europass

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EXPERIENȚA PROFESIONALĂ

2024 - ÎN CURS - BACĂU, ROMÂNIA

PROF. UNIV. DR. ING. UNIVERSITATEA „VASILE ALECSANDRI" DIN BACĂU

Activitate didactică: titularul cursurilor de Bazele așchierii și generării suprafețelor, scule așchietoare; Dispozitive tehnologice; Managementul inovării; Tehnologii de procesare a materialelor polimerice;
Activitate de îndrumare - finalizarea lucrărilor de finalizare a studiilor de licență și master;
Activitate de cercetare;
Coordonare programe de studii.

2008 - 2024

CONFERENȚIAR UNIVERSITAR

2004 - 2008

ȘEF LUCRĂRI

2001 - 2004

ASISTENT UNIVERSITAR

1998 - 2001

PREPARATOR UNIVERSITAR

05/2023 - ÎN CURS

ABILITARE ÎN DOMENIUL STUDIILOR UNIVERSITARE DE DOCTORAT ÎN DOMENIUL INGINERIE INDUSTRIALĂ

EDUCAȚIE ȘI FORMARE

2000 - 2004 - BUCUREȘTI, ROMÂNIA

DOCTOR ÎN INGINERIE INDUSTRIALĂ- UNIVERSITATEA POLITEHNICA BUCUREŞTI

1998 - 1999 - BACĂU, ROMÂNIA

STUDII APROFUNDATE ÎN „LOGISTICA SISTEMELOR INDUSTRIALE"- UNIVERSITATEA DIN BACĂU - FACULTATEA DE INGINERIE

1998 - ROMÂNIA

MODULUL DE STUDII FRANCOFONE "GESTIONAREA, PRELUCRAREA ŞI VALORIFICAREA DEŞEURILOR INDUSTRIALE"- UNIVERSITATEA DIN BACĂU – FACULTATEA DE INGINERIE; UNIVERSITATEA LE MANS – INSTITUTUL DE RUDOLOGIE

1992 - 1997 - BACĂU, ROMÂNIA

INGINER-PROFESOR, SPECIALIZAREA ”TEHNOLOGIA CONSTRUCŢIILOR DE MAŞINI”-
UNIVERSITATEA DIN BACĂU - FACULTATEA DE INGINERIE

COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): **ROMÂNĂ**

	COMPREHENSIUNE		VORBIT		SCRIS
	Comprehensiune orală	Citit	Producerea de mesaje orale	Conversație	
ENGLEZĂ	C2	C1	C2	C2	C2
FRANCEZĂ	B1	B2	B1	B1	B1

COMPETENȚE

Navigare Internet | Utilizare buna a programelor de comunicare(mail messenger skype) | Microsoft Office | CAD | CAE

CONFERINȚE ȘI SEMINARE

01/2001 - 03/2001 Belfort-Montbéliard, Franţa
Stagiu la Universitatea Tehnică din Belfort-Montbéliard Program Tempus

Wroclaw, Polonia
Stagii de documentare la Universitatea Tehnică din Wroclaw (2001, 2002, 2004, 2011)

Annecy, Franța
Stagii de cercetări experimentale şi simulări la ESIA – Annecy, laboratorul LMECA cercetări și determinări experimentale (februarie - martie 2003, iulie 2003)

03/2004 - 03/2004 Stralsund, Germania
University of Applied Sciences Stralsund Susţinerea cursului $ S S O L F D W L R Q b R I b W K H b I L Q L W H b H O
V L P X O D W L R Q b R I b W K H b M Kadru Programului Doctoral Intensiv Course „Modern Computer Applications in Mechanical Engineering”

Limoges, Franța
Stagii de predare şi monitorizare in cadrul programului Erasmus la Universitatea din Limoges (2008, 2011, 2012, 2015)

Annecy, Franţa
Stagii de cercetare și documentare la Universitatea din Savoie, Laboratorul SYMME (2009, 2011, 2012)

05/2012 Besancon, Franța
Stagiu de predare în cadrul programului Erasmus la Universitatea Franche-Compte

05/2014 Patras, Grecia
Stagiu de predare în cadrul programului Erasmus la TEI of Western Greece Patras

Porto, Portugalia
Stagii de predare în cadrul programului Erasmus+ la Universitatea din Porto (2016, 2017, 2018)

05/2016 Bethune, Franța
Stagiu de predare în cadrul programului Erasmus+ la Universitatea din Artois

05/2019 Lyon, Franța
Stagiu de predare în cadrul programului Erasmus+ la INSA Lyon

REALIZĂRI SPECIFICE

30/11/1997 - ÎN CURS
Activitate științifică și didactică

- articole în reviste cotate Clarivate Analytics (ISI): **26**
- articole publicate în volume ale conferințelor indexate Clarivate Analytics (Proceeding ISI): **27**
- articole publicate în reviste indexate BDI și volume ale unor conferințe internaționale **44**
- articole publicate în reviste și volume ale unor conferințe naționale **56**
- materiale didactice (suporturi de curs, îndrumare): **5** (coautor) din care **2** prim sau unic autor
- cărți și capitole în cărți de specialitate publicate în edituri naționale: **6** (coautor) din care **1** prim autor
- cărți și capitole în cărți de specialitate publicate în edituri internaționale: **2** capitole

Web of Science ResearcherID: M-2324-2013
ORCID ID:0000-0002-8124-9531
Google Scholar: https://scholar.google.com/citations?user=-3-bzJMAAAAJ&hl=ro&oi=ao

Contracte de cercetare

- internaţionale: **2** – membru în colectivul de cercetare
- granturi: **2** – director de proiect, **1** – responsabil partener proiect complex, **12** – membru în colectivul de cercetare
- agenți economici: **4** – director de proiect, **15** – membru în colectivul de cercetare

Invenţii

1 brevet invenție (coautor)

Referent științific

Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture (ISSN: 0954-4054)
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications (ISSN: 1464-4207)
International Journal of Materials Engineering Innovation (ISSN 1757-2754)
Journal of Engineering Studies and Research (ISSN 2068-7559)
Sustainable Materials and Technologies (ISSN : 2214-9937)
The Journal of Strain Analysis for Engineering Design (ISSN 2041-3130)
Metals (ISSN 2075-4701)
Materials (ISSN 1996-1944)
Conferința internațională Modern Technologies in Industrial Engineering (ModTech)

Membru în comitetele de organizare a conferințelor

International Conference of Constructive Design and Technological Optimization in Machine Building Field (OPROTEH)
Modern Technologies in Industrial Engineering (ModTech)

COMPETENȚE DE MANAGEMENT ȘI CONDUCERE

Prodecan Facultatea de Inginerie

Prodecan responsabil cu activitatea de cercetare (din 2024)
Prodecan responsabil cu managementul calității (2020-2024)

Coordonator Erasmus+ Facultatea de Inginerie

Director de departament - Ingineria și managementul sistemelor industriale (2016 - 2020)

Director al Centrului de Cercetare ”Inginerie Managerială şi Tehnologică”

Prof. dr. ing. habil. Bogdan-Alexandru Chiriță

LISTA LUCRĂRILOR PUBLICATE

2026

[1] Eugen Herghelegiu, Carol Schnakovszky, Nicolae-Catalin Tampu, Maria-Crina Radu, **Bogdan-Alexandru Chirita**, Ionel Crinel Raveica*, Ionel Olaru *, Bogdan Nita and Andrei Zaharia - **Investigation of the Impact of Intensive EDM Regimes on Electrode Wear When Machining C120 Steel Parts**, Applied Sciences, vol. 16, iss. 7, pp. 3464, ISSN 2076-3417, 2026, https://doi.org/10.3390/app16073464, WOS:001738458300001 (ISI)

[2] Bourebbou A., Tampu C.*, Bendifallah M., Belloufi A., Abdelkrim M., **Chirita B.***, Herghelegiu E., Nita B., Tampu R. - **Experimental Study and Optimization of Welding Parameters of Stainless Steel During Spot Welding**, Processes, vol. 14, iss. 7, pp. 1056, ISSN 2227-9717, 2026, https://doi.org/10.3390/pr14071056, WOS:001738685800001 (ISI)

[3] Eugen Herghelegiu, Oana Ghiorghe, Maria-Crina Radu* , Carol Schnakovszky, Petrica Radu, Nicolae-Catalin Tampu, **Bogdan-Alexandru Chirita*** , Ionel Crinel Raveica and Bogdan Nita - **Investigation of the Impact of Intensive EDM Regimes on Manufacturing Efficiency and Surface Quality of C120 Steel Parts**, Processes, vol. 14, iss. 2, pp. 189, ISSN 2227-9717, 2026, DOI 10.3390/pr14020189, WOS:001670423400001 (ISI)

[4] Yassine Abdesselam, Catalin Tampu*, Abderrahim Belloufi, Imane Rezgui, Mourad Abdelkrim, **Bogdan Chirita***, Eugen Herghelegiu, Carol Schnakovszky and Raluca Tampu - **Optimization of the Effects of Electrodeposition Parameters on the Nickel-Based Composite Coatings' Tribological Properties**, Processes, vol. 14, iss 1, pp. 139, ISSN 2227-9717, 2026, DOI 10.3390/pr14010139, WOS:001657349900001 (ISI)

[5] Cătălin Tâmpu, Maria Crina Radu, **Bogdan Chiriță**, Bogdan Niță – **Echipamente și metode de măsurare și control: îndrumar pentru lucrări practice**, Ed. Alma Mater, Bacău, 2026, 100 pg., ISBN 978-606-527-743-4

[6] Cătălin Tâmpu, Raluca Tâmpu, **Bogdan Chiriță**, Bogdan Niță – **Metode de control nedistructiv**, Ed. Alma Mater, Bacău, 2026, 170 pg., ISBN 978-606-527-749-6

2025

[7] Bogdan NIȚĂ, Carol SCHNAKOVSZKY, Eugen HERGHELEGIU, **Bogdan CHIRITA**, Raluca Ioana TAMPU, Catalin TAMPU – **Influence of cutting parameters on surface quality of Al7075 alloy under dry and LN2 cooling conditions**, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, vol. 68, iss. 1S, pp. 45-50, ISSN 2393–2988, mai 2025, WOS: 001612666100003, https://atna-mam.utcluj.ro/index.php/Acta/article/view/2781 (ISI)

[8] Abdesselam, Y; Belloufi, A; Rezgui, I; Abdelkrim, M; Catalin, T; Chirita, B - **Composite coatings based on nickel and Y2O3 nanoparticles: a comprehensive analysis of developments in electrodeposition and functional property optimization**, INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.137, iss 7-8, pp. 3273-3332, ISSN 0268-3768, April 2025, DOI 10.1007/s00170-025-15360-x, WOS: 001448711900001 (ISI)

2024

[9] Raveica, I.C.; Olaru, I.; Herghelegiu, E.; Tampu, N.C.; Radu, M.-C.; **Chirita, B.A.**; Schnakovszky, C.; Ciubotariu, V.A. – **The Impact of Digitalization on Industrial Engineering Students' Training from the Perspective of Their Insertion in the Labor Market in a Sustainable Economy: A Students' Opinions Survey**, Sustainability, vol. 16, iss. 17, art. 7499, ISSN 2071-1050, august 2024, https://doi.org/10.3390/su16177499, WOS:001311595200001 (ISI)

[10] Nita B, Tampu RI, Tampu C*, **Chirita BA***, Herghelegiu E, Schnakovszky C. - **Review Regarding the Influence of Cryogenic Milling on Materials Used in the Aerospace Industry**, Journal of Manufacturing and Materials Processing, vol. 8, iss. 5, art. 186, ISSN 2504-4494, august 2024, https://doi.org/10.3390/jmmp8050186, WOS:001342097700001 (ISI)

[11] Radu, MC, Herghelegiu, E, Tampu, C, **Chirita, B**, Schnakovszky, C, Radu, P, Ghiorghe, O - **Use of vegetable oils as dielectric fluids for electrical discharge machining. A case study**, Heliyon, vol. 10, iss. 11, art. nr. e31772, ISSN: 2405-8440, 2024, DOI 10.1016/j.heliyon.2024.e31772, WOS:001247702500002 (ISI)

[12] Mohammed Toufik Amira, Imane Rezgui, Abderrahim Belloufi, Mourad Abdelkrim, Youssef Touggui, Elhocine Chiba, Tampu Catalin, **Bogdan Chirita** - **Modeling and multi-objective optimization of the milling process for AISI 1060 steel**, The International Journal of Advanced Manufacturing Technology, vol 132, iss. 11-12, pp. 5705-5732, ISSN 0268-3768, iunie 2024, https://doi.org/10.1007/s00170-024-13693-7, WOS: 001219477600002 (ISI)

[13] Ciubotariu, VA, Grigoras, CC, Zichil, V, **Chirita, BA** - **Using the AIDA Method in the Design of New Elements for the Photovoltaic Mounting Structures**, Machines, vol. 13, iss. 3, art. nr. 211, ISSN 2075-1702, martie 2024, DOI: 10.3390/machines12030211, WOS: 001192737400001 (ISI)

[14] Ghiorghe, O, Schnakovszky, C, Herghelegiu, E, Radu, MC, **Chirita, BA**, Tampu, NC, Nita, B, Radu, P - **Influence of the**

electrode material on electrical discharge machining process performance, SCIENTIFIC STUDY AND RESEARCH-CHEMISTRY AND CHEMICAL ENGINEERING BIOTECHNOLOGY FOOD INDUSTRY, vol.25, iss. 1, pp. 71-90, ISSN 1582-540X, 2024, WOS: 001196254200005 (ISI)

[15] **Chirita, BA.**, Herghelegiu, E., Radu, MC., Tampu, NC. – **Study of Quality Parameters for Abrasive Waterjet Cutting of Metals**. In: *Carou, D., Davim, J.P. (eds)* Notes for Manufacturing Instructors. Materials Forming, Machining and Tribology. Springer, Cham, pp. 221-257, print ISBN 978-3-031-48467-4, online ISBN 978-3-031-48468-1, 24 January 2024, https://doi.org/10.1007/978-3-031-48468-1_11

2023

[16] Abdelkrim F., Abdelkrim M., Belloufi A., Tampu C., **Chirita B.**, Brabie G. – **Multi-input fuzzy inference system based model to predict the cutting temperature when milling AISI 1060 steel**, Journal of Applied Research and Technology, 21 (3), pp. 496 – 513, ISSN 1665-6423, 2023, DOI: 10.22201/icat.24486736e.2023.21.3.1818 (BDI)

[17] **Chirita B**, Herghelegiu E, Radu C, Grigoras C, Tampu C - **Optimization of cut quality for AWJ processing of a steel alloy**, International Journal of Modern Manufacturing Technologies, vol. XV, iss. 2, pp. 20 – 28, ISSN 2067–3604, Dec. 2023, DOI: 10.54684/ijmmt.2023.15.2.20 (BDI)

2021

[18] **Chirita B** – **Modeling and Optimization Process in Milling**, chapter in Modeling and Optimization in Manufacturing: Toward Greener Production by Integrating Computer Simulation, edited by Catalin I. Pruncu & Jun Jiang, Wiley-VCH GmbH, Weinheim - Germany, pp. 83-112, ISBN: 978-3-527-34694-3, April 2021, https://doi.org/10.1002/9783527825233.ch3

[19] CC Grigoraș, **B Chiriță**, G Brabie, V Zichil, E Herghelegiu, C Tâmpu, VA Ciubotariu – **High-pressure water jet cutting of S235JR steel alloy. Influence of process parameters on dimensional accuracy**, IOP Conf. Series: Materials Science and Engineering, volume 1182, 2021, 012027, DOI: 10.1088/1757-899X/1182/1/012027 (ISI Proceeding)

[20] NC Tampu, RI Tampu, **BA Chirita**, E Herghelegiu – **A theoretical study regarding the influence of carbon amount on residual stress distribution in surface layer**, Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, Volume 22, No. 1 (2021), pp. 081-088, ISSN 1582-540X, WOS:000634769100008 (ISI)

[21] MC Radu, C Schnakovszky, **BA Chirita**, NC Tampu, VA Ciubotariu, E Herghelegiu - **Influence of process parameters on the AWJ cutting of the AL-EN AW 2017A (T4) aluminium alloy**, IOP Conf. Series: Materials Science and Engineering, volume 1009, 2021, 012048, DOI: 10.1088/1757-899X/1009/1/012048 (BDI)

[22] **B Chirita**, C Tampu, E Herghelegiu, C Grigoras – **Modelling and optimization of magnesium alloy milling parameters**, International Journal of Modern Manufacturing Technologies, vol. XIII, no. 3, pp. 29-36, ISSN 2067-3604, 2021, doi: 10.54684/ijmmt.2021.13.3.29 (BDI)

[23] Grigoras CC, Zichil V, Chirita B, Ciubotariu VA - **Adaptive Stretch-Forming Process: A Computer Vision and Statistical Analysis Approach**, Machines, vol. 9, iss. 12, art. nr. 357, ISSN 2075-1702, Dec. 2021, DOI: 10.3390/machines9120357, WOS:000738673200001 (ISI Proceeding)

[24] CC Grigoraș, B Chirita, V Zichil, E Herghelegiu, C Tampu, V Ciubotariu – **Stretch forming using heated die**, Journal of Engineering Studies and Research, vol 27, nr. 4, pp. 24-29, 2021, ISSN 2068-7559, https://doi.org/10.29081/jesr.v27i4.295 (BDI)

2020

[25] NC Tampu, RI Tampu, OI Patriciu, BA Chiriță, L Gavrilă - **Evaluation of the corrosion inhibition potential of raphanus sativus and spinacia oleraceea extracts part II: mild steel corrosion inhibition by raphanus sativus and spinacia oleracea extracts as green corrosion inhibitors**, Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, Volume 21, No. 3 (2020), pp. 435-444, ISSN 1582-540X, WOS:000577523900010 (ISI)

[26] C C Grigoraș, **B Chirita**, G Brabie - **A Python and Java software approach for 2.5 axes, self-adaptive stretch forming process and IoT solution**, IOP Conf. Series: Materials Science and Engineering, volume 968, 2020, 012029, DOI: 10.1088/1757-899X/968/1/012029

[27] CC Grigoraș, **B Chiriță**, G Brabie, V Zichil, E Herghelegiu, C Tâmpu, C Ciofu, C Iancu - **The analysis of high-pressure water jet cutting of thick aluminium alloy 6061-T651 from a statistical perspective**, IOP Conf. Series: Materials Science and Engineering, 916, 012043, 2020, ISSN: 1757-899X, DOI: 10.1088/1757-899X/916/1/012043, WOS:000625330000043 (ISI Proceeding)

[28] C Tampu, B Chirita, I Cristea, V Zichil, C Schnakovszky, E Herghelegiu, C Carausu - **Influence of cutting parameters on surface hardness in milling of AL6061T6,** IOP Conf. Series: Materials Science and Engineering, 916, 012118, 2020, DOI: 10.1088/1757-899X/916/1/012118, WOS:000625330000118 (ISI Proceeding)

[29] Ciofu C., Grigoraș C. C., **Chiriță B. A.**, Iancu C. A., Brabie G. - **Fracture Investigation in Draw Bending of AZ31B Sheets**

using Fuzzy Logic Prediction, Procedia Manufacturing, vol. 47,pp. 1462-1467, 2020, ISSN: 2351-9789, doi: 10.1016/j.promfg.2020.04.323 (ISI Proceeding)

[30] D.G. Prutica, G. Brabie, **B. Chirita** - **Optimization of turning parameters using an algortim based on combined linear and binary search methods**, Journal of Engineering Studies and Research, vol. 26, no. 1, pp. 66-72, 2020, ISSN 2068-7559 (BDI)

[31] D.G. Prutica, G. Brabie, **B. Chirita** - **Automated cutting tools selection for bearings components turning process**, Journal of Engineering Studies and Research, vol. 26, no. 1, pp. 73-79, 2020, ISSN 2068-7559 (BDI)

2019

[32] **B. Chirita,** C. Grigoras, C. Tampu, E. Herghelegiu – **Analysis of cutting forces and surface quality during face milling of a magnesium alloy**, IOP Conf. Series: Materials Science and Engineering 591, 012006, 2019, doi: 10.1088/1757-899X/591/1/012006, WOS:000562929900006 (ISI Proceedings)

[33] E Herghelegiu, MC Radu, C Schnakovszky, **BA Chirita**, NC Tampu – **Study on the influence of the working regime on the quality of cut in the case waterjet processing of S 235 steel,** IOP Conf. Series: Materials Science and Engineering 591, 012019, 2019, ISSN 1757-8981, doi:10.1088/1757-899X/591/1/012019, WOS:000562929900019 (ISI Proceedings)

[34] C. Grigoraș, **B. Chiriță**, G. Brabie - **Additive manufacturing of a stretch forming die using 3D printing technology**, IOP Conf. Series: Materials Science and Engineering 564, 012017, 2019, ISSN 1757-8981, doi: 10.1088/1757-899X/564/1/012017, WOS:000562599900017 (ISI Proceedings)

[35] C. Grigoras, **B. Chirita**, G. Brabie, C. Ciofu - **Experimental analysis of AZ31B magnesium alloy sheet failure using punch stretching**, IOP Conf. Series: Materials Science and Engineering 682, 012009, 2019, doi: 10.1088/1757-899X/682/1/012009 (BDI)

[36] C. Ciofu, **B. Chirita**, R. Lupu, C. Grigoraș, C. Radu, G. Brabie – **Tendencies in forming sheet metal parts using incremental forming advanced technologies,** Journal of Engineering Studies and Research, vol. 25, no. 3, pp. 15-21, 2019, ISSN 2068-7559 (BDI)

2018

[37] C. Ciofu, C. Carausu, S.N. Mazurchevici, V. Paunoiu, **B. Chirita** - **Equipment for Testing the Worm and Worm Gear Assembly From "Liquid Wood" and Comparative MEF Analyses**, International Journal of Modern Manufacturing Technologies, vol. X, No. 2, pp. 45-50, 2018, ISSN 2067–3604 (BDI)

[38] C Schnakovszky, E Herghelegiu, MC Radu, **BA Chirita**, NC Tampu - **Optimization of working parameters in case of aluminium alloy abrasive water jet cutting (AWJC),** IOP Conference Series: Materials Science and Engineering, vol. 400, iss. 2, 022052, 2018, doi: 10.1088/1757-899X/400/2/022052 (ISI Proceedings)

2017

[39] R. B. Soares, A. M. P. de Jesus, R. J. L. Neto, **B. Chirita**, P. A. R. Rosa, A. Reis - **Comparison Between Cemented Carbide and PCD Tools on Machinability of a High Silicon Aluminum Alloy**, Journal of Materials Engineering and Performance, Volume 26, Issue 9, pp 4638–4657, September 2017, DOI: 10.1007/s11665-017-2870-9, ISSN: 1059-9495 (ISI)

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2016

[42] **B Chirita,** NC Tampu, G Brabie, MC Radu - **Experimental investigation on the effects of cooling system on surface quality in high speed milling of an aluminium alloy**, IOP Conference Series: Materials Science and Engineering, vol. 145, 022006, 2016, doi:10.1088/1757-899X/145/2/022006 (ISI Proceedings)

[43] CC Grigoraș, G Brabie, **B Chirita** - **The influence of milling-burnishing successive and simultaneous processes on the surface roughness**, IOP Conference Series: Materials Science and Engineering, vol. 145, 022010, 2016, doi:10.1088/1757-899X/145/2/022010 (ISI Proceedings)

[44] CC Grigoraș, G Brabie, **B Chirita** - **The influence of milling-burnishing successive and simultaneous processes on the material hardness**, IOP Conference Series: Materials Science and Engineering, vol. 145, 022009, 2016, doi:10.1088/1757-899X/145/2/022009 (ISI Proceedings)

[45] S Petrila, G Brabie, **B Chirita** - **Determination of the optimal time and cost of manufacturing flow of an assembly using the Taguchi method**, IOP Conference Series: Materials Science and Engineering, vol. 145, 062009, 2016, doi:10.1088/1757-899X/145/2/062009 (ISI Proceedings)

[46] S Petrila, G Brabie, **B Chirita** - **The use of Tecnomatix software to simulate the manufacturing flows in an industrial enterprise producing hydrostatic components**, IOP Conference Series: Materials Science and Engineering, vol. 145, 042032, 2016, doi:10.1088/1757-899X/145/2/042032 (ISI Proceedings)

[47] Iurea P., Cărăușu C-tin, Tâmpu C., **Chirita B.**, Hușanu V. - **Residual stresses generated at roughing grinding and hard turning of raceways of bearing rings**, International Journal of Modern Manufacturing Technologies, vol. VIII, nr. 2, pp. 19-24, 2016, ISSN 2067-3604 (BDI)

2015

[48] **Bogdan Chirita**, Gheorghe Mustea, Gheorghe Brabie - **A statistical analysis applied for optimal cooling system selection and for a superior surface quality of machined magnesium alloy parts**, Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, vol. 229, iss. 3, pp. 392-408, 2015, DOI: 10.1177/0954405414530895, ISSN 0954-4054 (ISI)

[49] G. Brabie, **B. Chirita,** A. Albut - **Minimization of sheet thickness variation and other defects of mini drawn parts using a blank holder plate made from concentric rings**, Precision Engineering, vol. 42, October 2015, pp. 311-320, 2015, doi:10.1016/j.precisioneng.2015.03.011, ISSN 0141-6359 (ISI)

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Lista contractelor de cercetare

Granturi internaţionale:

[1] The Intelligent System for Netshape Forming of Metal Sheet Products, Program Cadru 5, 2002-2005, in parteneriat cu Universitatea Tehnica din Wroclaw – Polonia, Universitatea Savoie – Franta, Universitatea Porto – Portugalia, Autotools – Polonia, MFI Poznan – Polonia, SEP – Franta, PJ Ferramentas – Portugalia, WMW Bacau – Romania, SC Mecanica Ceahlau Piatra Neamt – Romania – **membru in colectivul de cercetare**

[2] The System for Metal Sheet Forming Design, Program Copernicus IC15CT970708, 1997-2000, in parteneriat cu Universitatea Savoie – Annecy (Franta), Universitatea Tehnica din Wroclaw (Polonia), Universitatea Porto (Portugalia) – **membru in colectivul de cercetare**

Granturi naționale:

[1] SIDCAL - Sistem integrat digital de testare si calibrare pentru contoare master de lichide altele decât apa,Program PCIDIF NR. 390070/23.09.2025, 2025-2028, budget total 7014632,44 lei – **membru în colectivul de cercetare**

[2] **Tehnologii de fabricare inteligente pentru productia avansata a pieselor din industriile de automobile si aeronautica, PN-III-P1-1.2-PCCDI-2017-0446, contract nr. 82PCCDI/2018,** PNCDI III - Programul 1 - Proiecte Complexe realizate în consorții CDI – 2017, 2018 – 2020, buget total 5.287.500 – **Responsabil IC proiect partener pentru Universitatea „Vasile Alecsandri" din Bacău**

[3] PN II 297/2014 Tehnologii ecologice și economice pentru prelucrarea tablelor metalice folosite la realizarea blindajelor, 2014 - **membru în colectivul de cercetare**

[4] Factori de influenta, modelarea fenomenelor specifice si optimizarea procesului de micro/milli ambutisare a tablelor metalice cu grosimi sub 0.2mm, PNII PCE 178, 2012-2014 – **membru în colectivul de cercetare**.

[5] Modelarea pe baza analizei experimentale şi prin simulare a interacţiunii dintre procesele fizice de generare a tensiunilor reziduale şi revenire elastică la deformarea plastică a tablelor metalice, Program PNII – IDEI 595/2008 - 2011 – **membru în colectivul de cercetare**

[6] Studiul tensiunilor reziduale, a efectelor asupra revenirii elastice a pieselor obținute prin deformarea plastica a tablelor metalice si a posibilităților de eliminare a acestor efecte, Program de excelenta pentru tineri cercetători CEEX nr. 3169/12.10.2005, 2005-2007 – director de proiect.

[7] Cercetări experimentale si prin simulare privind factorii de influenta ai revenirii elastice la îndoirea in U a tablelor metalice, Program CNCSIS tip Td nr. 3380/29.06.2004 – director de program.

[8] Modernizarea şi consolidarea infrastructurii de cercetare a grupului de laboratoare de cercetare specifice deformării plastice la rece a tablelor metalice, Program PNII – Capacităţi nr. 115/2007 – **membru în colectivul de cercetare**

[9] Tehnologie integrata de fabricație a pieselor realizate din table metalice subțiri, Program CEEX 317/2006, 2006-2008 – **membru in colectivul de cercetare**

[10] Rețea națională de cercetare in domeniul ingineriei integrate a produselor si proceselor, Program CEEX 243/6 – 2006 – **membru in colectivul de cercetare**

[11] O noua tehnologie privind creșterea productivității și calității rulmenților, Program CEEX 20/2005 – **membru in colectivul de cercetare**

[12] Metode de simulare, modelare si producție virtuală sau digitală bazate pe tehnologia informației si comunicării (ICT) si dedicate noii generații de sisteme de prelucrare reconfigurabile, Proiect CEEX, 2005-2007, – **membru in colectivul de cercetare**

[13] Cercetări experimentale si prin simulare pentru determinarea tensiunilor reziduale in cazul deformării plastice la rece a tablelor metalice, Grant CNCSIS 1003/2004, 2004-2005 – **membru in colectivul de cercetare**

[14] Studiul fenomenului de revenire elastică la ambutisarea plastică la rece a tablelor metalice, Grant CNCSIS nr. 278/2002 – **membru in colectivul de cercetare**

[15] Studiul fenomenului de revenire elastica la îndoirea plastica la rece a tablelor metalice, Grant CNCSIS 1169/2 2001 – **membru in colectivul de cercetare**

Contracte cu agenți economici:

[1] Utilizarea sistemelor CAD și construcția prin fabricare aditivă (FDM), a reperelor din industria tâmplăriei din aluminiu și PVC, Contract nr.2(4879)/2021

[2] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 3/2014 cu SC SPECTROMAS SRL București, 2014 – director de proiect

[3] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 9/2014 cu SC SPECTROMAS SRL București, 2014 – director de proiect

[4] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 1/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[5] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 2/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[6] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 4/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[7] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 5/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[8] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 7/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[9] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 8/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[10] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 10/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[11] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 12/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[12] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 14/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[13] Analiza tensiunilor reziduale din piesele turnate la SC LUFKIN Industries SRL Ploiești, Contract nr. 15/2014 cu SC SPECTROMAS SRL București, 2014 – **membru in colectivul de cercetare**

[14] Analiza tensiunilor reziduale din piesele turnate (reperele 3, 4 și 5) la SC LUFKIN Industries SRL Ploiești, Contract nr. 3/2013 cu SC SPECTROMAS SRL București, 2013 – director de proiect

[15] Analiza tensiunilor reziduale din piesele turnate (reperele 1 și 2) la SC LUFKIN Industries SRL Ploiești, Contract nr. 2/2013 cu SC SPECTROMAS SRL București, 2013 – **membru in colectivul de cercetare**

[16] Studiul experimental şi prin simulare al factorilor de influenţă ai fenomenului de revenire elastică la ambutisarea tablelor metalice, Contract nr. 10/2004 cu S.C. Mecanica Ceahlău S.A. Piatra Neamț, 2004 – director de proiect

[17] Studiul experimental si prin simulare privind factorii de influenta ai preciziei de prelucrare la ambutisarea pieselor cu pereți circulari, Contract de cercetare nr. 11/2005 cu S.C. Mecanica Ceahlău S.A. Piatra Neamț, 2005 RON – **membru in colectivul de cercetare**

[18] Sistem de proiectare optimizata a sculelor de ambutisare, Contract de cercetare nr. 12/2004 cu S.C. Mecanica Ceahlău S.A. Piatra Neamț, 2004-2005 – **membru in colectivul de cercetare**

[19] Optimizarea constructiva si geometrica a frezelor frontale de finisare si a regimurilor de lucru la frezarea fina a ghidajelor, Contract nr. 528/2005 cu societatea World Machinery Works S.A. Bacău, 2005 – **membru in colectivul de cercetare**

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