



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **VIOREL – AUREL, ȘERBAN,**
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Nationality Romanian
Date of birth 18th October 1954
Gender Male

Work experience

Dates	2012 – 2016; 2016-present
Occupation or position held	Rector
Main activities and responsibilities	The overall coordination and leadership of the University Representation of the University Authorising officer/chief accountant of the University Strategic development coordination as well as global and sectoral policies Leadership of the Board of Deans
Name and address of employer	Politehnica University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara
Type of business or sector	Higher Education
Dates	2007 - 2012
Occupation or position held	Director
Main activities and responsibilities	Coordination of the research programs and activities in the field of Advanced Material Science and Engineering
Name and address of employer	Politehnica University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara/ Center of Research for Processing and Characterization of Advanced Materials.
Dates	2004 - 2012
Occupation or position held	Vice rector
Main activities and responsibilities	Orientation/Monitoring of the studies program, curriculums and analytical programs Operative planning and coordination of the learning process. Coordination and organization of vocational student contests Coordination of the Centre of Information/Professional orientation and Employment Facilitation Coordination of cultural, artistic and sports activities and events
Name and address of employer	"Politehnica" University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara
Type of business or sector	Higher Education
Dates	1996 - 2004
Occupation or position held	Vice Dean of the Mechanical Faculty

Main activities and responsibilities	Coordination of the Faculty admission Operative planning and coordination of the learning process. Learning process methodology and politics regarding didactic materials and technical support Coordination and organization of vocational student contests Management of vocational and social student issues
Name and address of employer	"Politehnica" University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara
Type of business or sector	Higher Education
Dates	1992 - 1996
Occupation or position held	Member of the bureau of the Material Science and Heat Treatment Department
Main activities and responsibilities	Responsible for the learning process
Name and address of employer	Politehnica University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara
Type of business or sector	Higher Education
Dates	1992 - present
Occupation or position held	Lecturer (1992 - 1996), Associate Professor (1996 - 2000), Full Professor (2000 - present)
Main activities and responsibilities	Didactic activities as a discipline holder for: Material Science, Materials and Technologies, Amorphous Metals and Nanocrystals, Expertise and Diagnostics of Damage, Advanced Material Engineering, Metals and Metallic Alloys.
Name and address of employer	"Politehnica" University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara
Type of business or sector	Higher Education
Dates	1982 - 1992
Occupation or position held	Research Engineer/ Associated Educator (Assistant, Lecturer)
Main activities and responsibilities	Research activities in the field of material science and engineering/ educating activities at the Material Science discipline.
Name and address of employer	ICEM Timișoara, Bv. Mihai Viteazul nr 1, Timișoara/ "Politehnica" University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara
Type of business or sector	Research/ Education
Dates	1978 - 1982
Occupation or position held	Engineer, Team Leader, Workshop Leader, Technologist
Main activities and responsibilities	Technological-Constructive design activities, team and workshop production organization in the field of thermal treatments and foundry
Name and address of employer	UMT and Electrotimiș Timișoara
Type of business or sector	Government industry

Education and training

Dates	1973-1978
Title of qualification awarded	Mechanical Engineer
Principal subjects/occupational skills covered	Technological-Constructive Design of Technical Systems, Production Management and Control, Organization of Labour
Name and type of organisation providing education and training	Politehnica University of Timișoara, Mechanical Faculty, Department of Machine Building Technology

Dates	1985-1992
Title of qualification awarded	PhD in Engineering Science
Principal subjects/occupational skills covered	Studies in Materials Science
Name and type of organisation providing education and training	Politehnica University of Timișoara, Mechanical Engineering Faculty
Dates	1997 (April -May)
Title of qualification awarded	specialization in graduate and postgraduate programs
Principal subjects/occupational skills covered	Advanced Technologies For New Materials
Name and type of organisation providing education and training	Universitatea "Federico II" from Naples by program TEMPUS Academic Cooperation Project S_JEP 07176-94 : "Modern Technologies for Advanced Materials",
Dates	1998 (June)
Principal subjects/occupational skills covered	Postgraduate specialization in the Training and Consulting Centre in Management
Name and type of organisation providing education and training	Politehnica University of Timișoara and The University of Tennessee, Knoxville, USA
Dates	2001 (May)
Principal subjects/occupational skills covered	Documentation and Specialisation in the field of Advanced Material Research
Name and type of organisation providing education and training	University of Applied Sciences' Gelsenkirchen, Germany
Dates	2010 (February)
Title of qualification awarded	Project manager
Principal subjects/occupational skills covered	Planning and directing activities of the project, risk management, project team management, project quality management
Name and type of organisation providing education and training	The Ministry of Education and Research through the DKM Training
Dates	2014
Title of qualification awarded	Manager
Principal subjects/occupational skills covered	Marketing activities developed. Decision-making. Development strategy of organizational structure. headed. Organizing of specific activities coordinated. Planning and directing activities of the project, managing the cost and utilization of resources
Name and type of organisation providing education and training	Ministry of Labour, Family and Social Protection, Ministry of Education, Research and Innovation, through the Association for the Promotion of Women in Romania
Mother tongue(s)	Romanian
Other language(s)	

Self-assessment <i>European level (*)</i>	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
	FR	B2	FR	B2	FR	B2	FR	B2	FR	B2
	EN	B2	EN	B2	EN	B2	EN	B2	EN	B2
(*) <i>Common European Framework of Reference for Languages</i>										
Social skills and competences	Creativity, research and working in group abilities (national research program coordinator)									
Organisational skills and competences	President of the "Politehnica Timișoara" Fundation (2009-2013) President of the CSU "Politehnica" Timișoara Handball Team (2000 – 2013) Executive Secretary and Vice President of the ASU "Politehnica" Board (1996- 2013) Member of the Council of Administration of Casa Universitară din Timișoara(1998-2004)									
Technical skills and scientific activity	Areas of expertise : - In the field of elaboration and characterization of new materials: amorphous alloys, thermo compensatory materials, composite materials, magnetic materials, nanostructured materials - In the field of the special technologies for thermal treatments, development technologies of nonferrous alloys, plastic deformation technologies, unconventional technologies, damage analyzing. PhD Coordinator/Advisor in the field of Material Science (17 PHD title awarded) 18 books written for specialists and students; 227 scientific papers published in journals and proceedings (of wich 64 in ISI journals and proceedings) Director of 18 research grants/contracts and member of the research teams in 60 grants/contracts (of which 10 of European funds); Co-author of 6 patents									
Memberships in associations, specialized commissions	President of Commission for Materials Engineering and Nanotechnology of the National Council for the Accreditation of Titles, Diplomas and University Certificates (CNATDCU), Expert for CNCISIS(National Council for Scientifically Research in Higher Education) Permanent expert for the Commission of Engineering Sciences' of ARACIS (Romanian Agency of Quality Insurance for Higher Education) Member of the National Registry of Experts of Romania Member of the Sub commission "Material Science" of the Romanian Academy, Timișoara branch Member of the Association of Multidiscipline Research of West Romania (ACMVR) Member of the General Engineer Association of Romania (AGIR) Member of the Welding Association of Romania (ASR)									
Relevant books and papers	Books Știința și Ingineria Materialelor ed.III (Science and Engineering of Materials), 2014 Authors V.A.Șerban , A.Răduță, Editor Politehnica, (17) 978-973-625-322-5 Amorphous and Nanocrystalline Alloys. Advanced Materials, 2009 Authors: Viorel –Aurel Serban , Cosmin Codrean, Ion-Dragos Utu, VDM Verlag Dr.Muller Aktiengesellschaft& Co.KG Saarbrucken, ISBN 978-3-639-19845-4 Papers Dual phase bulk metallic glasses fabricated by hot pressing using two different types of glassy alloy powder Authors : Toșa, D.I., Șerban, V.A. , Codrean, C., Buzdugan, D., Stoica, M., in , Journal of Optoelectronics and Advanced Materials, Volume 17, Issue 7-8, 2015 , Pages 1026-1031, ISSN: 1454-4164 . Substrate influence on the properties of thermally sprayed WC–CrC–Ni cermet coatings Authors : Serban Viorel-Aurel, Utu Ion-Dragos, Marginean Gabriela,, Journal of optoelectronics and advanced materials, Vol. 17, No. 9-10, p. 1425 – 1430, 2015 .									

Correlation between yield stress and hardness of nickel-silicon-boron-based alloys by nanoindentation, Authors: **Șerban, V.A.**, Codrean, C., Vodă, M., Chicot, D., Decoopman, X in Materials Science and Engineering A, Volume 605, **2014**, Pages 294-300, ISSN: 0921-5093

Corrosion and sliding wear behavior of Cr₃Cr₂-NiCr coatings alloyed by electron beam treatment, Authors: Serban Viorel-Aurel, Utu Ion-Dragos, Marginean Gabriela, in Optoelectronics and Advanced Materials-Rapid-Communications, Vol.: 8, Issue: 1-2, Pages: 153-157, **2014**

Influence of the Ultrasonic Microvibrations under the Processing of the HDPE Thermoplastic Material, Authors : Nicusor Alin Sarbu, V.A.Serban, S.Savu, Materiale Plastice, Volum 51, No 4, **2014**, Pag. 401-404,

Deposition of titanium nitride layers by electric arc – Reactive Plasma Spraying Method, **2013**
Authors : **Viorel-Aurel Serban**, Radu Alexandru Roșu, Alexandra Ioana Bucur, Doru Romulus Pascu, Applied Surface Science, Vol 265 ,**2013** ,p.245-249

Wear properties of CrC-37WC-18M coatings deposited by HVOF and HVAF spraying processes, **2012**
Authors: Hulka I., **Șerban Viorel-Aurel**, Secoșan I., Vuoristo P., Niemi K., Surface and Coatings Technology, Vol 210, p 15-20

Mechanical properties of an Al(91)-Mn(6)-Nd(3) nanostructured alloy **2011**
Authors: D. Chicot, M. Voda, X. Decoopman, **V.A. Șerban**, E.S. Puchi-Cabrera, M.H. Staia, C. Codrean, Materials Science and Engineering, Volume 528, Issue 22-23, Pages 7041-7051

Formation of ferromagnetic bulk amorphous Fe₇₀Cr₆Ga₄P₁₂Si₅C₃ alloys ,**2010**,
Authors **V.A.Șerban**, C.Codrean, D.Buzdugan, D.Utu J.of Optoelectronics and Advanced Materials – Rapid Communications Vol 4, No7 July, p1060-1063

Bulk amorphous soft magnetic iron based alloy with mechanical strength and corrosion resistance,**2009**
Authors:**Viorel –Aurel Șerban**, Cosmin Codrean, Ion-Dragos Utu, Key Engineering Materials Vol 399p.37-42, 6

Amorphous alloys for brazing copper based alloys,**2008**
Authors: **Viorel –Aurel Șerban**, Cosmin Codrean, Ion-Dragos Utu Carmen Opris, The 13 th International Conference on Rapidly Quenched & Metastable Materials 24-29 August, 2008, Dresden ,Germany, published in Journal of Physics: Conference Series

Structural Morphology of Transformation by Vacuum Oven Brazed Joints with Amorphous Alloys, **2007**
Authors:Cosmin Codrean, Ion Mitelea, **Viorel –Aurel Șerban**, Advanced Materials Research, Vol.23, p. 221-224, ISSN 1022-6680,Switzerland

Improvement of the Abrasion Wear Resistance of Ti Alloyed with Boron Nitride by Electron –Beam Irradiation, **2007** Authors: D.Utu, G.Marginean, C.Pogan, W.Brandl, **V.A.Șerban**, Surface & Coatings Technology – Volume 201 Issue 14, p. 6387-6391

Preliminary studies concerning Hadfield steel behavior during Laser beam welding in pulsating regime, **2006**,
Authors: **V.A.Șerban**, I.David, International Conference SPIE* (SPIE,Bellingham,WA,2006) ISSN 0277-786X,Vol.6785-6785 OL

Study of Under load Effects on the Delay Induced by an Overload Delay in Fatigue Crack Propagation, **2006**
Authors : A. Bacila, X. Decoopman, G. Mesmacque, M. Voda, **V.A. Șerban**, Proceedings of International Conference on Fatigue Damage of Structural Materials VI, September 17-22 , Hyannis, MA, USA, International Journal of Fatigue, Volume 29,Issues 9-11 2007, p. 1781-1787

Morphology and phase modification of HVOF-sprayed MCrAlY-coatings remelted by electron beam irradiation, **2005** Authors : Uțu, D., Brandl, W., Mărginean, G., Cartîș, I., **Șerban, V.A.**, Vacuum,77/4 11 March,p. 451-455