fetecau, C.**, Stan, F., 2010, *A Predictive Model of Cutting Force in Turning Polytetrafluoretilene Material Using Taguchi Method*. Proceedings of The 14th International Conference *Modern Technologies, Quality and Innovation - ModTech – 2010; New face of TMCR* , 20-22 May 2010 (ISI), Slanic-Moldova, Romania, ISSN 2066-3919, pp.415-418.
10. Stan, F., Munteanu, A.V, **Fetecau, C.**, 2010, *Viscoelastic Characterization of Polytetrafluoroethylene (PTFE, Polymer by Sharp Indentation*, International Conference "Advances in Materials and Processing Technologies" (AMPT 2010), 23-27 October, 2010, Paris, France, AIP Conference Proceedings (ISI) Volume 1315, pp. 221-226, ISBN 978-0-7354-0871-5, Editor(s): Francisco Chinesta, Yvan Chastel Mohamed El Mansori.
11. **Fetecau, C.**, Stan, F., Dobrea, D., 2010, *Investigation of the adhesion interface obtained through two-component injection molding*, International Conference "Advances in Materials and Processing Technologies" (AMPT 2010), 23-27 October, Paris, France, AIP Conference Proceedings (ISI), Volume 1315, pp. 701-706 , ISBN 978-0-7354-0871-5, Editor(s): Francisco Chinesta, Yvan Chastel, Mohamed El Mansori.

12. **Fetecau, C.**, Stan, F., Dobrea, D., Birsan, D., 2011, *Influence Of Injection Molding Parameters On Mechanical Properties Of Low Density Polyethylene Filled With Multiwalled Carbon Nanotubes*. Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition, IMECE2011, November 11-17, 2011 (ISI), Denver, Colorado, USA.
13. Stan F., Vlad D., **Fetecau C.**, 2013, Statistical Cutting Force Model for Orthogonal Cutting of Polytetrafluoroethylene (PTFE) Composites, ASME 2013 International Manufacturing Science and Engineering MSEC2013, 10 - 14 June 2013, Madison, Wisconsin (USA).), Session: 1-1-10 Composites, Polymers, Non-Metals II.
14. Sandu, L., Stan F., **Fetecau C.**, 2013 Correlation between Mechanical Properties in Standard Test Specimens and Injection Molded Thin-Wall Parts ASME 2013 International Manufacturing Science and Engineering MSEC2013, 10 - 14 June 2013, Madison, Wisconsin (USA). Session: 1-7-1 Advances in Injection Molding.

Patents

1. Teodor, V., Baroiu, N., **Fetecău, C.**, Berbinschi, S., Oancea, N., 2012, Procedeu si dispozitiv pentru ascutirea hiperboloidală a burghieor elicoidale multitaie cu muchii de aşchiere în arc de cerc. Hotarare acordare Brevet de inventie nr. 4/176 din 30.09.2011;
2. **Fetecău, C.**, Stan, F., Birsan, D., C., 2011, Stand pentru testarea la oboseală a epruvetelor din materiale polimerice. Cerere Brevet de inventie nr. A01017/11.10.2011;
3. Oancea, N., Teodor, V., **Fetecău, C.**, Frumuşanu, G., R., 2011, Procedeu si dispozitiv pentru ascutirea cilindrotoroidală a burghiilor elicoidale cu muchii de aşchiere în arc de cerc. Hotarare acordare Brevet de inventie nr. 4/176 din 30.09.2011;
4. Oancea, N., **Fetecău, C.**, Teodor, V., Dumitraşcu, N., Marinescu, V., 2011, Procedeu si dispozitiv pentru ascutirea conică a burghieor multitaieş cu muchie de aşchiere în arc de cerc. Brevet de inventie nr. 125838/30.08.2011;
5. Teodor, V., **Fetecău, C.**, Oancea, N., Dumitraşcu, N., Marinescu, V., 2011, Procedeu si dispozitiv pentru ascutirea cilindrică a burghieor multitaieş cu muchie de aşchiere în arc de elipsă. Brevet de inventie nr. 125839/30.08.2011;
6. **Fetecău, C.**, Postolache, I., Stan, F., 2010, Stand pentru testarea cupelor cotiloide. Brevet de inventie nr. 123041/2010;
7. **Fetecău, C.**, Stan, F., 2010, Stand pentru simularea procesului de calandrare a materialelor plastice. Brevet de inventie nr. 122981/2010;
8. **Fetecău, C.**, Oancea, N., Lepadatu, N., 1998, Procedeu si dispozitiv pentru ascutirea elicoidala a burghiului elicoidal cu taisuri curbe. Brevet de inventie nr. 113723/1998;
9. **Fetecău, C.**, Oancea, N., Stan, F., Istratescu, St., 1998, Procedeu si dispozitiv pentru ascutirea toroidala a burghiului elicoidal cu taisuri curbe. Brevet de inventie nr. 113724/1998.