Europass Curriculum Vitae	2016 Posearchest		
Personal information			
First name(s) / Surname(s)	BENEA LIDIA		
Address(es)	BLOC 10C, Ap. 13, 7 Energiei	I STREET, 8002	47, Galati, Romania
Telephone(s)	+ 40 236 493662	Mobile	+ 40 744 216277;
Fax(es)	+ 40 236 460754; + 40 236 461353		
E-mail	Lidia.Benea@ugal.ro ; lidiabd@	vahoo.com	
Web page	http://www.cc-ites.ugal.ro/		
2 0	http://www.researcherid.com/rid	<u>d/B-9653-2011</u>	
Nationality	Romanian		
Gender	F		
Actual position / Institution / Domain	University Professor Ph.D., Dun rea de Jos University of Galati, Faculty of Engineering, 47 Domneasca St., 800008, GALATI, Romania, Phone: +40 236 460754, Fax: +40 236 461353; Doctoral (Ph.D.) Studies Supervisor in Engineering Science / Materials Science and Engineering - Advanced Materials. www.ugal.ro Manger of Competences (Research) Centre Interfaces – Tribocorrosion – Electrochemical Systems (CC-ITES) www.cc-ites.ugal.ro		
Scientific interests Expertise domains	Applied Electrochemistry to environments: electrochemical composite coatings, hybrid (inorg thin oxide layers, functional surfa materials in specific environments nanoparticles, electrochemical stu solution interfaces, electrochemi materials used in membrane si delivery or implant materials. Structural, morphological, compo- studies of material surfaces (SI microhardness).	ganic – organic) ces to improve a advanced mate udies of nano ( cal corrosion a systems for na <b>Characteriza</b> ositional, micro	) layers, surface modifications, corrosion and tribocorrosion of erials, nanomaterials, micro and (bio) electrode / environments and tribocorrosion. <b>Polymeric</b> nofiltration, transdermic drug <b>tion of materials surfaces:</b> o topographic and mechanical
Work experience			
	T 1001 TH		
Dates	January 1991 – These days	i Di i	
Occupation or position held	University Professor (Ph.D.) and Ser General Manager CC-ITES – Compe Electrochemical Systems (CC-ITES) Supervisor Doctoral (Ph.D.) Studies: Associate Professor Ph.D.	etences Center Int ). www.cc-ites.ug	al.ro .

Lecturer Ph.D. Professor Assistant.

	Professor Assistant.
Main activities and responsibilities	Teaching (licence; master; doctoral degrees) and Research (fundamental and application research). International programs. Licence courses: Chemistry lectures (general and inorganic); Chemical Technology; Corrosion and Corrosion Protection. Technical Methods for Chemical Analysis; Crystallography;
	<ul> <li>Physical Chemistry - Applied Electrochemistry.</li> <li>Master courses:</li> <li>Fundamentals of Metal Electrodeposition; Micro and Nano Structued Composite Coatings; Advanced Materials; Strategies and European Projects in the domain of Nanotechnologies and Nanomaterials. Environmental Impact of Materials Degradation; Interface materials - environment; Interactions material - tissue.</li> </ul>
	Supervisor master degree in Nanotechnologies and Multi-Functional Materials; Interactions material - tissue.
	<ul> <li>Ph.D. Courses:</li> <li>Electrochemical techniques and methods to study and evaluate materials degradation in specific environments.</li> <li>Supervisor Ph.D. Thesis.</li> </ul>
	Domain of Engineering Science - Materials Engineering.
	<ul> <li>Organising of laboratory practice for: Chemistry, Corrosion and Corrosion</li> <li>Protection; Electrodeposition; Materials Characterization by electrochemical methods.</li> <li>Bilateral Agreements with International Universities for students and academic staff</li> <li>mobility. Ecole Centrale Paris - France; Katholieke Universiteit Leuven-Belgium;</li> <li>Trento University- Italy; Minho University- Portugal; Aquila University - Italy;</li> <li>Duisburg Essen University - Germany.</li> <li>Fundamental and applied research: Obtaining and characterization of micro and</li> <li>nanostructured composite coatings; Thin oxide layers; Mechanism and kinetic of</li> </ul>
	<ul> <li>materials degradation; Corrosion; Biocorrosion; Tribocorrosion; Surface modification</li> <li>by electrochemical methods; Biomaterials and Biocoatings., Biocompataibility.</li> <li>European Research Programs and Actions.</li> <li>ESF-COST Actions: Member of Management Committee of European Projects in the</li> </ul>
	Chemistry and Materials Domains: ESF – COST: 520, 521, 533, 532, D19, D33. Vice Chair of COST D33 Action. <b>International Bilateral Research Projects</b> with Ecole Centrale Paris (France); Katholieke Universiteit Leuven (Belgium).
Name and address of employer	<ul> <li>Dunarea de Jos University of Galati, Faculty of Metallurgy, Materials Science and Environment.</li> <li>Faculty of Materials Engineering and Environment.</li> <li>Faculty of Engineering.</li> <li>47 Domneasca Street, 800008 Galati, Romania.</li> </ul>
Type of business or sector	University Engineering School (Faculty) in Metallurgy, Materials Science and Environment.
Dates	Jun 2000-Jun 2001; September - December 2001; February 2002; September- December 2002; January – December 2003; September 2003 - December 2003; February 2004; May-Jun 2004; Jun – July 2005; Jun – July 2006; December 2007; December 2008; Jun-July 2009; Jun- July 2010; October 2011; July 2013, Jun - July 2014.
Occupation or position held	Invited (Visiting) Professor and Invited Researcher.
Main activities and responsibilities	<ul> <li>Teaching and Research</li> <li>Applied Electrochemistry. Electrodeposition of metals alloys and nanostructured composite. Corrosion and corrosion protection.</li> <li>Tribocorrosion of nanostructured composite coatings and passivable metals and alloys.</li> <li>Research and laboratory courses. Supervisor of master students and research projects on experimental methods and materials for human implants.</li> <li>Resin-modified glass ionomer restorative material for tooth structures. Composite coatings obtained by electrochemical co-deposition.</li> <li>Supervisor joint PhD Thesis.</li> </ul>
Name and address of	ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 Chatenay Malabry cedex,
Page 2/17 - Curriculum vitae of	Prof. Univ. Dr. Lidia BENEA Lidia

employer	France.
Type of business or sector	University – Engineering School.
Dates	March 1999 - Jun 2000, July 2001, July – August 2004, May 2007.
Occupation or position held	Invited professor. Invited Senior Researcher.
Main activities and responsibilities	<b>Course in English</b> : on Surface treatments to improve the corrosion and wear resistance of materials.
	<ul> <li>Laboratory Practice Organization: Electrodeposition of composite coatings; Evaluation of corrosion behaviour of materials and coatings.</li> <li>Research work on Electrocodeposition of ceramic nano-crystals with metals and properties investigations (wear-corrosion, SEM, XRD, electrochemical corrosion) of obtained composite coatings. Materials Engineering.</li> </ul>
Name and address of employer	Trento University, Department of Materials Engineering, Via Mesiano 77, 38050 Trento, Italy
Type of business or sector	University – Engineering School.
D	
Dates	October - November 1999
Occupation or position held	Post doctoral Research Grant of French Government.
Main activities and responsibilities	<ul> <li>Research on composite coatings from preparation to characterization.</li> <li>Research on electrochemical techniques (EIS) to study the electro-codeposition mechanism and kinetic of nanoparticles with metals.</li> </ul>
Name and address of employer	CNRS, UPR 15, Laboratory "Physique des Liquides et Electrochimie", Université Pierre et Marie Curie (Paris VI), 4 Place Jussieu, 75252 Paris Cedex 05, France.
Type of business or sector	University Pierre et Marie Curie Paris - France.
<b>D</b> .	
Dates	March 1998 - December 1998
Occupation or position held	NATO Post Doc Research Grant in the Research Domain of Composite coatings and Electrochemical Methods of Surface modification and Characterization.
Main activities and responsibilities	Research on Electrochemical and Wear Corrosion of Composite Coatings Obtained by Electrodeposition.
Name and address of employer	ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 CHATENAY Malabry cedex, France.
Type of business or sector	Engineering University.
Dates	March - July 1997
Occupation or position held	TEMPUS INDIVIDUAL MOBILITY GRANT, from European Community to improve the courses in Chemistry, Electrochemistry and Corrosion.
Main activities and responsibilities	Research on Corrosion Study of Concrete Reinforcing Steel by Impedance Spectroscopy and Linear Polarisation Methods.
Name and address of employer	ECOLE CENTRALE PARIS, Grand Voie des Vignes, 92295 CHATENAY Malabry cedex, France.
Type of business or sector	Engineering University.
Dates	1980 - 1990
Occupation or position held	Researcher, Senior Researcher, Laboratory head.
Main activities and responsibilities	Research Projects Director. Electrochemistry, Corrosion, Surface Finishing, Protective Coatings and Materials
Page 3/17 - Curriculum vitae of	Prof. Univ. Dr. Lidia BENEA Lidia

	Science from technology to industrial application. Partial work: Assistant Professor "Dunarea de Jos" University of Galati. Teaching activity: Corrosion and Protection, Electrochemical Processes, Physical Chemistry, Crystallography, New performed materials and General and Inorganic Chemistry for engineering degree.
Name and address of employer	Research Institute for Steel Plate and Metal Coatings (I.C.P.P.A.M.) of Galati, Romania.
Type of business or sector	Research Institute (R&D).
Dates	1977 - 1980
Occupation or position	
held	Chemist From Technical Office to head of Laboratory for Quality Control.
Main activities and responsibilities	Work organizer. Laboratory analysis: water, chemical products. Water technology demineralization. Water technology purification. Ammoniac, sulphuric acid, phosphoric acid and urea technology fabrication.
Name and address of employer	Chemical Fertilisers Factory, in the city of Bacau, Romania.
Type of business or sector	Chemical Industry.
Education and training	
Dates	1991 - 1996
Title of qualification awarded	DOCTOR OF SCIENCE IN CHEMISTRY. DIPLOMA Series N No. 001335 Doctor Degree (Ph.D. – Doctor of Philosophy)
Principal subjects/occupational skills covered	<b>Ph.D Studies.</b> Materials. Electrochemical Impedance Spectroscopy Method to Study the Composite Coating Codeposition and Electrochemical Corrosion. Comparative Surface Morphology of Metal and Composite Coatings obtained by Electrodeposition, Comparative Corrosion Properties of Modified Surfaces.
Name and type of organisation providing education and training	Dunarea de Jos University, Faculty of Metallurgy and Materials Science, 47 Domneasca street, 80000 Galati, Romania. University Doctoral School. <b>Doctoral studies.</b>
Level in national or international classification	DOCTOR OF SCIENCE IN CHEMISTRY. Doctor Degree (Ph.D. Doctor of Philosophy). Thesis: Obtaining and Structural Analysis of Composite Coating Materials.
	Thesis, Obtaining and Structural Analysis of Composite Coating Materials.
Dates	1994 - 1995 (Government Grant for doctoral studies and degree research work).
Title of qualification awarded	To whom it may concern for the work done on PhD research subjects (Attestation - Certificate).
Principal subjects/occupational skills covered	Postgraduate studies in Physical Chemistry - Electrochemistry focusing on: -Electrochemical impedance spectroscopy and potentiodynamic measurements to obtain and characterise the composite coatings materials. -Scanning Electron Microscopy (SEM) and X-ray Energy Dispersive Analyse (EDS).
Name and type of organisation providing education and training	Eötvös Lorand University of Budapest and Hungarian Academy of Sciences, Hungary Department of Physical Chemistry; H-1518 BUDAPEST 112; Po Box 32.
Level in national or international classification	<b>Doctoral scholarship (Grant).</b> Scientific Reports:

Review of composite coatings materials; Thermodynamic and kinetic of metals electrodeposition; Structural methods for coating analysis.

	Electrochemical methods for surfaces investigation.
Dates	1985 - 1986
Title of qualification awarded	<b>Postgraduate - Post-universities (Master) Diploma</b> in <i>Corrosion and Corrosion</i> <i>Protection</i> : DIPLOMA Series B No.2392.
Principal subjects/occupational skills covered	<ul> <li>-Fundamentals of Corrosion.</li> <li>-Surface Finishing and Protective Coatings.</li> <li>-Electrochemical Methods for Corrosion Research.</li> <li>-Electrodeposition Studies for Alloys Electro crystallisation Mechanism.</li> <li>-Corrosion Inhibitors.</li> </ul>
Name and type of organisation providing education and training	Polytechnica University of Bucharest, Faculty of Chemical Engineering Calea Grivitei 132; 78122 BUCHAREST, Romania.
Level in national or international classification	Post university (Master Degree) - Corrosion and Corrosion Protection. Thesis: <b>Zn-Fe alloys obtained by electrodeposition.</b>
Dates	1978
Title of qualification awarded	Quality Assurance Certificate. Certificate number: 9912/28-11-1978.
Principal subjects/occupational skills covered	Fiability, maintenance, quality control, quality assurance in industrial chemistry. Analytical methods for quality control. Assurance Quality laws.
Name and type of organisation providing education and training	Polytechnica University of Bucharest, Faculty of Chemical Engineering. Calea Grivitei 132; 78122 BUCHAREST, Romania.
Level in national or international classification	Certificate (Attestation) of skills obtained in Quality Assurance for Chemical Industry. Thesis: <b>Statistic methods to improve the quality control of sulfuric acid production.</b>
Dates	1972 - 1977
Title of qualification awarded	M.S. IN CHEMISTRY. Faculty Degree in Chemistry. DIPLOMA No.493/ 06.03.1978 With the Senate Recommendation for research work and skills.
Principal subjects/occupational skills covered	Licence Student in Chemistry. University Degree. Diploma in Chemistry. -General Chemistry; Inorganic Chemistry; Organic and Macromolecular Chemistry; Chemical technologies; Analytical Chemistry; Electrochemistry; Applied Mathematics; Applied Physics; -Catalytic processes. -Physical Chemistry. -Surface Chemistry. Organo-metallic Chemistry.
Name and type of organisation providing education and training	Polytechnica University of Bucharest, Faculty of Chemistry. Calea Grivitei 132; 78122 BUCHAREST, Romania.
Level in national or international classification	M.S. IN CHEMISTRY. Diploma of Licence in Chemistry. Thesis: Obtaining and adsorption properties of silicon oxide particles for using in the catalytic area.
Dates	1959 - 1971
Title of qualification awarded	High SCHOOL LEAVING DIPLOMA. Diploma Series E No. 16765.
Principal	Primary School
Page 5/17 - Curriculum vitae of	Prof. Univ. Dr. Lidia BENEA Lidia

subjects/occupational skills covered	Secondary and High School.
Name and type of organisation providing education and training	High School no. 2 of Radauti, county of Suceava, Romania.
Level in national or international classification	Mathematic, Physique and Chemistry. Bachelor degree.
Dersonal skills and	

Personal skills and competences		
Mother tongue(s)	Romanian	
Other language(s) Self-assessment	Understanding Speaking Writin	σ
European level (*)	Listening Reading Spoken interaction Spoken production	5
Language	C1 English C1 Proficient user C2	nt user
Language	C1 French C1 Proficient user C2	nt user
	A2       Italian       A2       Basic user       A2       Basic user       A2       Basic user       A2       Basic user	ser
	(*) Common European Framework of Reference for Languages	
Social skills and	-Team spirit.	
competences	-Good ability to adapt to multicultural environments, gained though my wor experience abroad.	
	-Good communication skills gained through my experience as member Management Committee of COST European Projects.	r of
Studying and working	I have experience in multicultural environment: Romanian Hungarian	
Studying and working experience in multicultural environment.	<ul> <li>I have experience in multicultural environment: Romanian, Hungarian, French and Italian the most important as time of studies and work. During University studies and work in Romania I achieved experience to work in industrial environment during three years. After in a Research Institute as Researcher and Research Projects manager, where I have coordinate many research groups I achieved competencies to manage and doing research in materials engineering (surface treatments, new materials, electrochemistry, corrosion and corrosion protection) in Romanian environment. Starting from 1991 I achieved experience to teach and work with Romanian student groups in the same area at Galati University.</li> <li>During 1994 - 1995 I studied (for doctoral thesis, PhD) in Hungary at Eötvös Lorand University of Budapest and Hungarian Academy of Sciences focusing on the electrochemical impedance spectroscopy and potentiodynamic measurements to obtain and characterise the composite coatings materials. Competencies and experience achieved on electrochemical techniques to study the materials behaviour in different corrosive systems in the Hungarian environment. 1997 and 1998 as TEMPUS and NATO grant for a postdoctoral formation at Ecole Centrale Paris, France, I achieved experience in tribocorrosion and corrosion behaviour of materials, structural analysis of materials by electronic microscope techniques, X. ray disperse analysis and 2D - 3D surface micro- topography and image analysis. I achieved experience to work with French students and co-workers as well as with different nationalities postgraduate co-workers: Italian, Polish, Czech, and Arabian.</li> <li>April 1999 to Jun 2000: Temporary work at Trento University Department of Materials Engineering, Italy, as invited professor, and senior researcher, Working</li> </ul>	

group of Prof. P. L. Bonora. I give courses in Surface treatments by electrodeposition to improve the corrosion and wear resistance of materials. Research work on codeposition of ceramic nano-crystals with metals and properties of obtained composite coatings.

I achieved experience to teach, manage and do research work with Italian students and co-workers.

Jun 2000 to Jun 2001, September 2001-February 2002, September 2002-February 2003, September 2003-December 2003, February 2004, Mai- Jun 2004, Jun – July 2005, Jun – July 2006 : As Invited Senior Researcher Scientific and Invited Professor (Temporary work) at ECOLE CENTRALE PARIS, C.F.H. Laboratory. I achieved competencies in doing Research and Teaching on electrodeposition and wear corrosion of materials. Experience in work with French co-workers, French students and others Students nationalities as Swedish, German, Italian, Arabian, Czech, and Polish, which studied at that time at Ecole Centrale Paris. Also in the same time I achieved experience in Management and Organisation of the French Research Projects and Laboratory Practice as well as European Project (EREBIO -FP5).

During 1998-2010 as member of Management Committee of COST 533 Materials (Materials for Improved Wear Resistance of Total Artificial Joints), COST D33 (Nanoscale Electrochemical and Bio-Processes at Solid-Aqueous Interfaces of Industrial Materials), COST D19 CHEMISTRY – Chemical Functionality to Nanometer Scale, COST 520 (Biofouling and Materials) and COST 521 (Corrosion of Steel in Reinforced Concrete Structures) european actions. I achieved experience and competencies in working with many nationalities partners (French, Italian, German, Swedish, Finnish, Spanish, Portugal, Hungarian, English, in the management of budgets and projects. At the same time I have been the manager of Romanian projects:

-RO1-Comparative corrosion studies of Zn-Fe alloy coatings and Zn coatings on steel reinforcing structures, RO-Marine bio - corrosion of SiC-Ni nano-structured composite coatings, RO-Electrochemical Aspects and Bio - Tribocorrosion Properties of Actually Used Nickel Based Alloys and Alternative Materials and Coatings in artificial joints, WG2-RO-Electrochemical and biotribocorrosion studies of interfaces between (composites, metallic, polymeric, ceramic) materials and micro organisms, M1-WG3-Tribochemistry: *Nano-structured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigation.* 

2005-2006: Competencies and experience in working and organise exchange of researchers with French people, as director of Romanian part, in the Bilateral Research Project between Romania and France PAI-BRANCUSI ("Dunarea de Jos" University of GALATI, Romania – Ecole Centrale Paris, Laboratoire LGPM). *Etude de dépots composites nanostructurés, pour la protection des surfaces métalliques contre la tribocorrosion.* 

2003-2005: Competencies and experience in working and organise exchange of researchers with Belgium people, as director of Romanian part, in the Bilateral Research Project between Romania and Belgium ("Dunarea de Jos" University of GALATI, Romania - Katholieke Universiteit Leuven, Belgium): "

Tribocorrosion of engineering materials in view of their industrial use as sliding parts in pumps, shafts, and motors operated in water-lubricated conditions".

2002: Competencies in working with German people in the frame of bilateral research project between Dunarea de Jos" University of GALATI, Romania and Chemnitz University of Technology - Germany, as co-worker.

Good writing and redactional skills acquired in many publications with different nationality co-workers: Italian, French, and Belgian (Publications List and Books).

Oratory speaker during plenary, keynote and oral presentations at national and international level acquired at National and International Scientific Congresses, Europe, Japan, USA and Canada, see Conferences at International Congresses.

## Organisational and management skills

Individual and team work, team-oriented and good communication skills. Research management experience at national and European level. Coordination of people and projects in Romania as project manager and working group manager as well as organization of student's curses, student's laboratory practice at "Dunarea de Jos" University of Galati.

Budgets administration of managed research projects during the Romanian work at Research Institute as well as at University, Dept. of Metallurgy and Materials Science.

Coordination, administration of people, projects and students during temporary work in France, and Italy in the periods mentioned above.

**Management competences** achieved during the period of Management Committee Member of European Projects:

# MANAGEMENT COMMITTEE OF EUROPEAN RESEARCH ACTIONS AND PROJECTS:

COST 521 - Corrosion of Steel in Reinforced Concrete Structures.

http://www.cc-ites.ugal.ro/finalizate.htm

**COST 520 - Biofouling and Materials.** 

http://www.cc-ites.ugal.ro/finalizate.htm

**COST D19 – Chemistry - Chemical Functionality Specific to the Nanometer Scale.** 

http://www.cost.eu/COST\_Actions/cmst/D19?management

Vice-Chair of COST D33 – Nanoscale Electrochemical and Bio-Processes at Solid-Aqueous Interfaces of Industrial Materials, Director of the Project. http://www.cost.eu/COST\_Actions/cmst/D33?management

COST 532 - WG3 Tribochemistry: http://www.cc-ites.ugal.ro/finalizate.htm

COST 533 – Materials – Materials for Improved Wear Resistance of Total Artificial Joints. http://www.cost.eu/COST\_Actions/mpns/533?management COST 636 - Xenobiotics in the Urban Water Cycle.

**Organisation and Coordination skills** achieved as member in International Scientific Committee and Chairman of sessions at different International Congresses and Scientific organisation:

**2007:** Member of International Scientific Committee BIOCORYS 2007 – International Conference on Biocorrosion of Materials. 11-14 June, Paris, France.

**2002:** CHAIRMAN of WP 18 Tribocorrosion - Knowledge dissemination and training, European Federation of Corrosion.

**2003:** Member of International Scientific Committee EUROCORR 2003, Budapest, Hungary.

**2008: Chairman of WG1-WG2 Workshop event COST D33 2008:** COST D33 EU Project: Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials. Period: 6th to 8th November 2008, Bucharest Romania.

**2008: Member of International Scientific Committee for the** Conference on Corrosion and Modern Technologies in the Military. November 5-8, 2008. Bucharest, ROMANIA.

**2009:** Chairman of COST D33 final workshop: Nanoscale Electrochemical and Bioprocesses (Corrosion) at Solid-aqueous Interfaces of Industrial Materials, 13-15 May 2009, Cluj Napoca, Romania.

2009: Member of International Scientific Committee Membru UGALMAT 2009. 2010: Member of International Scientific Committee (Program). CPA 2010: Conference on Corrosion and Corrosion Protection (Conferinta de Coroziune si Protectie Anticoroziva) 2010 - a V-a Conferin Na ional cu Participare

Interna ional de Coroziune i Protec ie Anticoroziv .

**2011: Member of International Scientific Committee MATERIALS 2011, Guimarães, Portugal and** VI International Materials Symposium MATERIAIS 2011, XV meeting of SPM - Sociedade Portuguesa de Materials 18-20 April 2011, Guimarães, Portugal.

**2011: Member of International Scientific Committee**: The 1<sup>st</sup> Edition of the International Conference of Young Researchers. New trends in environmental and materials engineering. May 18 - 20, 2011 in Galati, Romania.

**2011**: **Member of International Scientific Committee:** International workshop research quality in doctoral school, Increased industrial and international visibility (POSDRU 19524) / 13 – 14 July 2011, Galati, Romania.

Chair person for Sessions during International Congresses and Conferences:

-2002: Chairperson of Session "Coatings", at 15<sup>th</sup> International Corrosion Congress, Granada Spain.

	<ul> <li>-1998: Chairperson of Session "Deposition", International Society of Electrochemistry, 49<sup>th</sup> Annual Meeting, Kitakyushu, Japan, September 13-19, 1998.</li> <li>-2003: Chairperson of Session: "<i>Tribocorrosion Aspects of Coatings</i>" Eurocorr 2003.</li> <li>-2008: Co-chair of Session 5 ORAL COMMUNICATIONS. <i>Sfantu Gheorghe</i> Hall (Chair: Dr. Srinivasa RAO, Prof. Lidia BENEA). International Conference on Corrosion and Modern Technologies in the Military. November 5-8, 2008. Bucharest, Romania.</li> <li>-Coordinator of 3th International Workshop on Achievement and Challenges for Functional Surfaces Obtained by Electrochemical Methods – Processing and Characterization, NanoSurf 03/2014 jointly with PERFORM, 23 – 25 July 2014, Galati, România.</li> <li>http://www.cc-ites.ugal.ro/Invitation_Workshop_NanoSurf_032014_&amp;_PERFORM_2014.pdf</li> <li>-Chairperson Session 2, Room D: International Scientific Conference CORROSION 2014, Session 2, 18 – 21 November 2014, Gliwice, Poland. http://www.corrosion2014.polsl.pl/index.php?lang=en</li> <li>-Chairperson: Professor Dr. Ing. Lidia BENEA, Dunarea de Jos University of Galati, Romania. Session Tribochemistry (Tchem). BALKANTRIB'14 8th International Conference on tribology. 30thOct1stNov.2014, Sinaia, Romania. Organized by Balkan Tribological Association.</li> <li>-Coordinator of International Seminar: Scientific Approach in Research</li> </ul>
	<b>Methodology &amp; Universe of Biomaterials.</b> Organized in the frame of Research Project PNII-PCE - New hybrid (inorganic-organic) functionalization of biomaterials (metals alloys) surfaces with functional molecules by electrochemical techniques. Acronym: HyBioElect Contract 10 / 30-08-2013 (2013-2016) - UEFISCDI, 23 of July 2015.
	http://www.hybioelect.ugal.ro Organisation of people and scientific activities at European level: -During 2002 with Prof J. P. Celis (Katholieke Universiteit Leuven) Dr. P. Ponthiaux and F. Wenger (Ecole Centrale Paris), I participate at organization
	and implementation of a new Working Party, WP18 -Tribocorrosion, in the European Federation of Corrosion. -Vice chairman of COST D33 –Chemistry, European action. WG1 Leader and Project manager.
	<ul> <li>Organisation and administration of Socrates Erasmus Programme for academic staff and students mobility and training between Dunarea de Jos University of Galati, Ecole Centrale Paris, Trento University, Katholieke Universiteit Leuven, on the signed bilateral agreements for Materials Science and Engineering Domain.</li> <li>Organisation and administration of people and projects during the EU project as manager titled: "Nano-structured composite coatings obtained by electrodeposition to be used in tribocorrosion systems: processing and properties investigation", accepted in the COST 532 action: Triboscience and TribotechnologY, WG3 Tribochemistry Project M1. The project is collaboration between Romania, France, Belgium, Italy and Hungary and Others European Projects.</li> </ul>
Peer review activity and evaluation	<b>EXPERT EVALUATOR</b> and <b>RAPPORTEUR:</b> European Commission – RDG Science Research and Development, Engineering Science Panel, Chemistry Panel. Identification: FP5: EE19981A24009. Intas Expert: ID-4458.
	FP6: EX2002B002205, FP7: Expert CNCSIS 2004-2015. National Expert Register 2005-2015.
	Scientific reviewer for ISI International Journals: ACS Nano, Corrosion Science, Electrochimica Acta, Solid State Electrochemistry, Surface and Coatings Technology, Scripta Materialia, Journal of Electroanalytical Chemistry, Journal of Biomedical Materials Research: Part B – Applied Biomaterials, Wear, Tribology International, Composites Part B, Materials and Design, Applied Surface Science, Materials Chemistry and Physics, Science and Technology of Advanced Materials.
	<ul> <li>Scientific Reviewer for International Ph.D. Thesis:</li> <li>Dicarboxilic acids as corrosion inhibitors for carbon steel in ground water. Autor Felicia Rajammal Selvarani, Supervisor: S. Rajendran. Universitatea Madurai Kamaraj University – India.</li> <li>Inhibition of corrosion of mild steel in acidic media by some mannich bases. Autor:</li> </ul>

	<ul> <li>Mr. M. ANWAR SATHIQ. Supervisor: Dr. A. Jamal Abdul Nasser. Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020, Tamil Nadu, India.</li> <li>Inhibition of corrosion of mild steel in well water by phenolic compounds. authored by: Mrs. H BENITA SHERINE. Bharathidasan University, Thiruchirappalli - 620 024 – India.</li> <li>Scientific Editorial Board:</li> <li>Member of Scientific Editorial Board : <i>The Annals of "Dunarea de Jos</i>" University of Galati, Fascicle IX. Metallurgy and Materials Science. ISSN 1453-083X.</li> <li>ANALELE UNIVERSIT II "DUN REA DE JOS" DIN GALA I. FASCICULA IX. METALLURGIE I TIIN A MATERIALELOR</li> <li>Member of Scientific Editorial Board ISI Journal: <i>ISRN Corrosion</i>. ISSN: 2090-8903 (Online) doi:10.5402/CORROSION.</li> </ul>
Technical skills and competences	Good command of quality control processes acquired through training. Skills and competences in specialized electrochemical instruments, scanning electron microscopy and ultra high microtopography acquired through work experience abroad.
Computer skills and competences	Very good computer technical skills: Microsoft Office, Word, Excel, PowerPoint, Photo Paint, CorelDraw, Origin, Internet. Art work. Acquired through work, seminars, conferences, etc.
G	
Specific area of activity	<ul> <li>TEACHING AND RESEARCH</li> <li>Chemistry</li> <li>Electrochemical studies and methods. Chemical technologies. Surface Chemistry.</li> <li>Corrosion and wear corrosion (tribocorrosion) of materials (mechanisms and kinetics).</li> <li>Fundamentals of Metal Electrodeposition,</li> <li>Mico and Nano Structued Composite Coatings.</li> <li>Research on surface modifications technologies to improve the corrosion and wear resistance of materials.</li> <li>Research on environment compatibility of triboreactive materials and lubricants.</li> <li>Development and understating of surface reactivity.</li> <li>Research on environment compatibility of triboreactive materials and lubricants.</li> <li>Development and understating of surface reactivity.</li> <li>Research on lubricants and additives.</li> <li>Electro analytical methods of investigations.</li> <li>Kinetic and mechanism of materials (metallic, coatings) degradation by combined action of corrosion and wear= tribocorrosion.</li> <li>Materials Science and Engineering</li> <li>-Nano and micro structured composite coatings, complex degradation, biomaterials passive state, corrosion, kinetic, tribocorrosion.</li> <li>-Surface treatments by electrodeposition of metals, alloys and composites to improve the corrosion and wear resistance of materials.</li> <li>-Degradation of Materials by Corrosion and wear corrosion, Tribocorrosion, Biocorrosion.</li> <li>-New materials obtained by co-deposition of dispersed particles with metals and alloys to obtain micro and nano structured coatings.</li> <li>-Nanomaterials.</li> <li>-Electrocatelytic activity of metal matrix composite coatings obtained by electrocodeposition.</li> <li>-New materials obtained by co-depositive materials for tooth structures.</li> <li>Manomaterial.</li> <li>-Electrocatelytic activity of metal matrix composite coatings obtained by electrocodeposition.</li> <li>-General and Inorganic Chemistry.</li> <li>-Industrial Wastewater treatments.</li> <li>-Resin-modified glass ionomer restorative materials for</li></ul>
Driving licence	Category B
Driving licence	Category B
Member of	MEMBERSHIP: International Society of Electrochemistry (ISE).

professional associations	<ul> <li>ECS - The Electrochemical Society Inc. (ECS USA). CEFRACOR France. Royal Society of Chemistry (RSC). Romanian Society of Chemistry.</li> <li>CHAIRMAN (2002-2004) and Member- of WP 18 Tribocorrosion – Action: Knowledge dissemination and training, European Federation of Corrosion.</li> <li>Vice Chair of COST D33 - Chemistry.</li> <li>11 Prize and Diplomas at Scientific National Conferences for scientific and technical presentations.</li> </ul>
Special CRYSTAL AWARD and CERTIFICATE SGEM 2018	Awarded by Scientific Chairmen of the SGEM 2018 Conference as Best presenters awarded with special CRYSTAL AWARD and CERTIFICATE! of 18th International Multidisciplinary Scientific GeoConference SGEM 2018, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria.
DIPLOMA of SILVER MEDAL 2017	<b>DIPLOMA of SILVER MEDAL, awarded in 2017 by EUROINVENT 2017</b> - EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION. for invention patent: Co/nano-ZrO <sub>2</sub> functional surfaces obtained by electrodeposition, authored by Lidia Benea and Florentina Sorcaru.
Anghel Saligny Diploma of Excellence 2017	ANGHEL SALIGNY DIPLOMA for excellence results as university professor position. Awarded in 2017 by Engineering Faculty from Dun rea de Jos University of Galati.
Excellence Diploma 2016	EXCELLENCE DIPLOMA for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncu i-Humbert Curien". Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI).
Anghel Saligny Diploma 2016	ANGHEL SALIGNY DIPLOMA for excellence results as university professor position. Awarded in 2015 by Engineering Faculty from Dun rea de Jos University of Galati.
ACS Certificate of Appreciation 2011	CERTIFICATE OF APPRECIATION for valuable contribution and dedicated service in the peer review of manuscripts submitted to ACS Journals. Awarded in 2011 by American Chemical Society (ACS) Publishing Group.
Excellence Diploma 2010	Excellence Diploma for Research Activity in Corrosion and Corrosion Protection.
Page 11/17 - Curriculum vitae o	f Prof. Univ. Dr. Lidia BENEA Lidia

	Awarded in 2010 by: Technical University of Cluj –Napoca and Industrial Factory BETAK S.A.
Specific Achievements Scientific Results	<ul> <li>Published books and / or participation at Chapters of Books : 23. Editorial work for books and DVD proceeding: 5. Total published papers in National and Internationals Journals: 267. -Total scientific papers published in ISI (Journals + Proceeding Volumes): 85.</li> <li>Scientific papers published in ISI Thomson Reuters Journals: 47.</li> <li>Cumulative impact factor (I.F.) = 97. 146.</li> <li>Scientific papers published in BDI journals: 62.</li> <li>Scientific papers published in others national journals and Conference Proceedings: 120.</li> <li>Scientific presented papers as Invited Lectures, Keynote, Oral and Posters at International and National Conferences: 325 (118 during 2014- 2018).</li> <li>65 scientific research projects, as director and / or co - worker, on metal, alloy and composite coating by electroplating technologies applied to technical products, mechanisms and kinetics of corrosion and tribocorrosion processes, chemical analyses, development of new products, materials and coatings.</li> <li>Author of 11 invention patents and 35 innovators in the fields of applied electrochemistry, materials engineering new materials, coatings and corrosion protection).</li> <li>2016: 1 Article published in TOP 1 Journals in the research doman: MATERIALS SCIENCE, COATINGS &amp; FILMS, after AIS (Classification PRECISI-UEFISDCI-Romanian Ministry of Education and Research).</li> </ul>
Scientific and academic international Recognition Hirsch Index and citations	Academic and scientific responsibilities: ●Director of Doctoral (Ph.D.) School: Fundamentals and Engineering Sciences (SFI) at Dunarea de Jos University of Galati. Rector Decision: 2857 / 26-10-2017.
	<ul> <li>Member of the National Council for Attesting Titles, Diplomas and Certificates Universitaires (CNATDCU), Ministry of National Education, Romania for the period 2016-2020, Materials Engineering Committee, Ministry Order: OMENCS nr. 4.106/10.06.2016. http://www.edu.ro/index.php/articles/24513</li> <li>Director of Research Center Interfaces - Tribocorrosion and Electrochemical Systems (CC-ITES) at "Dun rea de Jos" University of Gala i (institutional accreditation 2007). www.cc-ites.ugal.ro</li> </ul>
	•Coordinator of Erasmus Programmes with Ecole Centrale Paris - France, Katholiekke Universiteit Leuvwn - Belgium, Duisburg - Essen University - Germany, Trento University - Italy,
	<ul> <li>CHAIRMAN of WP 18 Tribocorrosion – Action: Knowledge dissemination and training, European Federation of Corrosion (2002-2004).</li> <li>VICE CHAIR OF COST D33 - CHEMISTRY - Chemistry to the nanoscale.</li> <li>10 PRIZE AND DIPLOMAS at Scientific National Conferences for scientific and technical presentations.</li> <li>40 Invited Conferences at International Scientific Symposiums and Congresses.</li> <li>TOP 25/2007 articles, 2007 TOP Cited Articles within the journal: Solid State Ionics.</li> <li>Preparation and investigation of nanostructured SiC-nickel layers by electrodeposition.</li> </ul>

	http://top25.sciencedirect.com/subject/physics-and-astronomy/21/journal/solid- state-ionics/01672738/archive/11/
	Hirsch Index and citations
	<ul> <li>Citations in international ISI Journals: (Benea, L*, or Benea L*, or Lidia Benea):</li> <li>● 1824 Citations of ISI published articles in ISI Journals in Google Scholar:</li> </ul>
	$h_{\scriptscriptstyle BeneaLidia}^{\scriptscriptstyle GoogleSch} = 19$
	https://scholar.google.ro/citations?user=rSniQ6sAAAAJ&hl=en
	• 1332 Citations of ISI published articles in ISI Journals in SCOPUS: Scopus – Science Direct: SCOPUS ID: 55954358700
	$h_{BeneaLidia}^{Scopus} = 18$
	<ul> <li>https://www.scopus.com/authid/detail.uri?authorId=55954358700</li> <li>1280 Citations of ISI published articles in ISI Journals in ISI Web of Knowledge:</li> </ul>
	$h_{\text{Beneal idia}}^{\text{WebofKn}} = 20$
	http://apps.webofknowledge.com/CitationReport.do?product=UA&search_mode=Citatio nReport&SID=D482YHrKjojPrpJBjq2&page=1&cr_pqid=2&viewType=summary
	Researcher ID web page: http://www.researcherid.com/rid/B-9653-2011
	ORCID: http://orcid.org/0000-0003-1551-3960
2016	DESIGNED by Thomson Reuters as a 2016 Highly Cited Researcher
2016 Highly Cited Researcher	<b>DESIGNED</b> by Thomson Reuters as a 2016 Highly Cited Researcher because my work has been identified as being among the most valuable and significant in the field. Very few researchers earn this distinction – writing the greatest number of reports, officially designated by Essential Science Indicators as Highly Cited Papers. In addition, these reports rank among the top 1% most cited works for their subject field and year of publication, earning them the mark of exceptional impact.

October 2018

Prof. Univ. Dr. (Ph.D.) Lidia BENEA

Special CRYSTAL AWARD and CERTIFICATE SGEM 2018: Awarded by Scientific Chairmen of the SGEM 2018 Conference as Best presenters awarded with special CRYSTAL AWARD and CERTIFICATE! of 18th International Multidisciplinary Scientific GeoConference SGEM 2018, 24. Section Micro and Nano Technologies, 30 June - 9 July, 2018, Albena, Bulgaria.

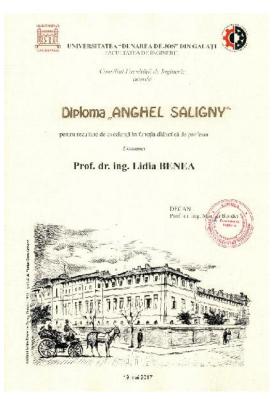


## **SILVER MEDAIL - DIPLOMA**

for invention: Co/nano-ZrO<sub>2</sub> functional surfaces obtained by electrodeposition. Awarded in 2017 by EUROINVENT 2017 - EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION.



## ANGHEL SALIGNY - EXCELLENCE DIPLOMA for excellence results as university professor position. Awarded in 2017 by Engineering Faculty from Dun rea de Jos University of Galati.

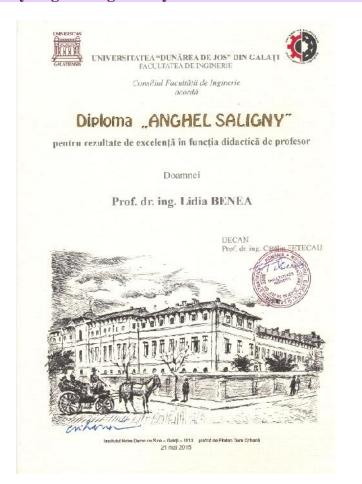


EXCELLENCE DIPLOMA for Scientific and Technological Research Activity done in the frame of Bilateral cooperation Romania - France, Framework Programme "Brâncu i-Humbert Curien".

Awarded in 2016 by: France Embassy in Romania and Romanian National Authority for Research and Innovation (ANCSI)



## ANGHEL SALIGNY DIPLOMA for excellence results as university professor position. Awarded in 2015 by Engineering Faculty from Dun rea de Jos University of Galati.



CERTIFICATE OF APPRECIATION for valuable contribution and dedicated service in the peer review of manuscripts submitted to ACS Journals. Awarded in 2011 by American Chemical Society (ACS) Publishing Group



#### **Excellence Diploma 2010**

acordat de Universitatea Tehnic Cluj Napoca i Societatea BETAK pentru activitatea deosebit în domeniul Coroziunii i Protec iei Anticorozive. Excellence Diploma for Research Activity in Corrosion and Corrosion Protection. Awarded by: Technical University of Cluj –Napoca and Industrial Factory BETAK S.A.



## THOMSON REUTERS - 2016 HIGHLY CITED RESEARCHERS.



October 2018

Prof. Univ. Dr. (Ph.D.) Lidia BENEA

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