

#### **Europass Curriculum Vitae**



#### Personal information

First name(s) / Surname(s)

VIOREL - AUREL, ŞERBAN,

Address(es)

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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

Politehnica University of Timișoara, Piața Victoriei, nr. 2, 300006, Timișoara

Leadership of the Board of Deans

Name and address of employer

**Higher Education** 

Type of business or sector

2007 - 2012

Occupation or position held

Director

Main activities and responsibilities

Name and address of employer

Coordination of the research programs in the field of Advanced Material Science and Engineering

Politehnica University of Timişoara, Piaţa Victoriei, nr. 2, 300006, Timişoara/ 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

Coordination of the Faculty admission

responsibilities

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 Timişoara, Piaţa Victoriei, nr. 2, 300006, Timişoara

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 Res

Responsible for the learning process

Name and address of employer | Politehnica University of Timişoara, Piaţa Victoriei, nr. 2, 300006, Timişoara

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 and Nanocrystals, Expertise and Diagnostics of Damage, Advanced Material Engineering, Metals and Metallic Alloys.

Name and address of employer "Politehnica" University of Timişoara, Piaţa Victoriei, nr. 2, 300006, Timişoara

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 Timişoara, Bv. Mihai Viteazul nr 1, Timişoara/ "Politehnica" University of Timişoara, Piaţa employer | Victoriei, nr. 2, 300006, Timişoara

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 Electrotimiş Timişoara

Type of business or sector | Government industry

#### Education and training

Dates 1973-1978

Title of qualification awarded | Mechanical Engineer

Principal subjects/occupational skills covered Organization of Labour Technological-Constructive Design of Technical Systems, Production Management and Control,

Name and type of organisation providing education and Politehnica University of Timişoara, Mechanical Faculty, Department of Machine Building Technology

Dates 1985-1992

training

training

Title of qualification awarded PhD in Engineeering Science Principal subjects Studies in Materials Science

covered

Name and type of organisation providing education and Politehnica University of Timişoara, Mechanical Engineering Faculty

Dates 1997 (April -May)

Page 2/4 - Curriculum vitae of Serban Viorel-Aurel Title of qualification awarded

specialization in graduate and postgraduate programs

Principal subjects 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/I 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 Timişoara 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

European level (\*)

Language Language

t	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

<sup>(\*)</sup> Common European Framework of Reference for Languages

#### Social skills and competences

Creativity, research and working in group abilities (national research program coordinator)

#### Organisational skills and competences

President of the "Politehnica Timişoara" Fundation (2009-2013) President of the CSU "Politehnica" Timişoara Handball Team (2000 – 2013) Executive Secretary and Vice President of the ASU "Politehnica" Board (1996-2013)

### Technical skills and scientific activitiy

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 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 of the National Council for the Accreditation of Titles, Diplomas and University Certificates (CNATDCU),

President of the Romanian Alliance of Technical Universities

Expert for CNCSIS( 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, Timişoara branch Member of the Welding Association of Romania (ASR)

## Relevant books and papers

#### Books

Ştiinţa şi Ingineria Materialelor ed.III (Science and Engineering of Materials), 2014 Authors V.A.Şerban, A.Răduţă, 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 : Toşa, D.I., **Şerban, 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: **Şerban, 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 Roşu, 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., **Şerban Viorel-Aurel**, Secoşan 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. Şerban, 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: Uţu, D., Brandl, W., Mărginean, G., Carţiş, I., Şerban, V.A., Vacuum,77/4 11 March,p. 451-455

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