



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Mircea CORBAN**  
Address(es) 22, Calea Crangasi, Bucharest 6, Romania  
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E-mail corban.mircea@imnr.ro  
Nationality Romanian  
Date of birth 18.02.1956  
Gender male

### Work experience

Dates 2017 may - now  
Occupation or position held Senior Researcher, Ph.D. in Science and Materials Engineering  
Main activities and responsibilities Research design in materials technologies; composite materials, thin films deposition by PVD (thermal evaporation, e-beam)  
Name and address of employer NATIONAL RESEARCH & DEVELOPMENT INSTITUTE FOR NON-FERROUS AND RARE METALS - I M N R ; 102 Biruintei Blvd., PANTELIMON, jud ILFOV, Post Code 077145, Romania  
Type of business or sector Public Research National Institute  
Dates 2004- 2017 apr.  
Occupation or position held Research Project Manager, Senior Researcher, Ph.D. in Science and Materials Engineering  
Main activities and responsibilities Research design in powder metallurgy, materials technologies; composite materials; noble dental alloys; shape memory alloys; dilatometer;  
Name and address of employer SC METAV RESEARCH&DEVELOPMENT Ltd; 31 C. A.Rosetti Str., Bucharest 2, Post Code 020011, Romania  
Type of business or sector Private Research Organisation  
Dates 1983 – 2004  
Occupation or position held Metallurgical Engineer; Researcher, Senior Researcher and Research Project Manager, Ph.D. in Science and Materials Engineering  
Main activities and responsibilities Research laboratory sintered products / Research design and powder metallurgy technologies; composite materials with tribological applications; Quality Control sintered products.  
Name and address of employer METAV S.A. Research Center, Biharia Street 66-67, Bucharest 1, Post Code 013981, Romania  
Type of business or sector Public/Private Commercial Company for aircraft industry. Research in aircraft materials fields

Dates 1982 – 1983  
 Occupation or position held Metallurgical Engineer Trainee  
 Main activities and responsibilities production section/ technologist  
 Name and address of employer F.P.M.C.M. Roşiori de Vede -Teleorman  
 Type of business or sector Public Commercial Company for machining and metal industry.

Dates 1981 – 1982  
 Occupation or position held Metallurgical Engineer Trainee  
 Main activities and responsibilities production section/ technologist  
 Name and address of employer I.M. Gheorgheni- Harghita  
 Type of business or sector Public Commercial Company mechanical and metallurgical.

**Education and training**

Dates 1996 - 2003  
 Title of qualification awarded Graduated as Doctor in Science and Materials Engineering  
 Principal subjects/occupational skills covered Science and Materials Engineering  
 Name and type of organisation providing education and training «POLITEHNICA» University of Bucharest - Faculty of Materials Science and Engineering

Dates 1976 -1981  
 Title of qualification awarded Graduated as metallurgical engineer  
 Principal subjects/occupational skills covered installations and units in extractive metallurgy  
 Name and type of organisation providing education and training Polytechnic Institute of Bucharest - Faculty of Metallurgy

**Personal skills and competences**

Mother tongue(s) Romanian

Other language(s)

Self-assessment  
 European level (\*)

**English**  
**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
(B2)	Basic user	(B2)	Basic user	(B1)	Basic user	(B1)	Basic user	(B1)	Basic user
(B2)	Independent user	(B2)	Independent user	(B1)	Independent user	(B1)	Independent user	(B1)	Independent user

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences Communication skills, team work ability

Organisational skills and competences	Involved in the elaboration of national and research project proposals, research project management abilities, research project manager in national (5), <b>scientific director in 2 national research projects</b>
Technical skills and competences	Experience in tribological tests and dilatometrie
Computer skills and competences	Good command of Microsoft Office tools ( Word, Excel, Power Point and AutoCAD)
Driving licence	B category
<b>Additional information</b>	Member of professional associations: Member of Romanian Society of Powder Metallurgy 1990 – onwards
<b>Annexes</b>	
Articles and Reviews-ISI Web of Knowledge-THOMPSON	<ol style="list-style-type: none"> <li>1. <i>“Aspects regarding alloying effect on electrochemical stability of the sintered titanium”</i> – M. Corban, I. Roman, R. Trusca, A. Dinischiotu, I. Carceanu, N. Stan, C. Fratila-<b>Revista de Chimie</b>, ISSN 0034-7752, 63, nr.1, 2012, p.22-26;</li> <li>2. <i>“Corrosion behaviour of some dental copper alloys”</i>- A. Banu, M. Marcu, C. Doicin, M. Corban, I. Roman -<b>Revista de Chimie</b>, ISSN 0034-7752, 60, nr.12, 2009, p.1276-1281;</li> <li>3. <i>“Novel composite material using porous sintered stainless steels for orthodontic applications”</i> -M. Marcu, A. Banu, M. Corban – <b>Romanian Biotechnological Letters</b>, ISSN 1224-5984, vol.13, (1) 2008, p.3575-3582;</li> <li>4. <i>“Specific aspects concerning the electrochemical behavior of austenitic stainless steel obtained by powder metallurgy”</i>-I. Roman, M. Corban, R. Trusca, I. Ciupitu-<b>Revista de Chimie</b>, ISSN 0034-7752, 57, nr.5, 2006 p.511-515.</li> </ol>
Other articles and Reviews	<ol style="list-style-type: none"> <li>1. <i>“Sn-Ni thin films synthesis by electron beam physical vapor deposition”</i> M.L. Soare, A. Sobetkii, M.T. Olaru, M. Burada, I. Constantin, P. Capota, A.N. Lupu, M. Corban; <b>SUPERMAT-Workshop on smart specialization and advanced materials for extreme conditions, București</b>, 20-22 nov. 2017</li> <li>2. <i>“Calcium phosphates deposited on various porous titanium alloys by electrochemical method”</i>. E. Stoica, C. Fratila, E. Vasile, I. Roman, M. Corban, M. Nicolae-<b>Buletinul Institutului Politehnic din Iasi</b>, Tomul LVII(LXI), Fasc.4, 2011, p.247-252, ISSN 1453-1690;</li> <li>3. <i>„Biocompatible materials for dental implantology”</i>- I. Carceanu, I. Nedelcu, M. Braic, M. Corban, R. Trusca, M. Siminel-<b>Metallurgy and New Materials Researches</b>, Vol.XVII, nr.3, 2009 p. 27-42, ISSN 1221-5503</li> <li>4. <i>„Structuri 3D si 2D din aliaje ternare biocompatibile cu memoria formeii”</i> – M. Braic, A. Vladescu, A. Kiss, D. Raducanu, I. Dan, M. Corban, E. Vasile, R. Chelariu, L. Bujoreanu, T. Jalba, P. Drob, E. Ivanov, M. Valeanu, V. Kunczer – <b>AMCSIT-Politehica / Conferinta CeEx 2006-Brasov</b>, vol I, L1-9, ISBN (10) 973-718-552-8;</li> <li>5. <i>„High quality products used in the airspace industry”</i>- A. Buzaianu, M. Corban, A. Ioncea, I. Ciupitu, R. Trusca, P. Nita, V. Manoliu - <b>Buletinul Institutului Politehnic Iasi-Tomul LI (LV)</b>, Fasc. 3, 2005, p.19-24, ISSN 1453-1690;</li> <li>6. <i>„The influence of the sintering temperature on tribological characteristics on an iron matrix composite”</i>- M. Corban, P. Nita - <b>Proceedings Materials Week 2002, The European Congress on Advanced Materials, their Processes and Applications</b>, München, Germany-2002, ISBN 3-88355-314-X;</li> <li>7. <i>„Bimetallic materials for special applications”</i>-A. Buzaianu, M. Corban, V. Manoliu, I. Dinca-<b>Proceedings Materials Week 2002, The European Congress on Advanced Materials, their Processes and Applications</b>, München, Germany, ISBN 3-88355-314-X;</li> <li>8. <i>„Carbon fibre reinforced composite obtained by powder metallurgy”</i>- M. Corban, C. Novac, P. Nita - <b>Metallurgy and New Materials Researches</b>, vol.VI, no.4/1998, p.53-56 ISSN 1221-5503</li> <li>9. <i>„The influence of the metallic powder grain size on the friction characteristics of the sintered composite materials”</i> - M. Corban - <b>Metallurgia international</b> vol.II, no.4/1997, ISSN 0461-9579;</li> <li>10. <i>„Tip III carbon fibre weave reinforced polymeric composite materials. Physico-mechanical and tribological characterisation”</i> - C. Novac, E. Alexandrescu, M.C. Bunescu, M. Corban - <b>Metallurgia international</b> vol.II, no.4 /1997, ISSN 0461-9579;</li> </ol>

..International Conference

1. "The aspects of the micro structural investigations concerning porous Ti6Al4V alloy for dental implants"- M.Corban,R.Trusca, P.Nita,N.Stan, I.Carceanu- European Congress on Advanced Materials and Processes- **Euromat 2009**-Glasgow- UK-2009;
2. „The Aspects of the Micro Structural Investigation Concerning the Shape Memory Alloy TiNiNb” - M.Corban, E.Vasile, M.Braic - European Congress on Advanced Materials and Processes- **Euromat 2007**-Nürnberg –Germany, 2007;
3. „Corrosion behavior of AISI 316 austenitic stainless steel for orthodontic applications” - M.Marcu, A.Banu, M.Corban – International Conference of Physical Chemistry **ROMPHYSICHEM -12**, Bucuresti, Romania, 2006;
4. „Not-noble PM materials for dental protection” – M.Corban, R.Trusca, I.Ciupitu, P.Nita, E.Vasile - Third International Conference & Exhibition on Powder Metallurgy - **RoPM 2005**, Cluj –Napoca Romania, 2005;
5. „The influence of the carbon fiber of a PM metal-matrix composite material on the tribologica characteristics” - M.Corban,P.Nita, M.Cojocaru -Second International Conference on Powder Metallurgy -**RoPM 2000**, Cluj-Napoca, Romania, 2000;
6. „Tribological behavior of carbon fiber reinforced copper based composite material obtained by powder metallurgy”- M.Corban, P.Nita - International Conference on Composite Engineering - **ICCE/7** - 153, Denver, Colorado, USA, 2000;
7. „Aluminium bronze reinforced with polifilamentar continuous carbon fibre obtained by PM”- M.Corban , C.Novac, P.Nita, E.Alexandrescu - European Congress on Advanced Materials and Processes, **Euromat 1999**, München, Germany, 1999;
8. „High temperature resistant carbon-carbon composite materials.Technology, characterisations” - C Novac, M.C. Bunescu, E Vasile, M Corban, G. Grigore, M.Muntean - European Congress on Advanced Materials and Processes -**Euromat 1997**, vol.2, p.103-107, Maastricht Netherlands, 1997 ;
9. „Carbon fibre reinforced sintered metallic composites, processes and preparation procedures” - M.Corban, C.Novac- European Conference on Advanced PM materials, **Euro PM'95**, vol.1, p.665-668, Birmingham, U.K., 1995;

National Conference

1. „Aliaje nenobile realizate prin metalurgia pulberilor utilizate in protetica dentara” M.Corban - **Salonul Cercetarii 2005** –Ministerul Educatiei si Cercetarii-Agentia Nationala pentru Cercetare Stiintifica, Bucuresti, 2005;
2. „Material compozit de frictiune cu matrice metalica, armat cu fibre de carbon polifilamentare” - M.Corban, P.Nita, C.Novac ,M.Cojocaru - Conferinta Nationala de Stiinte Aerospatale- **Aerospatal '98**, Bucuresti, 1998;
3. „Compozite armate cu fibre de carbon obtinute prin metalurgia pulberilor”- M.Corban, C.Novac P.Nita – A V-a Conferinta Nationala de Metalurgie- **CNM ' 98**, Bucuresti, 1998;

Books

1. „Compozite hibride realizate prin metalurgia pulberilor”- Mircea Corban, Editura **Ars Academica** Bucuresti, 2008, p.98, ISBN: 978-973-88932-4-5, CIP nr.21961/ 25.11.2008.

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Dr.ing. Mircea Corban

