Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Leandru-Gheorghe BUJOREANU**
Address(es)	
E-mail	lgbujor@tuiasi.ro; lgbujor@yahoo.com; lgbujoreanu@gmail.com
Nationality	Romanian
Date of birth	22.03.1959, Iași
Gender	Male, married, 2 children (1987 ♂, 1988♀)

Occupational field

High school research and teaching

Work experience

Dates	1984-1987	1987-1990	1990-1993	1993-1999	1999-2008	2008-
Occupation or position held	Workshop technologist and product designer	Assistant lecturer on probation	Assistant lecturer	Lecturer	Associate Professor	Professor
Main activities and responsibilities	Surveillance of technologi-cal flow and design manager	Laboratory works	Laboratory works	Lectures and laboratory works	Lectures and laboratory works; research	Lectures and research
Name and address of employer	FORTUS Heavy Equipment Plant Iasi, Romania	The Gheorghe Asachi Technical University from Iasi, Bd.D.Mangeron 67, 700050 Iasi, Romania				
Type of business or sector	State University					

Education and training

Dates	1978 graduate of Special Class of Physics (Prof. Seryl Talpalaru), „Emil Racoviță" High School, Iași, Romania					
	1979-1984	1992-1997	3.11-1.12.2002 28.02-29.04.2005	15.11-15.12.2005 14.02-18.03.2007 13.02-6.04.2008	1-15.11.2007 4-14.05.2009 10-16.05.2010 7-11.10.2013-	14-26.07.2008
Title of qualification awarded	Mechanical engineer	Doctor in Science	Visiting scholar	Guest researcher	Visiting scholar	Guest researcher
Principal subjects/occupational skills covered	Machine building technology	Material Engineering	Research on Cu-Zn-Al and Ni-Ti shape memory alloys	Research on Fe-base shape memory alloys	Research on powder metallurgy Fe-base shape memory alloys	Research on Fe-base shape memory alloys
Name and type of organisation providing education and training	The "Gheorghe Asachi" Technical University of Iasi, Romania		Ruhr University of Bochum, Germany	National Institute of Materials Science, Tsukuba, Japan	Istanbul Technical University, Turkey	Netzsch GmbH, Selb, Germany
Level in national or international classification	national		international			

Personal skills and competences

Mother tongue(s) **Romanian**)

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
Language	C2	English	C2	English	C1	English	C1	English	C2	English
Language	C1	French	C2	French	C1	French	C1	French	C1	French
	A1	German	A1	German	A1	German	A1	German	A1	German

(*) Common European Framework of Reference for Languages

Social skills and competences

The ability to communicate with various categories of people, especially in other languages, was acquired during the voyages abroad

Organisational skills and competences

- Member of Materials Engineering Commission within The National Council of Assessment of University Titles, Diplomas and Certificates (Romania), since 2011
- Director of studies at the master course specialty "Advanced Materials and Experimental Analysis Techniques", Faculty of Materials Science and Engineering, at "Gheorghe Asachi" Technical University of Iași, Romania, since 2009

The ability to organize research activity groups was acquired during the development of six research projects, as a manager, in the time interval 2004-2019

Technical skills and competences

Limited technical skills, acquired during the faculty training, were slightly developed during the production stage performed at FORTUS Heavy Equipment Plant Iasi

Computer skills and competences

Good editing abilities, using Microsoft Office, Word and Power Point programs were developed during papers/ book editing and lecture preparation, respectively

Artistic skills and competences

Insignificant

Other skills and competences

- Expert in Shape Memory Alloys, co-author at 20 published books (book chapters); 160 papers (86 indexed in Web of Science); 6 patents; 66 presentations in International Conferences (3 - plenary, 1 - keynote,1 - invited, 25 - oral, 36 - poster) and 13 national research projects (6 as project manager, with attracted funds > 1 M€).
- International evaluator for: (i) Georgia (Shota Rustavelli) National Science Foundation (2009, 2011); (ii) Fonds Wetenschappelijk Onderzoek – Vlaanderen, Belgium (2010); (iii) Le Studium, France (2015) and (iv) GRIS, Czech Science Foundation (2017).
- National evaluator for the programs: (i) GRANT CNCSIS (2005-3 projects, 2007-6 projects); (ii) CEEX (2006-65 projects); (iii) IDEI (2008-16 projects); (iv) Human Resources (2010: TE-2 projects, PD-4 projects); (v) PCCA (2013-17 projects); (vi) IDEI implementation (2014-2 projects, 2016-2 projects); (vii) TE (2016-7 projects); (viii) Mobilities Ro-Md (2016-5 projects); (ix) PTE (2016-4 preojects, 2019-3 projects)
- Outstanding reviewer for Elsevier: (i) Materials Science and Engineering-A (2017) and (ii) Journal of Alloys and Compounds (2018).
- Recognized reviewer for Elsevier: (i) Materials Science and Engineering-A (2009); (ii) Thermochemica Acta (2011); (iil) Journal of Noncrystalline Solids; (iv) Materials Chemistry and Physics; (v) Materials Letters; (vi) Materials and Design; (vii) Journal of Alloys and Compounds (2016).
- Reviewer for Nature Communications (2018 and 2019)

Driving licence

Driving licence B

Additional information

Contact persons: Nicoleta Bujoreanu; References: Prof.Gunther Eggeler, Ruhr University Bochum and Prof.Burak Ozkal, Istanbul Technical University

Annexes

Paper list

Prof.dr.ing. Leandru-Gheorghe BUJOREANU

LIST OF PUBLISHED PAPERS

I. TEACHING ACTIVITY

I.1. Published books (Ca)

Ca1 Rodinel Ardeleanu, **Leandru-Gheorghe Bujoreanu**, Gabriela Săcărescu, Liviu Săcărescu and Mihaela Simionescu, *Nonmetallic Shape Memory Materials. Structure-Properties-Applications*, (in Romanian), Editura tehnică, ştiinţifică și didactică CERMI, Iaşi, 219 pages, 2007, ISBN 978-973-667-291-0
Ca2 M.Nicu, N.Bâlbă, **L.G.Bujoreanu**, S.Stanciu and F.Apostu, *Materials Science and Engineering*. Vol. *II Modern Materials*, (in Romanian), 2nd edition; Editura ECOZONE, Iaşi, 188 pages, 2006, ISBN Vol III: 973-7645-21-9
Ca3 **L.G.Bujoreanu** and C.Baciu, *Materials Study. Tests and Applications,* (in Romanian), Editura tehnică, ştiinţifică şi didactică CERMI, Iaşi, 198 pages, 2003, ISBN 973-8188-69-5
Ca4 **L.G.Bujoreanu**, G.Roşescu and I.Avram, *Materials Study in Machine Building*, (in Romanian), Editura Ştiinţifică "Fundaţia Metalurgia Română", Bucureşti, 321 pages;1998, ISBN 973-98314-5-1
Ca5 **L.G.Bujoreanu** and S.Stanciu, *Shape Memory Materials. Practical Methods for Analysis,* (in Romanian), Editura "Cermi", Iaşi, 144 pages, 1998**,** ISBN 973-9378-28-5
Ca6 G.Calugaru, **L.G.Bujoreanu**, S.Stanciu, I.Hopulele, R.Căliman, O.L.Turcu and I.Apachiţei *Shape Memory. Phenomena and Applications in Materials Science,* (in Romanian), Editura „Plumb", Bacău, 208 pages, 1995, ISBN 973-9150-50-0
Ca7 G.Calugaru, I.Apachiţei, R.Căliman, O.L.Turcu and **L.G.Bujoreanu,** *Advanced Materials. Amorphous Metallic Powders,* Editura "Plumb", (in Romanian), Bacău**,** 218 pages, 1995, ISBN 973-9150-49-7

I.2. Books published on the Web

Ca8. **L.G.Bujoreanu,** *Superalloys. Lecture Notes*, (in Romanian), 142 pages
http://www.sim.tuiasi.ro/wp-content/uploads/2019/01/Note-de-curs-Superaliaje_2017-18.pdf
Ca9. **L.G.Bujoreanu,** *Electro and Magnetorheological Materials. Lecture Notes*, (in Romanian), 100 pages
http://www.sim.tuiasi.ro/wp-content/uploads/2019/01/Note-de-curs-Materiale-ERMR_2017-18.pdf
Ca10. LGBujoreanu, *Nonmetallic shape memory Materials* (in Romanian), 169 pages
http://www.sim.tuiasi.ro/wp-content/uploads/2019/01/MNMF_Note-de-curs_2018.pdf

I.3 Guides for laboratory works

I1 C.Baciu, C.Munteanu, I.Rusu, **L.G.Bujoreanu**, Maria Baciu and I.Apachiţei, *Laboratory Handbook. Metals Study,* (in Romanian), *Vol. I,* Rotaprint, I.P.Iaşi, 186 pages, 1992

II. SCIENTIFIC CONTRIBUTIONS TO DOMAIN DEVELOPMENT

II.1 Published scientific books (Cb)

Cb1. Nicoleta-Monica Lohan, **Leandru-Gheorghe Bujoreanu**, *Development of experimental CUZnAl-based shape memory actuators*, in: Research and Innovation in Advanced Engineering Materials, Editors: Makio Naito, Andrej Buchacz, Andrej Baier, Pavel Topala, Dumitru Nedelcu, ModTech Publishing House, Iași 2019, pp. 78-92, ISBN 978-606-93704-5-2
Cb2. M. Mocanu, E. Mihalache, B. Pricop, F. Borza, M. Grigoras, R.I.Comăneci, B. Ozkal, **L.G.Bujoreanu**, *The Influence of α' (bcc) Martensite on the Dynamic and Magnetic Response of Powder Metallurgy FeMnSiCrNi Shape Memory Alloys*, in: Proceedings of the International Conference on Martensitic Transformations: Chicago, A.P.Stebner, G.B.Olsen (Eds), The Minerals, Metals & Materials Series, 2018, pp. 99-108, ISBN 978-3-319-76967-4.
Cb3. **Leandru-Gheorghe Bujoreanu**, Bogdan Pricop, Nicoleta Monica Lohan, Marius-Gabriel Suru, Bogdan Istrate, *Chapter 7 Structural and Chemical Variations Induced by Thermomechanical Cycling in Shape Memory Actuators*, in: Frontiers in Materials Processing, Applications, Research and Technology, Select Proceedings of FiMPART 2015, Editors: Muruganant, M., Ali, Chirazi, Raj, Baldev, Springer Nature, Singapore, 2018, pp. ,63-74, ISBN 978-981-10-4818-0,
Cb4. **L.G.Bujoreanu**, *Formation of transitory bainite as a precursor of α-phase during tempering of martensitic Cu-Zn-Al SMAs*, in: Encyclopedia of Materials Science Research, Volume 1, Editors: Batukhan B. Chinbat and Sora H. Mori, Nova Science Publishers 2012, pp. 263-283, ISBN 978-1-61209-954-5
Cb5. **L.G.Bujoreanu,** *Chapter 9. Formation of transitory bainite as a precursor of α-phase during tempering of martensitic Cu-Zn-Al SMAs*, in: Shape Memory Alloys: Manufacture, Properties and Applications, Editor H.R. Chen, Nova Science Publishers 2010, pp. 267-285, ISBN 978-1-60741-789-7
Cb6. R.Chelariu, **L.G.Bujoreanu**, and C.Roman, *Titanium Base Biocompatible Metallic Materials,* (in Romanian), Editura Politehnium, Iaşi, 215 pages; 2006, ISBN (10) 973-621-153-3; ISBN (13) 978-973-621-153-9
Cb7. **L.G.Bujoreanu**, S.Stanciu, C.Munteanu and M.Susan, *Mechanical and Thermal Memory of Cu-Zn-Al Base Shape Memory Alloys,* (in Romanian), Editura Politehnium, Iaşi, 183 pages; 2005**,** ISBN 973-621-111-8
Cb8. **L.G.Bujoreanu** *Intelligent Materials,* (in Romanian), Editura „Junimea", Iaşi, 339 pages, 2002, ISBN 973-37-0735-X
Cb9. **L.G.Bujoreanu**, V.Dia, E.Drăgulănescu and G.Roşescu, *Technology and Equipment for Obtaining Some Shape Memory Alloys. Vol. II*, (in Romanian), Editura Ştiinţifică "Fundaţia Metalurgia Română", Bucureşti, 166 pages, 1999, ISBN 973-98314-8-6
Cb10. **L.G.Bujoreanu**, V.Dia and S.Mărginean, *Technology and Equipment for Obtaining Some Shape Memory*

Alloys. Vol.I, (in Romanian), Editura Ştiinţifică “Fundaţia Metalurgia Română”, Bucureşti, 207 pages, 1998, ISBN 973-98314-2-7

II.2 **Published paper in international journals indexed in ISI Web of Science or IDB (Ri)**

Ri 1 N.M. Lohan, B. Pricop, M. Popa, E. Matcovschi, N. Cimpoeșu, R. Cimpoeșu, B. Istrate, and L.G. Bujoreanu, *Hot Rolling Effects on the Microstructure and Chemical Properties of NiTiTa Alloys* Journal of Materials Engineering and Peformance 28(12) 7273-7280

Ri 2 Mihai Popa, Nicoleta-Monica Lohan, Florin Popa, Bogdan Pricop, Leandru-Gheorghe Bujoreanu, *Holding-temperature effects on thermally and stress induced martensitic transformations in an FeMnSiCr SMA,* Materials Today: Proceedings 19 (2019) 956–962

Ri 3 Vasile Bulbuc, Bogdan Pricop, Florin Maxim, Mihai Popa, Nicanor Cimpoeșu, Leandru-Gheorghe Bujoreanu, *Variation of damping behaviour of T105Mn120 castings, used for railway safety systems, as an effect of extreme loading conditions,* Materials Today: Proceedings 19 (2019) 949–955

Ri 4 Mihai Popa, Bogdan Pricop, Elena Mihalache, Vasile Dănuț Cojocaru, Radu-Ioachim Comăneci, Leandru-Gheorghe Bujoreanu, *Some structural effects related to the abnormal grain growth in FeMnAlNi shape memory alloys,* Materials Today: Proceedings 19 (2019) 931–940

Ri 5 M Popa, B Pricop, R-I Comaneci, G Gurau, M Vollmer, P Krooss, T Niendorf and L-G Bujoreanu, *Processing effects on tensile superelastic behaviour of Fe43.5Mn34Al15±XNi7.5∓X shape memory alloys*, IOP Conf. Series: Materials Science and Engineering 591 (2019) 012026, doi:10.1088/1757-899X/591/1/012026

Ri 6 C Costache, V Apostol, B Pricop, N-M Lohan, R I Comaneci, L-G Bujoreanu, *Study of some heat treatment effects on thermodynamic and structural properties of Ti-Ta biomedical shape memory alloys*, IOP Conf. Series: Materials Science and Engineering 591 (2019) 012011, doi:10.1088/1757-899X/591/1/012011

Ri 7 L Ciurcă, N-M Lohan, B Pricop, L G Bujoreanu, *Study of tensile behaviour of Fe base shape memory alloys during mechanical cycling,* IOP Conf. Series: Materials Science and Engineering 591 (2019) 012009, doi: 10.1088/1757-899X/591/1/012009

Ri 8 V Apostol, N M Lohan, E Mihalache, R I Comăneci, N Cimpoeșu, B Pricop, M Popa, L G Bujoreanu, *Accumulation of stress induced martensite in Fe43.5Mn34Al15±XNi7.5∓X shape memory alloys*, IOP Conf. Series: Materials Science and Engineering 572 (2019) 012032, doi: 0.1088/1757-899X/572/1/012032

Ri 9 V Bulbuc, B Pricop, M Popa, E Mihalache, B Özkal, L G Bujoreanu, *Thermomechanical processing effects on the structure and properties of Fe-based SMAs. I. Evolution of phase structure*, IOP Conf. Series: Materials Science and Engineering 485 (2019) 012004, doi:10.1088/1757-899X/485/1/012004

Ri 10 M Popa, B Pricop, V Bulbuc, E Mihalache, B Özkal, L G Bujoreanu, *Thermomechanical processing effects on the structure and properties of Fe-based SMAs. II. Evolution of damping behaviour*, IOP Conf. Series: Materials Science and Engineering 485 (2019) 012023, doi:10.1088/1757-899X/485/1/012023

Ri 11 N. Cimpoesu, E. Mihalache, N.-M. Lohan, M.-G. Suru, R. I. Comăneci, B. Özkal, **L.-G. Bujoreanu**, and B. Pricop, *Structural-morphological fluctuations induced by thermomechanical treatment in a Fe – Mn – Si shape memory alloy***,** Metal Science and Heat Treatment, 60(7 – 8), 2018, 471-477, DOI 10.1007/s11041-018-0303-5, ***IMPACT FACTOR: 0,379***

Ri 12 V. Bulbuc, B. Pricop, F. Maxim, M. Popa, N. Cimpoeșu, **L. G. Bujoreanu**, *Influence of Dynamic Three Point Bending on the Work Hardening Capacity of T105Mn120 Manganese Steel*, Journal of Materials Engineering and Performance, 27(11), 2018, 6127-6134, DOI: 10.1007/s11665-018-3658-2, ***IMPACT FACTOR: 1,476***

Ri 13 R Comaneci, L-G Bujoreanu, M Popa, *Effects of high straining in copper strips processed by multiple direct extrusion and subsequent rolling*, IOP Conf. Series: Materials Science and Engineering 400 (2018) 032005

Ri 14 P Ciubotariu–Ana, C A Micu, N M Lohan, B Pricop, L G Bujoreanu and C Bejinariu, *Thermal Analysis of a New Glass Fiber-Reinforced Bismaleimide Composite Material Used for Firefighter Helmets*, IOP Conf. Series: Materials Science and Engineering **374** (2018) 012022

Ri 15 Bogdan Pricop, Elena Mihalache, George Stoian, Firuța Borza, Burak Özkal and **Leandru-Gheorghe Bujoreanu** (autor correspondent), *Thermo-mechanical effects caused by martensite formation in powder metallurgy FeMnSiCrNi shape memory alloys*, Powder Metallurgy, 61(4), 2018, 348–356. doi.org/10.1080/00325899.2018.1492773, ***IMPACT FACTOR:*** **1,149**

Ri 16 V Paleu, G Gurău, R I Comăneci, V Sampath, C Gurău and **L G Bujoreanu** (autor correspondent), A new application of Fe-28Mn-6Si-5Cr (mass%) shape memory alloy, for self-adjustable axial preloading of ball bearings, Smart Materials and Structures, 27(7), 2018, 075026 (11pp), doi.org/10.1088/1361-665X/aac4c5, ***IMPACT FACTOR:*** **3,543**

Ri 17 Nicoleta Monica Lohan, Bogdan Pricop, Lucian Burlacu, **Leandru-Gheorghe Bujoreanu** (autor correspondent), *Using DSC for the detection of diffusion-controlled phenomena in Cu-based shape memory alloys*, Journal of Thermal Analysis and Calorimetry, 131, 2018, 215–224, ***IMPACT FACTOR:*** **2,471**

Ri 18 M. Suru, N. Lohan, E. Mihalache, B. Pricop, M. Mocanu, **L. Bujoreanu** (autor correspondent), *AFM Evaluation of Pre-Straining Degree Effects on the Dimensions of Stress Induced Martensite Plates in Fe-Mn-Si Based SMAs*, Journal of Testing and Evaluation, 45(2), 2017, pp. 419-427, ISSN 0090-3973,***IMPACT FACTOR:*** **0,711**

Ri 19 G Gurau, C Gurau, **L G Bujoreanu** and V Sampath*, A Versatile Method for Nanostructuring Metals, Alloys and Metal Based Composites*, International Conference on Innovative Research — ICIR EUROINVENT 2017 IOP Publishing IOP Conf. Series: Materials Science and Engineering 209 (2017) 012036 doi:10.1088/1757-899X/209/1/012036

Ri 20 Radu Ioachim Comăneci, Dumitru Nedelcu, **Leandru Gheorghe Bujoreanu**, Influence of Tools Geometry and Processing Conditions on Behavior of a Difficult-to-Work Al-Mg Alloy During Equal Channel Angular Pressing, AIP

Conference Proceedings **1896**, 200004-1-6 (2017); doi: 10.1063/1.5008241

Ri 21 M Popa, B Pricop, E Mihalache, **L G Bujoreanu**, Storage modulus and internal friction variations in a Fe-28 Mn-6Si-5Cr (mass. %) shape memory alloy analyzed by threepoint-bending DMA, IOP Conf. Series: Materials Science and Engineering **227** (2017), 012099, p. 1-6, doi: 10.1088/1757-899X/227/1/012099

Ri 22 L Burlacu, N Cimpoeșu, **L G Bujoreanu** and N M Lohan**,** *Exploiting heat treatment effects on SMAs macro and microscopic properties in developing fire protection devices*, IOP Conf. Series: Materials Science and Engineering **227** (2017), 012018, p. 1-6, doi:10.1088/1757-899X/227/1/012018

Ri 23 G. Gurau, C. Gurau, V. Sampath, **L. G. Bujoreanu**, *Investigations of a nanostructured FeMnSi shape memory alloy produced via severe plastic deformation*, *International* Journal of Minerals, Metallurgy and Materials, 23(11), 2016, pp. 1315-1322, ISSN 1674-4799, ***IMPACT FACTOR:*** **1,221**

Ri 24 Gigi Vitel, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta Monica Lohan, and **Leandru-Gheorghe Bujoreanu** (autor correspondent), Study of Temperature Memory Effect During the Thermal Cycling in Hydraulic Systems, Journal of Testing and Evaluation, VOL. 44 / NO 4 / JULY 2016, pp. 1525-1534, doi:10.1520/JTE20140138. ISSN 0090-3973, ***IMPACT FACTOR:*** **0,711**

Ri 25 Marius Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, Elena Mihalache, Mihai Mocanu, **Leandru-Gheorghe, Bujoreanu** (autor correspondent), *Precipitation Effects on the Martensitic Transformation in a CuAlNi Shape Memory Alloy*, Journal of Materials Engineering and Performance, 25(4), 2016, pp. 1562–1569, ISSN 1059-9495, DOI: 10.1007/s11665-016-1981-z, ***IMPACT FACTOR: 1,476***

Ri 26 B. Pricop, B. Özkal, U. Söyler, J. Van Humbeeck, N. M. Lohan, M.-G. Suru, I.-P. Spiridon, and **L.-G. Bujoreanu**, *Structural changes caused by high-temperature holding of powder shape memory alloy 66% Fe – 14% Mn – 6% Si – 9% Cr – 5% Ni*, Metal Science and Heat Treatment, Vol. 57, Nos. 9 – 10, January, 2016, 553-558, ISSN 0026-0673, DOI 10.1007/s11041-016-9921-z, ***IMPACT FACTOR:*** **0,379**

Ri 27 I.-P. Spiridon, N.-M. Lohan, M.-G. Suru, E. Mihalache, **L.-G. Bujoreanu**, and B. Pricop, *A study of free recovery in a Fe – Mn – Si – Cr shape memory alloy*, Metal Science and Heat Treatment, Vol. 57, Nos. 9 – 10, January, 2016, 548-552, ISSN 0026-0673, DOI 10.1007/s11041-016-9920-z, ***IMPACT FACTOR:*** **0,379**

Ri 28 Bogdan Pricop, Elena Mihalache, Monica-Nicoleta Lohan, Bogdan Istrate, Mihai Mocanu, Burak Ozkal, **Leandru-Gheorghe Bujoreanu**, *Powder metallurgy and mechanical alloying effects on the formation of thermally induced martensite in an FeMnSiCrNi SMA,* ESOMAT 2015**,** MATEC Web of Conferences, 33, 04004 (2015), DOI: 10.1051/ matecconf/ 20153304004

Ri 29 Elena Mihalache, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta Monica Lohan, Radu Ioachim Comăneci, Bogdan Istrate, Burak Özkal and **Leandru-Gheorghe Bujoreanu**, *Factors influencing martensite transitions in Fe-based shape memory alloys,* ESOMAT 2015**,** MATEC Web of Conferences, 33, 04002 (2015), DOI: 10.1051/ matecconf/ 20153304002

Ri 30 **Leandru-Gheorghe Bujoreanu**, Viorel Goanță, Nicanor Cimpoeșu, Carmela Gurău, Marius-Gabriel Suru, Elena Mihalache and Gheorghe Gurău, *Hardness-gradient reversion in FeMnSiCr shape memory alloy modules produced by high-speed high pressure torsion*, ESOMAT 2015**,** MATEC Web of Conferences, 33, 04001 (2015), DOI: 10.1051/ matecconf/ 20153304001

Ri 31 M.G. Suru, C. Moroșanu, R.I. Comăneci, E. Mihalache, B. Pricop, N.M. Lohan, C. Baciu, **L.G. Bujoreanu**, *Comparative Evolution of Surface Relieves of Stress-Induced Martensite Plates in Shape Memory Alloys with Different Crystalline Structures*, Materials Today: Proceedings, 2(S3), 2015, pp. S957-S960, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.440

Ri 32 C. Gurau, G. Gurau, **L. G. Bujoreanu**, F. M. B. Fernandes, *A comparative study of austenitic structure in NiTi and Fe based shape memory alloys after severe plastic deformation*, Materials Today: Proceedings, 2(3), 2015, pp. S905 – S908, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.428

Ri 33 G. Gurau, C. Gurau, F. M. B. Fernandes, **L. G. Bujoreanu**, *Effect of High Speed High Pressure Torsion parameters on grain refinement of coned shape Fe based Shape Memory Alloy active elements*, Materials Today: Proceedings, 2(S3), 2015, pp. S897 – S900, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.426

Ri 34 B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comăneci, N. Cimpoeșu, V.Mușat, G. Gurău, B. Istrate, E. Mihalache, **L.G. Bujoreanu**, *A Study of Martensite Formation in Powder Metallurgy Fe-Mn-Si-Cr-Ni Shape Memory Alloys*, Materials Today: Proceedings, 2(S3), 2015, pp. S789 – S792, ISSN: 2214-7853, d.o.i. 10.1016/j.matpr.2015.07.400

Ri 35 **L.-G. BUJOREANU**, N. M. LOHAN, M.-G. SURU, A. PLESCA *Thermal analysis of eutectic alloy at HBC fuses*, Journal of Optoelectronics and Advanced Materials, 17(9-10), 2015, pp. 1500-1506, ISSN 1454-4164, ***IMPACT FACTOR: 0,588***

Ri 36 **L.G. BUJOREANU**, *Development of shape memory and superelastic applications of some experimental alloys*, Journal of Optoelectronics and Advanced Materials, 17(9-10), 2015, pp. 1437-1443, ISSN 1454-4164, ***IMPACT FACTOR: 0,588***

Ri 37 N. M. LOHAN, E. MIHALACHE, B. PRICOP, M.G. SURU, **L.G. BUJOREANU**, *A study of R-phase transition and temperature memory effect in a commercial Nitinol wire*, Journal of Optoelectronics and Advanced Materials, 17(9-10), 2015, pp. 1431-1436, ISSN 1454-4164, ***IMPACT FACTOR: 0,588***

Ri 38 E. MIHALACHE, F. BORZA, N. LUPU, N. M. LOHAN, B. PRICOP, M.-G. SURU, **L.-G. BUJOREANU**, *Thermomechanical processing effects on the martensitic transformation in Fe-based SMAs*, Journal of Optoelectronics and Advanced Materials, 17(9-10), 2015, pp. 1344-1347, ISSN 1454-4164, ***IMPACT FACTOR: 0,588***

Ri 39 R Comăneci, L Zaharia, D Nedelcu and **L G Bujoreanu**, *Processing of cylindrical hollow parts: piercing vs. extrusion*, Modern Technologies in Industrial Engineering (ModTech2015), IOP Conf. Series: Materials Science and

Engineering 95 (2015) 012032, doi:10.1088/1757-899X/95/1/012032

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Vn5 **L.Bujoreanu** and S.Stanciu, *Characteristic aspects and development tendencies of shape memory alloys*, (in Romanian), Sesiunea de comunicări tehnico-ştiinţifice „Noutăţi în domeniul tehnologiilor şi utilajelor pentru prelucrarea la cald a metalelor", Braşov, 29-30 aprilie (1993), vol.IV, Ştiinţa materialelor,pp. 107÷112, 1993

II.8. Papers presented in conferences (E)

E1. M. Popa, B. Pricop, R. I. Comăneci, G. Gurău, M. Vollmer, P. Krooss, T. Niendorf, L. G. Bujoreanu, Processing effects on tensile superelastic behaviour of Fe43.5Mn34Al15±XNi7.5∓X shape memory alloys, oral presentation at **ModTech 2019**, 22 June, Iași, Romania
E2. V. Bulbuc, B. Pricop, F. Maxim, M. Popa, N. Cimpoeșu, L.G. Bujoreanu, *Variation of damping behaviour of T105Mn120 castings, used for railway safety systems, as an effect of extreme loading condition*, Poster presentation at 11th International Conference on Materials Science and Engineering – **BraMat 2019**, 13-16 March 2019, Brașov, Romania
E3. M. Popa, B. Pricop, E. Mihalache, V.D. Cojocaru, L.G. Bujoreanu*, Some structural effects related to the abnormal grain growth in FeMnAlNi shape memory alloys,* Poster presentation at 11th International Conference on Materials Science and Engineering – **BraMat 2019**, 13-16 March 2019, Brașov, Romania
E4. M. Popa, N.M. Lohan, F. Popa, B. Pricop, L.G. Bujoreanu, *Holding-temperature effects on thermally and stress induced martensitic transformations related to strain sweep behavior*, Poster presentation at 11th International Conference on Materials Science and Engineering – **BraMat 2019**, 13-16 March 2019, Brașov, Romania
E5. N.M. Lohan, B. Pricop, M. Popa, E. Mihalache, N. Cimpoeșu, R. Cimpoeșu, B. Istrate, L.G. Bujoreanu, *Hot rolling effects on the microstructure and chemical properties of NiTiTa alloys*, Poster presentation at 11th International Conference on Materials Science and Engineering – **BraMat 2019**, 13-16 March 2019, Brașov, Romania
E6. V. Paleu, G. Gurău, R.I. Comăneci, V. Sampath, C. Gurău, **L.G. Bujoreanu**, *Development of a new constrained recovery application of FeMnSi-base shape memory alloys*, ***Plenary Lecture*** at International Conference on Material Science & Engineering, **UgalMat 2018**, october 11-13, 2018, Galati, Romania
E7. Popa M, Gurău C, Gurău G, Pricop B, Comăneci RI, Vollmer M, Krooß P, Niendorf T, **Bujoreanu LG**, *On the structure and properties of* $Fe_{43.5}Mn_{34}Al_{15-X}Ni_{7.5+X}$ *shape memory alloys*, ***poster presentation*** at 11th International Symposium of Martensitic Transformations, **ESOMAT 2018**, 27-31 august 2018, Metz, France
E8. M. Popa, E. Mihalache, V. D. Cojocaru, C. Gurău, G. Gurău, N. Cimpoeșu, B. Pricop, R. I. Comăneci, M. Vollmer, P. Krooss, T. Niendorf, **L. G. Bujoreanu**, *Processing effects on the structure and properties of Fe based superelastic alloys*, ***oral presentation*** on 17th May 2018, **HTSMAs 2018** 2nd International Conference on High Temperature Shape Memory Alloys From Basics to Applications 15 - 18 May 2018 Irsee, Germany
E9. Bogdan Pricop, Elena Mihalache, George Stoian, Firuța Borza, Burak Özkal, **Leandru-Gheorghe Bujoreanu**, *Thermomechanical effects caused by martensite formation in powder metallurgy FeMnSiCrNi shape memory alloys*, ***keynote lecture***, on 18th September 2017, at 5th INTERNATIONAL CONFERENCE ON POWDER METALLURGY & ADVANCED MATERIALS, **RoPM&AM2017**, 17-20 septembrie 2017, Cluj-Napoca, Romania
E10. Bogdan Pricop, Elena Mihalache, Burak Ozkal and **Leandru-Gheorghe Bujoreanu**, *Heat treatment and mechanical alloying effects on the dynamic stiffness of PM Fe-Mn-Si-Cr-Ni SMAs*, ***oral presentation*** on 29th August 2017 at 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry, **CEEC-TAC 4**, Chișinău, Moldova, 28-31.08.2017
E11. M. Mocanu, E. Mihalache, B. Pricop, F. Borza, M. Grigoras, R.I. Comăneci, B. Özkal and **L.G. Bujoreanu**, *The influence of α' (bcc) martensite on the dynamic and magnetic response of powder metallurgy FeMnSiCrNi shape memory alloys*, ***poster presentation*** at International Conference on Martensitic Transformations, **ICOMAT 2017**, Chicago. July 9 –14, 2017
E12. M Popa, B Pricop, E Mihalache, **L G Bujoreanu**, *Storage modulus and internal friction variations in a Fe-28 Mn-6Si-5Cr (mass. %) shape memory alloy analyzed by threepoint-bending DMA*, ***poster presentation*** at Modern Technologies in Industrial Engineering, **ModTech 2017**, June 14-17, 2017, Sibiu, Romania
E13. L Burlacu, N Cimpoeșu, **L G Bujoreanu** and N M Lohan, *Exploiting heat treatment effects on SMAs macro and microscopic properties in developing fire protection devices*, ***poster presentation*** at Modern Technologies in Industrial Engineering, **ModTech 2017**, June 14-17, 2017, Sibiu, Romania

E14. E. Mihalache, G. Gurău, R.I. Comăneci, V. Sampath, V. Paleu, B. Pricop, N.M. Lohan, C. Gurău, **L.G. Bujoreanu**, *Multifunctional modules with thermally adjustable axial movement obtained via high-speed high pressure torsion from FeMnSiCr shape memory alloy*, ***oral presentation*** on 26th May, at **EUROINVENT 2017**, International Conference on Innovative Research, ICIR 2017, May 25th to 26th, 2017, Iasi – Romania.
E15. M. Mocanu, E. Mihalache, R. I. Comăneci, B. Pricop, B. Ozkal, **L. G. Bujoreanu**, *Tensile stress-induced structural changes associated with martensite transformations in Fe-Mn-Si based shape memory alloys*, ***poster presentation*** at 10th International Conference on Materials Science and Engineering, **BRAMAT 2017**, 8 – 11 March 2017, Brașov, Romania
E16. Lucian BURLACU, Nicanor CIMPOEȘU, Nicoleta Monica LOHAN and **Leandru-Gheorghe BUJOREANU**, *NiTi Shape Memory Alloy Used for Multiple-Resetting Actuator for Fire protection*, ***poster presentation*** at 10th International Conference on Materials Science and Engineering, **BRAMAT 2017**, 8 – 11 March 2017, Brașov, Romania
E17. V. Bulbuc, B. Pricop, F. Maxim, M. Popa, **L. G. Bujoreanu**, *Influence of dynamic three point bending on the work hardening capacity of manganese steels*, ***poster presentation*** at 10th International Conference on Materials Science and Engineering, **BRAMAT 2017**, 8 – 11 March 2017, Brașov, Romania
E18. E. Mihalache, B. Pricop, Pricop, N.-M. Lohan, M.-G. Suru, B. Ozkal, **L.-G. Bujoreanu**, *Internal friction evaluation in mechanically alloyed powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys*, ***poster presentation*** at Modern Technologies in Industrial Engineering, **ModTech 2016**, June 15-18, 2016, Iași, Romania
E19. Elena Mihalache, Bogdan Pricop, Radu Ioachim Comăneci, Marius-Gabriel Suru, Nicoleta-Monica Lohan, Mihai Mocanu, Burak Ozkal and **Leandru-Gheorghe Bujoreanu**, *Structural Effects of Thermomechanical Processing on the Static and Dynamic Responses of Powder Metallurgy Fe-Mn-Si Based Shape Memory Alloys*, ***oral presentation*** at 5th International Conference "Smart and Multifunctional Materials, Structures and Systems", **CIMTEC 2016**, 5-9 June, Perugia, Italy
E20. Nicoleta-Monica LOHAN, Bogdan PRICOP, **Leandru-Gheorghe BUJOREANU**, *Using DSC for the detection of diffusion-controlled phenomena in Cu-based shape memory alloys*, ***oral presentation*** 25th "Symposium of Thermal Analysis and Calorimetry – Eugen Segal", **CATCAR 25**, April 15th 2016, București, Romania
E21. **Leandru-Gheorghe Bujoreanu**, Viorel Goanță, Nicanor Cimpoeșu, Carmela Gurău, Marius-Gabriel Suru, Elena Mihalache and Gheorghe Gurău, *Hardness-gradient reversion in FeMnSiCr shape memory alloy modules produced by high-speed high pressure torsion*, ***poster presentation*** at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium
E22. Bogdan Pricop, Elena Mihalache, Monica-Nicoleta Lohan, Bogdan Istrate, Mihai Mocanu, Burak Ozkal, **Leandru-Gheorghe Bujoreanu**, *Powder metallurgy and mechanical alloying effects on the formation of thermally induced martensite in an FeMnSiCrNi SMA*, ***poster presentation*** at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium
E23. N.M. Lohan, B. Pricop, M. G. Suru, E. Mihalache, **L.G. Bujoreanu**, *Thermal analysis of processing effects in CuZnAl SMAs,* ***poster presentation*** at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium
E24. Marius-Gabriel Suru, Nicoleta-Monica Lohan, Bogdan Pricop, Nicanor Cimpoeșu, **Leandru-Gheorghe Bujoreanu**, *Dynamic mechanical analysis of phase structure effects on cyclic thermomechanical behavior of a Cu-Al-Ni SMA*, ***poster presentation*** at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium
E25. Elena Mihalache, Bogdan Pricop, Marius-Gabriel Suru, Nicoleta-Monica Lohan, Radu Ioachim Comăneci, Bogdan Istrate, Burak Ozkal and **Leandru-Gheorghe Bujoreanu**, *Factors influencing martensite transitions in Fe-based shape memory alloys,* ***oral presentation*** in the Section Fe-based alloys, 15.09.2015, at European Symposium on Martensitic Transformations, **ESOMAT 2015**, 14-18 September, Antwerp, Belgium
E26. **Leandru-Gheorghe BUJOREANU**, Bogdan PRICOP, Nicoleta Monica LOHAN, Marius-Gabriel SURU, Bogdan ISTRATE, *Structural and chemical variations induced by thermomechanical cycling in shape memory actuators*, ***oral presentation*** at International Conference on frontiers in Materials Processing, Applications, Research and Technology, **FiMPART 2015**, June 12-15 2015, Hyderabad, India
E27. M.-G. Suru, N.-M. Lohan, E. Mihalache, B. Pricop, R.I. Comăneci, C. Baciu, **L.-G. Bujoreanu**, *AFM Evaluation of Pre-straining Degree Effects on the Dimensions of Stress Induced Martensite Plates in Fe-Mn-Si Based SMAs*, ***poster presentation*** at High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 May 2015, Wildbad Kreuth, Bayern, Germany
E28. N. Cimpoeșu, E. Mihalache, B. Pricop, N.-M. Lohan, M.G. Suru, R.I. Comăneci, B. Özkal, **L.G. Bujoreanu**, *Structural-Morphological Fluctuations Induced by Thermomechanical Processing in a FeMnSi-based Shape Memory Alloy*, ***poster presentation*** at High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 May 2015, Wildbad Kreuth, Bayern, Germany
E29. E. Mihalache, B. Pricop, N.-M. Lohan, M.-G. Suru, B. Ozkal, **L.-G. Bujoreanu**, *Dynamic-Mechanical Analysis of Mechanically Alloyed Fe-Mn-Si-Cr-Ni Shape Memory Alloy,* ***oral presentation*** at High Temperature Shape Memory Alloys, **HTSMAs 2015**, 5 - 8 May 2015, Wildbad Kreuth, Bayern, Germany
E30. **L.-G. BUJOREANU**, N. M. LOHAN, M.-G. SURU, A. PLESCA *Thermal analysis of eutectic alloy at HBC fuses*, ***poster presentation*** at **BRAMAT 2015**, 5 – 7 March 2015, Brasov, Romania
E31. E. MIHALACHE, F. BORZA, N. LUPU, N. M. LOHAN, B. PRICOP, M.-G. SURU, **L.-G. BUJOREANU**, *Thermomechanical processing effects on the martensitic transformation in Fe-based SMAs*, ***poster presentation*** at **BRAMAT 2015**, 5 – 7 March 2015, Brasov, Romania
E32. N. M. LOHAN, E. MIHALACHE, B. PRICOP, M.G. SURU, **L.G. BUJOREANU**, *A study of R-phase transition*

and temperature memory effect in a commercial Nitinol wire, ***poster presentation*** at **BRAMAT 2015**, 5 – 7 March 2015, Brasov, Romania

E33. **L.G. BUJOREANU**, *Development of shape memory and superelastic applications of some experimental alloys*, ***oral presentation*** at **BRAMAT 2015**, 5 – 7 March 2015, Brasov, Romania

E34. **L.G. Bujoreanu**, G. Gurău, R.I. Comăneci, B. Özkal, E. Mihalache, *Particular aspects of constrained recovery shape memory effect in a severely plastic deformed Fe-Mn-Si-Cr alloy*, ***oral presentation*** at 17th International Metallurgy and Materials Congress **IMMC 2014**, 11-13 September 2014, Istanbul, Turkey

E35. **L.G. Bujoreanu**, R.I. Comăneci, G. Gurău, N.M.Lohan, M. G. Suru, B. Pricop, V. Goanță, V. Mușat, B. Istrate, E. Mihalache, *Thermomechanical training effects of multifunctional modules, processed by high-speed high pressure torsion, when subjected to compression loading-unloading cycles*, ***invited speaker*** at Modern Technologies in Industrial Engineering **ModTech 2014**, 13-15 July 2014, Gliwice, Poland

E36. M.-G. Suru, C. Moroşanu, R.-I. Comăneci, E. Mihalache, **L.-G. Bujoreanu**, *Comparative evolution of surface relieves of stress-induced martensite plates in shape memory alloys with different crystalline structures*, ***poster presentation*** at International Conference on Martensitic Transformations, **ICOMAT 2014**, July 6-11, 2014, Bilbao, Spain

E37. B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comăneci, N. Cimpoeșu, V.Mușat, G. Gurău, B. Istrate, E. Mihalache, **L.G. Bujoreanu**, *A study of martensite formation in powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys*, ***oral presentation*** at International Conference on Martensitic Transformations, **ICOMAT 2014**, July 6-11, 2014, Bilbao, Spain

E38. **Leandru-Gheorghe Bujoreanu**, Iuliana Petruța Spiridon, Bogdan Pricop,, Burak Ozkal, Umut Soyler, Jan Van Humbeeck, Nicoleta Monica Lohan, Adrian-Liviu Paraschiva, Bogdan Istrate, Marius-Gabriel Suru, *Influence of solution treatment parameters on martensite plate morphology of a hot rolled powder metallurgy Fe-14Mn-6Si-9Cr-5Ni (mass. %) shape memory alloys*, ***poster presentation*** at 19th International Vacuum Congress, **IVC 2013**, 9-13 septembrie 2013 Paris

E39. L.G.Bujoreanu, *Particular aspects concerning the manufacturing and testing of experimental applications of shape memory alloys and the development of new research directions*, ***oral presentation***, Modern Technologies in Industrial Engineering, **ModTech 2013**, Sinaia, 27-29 Iunie, Romania

E40. Marius-Gabriel Suru, Adrian-Liviu Paraschiv, Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, Burak Ozkal, *Loading mode and alloy system effects on surface relief characteristics of martensite plates in Cu-based SMAs*, ***poster presentation*** at Shape Memory and Superelastic Technologies, **SMST 2013**, 20-24.05.2013, Praga, Republica Cehă

E41. Adrian-Liviu Paraschiv, Marius-Gabriel Suru, Nicoleta Monica Lohan, Bogdan Pricop, **Leandru-Gheorghe Bujoreanu**, Firuța Borza, Nicoleta Lupu, *Factors influencing the structure and proprieties of polycrystalline magnetic Fe-Ni-Co-Al-Ta-B shape memory alloys*, ***poster presentation*** at Shape Memory and Superelastic Technologies, **SMST 2013**, 20-24.05.2013, Praga, Republica Cehă

E42. **Leandru-Gheorghe Bujorea**nu, Iulia Petruța Spiridon, Marius-Gabriel Suru, Gigi Vitel, Adrian-Liviu Paraschiv, Bogdan Pricop, Nicoleta Monica Lohan, Bogdan Istrate, Gheorghe Gurău, *Atomic migration variation as an effect of thermomechanical cycling in shape memory actuators*, ***poster presentation*** at Shape Memory and Superelastic Technologies, **SMST 2013**, 20-24.05.2013, Praga, Republica Cehă

E43. M.-G. Suru, I. Dan, N. M. Lohan, A. L. Paraschiv, B. Pricop, I. P. Spiridon, C. Baciu, **L.-G. Bujoreanu**, *Hot working effects on surface relief characteristics in a Fe-Mn-Si-Cr shape memory alloy*, ***poster presentation***, 8th International Conference in Materials Science and Engineering, **BRAMAT 2013**, 28.02-2.03.2013 Brașov, Romania

E44. A.-L. Paraschiv, F. Borza, N. Lupu, M.-G. Suru, N. M. Lohan, B. Pricop, I.-P. Spiridon, **L.-G. Bujoreanu**, *On some structural characteristics of Fe-base shape memory alloys*, ***poster presentation***, 8th International Conference in Materials Science and Engineering, **BRAMAT 2013**, 28.02-2.03.2013 Brașov, Romania

E45. I. P. Spiridon, B. Pricop, M. G. Suru, A. L. Paraschiv, N. M. Lohan, **L-G. Bujoreanu**, *The influence of heat treatment atmosphere and maintaining period on the homogeneity degree of a Fe-Mn-Si-Cr-Ni shape memory alloy obtained through powder metallurgy*, ***poster presentation***, 8th International Conference in Materials Science and Engineering, **BRAMAT 2013**, 28.02-2.03.2013 Brașov, Romania

E46. Bogdan Pricop, Umut Söyler, Burak Özkal, Nicoleta Monica Lohan, Adrian-Liviu Paraschiv, Marius-Gabriel Suru, **Leandru-Gheorghe Bujoreanu**, *Influence of mechanical alloying on the behavior of Fe-Mn-Si-Cr-Ni shape memory alloys made by powder metallurgy*, ***poster presentation*** at European Symposium on Martensitic Transformations - **ESOMAT 2012**, September 9-16, 2012, Saint-Petersburg, Russia

E47. **Leandru-Gheorghe BUJOREANU**, Nicoleta Monica LOHAN, Bogdan PRICOP, Nicanor CIMPOEȘU, *Using differential scanning calorimetry for the study of solid state transitions occurring in shape memory alloys*, ***oral presentation*** in the seminary organized by Netzsch, 24 mai 2012 „Materials Characterisation by means of thermal analysis techniques"

E48. B. Pricop, U. Söyler, N.M.Lohan, B.Özkal, **L.G.Bujoreanu**, D. Chicet, C. Munteanu, *Thermal behavior of mechanically alloyed powders used for producing an Fe-Mn-Si-Cr-Ni shape memory alloy*, sustained under ***poster*** form within the symposium A54 - Shape Memory Alloys (SMA) – Materials and Devices, **EUROMAT 2011**, Montpellier 12-15 September 2011

E49. Vasile Dia, Umut Söyler, Bogdan Pricop, Burak Özkal and **Leandru-Gheorghe Bujoreanu**, *Characterization of mechanically alloyed Fe-Mn-Si-Cr-Ni shape memory alloys. Hot rolling effects*, ***oral*** presentation within the section METALLIC MATERIALS 5 of 15th International Metallurgy and Materials Congress, **IMMC 2010**, Istanbul 11 - 13 November 2010

E50. B. Pricop, U. Söyler, R. I. Comăneci, B. Özkal, **L. G. Bujoreanu**, *Mechanical cycling effects at Fe-Mn-Si-Cr-Ni SMAs obtained by powder metallurgy,* sustained under ***poster*** form within Symposium S Shape memory materials for smart systems III, of European Materials Research **E-MRS Spring Meeting 2010**, Strasbourg, 7-11 June 2010

E51. S. Stanciu, L**. G. Bujoreanu**, R.I.Comăneci, N. Cimpoeşu, I. Ioniţă, V.V.Moldoveanu, *Particularities of phase transitions in thermomechanically processed Cu-Al-Mn shape memory alloys*, sustained under ***poster*** form at **ESOMAT 2009** The 8th European Symposium on Martensitic Transformations, Prague7-11 September 2009

E52. L. G. Bujoreanu, S. Stanciu, B. Özkal, R. I. Comăneci, M. Meyer, *Comparative study of the structures of Fe-Mn-Si-Cr-Ni shape memory alloys obtained by classical and by powder metallurgy, respectively,* ***Oral*** presentation at **ESOMAT 2009** The 8th European Symposium on Martensitic Transformations, Prague 7-11 September 2009

E53. **Leandru-Gheorghe BUJOREANU**, Sergiu STANCIU, Radu Ioachim COMĂNECI, Ciprian LOHAN, Nicoleta-Monica LOHAN *Particular aspects of the thermomechanical response of Fe-Mn-Si based shape memory alloys,* ***plenary*** presentation within the Seventh International Congress in Materials Science and Engineering, **ISSIM 2009**, Iaşi, 29-31 May, 2009

E54. Sergiu Stanciu, **Leandru G. Bujoreanu**, Nicanor Cimpoeşu and Iulian Ioniţă, *Study of shape memory effect developed by helical springs made from Cu-Al-Ni alloy by lost-wax casting,* sustained under ***poster*** form at **SMST 2008**, Shape Memory and Superelastic Technologies SMST 2008, 21-25 September, Stresa, Italy

E55. Leandru G. Bujoreanu, Sergiu Stanciu, Radu I. Comaneci, Markus Meyer, Vasile Dia and Ciprian Lohan, *Factors influencing the reversion of stress-induced martensite to austenite in a Fe-Mn-Si-Cr-Ni shape memory alloy,* sustained under ***poster*** form at Shape Memory and Superelastic Technologies **SMST 2008,** 21-25 September, Stresa, Italy

E56. Sergiu Stanciu, **Leandru G. Bujoreanu**, Iulian Ioniţă, Andrei V. Sandu, Alexandru Enache, *A structural-morphological study of a $Cu_{63}Al_{26}Mn_{11}$ shape memory alloy*, ***oral*** presentation at Advanced Topics on Optoelectronics Microtehnologies and Nano Technologies, ATOM-N 2008, Constanţa 28-31 August 2008

E57. **Leandru G. Bujoreanu**, Sergiu Stanciu, Paul Bârsănescu, Nicoleta M. Lohan, *Study of the transitory formation of α_1 bainite, as a precursor of α-phase in tempered SMAs*, ***oral*** presentation at Advanced Topics on Optoelectronics Microtehnologies and Nano Technologies, ATOM-N 2008, Constanţa 28-31 August 2008

E58. **L.G.Bujoreanu**, S. Stanciu, *Results obtained at S.I.M. faculty from U.T.Iaşi in the domain of study, research and development of shape memory alloys***, *oral*** presentation at the Tenth National Conference of Scientific Research in High school (CNCSIS 10), Brasov, 15-17 May 2008

E59. L. G. Bujoreanu, V. Dia, S. Stanciu, M. Susan, C. Baciu, *Study of the tensile constrained recovery behavior of a Fe-Mn-Si shape memory alloy***, *oral*** la presentation within the symposium E: *SHAPE MEMORY MATERIALS FOR SMART SYSTEMS*, from E-MRS Fall Meeting 2007, September 17-21, Warsaw University of Technology, Poland

E60. M. Susan, **L. G. Bujoreanu**, C. Baciu, *Influence of the relative drawing rate at ultrasonic processing of metallic tubes and wires,* sustained on 12-13 September 2007, under the form of ***poster*** no. 288, within Symposium D33, *Process Modeling of Metallic Alloys*, de la EUROMAT 2007 - European Congress on Advanced Materials and Processes

E61. L. G. Bujoreanu, M. Temneanu, R. Ardeleanu, M. Susan, *Factors influencing the bending reproducible behavior of shape memory electrical actuators*, sustained on 10-11 September 2007, under the form of ***poster*** no. 168, within Symposium B23, *Shape Memory and Amorphous Alloys*, de la EUROMAT 2007 - European Congress on Advanced Materials and Processes

E62. Leandru-Gheorghe Bujoreanu, *Study of the transitory formation of α_1 bainite, as a precursor of α-phase in tempered Cu-Zn-Al SMAs,* ***oral*** presentation in plenary session of the Sixth International Congress in Materials Science and Engineering, Iaşi, 24-26 May, 2007

E63. **Leandru-Gheorghe Bujoreanu,** *On the influence of austenitization on the morphology of α-phase in tempered Cu-Zn-Al shape memory alloys,* ***oral presentation*** S-01, on 13th September 2006 between 10:30-10:45, within the section 5, *Microstructural characterization*, of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany

E64. V. Dia, **L. G. Bujoreanu**, S. Stanciu, and C. Munteanu, *Study of shape memory effect in lamellar helical springs made from Cu-Zn-Al SMA,* sustained under the form of ***poster*** TP 62, within section 8, *Alloy development, processing and applications* of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany

E65. S. Stanciu, and **L. G. Bujoreanu**, *Formation of $\beta_1^{'}$ stress-induced martensite in the presence of γ phase in a Cu-Al-Ni-Mn-Fe shape memory alloy,* sustained under the form of ***poster*** WP 17 within section 5, *Microstructural characterization* of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany

E66. A. Airinei, C. Hulubei, R. Ardeleanu, N. Fifere, and **L.G. Bujoreanu**, *Shape change effects in azoaromatic polymer materials,* sustained under the form of ***poster*** WP 33, within section 6, *Cu-based and less common systems* of the Seventh European Symposium on martensitic Transformation and Shape Memory Alloys, ESOMAT 2006, 10-15 September 2006, Bochum, Germany

E67. ***Leandru-Gheorghe Bujoreanu****, Viorica David, Vasile Dia, Corneliu Munteanu,* Evolution of the hysteretic behaviour of SMA wires during mechanical and thermal cycling*,* **oral** *presentation at the Second International Scientific Conference „Advanced Concepts in Mechanical Engineering" ACME – 2006, 16-17 June 2006, Iaşi*

E68. ***Leandru-Gheorghe Bujoreanu****, Romeu Chelariu, Costel Roman,* The effects of Nb additions on the thermomechanical behavior of Ni-Ti shape memory alloy*,* **oral** *presentation at the Second International Scientific Conference „Advanced Concepts in Mechanical Engineering" ACME – 2006, 16-17 June 2006, Iaşi*

E69. ***L.G.Bujoreanu,*** Ten years of research of Shape Memory Alloys at the Faculty of Materials Science and Engineering*, plenary presentation within Fifth International Congress in Materials Science and Engineering, Iaşi, 26-28 May, 2005*
E70. ***Leandru-Gheorghe Bujoreanu****, Corneliu Munteanu, Iulian Ioniţă and Viorel Kogăniceanu*, On the shape memory behaviour of Cu-based alloys and polyethylene terephthalate (PET)*,* **oral** *presentation at the Seventh International Conference on the Physics of Advanced Materials, ICPAM-7, 10-12 June 2004, Iaşi*
E71. V. Dia, ***L.G. Bujoreanu*** *and V. Plugaru*, Thermal cycling behaviour of a Cu-Zn-Al-Fe SMA bending actuator, ***oral*** *presentation at the Thirteenth European Conference of Micromechanics, MME'02, 6-8 October 2002, Sinaia*

III.1 Research contracts won by national competition (P)

P1. ***PROJECT MANAGER*** Exploratory research project, program IDEI
A study of the factors that favor thermoelasticity in Fe-based superelastic alloys with shape memory effect (in Romanian)*,* contract no 76/ 12.07.2017, Code PN-III-P4-ID-PCE-2016-0468
Unique phase on 2019: Determing thermoelastic characteristics (in Romanian), financed with **463.280 RON**
Unique phase on 2018: Analysing superelastic behaviour (in Romanian), financed with **204.145 RON**
Unique phase on 2017: Obtaing olygocrystalline specimens (in Romanian), financed with **182.575 RON**
P2. ***PROJECT MANAGER*** Exploratory research project, program IDEI
Novel method for improving shape memory properties by controlled atomic migration (in Romanian) contract no. 13/ 2013, Code PN-II-ID-PCE-2012-4-0033
Unique phase on 2016: Emphasizing the reversible formation of stress induced martensite in specimens 40_MA (in Romanian) financed with **267,933 RON**
Unique phase on 2015: Emphasizing the reversible formation of stress induced martensite in specimens 30_MA (in Romanian) financed with **292,849 RON**
Unique phase on 2014: Emphasizing the reversible formation of stress induced martensite in specimens 10_MA and 20_MA (in Romanian) financed with **375,318 RON**
Unique phase on 2013: Emphasizing the reversible formation of stress induced martensite in specimens 0_MA (in Romanian) financed with **185,150 RON**
P3. ***PROJECT MANAGER*** Applicative collaborative research project, program PARTNERSHIPS
Modular system of multifunctional elements with self-adapting displacement (in Romanian) contract no. 144/ 2012, Code PN-II-PT-PCCA-2011-3.1-0174
Unique phase on 2016: Evaluation of the economic impact of the application of research results (in Romanian) financed with **247,670 RON**
Unique phase on 2015: Demonstrating the efficiency of the self-adaptive displacement for the modular system under functioning conditions (in Romanian) financed with **217,978 RON**
Unique phase on 2014: Executing multifunctional active elements for the modular system (in Romanian) financed with **245,052 RON**
Unique phase on 2013: Conceiving, designing and producing multifunctional elements. Evaluation of grain refining effect on constrained recovery shape memory effect (in Romanian) financed with **485,438 RON**
Unique phase on 2012: Obtainment the alloys with ultrafine/ nanometric grain size and shape memory effect. Characterization of preliminary specimens (in Romanian) financed with **579,862 RON**
P4. ***PROJECT MANAGER*** Exploratory research project, program IDEI
Constrained recovery applications of Fe-(Mn, Ni)-Si-based shape memory alloys, with controlled properties by nanostructural changes at the level of martensite and austenitic matrix, (in Romanian), contract no. 279/ 01.10.2007, code CNCSIS 301
Unique phase on 2010: Obtaining and testing the coupling/ fastening elements, (in Romanian), financed with **180.000 RON**
Unique phase on 2009: Determination of section reduction effects, of secondary heat treatment variant and the study of their effects, (in Romanian), financed with **172.200 RON**
Unique phase on 2008: Determination of chemical composition effects, of primary heat treatment variant and the study of its effects, (in Romanian), financed with **299.588 RON**
Unique phase on 2007: Elaboration of new Fe-Ni and Fe-Mn base alloys, (in Romanian), financed with **75.000 RON**
P5. Member (Sergiu Stanciu – project manager), Exploratory research project, program IDEI,
New beta type shape memory alloys with modified nanostructure by complex alloying and thermomechanical training, used for robotic applications, (in Romanian), contract no. 279/ 01.10.2007, code CNCSIS 616
Unique phase on 2010: *Testing the system under function conditions*, (in Romanian), financed with **195.360 RON**
Unique phase on 2009: *Verifying the thermomechanical fatigue behavior of active elements, conceiving, designing and manufacturing of a robotic application*, (in Romanian), financed with **183.800 RON**
Unique phase on 2008: *Determining primary heat treatment effects, of plastic deformation and of thermomechanical cycling*, (in Romanian), financed with **300.000 RON**
Unique phase on 2007: *Obtaining some cast and primary heat treated specimens of β type SMA*, (in Romanian), financed with **78.000 RON**

P6. ***PROJECT MANAGER*** Grant CNCSIS type A, *Development of a new computer controlled microactuator from SMA/ elastomer shape memory composites*, (in Romanian)
Additional Contract no. GR 80 / 23.05.2007, Theme no. 8 from Annex Ia, code CNCSIS: 275/2007 Unique phase on 2007: Testing the microactuator under laboratory conditions, (in Romanian), financed with **56.000 RON**
Contract no.: 63GR/ 19.05.2006, Theme no. 3 from Annex Ia, code CNCSIS: 275/2006, Unique phase on 2006: Obtainment of *SMA/ elastomer shape memory composites*, (in Romanian), financed with **82.000 RON**

P7. Member, (Corneliu Munteanu – project leader on behalf of TUIasi)
Innovative concept for plasma jet obtainment of hard layers with controlled properties, wear and corrosion resistance, (in Romanian), Project CEEX-M1, No.67/ 2006, financed with 1.330.000 RON **(175.000 RON TUIasi share)**
P8. Member, (Mihai Susan – project manager),
Performing technologic system for ultrasonic vibration drawing of stainless steel wires, (in Romanian), Project CEEX-M1, No.293/ 13.09.2006, financed with **600.000 RON**
P9. Member (Romeu Chelariu – project leader on behalf of TUIasi) *2D and3D structures from biocompatible shape memory alloys,* (in Romanian), Project CEEX 25/ 2005, financed with **12.000 RON**
P10. ***PROJECT MANAGER*** Grant CNCSIS type A, *Study of thermally and mechanically induced transformations down to the level of martensitic nanostructure, in multifunctional shape memory materials. Application of sensor and actuator type*, (in Romanian)
Additional contract 24371/ 24.06.2005, Theme no. 13 from Annex Ia', code CNCSIS 476/2004 Unique phase on 2005: Testing under laboratory conditions of the obtained multifunctional hydraulic and electric elements, (in Romanian), financed with **40.000 RON**
Contract 33371/ 29.06.2004, code CNCSIS 476/2004 Unique phase on 2004: Production and characterization of shape memory elements, shape setting and testing of thermal and mechanical memory, (in Romanian), Theme no. 11 from Annex Ia, financed with **20.000 RON;**
Supplementary phase on 2004**,** Study of preferred α-phase precipitation within thermally induced multivariant martensitic structure*,* (in Romanian), Theme 7 from Annex Ia additional, financed with **6.000 RON**

P11. Member (I. Carcea - project leader on behalf of TUIasi) *Influence of modifiers upon the structure, the deformability and the shape memory material characteristics in alloys from (Cu,Ni)-(Co,Mn)-(Al,Ga,Sb) system,* (in Romanian)
Program „New Materials, Micro and Nanotechnologies" – MATNANTECH, project no. 3020284, c.f. 159(302) 2003, beneficiary the Faculty of Industrial Chemistry- Bucureşti Polytechnic University, 2003-2005, Subcontract S.C.RANCON S.R.L. Iaşi, financed with **68.400.000 ROL**
P12. Member (C. Baciu - project leader on behalf of TUIasi), *Super-alloying technologies of the superficial layer of metals by diffusion processes during electrolytic plasma heating,* (in Romanian)
Project CERES no37/12.11.2002,
financed on 2003 with **366.192.000 ROL**
financed on 2002 with **18.180.000 ROL**
P13. (I. Carcea - project leader on behalf of TUIasi), *Obtaining of (magnetic) shape memory alloys from the system (Cu, Ni)-(Co, Mn)-(Al, Ga),* (in Romanian), Program „ New Materials, Micro and Nanotechnologies" – MATNANTECH 2001, collaboration with the National Institute of Research-Development for Technical Physics Iaşi
Phase *II/2002: Correlation between physical-mechanical characteristics, thermomechanical treatment parameters and shape memory properties at some compositions of the system (Cu, Ni)-(Co, Mn)-(Al, Ga),* (in Romanian), financed with **80.000.000 ROL**
Phase *I/2001: Determination of the state of art in the development of shape memory alloys of the system (Cu, Ni)-(Co, Mn)-(Al, Ga),* (in Romanian), financed with **80.000.000 ROL**

IV. PhD THESIS
T1 **Leandru-Gheorghe Bujoreanu**, *Technology and Equipment for Obtaining Some Shape Memory Alloys*, The "Gh.Asachi" Technical University from Iaşi, 188 pages and 7 annex, sustained on May the 5th 1997

Data: 22.01.2020 **Semnătura,**