



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **VIOREL – AUREL, ȘERBAN,**
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Nationality Romanian
Date of birth
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 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 -2008; 2008 - 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 of the Centre of Information/Professional orientation and Employment Facilitation
Name and address of employer	“Politehnica” University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara
Type of business or sector	Higher Education
Dates	1996 – 2000; 2000 - 2004
Occupation or position held	Vice Dean of the Mechanical Engineering 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
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 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)

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;

228 scientific papers published in journals and proceedings (of which 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 of the National Council for the Accreditation of Titles, Diplomas and University Certificates (CNATDCU),

President of the Romanian Alliance of Technical Universities

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) 2005-2012

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 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 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

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. Serban, E.S. Puchi-Cabrera, M.H. Staia, C. Codrean, Materials Science and Engineering, Volume 528, Issue 22-23, Pages 7041-7051

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., Carțiș, I., Șerban, V.A., Vacuum, 77/4 11 March, p. 451-455

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