

Europass Curriculum Vitae



Personal information First names / Surname Telephones

Elena Enescu +40 21 3467231/35 Mobile: +40 745024929 +40 21 3468299 Fax enescu@icpe-ca.ro E-mails Nationality Romanian October 7th, 1949, Bucharest, Romania Date of birth Gender Female Employment / National Institute for Research and Development in Electrical Engineering Occupational field ICPE – CA (INCDIE ICPE – CA)

Work experience

Dates	2004 – present						
Occupation or position held	Technical Director, Senior scientific researcher, 1 st degree, Ph.D.						
Main activities and responsibilities	 Director of the nucleus R&D programmes from INCDIE ICPE-CA; Coordinator of research projects for hydrogen storage materials (Mg with Ni, Fe); Coordinator of research projects for magnetic and conductive nanomaterials (Co, CoNi, C CoAl₂O₃) obtained by sol-gel procedure or magnetron sputtering used for new devices; 2009-2011 Technical Manager for the acquiring of equipment in the project POS CCE 221 104/20 						
Name and address of employer	INCDIE ICPE-CA, 313 Splaiul Unirii, 030138, Sector 3, Bucharest, Romania						
Type of business or sector	Research and management activity						
Dates	2001-2004						
Occupation or position held	Deputy Director, Senior scientific researcher, 1 st degree						
Main activities and responsibilities	Coordinator of research projects for electrical materials, magnetic and conductive materials Member of research group for carbonic composite materials; Deputy Director of SC ICPE-CA SA						
Name and address of employer	SC ICPE-CA SA, 313 Splaiul Unirii, 030138, Sector 3, Bucharest, Romania						
Type of business or sector	Research and management activity						
Dates	1999-2001						
Occupation or position held	Head of Electrotechnical Materials Department, Senior scientific researcher, 1st degree						
Main activities and responsibilities	Management of the Electrotechnical Materials Department with 5 laboratories (conductive materials, magnetic materials, carbonic materials, ceramic materials, materials characterization) with ~120 employees						
Name and address of employer	Research Institute for Electrical Engineering, ICPE, Department of Electrotechnical Materials, 313 Splaiul Unirii, 030138, Sector 3, Bucharest, Romania						
Type of business or sector	Research and management activity						
Dates Occupation or position held	1997-1999 Head of Quality Assurance for Electrotechnical Materials Department Deputy Head of Electrotechnical Materials Department, Senior scientific researcher, 2 nd degree						

Main activities and responsibilities	Research and quality assurance activity							
Name and address of employer	Research Institute for Electrical Engineering, ICPE, Department of Electrotechnical Materials, 313 Splaiul Unirii, 030138, Sector 3, Bucharest, Romania							
Type of business or sector	Research activity, AC activity							
Dates	1995-1999							
Occupation or position held	Senior scientific researcher, 2 nd degree							
Main activities and responsibilities	Coordinator of internal research projects for soft magnetic materials on iron basis obtained powder metallurgy techniques as sintered or bonded cores							
Name and address of employer	Research Institute for Electrical Engineering, ICPE, Department of Electrotechnical Materials 313 Splaiul Unirii, 030138, Sector 3, Bucharest, Romania							
Type of business or sector	Research activity							
Dates	1990-1995							
Occupation or position held	Senior scientific researcher,3 rd degree							
Main activities and responsibilities	Responsible of research projects that focused on obtaining acicular powders for recording media with small coercitivity, 300 Oe of γ Fe ₂ O ₃ , CO- γ Fe ₂ O type and recording media with high coercitivity, 3000 Oe of BaFe ₁₂ O ₁₉ type, magnetic memories for displacement sensors.							
Name and address of employer	Research Institute for Electrical Engineering, ICPE, Department of Electrotechnical Materials 313 Splaiul Unirii, 030138, Sector 3, Bucharest, Romania							
Type of business or sector	Research activity							
Dates	1973 - 1990							
Occupation or position held	Junior scientific researcher from 1977, Chemist Engineer							
Main activities and responsibilities	Responsible of some research projects and contracts execution for electrical contacts based on silver for air switching devices (AgCdO, AgNi, AgNiC, AgW). Participant in different research projects and contracts execution							
Name and address of employer	Research Institute for Electrical Engineering, ICPE, Department of Electrotechnical Materials 313 Splaiul Unirii, 030138, Sector 3, Bucharest, Romania							
Type of business or sector	Research activity							
Education and training								
Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organisation providing education and training Level in national or international classification	2007 Ph.D. in Electrical Engineering Title of thesis: "Soft magnetic composite materials- new theoretical development, experiment and applications" Politechnica" University of Bucharest, Faculty of Electrical Engineering ISCED 6							
Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organisation	1968-1973 Chemist engineer Degree in Inorganic Chemistry, 1973 Politechnical Institute of Bucharest,							
providing education and training Level in national or international classification	Faculty of Industrial Chemistry ISCED 6							
Dates Title of qualification awarded Principal subjects/occupational skills covered	1997 Certificate Powder metallurgy specialisation							
Name and type of organisation providing education and training Level in national or international	HÖGANÄS, Suedia							
classification	Curriculum vitae of Enescu Elena							

Personal skills and competencies

Romanian Mother tongue

Other language(s)

Other language(s)											
Self-assessment	Unde	rstand	ding	Speaking				Writing			
European level (*)	Listening		Reading		Spoken		Spoken				
				r	interaction		production		.		
French	C2 Proficient	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient		
English	USEI	_	user Independent		user Independent		user Independent		user Independent		
English	B2 user	B2	user	B2	user	B2	user	B2	user		
	(*) <u>Common European Framework of Reference for Languages</u>										
Social skills and competencies Organisational skills and competencies	 teamwork, increased ability to adapt, communicative, serious, ambitious Management in R&D activities Director of the NUCLEUS R&D programmes ("EMATADUR", "MATER", "INGENIOS") of INCDIE ICPE-CA Coordinator of over 30 projects in the national programmes: ORIZONT 2000, RELANSIN, MATNANTECH, CERES, INOVARE, CEEX, PARTENERIATE (1993 - 2010) Participant in project POS CCE 02.1.1 "Advanced Research for the development of heat resistant carbographitic materials subjected to irradiation, with high lifetime for sealing rings" – CARBOTIR Participant in project NATO SfP no. 972414, "Carbon-ceramic composite materials with application in electrical engineering", 2000-2003 Participant in project NATO Science for Peace (SfP) no. 974083 - "Improvement of Low Voltage Vacuum Circuit Breaker on the Basis of Vacuum Switching Electric Arc Investigation", acronym LOVARC, 2000 – 2004 Participant in bilateral project, Contract no. 4131/2003, between INCDIE ICPE-CA, Bucharest, Romania and IMT LujbIjana - Republic of Slovenia – "Ecological recycling technologies of the fine grained scrapes in the form of slimes wastes resulted from the steel working industry", 2004 – 2005 Participant in project FP6 - SSA- INDUMAT, Contract no. 17240/2004 – "Strengthening of the RDT potential for advanced material and composites to enhance the performance of the electrical industry", 2004 – 2007 Participant in FP7 – REGPOT / Contract no. 229906/2009 - "Developing RDT potential of INCDIE 										
Technical skills and competencies	 ICPE-CA in the field of hydrogen and fuel cell technologies", 2009 - 2012 Technical Manager for the acquiring of equipment in the project POS CCE 221 104/2008 - Structural funds Obtaining of micro/nanomaterials by chemical synthesis, mechanical homogenization or mechanical milling Obtaining of different products by conventional powder metallurgy techniques 										
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Computer skills and competencies	Basic computer works in Microsoft Office (Word, Excel, PowerPoint), internet										
Other skills and competencies	 1985 – Intellectual property course; 1993 – 1994 –Management and book-keeping course; 1995 - Quality assurance specialisation; 2001 - Top Management", Austria, Chamber of Commerce from Vienna; 2004 – "Realizing National Research Potential: Advanced Training in Effective Science Management", EARMA. 2008 – "Allocation and efficient management of EU funds"- European Academy for Taxes, Economics & Law, 2008, Berlin, Germany; Participation to international scientific meetings: Paris, France 1994; Praga, Cehia 1990, 1996; Granada, 1998, Oviedo, 2001, Leeds, 2003 England, Barcelona, 2009, Spain, Turkey 2005, Portugal 2008, Nurenberg, 2010, Germany, Switzerland 2010, etc. 										
Driving licence	Туре В										
Additional information											

- Member of the Romanian Society of Magnetic Materials;
- Member of the Romanian Society of Ceramic Materials
 Member of the Mirror Group of the European Platform for "Hydrogen and Fuel Cells, 2004 2008.

Publications:

- Number of paper and communication in refereed journals: over 90;
- Number of paper and communication to international meetings or journals: 47;
 - Number of books: 2 and 1 chapter in book;
- Number of patents: 25 Romanian patents;
- Number of citations of papers in ISI journals: 8 in ISI Web of Knowledge and Scopus (h-index of 2);
- Number of awards: 9

ISI quoted published articles:

- M. Lungu, E. Enescu, F. Grigore, N. Buruntia, M. Lucaci, G. Rimbu, C. Panzaru, C. R. Ionescu, "Chemical Preparation and Properties of Some High Concentrated Colloidal Silver Solutions for Antimicrobial Applications", Revue Roumaine de Chimie, 2011, in review.
- V. Tsakiris, W. Kappel, E. Enescu, G. Alecu, F. Albu, F. Grigore, V. Marinescu, M. Lungu, "Characterization of Al matrix composites reinforced with alumina nanoparticles obtained by PM method", JOAM, Vol. 13, Issue 9, p. 1172 – 1175, ISSN 1454-4164, ISI impact factor in 2010 of 0.412, relative influence score of . 0.3299;
- S. Gavriliu, M. Lungu, E. Enescu, L. Gavriliu, "Composite nanopowder for antibacterial textiles", Review "Industria Textilă", Vol. 61, No. 2, April 2010, p. 86 - 90, ISSN 1222-5347, ISI impact factor in 2009 of 0.364
- 4) S. Gavriliu, M. Lungu, E. Enescu, S. Nitu, D Patroi, "A Comparative Study Concerning the Obtaining and the Using of Some Ag-CdO, Ag-ZnO and Ag-SnO₂ Sintered Electrical Contact Materials", OAM – RC, vol. 3, issue 7, July 2009, p. 688 – 692, ISSN 1842-6573, ISI impact factor in 2009 of 0.451, relative influence score of 0.2268;
- S. Gavriliu, M. Lungu, E. Enescu, F. Grigore, C. R. Ionescu, "Stable colloidal silver solutions for different applications", OAM – RC, vol. 3, issue 6, June 2009, p. 634 - 637, ISSN 1842-6573, ISI impact factor in 2009 of 0.451, relative influence score of 0.2268;
- E. Enescu, P. Lungu, I. Pasuk, G. Stoian "The Synthesis of Nanocrystalline Mg-Ni Alloys for Hydrogen Storage", Journal of Optoelectronics and Advanced Materials (JOAM), vol. 8, nr. 2, p. 699 - 701, 2006, ISSN 1454-4164, ISI impact factor in 2006 of 1.106, relative influence score of 0.3299;
- E. Enescu, P. Lungu, S. Marinescu, P. Dragoi "The Effect of Processing Conditions on Magnetic and Electric Properties of Composite Materials used in Nonconventional Magnetic Circuits", Journal of Optoelectronics and Advanced Materials (JOAM), vol. 8, no. 2, 2006, p. 745 – 748, ISSN 1454-4164, ISI impact factor in 2006 of 1.106, relative influence score of 0.3299;
- M. Lungu, S. Gavriliu, T. Canta, M. Lucaci, E. Enescu, "AgSnO₂ Sintered Electrical Contacts with Fine and Uniform Dispersed Microstructure", Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 8, No. 2, April 2006, p. 576 – 581, ISSN 1454-4164, ISI impact factor in 2006 of 1.106, relative influence score of 0.3299;
- S. Gavriliu, M. Lungu, M. Lucaci, E. Enescu, "New WAg Electrical Contacts with Ultrafine Structure for Low Voltage Devices", Journal of Optoelectronics and Advanced Materials (JOAM), Vol. 8, No. 2, April 2006, p. 702 – 707, ISSN 1454-4164, ISI impact factor in 2006 of 1.106, relative influence score of 0.3299.

Published books:

- E. Enescu, M. Lungu, S. Gavriliu, "Treatise of metallic materials science and engineering", Vol. 3

 Metalls. Alloys. Special Materials. Composite Materials, Subchapters 20.1 20.4 (Electrical Materials), edited by AGIR, 2009, p. 1069 1113, ISBN 987-973-720-261-1/987-973-720-064-0.
- E. Enescu, "Soft Magnetic Composites", Vol. 1, "Theoretical Considerations", edited by PRINTECH, Bucharest, ISBN 978-606-521-147-6, 2008;
- E. Enescu, "Soft Magnetic Composites", Vol. 2, "Obtaining and Characterization", edited by PRINTECH, Bucharest, ISBN 978-606-521-149-0, 2008.
- 4) E. Enescu, M. Lungu, S. Gavriliu, M. Sasu, "Electrical Contacts", edited by PRINTECH, Bucharest, 2008, 178 pages, ISBN 978-606-521-148-3.

Patents:

- V. Tsakiris, E. Enescu, M. Lucaci, G. Alecu, Fl. Albu, M. Lungu, Fl. Grigore "Process for obtaining a composite material based on aluminium with alumina nanoparticles", Patent Request at OSIM No. A/00711 of 20.07.2011.
- S. Gavriliu, M. Lungu, E. Enescu, M. Lucaci, "Process for obtaining AgSnO₂ sintered electrical contacts with optimized microstructure", patent RO 122445 of 30.06.2009.
- C. Banciu, G. A. Rimbu, E. Enescu, A. M. Bondar, I. Stamatin, "Nanocomposite carbon material", patent RO 122293 of 30.03.2009.
- S. Gavriliu, M. Lungu, E. Enescu, "Composite nanostructures of silver-metal oxide type with antimicrobial activity and process for their obtaining", Patent Request at OSIM No. A/01079 of 23.12.2009.
- M. Lucaci, E. Enescu, P. Lungu-Dodu "Process for obtaining hydrogen storage materials", Patent Request at OSIM No. A/00637 of 13.08.2009.

- M. Lucaci, E. Enescu, V. Tsakiris "Process for obtaining shape memory materials of NiTi alloyed intermetallic compound type", Patent Request at OSIM No. A/00638 of 13.08.2009.
- Iordache I., A. Bondar, I. Stamatin, E. Enescu, I. Poenaru, "Carbon/ceramic composite material for volume resistors", patent RO 121205 of 30.01.2007.
- 8) I. Iordache, A. Bondar, I. Stamatin, E. Enescu, I. Poenaru "Process for obtaining of some composite magnetic materials with shielding properties", patent RO 121204 of 30.01.2007.
- S. Gavriliu, E. Enescu, "Process for obtaining AgSnO₂ sintered electrical contacts", patent RO 120853 of 30.08.2006.
- S. Gavriliu, E. Enescu, "Process for recovering scale slurries from steel rolling", patent RO 120616 of 30.05.2006.
- C. Banciu, G. Rîmbu, A. Bondar, E. Enescu, I. Stamatin, "Nanocomposite material transparent at electromagnetic waves", Patent Request at OSIM no. 00096 of 11.02.2005.
- 12) S. Marinescu, E. Enescu, M. Popescu, "Monophase asincron micromotor with shielded poles with monocoil", Patent Request at OSIM no. 00305 of 31.03.2005.
- 13) Gh. Hahui, V. Licu, N. Vasile, E. Enescu, "Motor vehicle starter coil with core of powders based on iron", patent RO 117578.
- 14) E. Enescu, E. Soptea, C. Cazac, S. Jipa, C. Popa, "Process for obtaining fluorescent magnetic powders", patent RO 117456.
- 15) E. Enescu, E. Soptea, W. Kappel, S. Alexandru, "Process for obtaining some magnetic components with memory", patent RO 116754.
- 16) E. Enescu, E. Cristescu, E. Soptea, S. Gavriliu, "Process for obtaining acicular powders of γ Fe₂O₃ modified with cobalt", patent RO 116733.
- 17) E. Enescu, E. Cristescu, E. Soptea, S. Gavriliu, "Process for obtaining fine powders barium ferite substituted with cobalt, zirconium and zinc, patent RO 116713.
- E. Enescu, E. Soptea, W. Kappel, N. Buiescu, "Process for obtaining magnetoplastic composites for soft magnetic cores", patent RO 112321.
- 19) S. Gavriliu, P. Roman, E. Enescu, E. Soptea, L. Marinete, L. Teodorescu, P. Dragus, "Process for obtaining sintered electrical contacts with reduced content of precious metal", patent RO 101820, applied at SC Sinterom SA and ICPE.
- 20) E. Enescu, "Process for obtaining sintered electrical contacts of AgNiC and AgCuC with improved structure", patent RO 98511, applied at SC Sinterom SA and ICPE.
- E. Enescu, "Process for obtaining sintered electrical contacts of AgNiC with oriented structure", patent RO 98510, applied at ICPE.
- 22) E. Enescu, "Process for obtaining sintered electrical contacts of silver-metallic oxides", patent RO 89306, applied at ICPE.
- E. Enescu, S. Gavriliu, P. Roman, "Process for obtaining sintered contacts of silver-cobalt", patent RO 89305, applied at ICPE.
- 24) E. Enescu, S. Gavriliu, P. Roman, E. Soptea, L. Teodorescu, "Process for obtaining sintered electrical contacts of AgNiC with fine dispersed structure", patent RO 98509, applied at ICPE.
- 25) E. Enescu, "Process for obtaining sintered electrical contacts of AgNiC", patent RO 80776, applied at SC Electroputere Craiova.

Awards:

- 1) Diploma with Gold Medal at "The 55th World Exhibition of Innovations, Research and New Technologies", EUREKA 2006, Brussels, Belgium, 17 23.11.2006, for the Patent No. 122,445.
- Diploma with Silver Medal at "The 34th International Exhibition of Innovations, New Techniques and Products", Geneva, Switzerland, 5 - 9.04.2006 for the Patent No. 122,445.
- Diploma with Gold Medal at "The 33th International Exhibition of Innovations, New Techniques and Products", Geneva, Switzerland, April 2005 for the Patent No. RO 121205.
- Diploma with Gold Medal in "The 54th World Exhibition of Innovations, Research and New Technologies", INNOVA, Eureka 2005, Brussels, Belgium, for the Patent No. RO 121205.
- Diploma with Bronze Medal in "The 53th World Exhibition of Innovations, Research and New Technologies", INNOVA, Eureka 2004, Brussels, Belgium, for the Patent No. RO 120616.
- Diploma with Silver Medal in "The 52th World Exhibition of Innovations, Research and New Technologies", INNOVA, Eureka 2003, Brussels, Belgium, for the Patent No. RO 120853.
- Diploma with Gold Medal at "The 30th International Exhibition of Innovations, New Techniques and Products", Geneva, Switzerland, April 2002, for the Patent No. RO 117578.
- Diploma with Gold Medal in Innovations Salon, Iasi, 2002, for the Patent No. RO 120616, granted by the Romanian Academy, Commission of Innovations.
- 9) Excellence Diploma for the High Scientific and Technological Level for Manufacturing Ecological Sintered Electrical Contacts, CONRO 2002, granted by Ministry of Education and Research.

Date: October 11th, 2011

Dr. Eng. Enescu Elena