

## PERSONAL INFORMATION

**Maria STOICĂNESCU** stoican.m@unitbv.roPOSITION  
IOSUD UTBV

Transilvania University of Braşov  
Doctoral Advisor - Industrial Engineering  
Doctoral Adviser since 2019

EXPERTISE FIELD AND  
RESEARCH INTEREST AREAS

Industrial Engineering, Materials Engineering / Product development and refinement; Optimization of industrial processes; Unconventional materials processing technologies; Unconventional treatment technologies; Programming and conducting experiments; Use of research facilities and equipment

## WORK EXPERIENCE

December 1999 - present

**Professor** (2019-present); **Associate Professor** (2015 - 2019); **Lecturer** (2002-2015); **PhD student** (1999-2002)

Transilvania University of Braşov, B-dul Eroilor, Nr. 29, Braşov, 500036, Romania,  
www.unitbv.ro

- Course activities, laboratory, seminar, project and scientific research
- Education, Research, Higher Education

1993- 1996

**Mechanization Engineer**

Tracking and organizing production

S.C. Tunele Braşov , str Harmanului 17A, Braşov, România

## EDUCATION AND TRAINING

2018 - 2019

**Habilitated in the Industrial Engineering field**

The Transilvania University of Braşov

Habilitation Thesis: RESEARCHES ON THE EFFECTS OF INNOVATIVE HEAT TREATMENTS ON THE QUALITY OF METAL ALLOYS USED IN INDUSTRY

Habilitation Attestation according to the Order of the Minister of National Education 3054 / 15.01.2019

Replace with EQF  
(or other) level if  
relevant

2014

**Trainer of Trainers**

Graduation Certificate Series D, No. 0004034/ 03.10.2005- Postgraduate refresher course

Training activities, assessment of participants, training marketing, quality assurance  
Certificate issued by: The Ministry of Labour, Family and Social Protection and the Ministry of Education, Research, Youth and Sports/The Institute for Training, Studies and Research - PIMMJM, Tg. Mureş  
Classification of Occupations in Romania Code: 242402

- June - July 2010 **Trainer of Trainers**  
 Graduation Certificate Series H, No. 00124688/02.02.2013 - Postgraduate refresher course  
 Training activities, assessment of participants, training marketing, quality assurance  
 Certificate issued by: The Ministry of Labour, Family and Social Protection and the Ministry of Education, Research, Youth and Sports/The Institute for Training, Studies and Research - PIMMJM, Tg. Mureş. Classification of Occupations in Romania Code: 242402
- June - July 2010 **Vocational Competences Assessor,**  
 Vocational Competence Certificate, Series B, No. 005174/02.07.2010,  
 Planning and organizing assessments; Conducting assessments; Analysing information and making decisions on competence. Certificate issued by: The National Council for Adult Vocational Training (CNFPA). Vocational Training Standard: M 9,
- July - August 2009 **Project Manager**  
 Graduation Certificate Series F, No. 0014977/14.08.2009, Postgraduate refresher course  
 Establishing the purpose of the project; Establishing the integrated project management requirements; Cost and resource management; Risk management; Project team management; Communication management; Project quality management.  
 Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 241919
- Oct. - Nov. 2006 **Quality Auditor**  
 Graduation Certificate Series A, No. 0072970/29.11.2006 Postgraduate refresher course  
 Actions specific to the audit process; The family of ISO 9001 and ISO 19011 standards; Tasks and duties in the audit team; Preparation of audit-specific documents; Planning of audit work; Conducting the audit; Preparation of the audit report.  
 Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242303
- June - July 2006 **Environmental Auditor**  
 Graduation Certificate Series A, No. 0072521/11.08.2006 Postgraduate refresher course  
 Actions specific to the audit process; The family of ISO 9001 and ISO 19011 standards; Tasks and duties in the audit team; Preparation of audit-specific documents; Planning of audit work; Conducting the audit; Preparation of the audit report.  
 Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242305
- June - July 2006 **Manager of Quality Management Systems**  
 Graduation Certificate Series A, No. 0072500/27.08.2006 Postgraduate refresher course  
 Staff assessment, training and motivating for quality; Supplier assessment; Quality policy development and implementation; Monitoring inspections and tests.  
 Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242302
- June - July 2006 **Manager of Environmental Management Systems**  
 Graduation Certificate Series A, No. 0072508/11.08.2006 Postgraduate refresher course  
 Training the environmental department staff; Defining the organization's environmental policy, developing environmental management programs; Implementation of the Environmental Management System; Organizing the environmental protection department.  
 Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242304
- June 1993 - June 1998 **PhD degree in Materials Science;** Series P no. 0000249/08.06.1998  
 Title of the thesis: *Studies and research on the production of bainite spheroidal-graphite cast irons by heat treatments.*  
 Degree issued by: The Ministry of Education/Organizer: Transilvania University of Braşov  
 ISCED 8
- 1978-1983 **Engineer degree** - Main field of study: Metallurgy, Specialisation: Foundry, Series A no. 2230/17 June 1983  
 Mathematical analysis; Physics; Mechanics; Special Mathematics; Material resistance; Electrotechnics and electrotechnical installations in metallurgy, Machine parts, mechanisms and machining; Thermo-technics; Computers and automation elements; Industrial drawing of cast parts; Specific metallurgical machinery; Preparation and casting of ferrous and non-ferrous alloys; Hot treatments and processing; Metallurgical assemblies and heat plants, Process optimization, Casting machining; etc.  
 Educational establishment: The University of Braşov, The Machine Manufacturing Technology Faculty  
 IECED 7

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

Replace with language

Replace with language

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
Certificate of linguistic competence issued by the Transilvania University of Braşov, the CENTRE FOR MODERN LANGUAGE LEARNING, Certificate no. 270 / 19.02.2008				
B1	B1	B1	B1	B1
Replace with name of language certificate. Enter level if known.				

Communication skills

- Good communication skills and team spirit acquired as deputy department director member, faculty council member, tutor, research project manager, collaborator of the industrial environment

Organisational / managerial skills

Organizing activities for teaching and fundamental and applicative research of industrial processes. Over the years, I have coordinated the following activities within the Transilvania University:

- Vice-Dean, responsible for the teaching activity and quality at the Faculty of Materials Science and Engineering;
- Deputy Principal of the Technical University College of the Transilvania University of Braşov;
- Responsible for quality assurance within the Materials Science and Engineering Faculty;
- Responsible for the implementation of the management control system in the Materials Science Department;
- - Manager of the Postgraduate studies "Environmental pollution, protection and management".

Job-related skills

- Scheduling and conducting experiments; Using research facilities and apparatus; Modelling and optimizing industrial processes

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Basic user	Basic user	Basic user	Basic user	Basic user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificates

- Skills: PC-MS Windows, Internet, Word, Excel, Power Point, Microcal Origin, Microsoft Projects

Other skills

National assessor, The Ministry of National Education, the Agency for Credits and Scholarships; Consultant in the field: Quality Management, Environmental Management and Project Management;

ADDITIONAL INFORMATION



- Publications** 7 books published by domestic publishing houses
- Presentations** 14 ISI indexed articles
- Conferences** 22 articles in ISI Proceedings indexed volumes
- Seminars** 14 BDI indexed papers  
no patents: 2 proposals.
- Projects** Grants Director FP7-INFRA-312643 and with third parties
1. International project SFERA II 2014 - at 'CIEMAT-PSA' no. P1404300065 for SF5: Using the solar energy at heat treatments at surfaces of the metal alloys - director, 13734.9 Euro
  2. International Project SFERA II 2016 - at 'CIEMAT-PSA' no. P1602050206, Research on using solar energy to heat treatment of steels surface, valoare, 12363.1 Euro
  3. Contract with third parties 2014-2015 - Research regarding the establishment of the causes of the occurrence of structural inhomogeneities in order to reduce / eliminate them in the products of ATSi7Mg0.3 of bar type, value 45.087 RON;
  4. Contract with third parties 7191 / 2010-2011 - Studies and research regarding the improvement of the quality of SC ALRO Slatina SA products and training of the operating personnel - value 97105 RON.
- Memberships** ATTR - Romanian Foundry Technical Association, <http://www.foundry-atrr.ro/>
- References** ATTIS - Association of Heat Treatment and Surface Engineering, <http://www.attis.ro/en/>  
SRB - Romanian Society for Biomaterials, <http://www.srb.ro/contact>  
AGIR - General Association of Engineers of Romania, <http://www.agir.ro/>  
ASM - American Society of International Metals - Romania Branch, 2006-2008
- Citations**
- H Indexes** ISI Knowledge (ISI Index), h-index: 3;  
Scopus (Scopus Index), h-index: 2  
Google Scholar (GS Index), h-index: 2.

**ANNEXES**

**LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)**

1. Ioan Milosan , Gilles Flamant , Ionelia Voiculescu, Victor Geanta , Daniel Munteanu, Tibor Bedo , Mihai Alin Pop , Augustin Semenescu, Aurel Crisan, Daniel Cristea, Ioan Giacomelli, **Maria Stoicanescu**, Camelia Gabor, Flavius Aurelian Sarbu, Ioana Ghiuta - Comparative Study of Heat Treatment Effects Performed with Solar Energy and Electric Furnace on EN 1.4848 Stainless Steel Alloyed with Co, W, Cu and Mo, REV.CHIM.(Bucharest), 69, No. 5 , 2018, p. 798-801, ISSN 2537-5733, Factor Impact: 0.383, <http://www.revistadechimie.ro/pdf/9%20GEANTA%204%2018.pdf>  
[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=1&SID=C6tDrXVCeGuH8IG6lbF&page=1&doc=1](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C6tDrXVCeGuH8IG6lbF&page=1&doc=1)
2. E. L. Tiron, A. Crisan, T. Bedő, **M. Stoicanescu**, M. A. Pop, D. Cristea- The Influence of Galvanizing Parameters on the Structural Development of Zn-Al-Based Coatings, Journal of Materials Engineering and Performance, September 2018, Volume 27, Issue 9, pp 4548–4560, ISSN: 1059-9495 (Print) 1544-1024 (Online), Impact Factor 1.340  
<http://link.springer.com/article/10.1007/s11665-018-3555-8>
3. **Stoicanescu M.**, Pitulice C., Giacomelli I. - Studies on structural changes in titanium alloys by heat treatment, JOAM, 2015, Vol. 17, No. 9-10, September – October 2015, p. 1410-1416, ISSN: 1454-4164, Impact Factor : 0.383, WOS:000364600400029  
<https://joam.inoe.ro/index.php?option=magazine&op=view&idu=3835&catid=92>  
[http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search\\_mode=GeneralSearch&prID=887e367d-e121-4f41-a99c-97ead4c85497](http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search_mode=GeneralSearch&prID=887e367d-e121-4f41-a99c-97ead4c85497)
4. Craciun D., Socol G., Cristea D.V., **Stoicanescu M.**, Olah N., Balazs K., Stefan N., Lambers E., Craciun V. - Mechanical properties of pulsed laser deposited nanocrystalline SiC films, Applied Surface Science Volume 336, 1 May 2015, Pages 391-395, ISSN: 0169-4332, Journal impact 3.38, WOS:000351617600066  
<http://www.sciencedirect.com/science/article/pii/S0169433214029201>  
<https://doi.org/10.1016/j.apsusc.2014.12.186>
5. **Stoicanescu M.**, Ene E., Zara A. et al.-The heat treatment influence of 1.3343 high speed steel on content of residual austenite, Procedia Technology, Volume 22, 2016, Pages 161-166, WOS:000383949300024  
<https://doi.org/10.1016/j.protcy.2016.01.039>  
[http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search\\_mode=GeneralSearch&prID=49345023-ce46-4e83-ad3a-3e918d6f5adb](http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search_mode=GeneralSearch&prID=49345023-ce46-4e83-ad3a-3e918d6f5adb)
6. Matei S., **Stoicanescu M.**, Crisan A. - Composites with short fibers reinforced epoxy resin matrix, Procedia Technology, Volume 22, 2016, Pages 174-181, WOS:000383949300026  
<https://doi.org/10.1016/j.protcy.2016.01.041>  
[http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search\\_mode=GeneralSearch&prID=2b2c873f-4822-4ab6-930a-7fd9bc209401](http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search_mode=GeneralSearch&prID=2b2c873f-4822-4ab6-930a-7fd9bc209401)
7. **Stoicanescu M.**, Smeada M. - Studies regarding mechanical properties improvement of aluminum alloy type AlSi5Cu<sub>x</sub> and results validation by calculating precision indicators, Procedia Technology, Volume 22, 2016, Pages 167-173, Accession Number: WOS:000383949300025  
<https://doi.org/10.1016/j.protcy.2016.01.040>  
<https://www.sciencedirect.com/science/article/pii/S2212017316000414?via%3Dihub>
8. Zara A., **Stoicănescu M.**, Giacomelli I., Cazacu M. - The using of laser radiation at surface hardening of improvement steels, Journal of Optoelectronics and Advanced Materials, Volume: 15 Issue: 9-10 Pages: 1084-1089 Published: sep-oct 2013, ISSN: 1454-4164, FI 2013= 0,563, Accession Number: WOS:000326414700026  
<https://joam.inoe.ro/index.php?option=magazine&op=list&revid=80>  
[http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search\\_mode=GeneralSearch&prID=a5f9ed38-23e2-4e92-961a-8c8e56326149](http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search_mode=GeneralSearch&prID=a5f9ed38-23e2-4e92-961a-8c8e56326149)
9. Cazacu M., Zara A., **Stoicănescu M.**, Giacomelli I. - Wear resistance of heat treatable steels, surface hardened with concentrated energy sources, Journal of Optoelectronics and Advanced Materials, Volume: 15 Issue: 9-10 Pages: 1125-1130 Published: SEP-OCT 2013, ISSN: 1454-4164, FI 2013= 0,563, Accession Number: WOS:000326414700033  
<https://joam.inoe.ro/index.php?option=magazine&op=list&revid=80>  
[http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search\\_mode=GeneralSearch&prID=3366e6a4-d954-4a8f-afc3-b979e9d38347](http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search_mode=GeneralSearch&prID=3366e6a4-d954-4a8f-afc3-b979e9d38347)
10. **Stoicanescu M.**, Ciobanu I., Crisan A. - About the mathematical modeling of the chemical intercrystalline microsegregation of a steel with 0.533 %C, Metalurgia International, Vol: 18 Special Issue:5, Pages: 143-148, Published: 2013, ISSN: 1582-2214, FI = 0,053, Accession Number: WOS:000315611900029  
[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=1&SID=E61oYP6dOShIK9jNuNL&page=1&doc=10](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E61oYP6dOShIK9jNuNL&page=1&doc=10)
11. **Stoicanescu M.**, Smeada M. - Stationary magnetic field influence on mechanical properties of aluminum alloys. Experimental results, Metalurgia International Volume: 15 Special Issue: 8 Pages: 30-34 Published: 2010, ISSN: 1582-2214, FI = 0,15, Accession Number: WOS:000278729700005  
[http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search\\_mode=GeneralSearch&prID=7bbf5a14-80c2-42b8-abab-73a13cbe2510](http://apps.webofknowledge.com/Search.do?product=WOS&SID=C2RuoHJRALypCQ2tCS5&search_mode=GeneralSearch&prID=7bbf5a14-80c2-42b8-abab-73a13cbe2510)

12. Valeriu COMICI, Ioan GIACOMELLI, **Maria STOICĂNESCU**, Adriana ZARA- CONSIDERATIONS ON HEAT TREATMENTS OF MARTENSITIC STAINLESS STEELS., Scientific Research And Education In The Air Force – AFASES2018, Jurnal BDI:Scientific Research and Education in the Air Force, pp.143-146.  
DOI: 10.19062/2247-3173.2018.20.17  
[http://www.afahc.ro/ro/afases/afases\\_archives\\_2018.html#1.2](http://www.afahc.ro/ro/afases/afases_archives_2018.html#1.2).  
<http://www.afahc.ro/ro/afases.html>
13. **Maria STOICĂNESCU**, Dragoș BUDEI, Eliza BUZAMET, Roxana BUDEI, Researches on Roughness for the Main Brands of Dental Implants, RECENT 54, Vol. 19 (2018), No. 1 (54), 2018, pp. 44 – 51  
<https://doi.org/10.31926/RECENT.2018.54.044>  
<http://www.recentonline.ro/abs.htm>
14. **Maria STOICĂNESCU**, Aurel CRIȘAN, Mihai Alin POP, Ioan CIOBANU- Experimental Verification of a Software for Simulation of Heating Metallic Parts in Solar Furnaces, RECENT 55, Vol. 19 (2018), No. 2 (55), 2018, pp. 77- 88  
<https://doi.org/10.31926/RECENT.2018.55.077>  
<http://www.recentonline.ro/abs.htm>
15. **Stoicănescu M.**, Dăian M., Ciobanu I., Bedo T., Pop M. A., The influence of the tubular part wall thickness on the white cast iron layer thickness in the centrifugal casting case, Recent, Vol. 18, no. 3(53), November, 2017, pp.236-246. BDI: ULRICHSWEB Global Serials Directory, Index Copernicus Journal Master List  
[http://www.recentonline.ro/files/ulrichsweb.serialssolutions.com\\_RECENT\\_2011.pdf](http://www.recentonline.ro/files/ulrichsweb.serialssolutions.com_RECENT_2011.pdf)
16. **Stoicănescu M.**, Buzamet E., Budei D. V., Craciun V., Budei R., Cosnita M., Crisan A. - Possible Causes in Breaking of Dental Implants Research, Materials Science Forum, ISSN: 1662-9752, Vol. 907, pp 104-118, Trans Tech Publications, Switzerland, 2017,  
<https://doi.org/10.4028/www.scientific.net/MSF.907.104>
17. **Stoicănescu M.**- Studies concerning the possibility of hardening through thermic isothermal treatment of the casting alloys of aluminum, rev. Recent , Vol. 15, nr. 3(43)/2014, ISSN 2065-4529, pag. 215-219  
[http://www.recentonline.ro/files/ulrichsweb.serialssolutions.com\\_RECENT\\_2011.pdf](http://www.recentonline.ro/files/ulrichsweb.serialssolutions.com_RECENT_2011.pdf)
18. Pitulice C., Giacomelli I., **Stoicănescu M.**- The influence of heat and surface treatment on the wear resistance of titanium alloys, International Conference of Scientific Paper AFASES 2014, ISSN , ISSN-L: 2247-3173, pg. 227-232,  
[http://scholar.google.com/scholar?as\\_ylo=2014&q=stoicanescu+maria&hl=ro&as\\_sdt=0.5&lookup=0](http://scholar.google.com/scholar?as_ylo=2014&q=stoicanescu+maria&hl=ro&as_sdt=0.5&lookup=0)
19. Crișan A., Ciobanu I., Ionescu D., **Stoicănescu M.**- Computer simulation based comparative study on the solidification of a cast iron and steel casting, International Conference of Scientific Paper AFASES 2014, ISSN-L: 2247-3173,pg. 157-164.  
[http://scholar.google.com/scholar?as\\_ylo=2014&q=stoicanescu+maria&hl=ro&as\\_sdt=0.5&lookup=0](http://scholar.google.com/scholar?as_ylo=2014&q=stoicanescu+maria&hl=ro&as_sdt=0.5&lookup=0)
20. Smeadă M., **Stoicănescu M.** - Experimental studies on improving the mechanical properties of aluminum alloys, Review of the Air Force Academy No 1 (23) , 2013, pg. 45-48, ISSN: 2069-4733, <http://scholar.google.com/>

Data,  
Martie, 2020

prof.dr.ing. Stoicănescu Maria

