

Europass Curriculum Vitae



PERSONAL INFORMATION	
First name(s) / Surname(s)	Maria GAVRILESCU
Address(es)	"Gheorghe Asachi" Technical University of Iasi, Romania, 73 Prof.Dr.Docent Dimitrie Mangeron Street, 700050, IASI, ROMANIA
Telephone(s)	+40-232-278680 ext. 2137
Fax(es)	+40-232-271311
E-mail	mgav@tuiasi.ro, mgav_ro@yahoo.com
Nationality	Romanian
POSITION	Full Professor, Gheorghe Asachi Technical University of Iasi, Romania "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection
WORK EXPERIENCE	
Dates	1 October 2000 - present
Occupation or position held	Professor
Name and address of employer	"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management
Main activities and responsibilities	 teaching activity at undergraduate, master, doctoral, postgraduate programs (lectures, tutorials, seminars and projects); scientific research in several areas, such as: <i>Chemical and Biological Process Engineering, Environmental Engineering, Biotechnologies in Environmental Protection, Ecological and Human Health Risks, Source Reduction and Waste Minimization</i> (waste treatment, valorization and management, sustainable industrial production, ecodesign, integrated pollution prevention and control); director of national research grants and member in the research teams of national and international grants management and completion of research projects PhD supervisor in <i>Chemical engineering</i> (2002-2013) and <i>Environmental engineering</i> (since 2009); managing Editor / Editor-in-Chief of <i>Environmental Engineering and Management Journal</i>, included in international databases from beginning of publication (2002), ranked as ISI journal based on ISI impact factor, from 2007; Editor in-chief of <i>Procedia-Environmental Science, Engineering and Management</i>, included in international databases Series Editor of national research programs launched by the Ministry of Education and Research (CNCSIS, PN-I, PN-II, Calist etc.); expert evaluator of the European Commission for research projects in FP7, Horizon 2020 programs; member of the experts group of <i>European Federation of Biotechnology</i> Section <i>Environmental Biotechnology</i> scientific reviewer of numerous national and international journals; organization and coordination of students' scientific sessions; coordination of the activity of scientific student groups; organizer of national and international scientific conferences and member of scientific committees
	 member of the board of the Doctoral School of the Faculty of Chemical Engineering and Environmental Protection director of the department of scientific research / coordinator of the Research Centre for Environmental Engineering and Impact Assessment of the "Gheorghe Asachi" Technical University of Iasi, accredited by CNCSIS member of the Council of the Department of Engineering and Environmental Management member of the Faculty Council and University Senate; vice-dean of the Faculty Council, responsible with scientific research member of the Commission for quality of the Senate of the "Gheorghe Asachi" Technical University of Iasi member of the Commission for ethics of the Senate of the "Gheorghe Asachi" Technical University of Iasi member of the Commission for international relations, university image and honorary titles of the Senate of the "Gheorghe Asachi" Technical University of Iasi
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Itsi - elaboration and development of materials of common academic interest (for the accestitation of undergraduate and master specializations by ARADS, accreditation by CNATDCU of the doctoral school in <i>Environmental Engineering</i> , research reports et al.) Name and address of employer "Gheorghe Asacht" Technical University of Ieal, Romania (Faculty of Chemical Engineering, research reports, etc.) Occupation or position hed 1 October 1999 - 30 September 2000 Occupation or position hed Associate Professor Main adultiss and responsibilities - technical Engineering, and Biological Process Engineering, Environmental Engintering, environmental Enginetenti difference and meterination		theses member/president of the committees for license/diploma exa member of the committee for evaluation and defense of diss member in the committee for admittance of the faculty	ams vertation theses
Rame and address of employse "Cheorghe Assch" Technical Engineering and Environmental Protection – Department of Frivmennial Engineering and Managementh, 73 ProcD.D.e., Dinitie Mangeron Street, 700050, Lesi, Romania Dates 1 October 1998 - 30 September 2000 Accupation or position her Associate Protescon Main activities and responsibilities 1 exching activity within undergraduate, master and postgraduate programs (courses, tutotals, seminors, projects); - research activities in Chemical and Biological Process Engineering, Environmental Engineering, Biotechnology Froncomental Biotechnology - affector of rational research grants - management and completion of rational grants - expert evaluator CNCSIS, ANST1; - respart activities in Chemical and Biological Process Engineering, Environmental Engineering, Environmental Engineering, Environmental Engineering, and Environmental Engineering, and Environmental Protection, and Research (CNCSIS, ANST1); - organizing and completion of rational grants - expert evaluator CNCSIS, ANST1; - expert evaluator for national research programs learnsheb by the Ministry of Education and Research (CNCSIS, ANST1); - organizing and completion of rational grants - expert evaluator and Research (CNCSIS, ANST1); - organizing and completion of rational grants - expert evaluator and Research (CNCSIS, ANST1); - organizing and completion of rational grants - expert evaluator and Research (CNCSIS, ANST1); - organizing and completion and international scientific conferences and member of Scientific Control (Scientific Conference); - member of the Council of the Depariment of Engineering and Environmental Engineering and Impact - evaluation of factor and the department of scientific conferences and member of Scientific Control (Scientific Conference); - member o		lasi - elaboration and development of materials of common acade	mic interest (for the accreditation of undergraduate and
Department of Environmental Engineering and Management), 73 Prof.Dr. Doc. Dimitrie Maingeron Street, 700050. Iasi, Romania Dates: 1 October 1998 - 30 September 2000 Associate Professor			of the doctoral school in Environmental Engineering,
Occupation or position held Associate Professor Main activities and responsibilities Associate Professor Main activities and responsibilities Associate Professor Bitachonology/Environmental Biological Process Engineering, Environmental Engineering, Bitachonology	Name and address of employer	Department of Environmental Engineering and Management), 7	Ity of Chemical Engineering and Environmental Protection – 3 Prof.Dr.Doc. Dimitrie Mangeron Street, 700050, Iasi,
Occupation or position held Associate Professor Main activities and responsibilities Associate Professor Main activities and responsibilities Associate Professor Bitachonology/Environmental Biological Process Engineering, Environmental Engineering, Bitachonology			
Main activities and responsibilities - rescaring activity with undergraduate, maylor and postgraduate programs (courses, Motrials, seminars, projects); - rescaring activity with undergraduate, maylor and postgraduate programs (courses, Motrials, seminars, projects); - rescaring activity with undergraduate, maylor and postgraduate programs (courses, Motrials, seminars, projects); - rescaring activity with undergraduate, maylor and postgraduate programs (courses, Motrials, seminars, projects); - rescaring activity with undergraduate, maylor and postgraduate programs (courses, Motrials, Seminars, projects); - organizing and coordinating subjects - and control and postgraduate solution; - and control and postgraduate programs (courses, Motrials, Seminars, Projects); - organizing and coordinating subjects - and coordination and envertimentation assessment or and envertimental activity of social scale scal	Dates	1 October 1998 - 30 September 2000	
- research activities in Chemical and Biological Process Engineering, Environmental Engineering, BiotechnologyEnvironmental Biotechnology - director of national research grants - management and completion of national grants-expert evaluator CNCSIS, ANSTI: - opert evaluator for national research grants - organizer of national research grants - organizer of national and infernational scientific contenences and member of scientific committees: - coordination of the activity of scientific scuents groups; - organizer of national and infernational scientific contenences and member of scientific research (CNCSIS), ANSTI) - organizer of national and infernational scientific contenences and member of scientific research and the department of scientific research and the Chemical Engineering and Environmental Management - officient of the department of tengineering and Environmental Management - officient of the committees for the evaluation of doctoral projects and reports, and committees for the evaluation of doctoral theses: - reviewer for national and international journals. * Cheorghe Asachi' Technical University of lasi, Romania (Faculty of Chemical Engineering – Department of Environmental Engineering – Chemical and International journals. * Occupation or position hed Senir Scientis II (equivalent to Associate Professor) - reviewer for national and international journals.	Occupation or position held	Associate Professor	
 organizer of national and international scientific conferences and member of scientific committees; coordination for diploma projects and master theses (day) and distance learning programs); member of the Council of the Department of Engineering and Environmental Management director of the department of scientific research of the Research Centre for Environmental Engineering and Impact Assessment of the Technical Inversity (accredite doy CNCSIS) member of the committees for graduation exams and dissertation exams (daily and distance learning programs); member of faculty admissions committee; member of faculty admissions committee; member in commissions for the evaluation of doctoral projects and reports, and committees for graduation exams and dissertation exams (daily and distance learning programs); member of faculty admissions committee; member of nacit darkingsions committee; reviewer for national and international journals. <i>Cheorghe Asachi</i> Technical University of lasi, Romania (Faculty of Chemical Engineering – Department of Environmental Engineering, 71 Mangeron Bd., 200050, lasi, Romania Disters Occupation or position held Serior Scientist II (equivalent to Associate Professor) head of the research group <i>Engineering of Biotechnological Processes:</i> ocordination and development of laboratory, pilot and industrial-scale research studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional bioreactors and equipment: development and management of research projects: ordination and development of the Phortonerial Engineering of the <i>Cheorghe Asachi</i> Technical University of lasi, Departmental Engineering Name and address of employer Name and address of e	Main activities and responsibilities	 research activities in Chemical and Biological Process Engine Biotechnology/Environmental Biotechnology director of national research grants management and completion of national grants- expert evalua expert evaluator for national research programs launched by the organizing and coordinating students' scientific sessions; 	ering, Environmental Engineering,
 conditionator for diploma projects and master theses (daily and distance learning programs): member of the Council of the Department of Engineering and Environmental Management director of the department of scientific research of the Research Centre for Environmental Engineering and Impact Assessment of the Technical University (Cheorghe Asachi' Cheorghe Asachi' Cheorghe Asachi' Cancellited by CNCSIS) member of faculty admissions committee: 			and member of scientific committees:
 - director of the department of scientific research of the Research Center for Environmental Engineering and Impact Assessment of the Technical University "Ghoorghe Asacht" University (accredited by CNCSIS) - member of the committees for graduation exams and dissertation exams (daily and distance learning programs); - member of faculty admissions committee: - member of carculy admissions committee: - member of carculy admissions committee: - reviewer for national and international journals. Yener for national and international journals. ' Cheorghe Asacht' Technical University of Iasi, Romania Dates 1st March 1996- 30th September1998 Occupation or position held Senior Scientist II (equivalent to Associate Professor) - head of the research group Engineering of Biotechnological Processes; - coordination and development of taboratory, pilot and industrial-scale research studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional biorecacciacle research studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional biorecacciaccial eresearch studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional biorecacciaccial eresearch studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional biorecacciaccial eresearch studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional biorecacciaccial eresearch studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional biorecacciacle research studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional biorecaccial research studies on biosynthesis and responsibilities - head of the r			
Assessment of the Technical University "Cheorghe Asach" University (accredited by CNCSIS) - member of the committees for graduation exams and dissertation exams (daily and distance learning programs): - member in commissions for the evaluation of doctoral projects and reports, and committees for the evaluation of doctoral theses: - reviewer for national and international journals. 'Cheorghe Asach' Technical University of Iasi, Romania (Faculty of Chemical Engineering – Department of Environmental Engineering), 71 Mangeron Bd, 700050, Iasi, Romania Cocupation or position held Senior Scientist II (equivalent to Associate Professor) - head of the research group <i>Engineering of Biotechnological Processes</i> : - development and public defense of the PhD Thesis: <i>Study on the flow of heterogeneous systems gas-lift reactors</i> (June, 1997); - studies, research and technical assistance for implementing new biosynthesis technologies (erythromycin, penicillin, vitamin B12: streptomycin); - teaching activities as associate professor at the Faculty of Chemical Engineering of the <i>Gheorghe Asachi</i> Technical University of Iasi, Department of Environmental Engineering Name and address of employer Dates Date		- member of the Council of the Department of Engineering and	Environmental Management
- member of the committees for graduation exams and dissertation exams (daily and distance learning programs): - member of faculty admissions committee: - member in commissions for the evaluation of doctoral projects and reports, and committees for the evaluation of doctoral theses: - reviewer for national and international journals. ' Cheorghe Asachi' Technical University of Iasi, Romania (Faculty of Chemical Engineering – Department of Environmental Engineering), 71 Mangeron Bd., 700050, Iasi, Romania Dates Dates Cocupation or position held Senior Scientist II (equivalent to Associate Professor) - head of the research group Engineering of Biotechnological Processes: - coordination and development of laboratory, pilot and industrial-scale research studies on biosynthesis of antibiotics, (bio) separations, (bio) purification, unconventional bioreactors and equipment: - development and public defense of the PhD Thesis: Study on the flow of heterogeneous systems gas-lift reactors (June, 1997); - studies, research and technical assistance for implementing new biosynthesis technologies (erythromycin, penicillin, vitamin B12: stepformycin); - teaching activities as associate professor at the Faculty of Chemical Engineering of the Gheorghe Asachi Technical University of Iasi, Department of Environmental Engineering Name and address of employer Chemical-Pharmaceulical Research Institute Bucharest - Research Center for Antibiotics, Iasi, 1 Valea Lupului Road, Iasi, Romania			
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 - teaching activities as associate professor at the Faculty of Chemical Engineering of the <i>Gheorghe Asachi</i> Technical University of Iasi, Department of Environmental Engineering Name and address of employer Chemical-Pharmaceutical Research Institute Bucharest - Research Center for Antibiotics, Iasi, 1 Valea Lupului Road, Iasi, Romania Dates Dates Occupation or position held Main activities and responsibilities - head of the research group <i>Engineering of Biotechnological Processes</i>; - coordination and development of fundamental and applicative studies and research on momentum, heat and mass transfer in bioreactors at laboratory, pilot and industrial scales; - development and management of research projects; 		- studies, research and technical assistance for implementing n	ew biosynthesis technologies (erythromycin, penicillin,
Romania Dates 1st November 1990- 29th February 1996 Occupation or position held Senior Scientist III (equivalent to Lecturer) Main activities and responsibilities - head of the research group Engineering of Biotechnological Processes; - coordination and development of fundamental and applicative studies and research on momentum, heat and mass transfer in bioreactors at laboratory, pilot and industrial scales; - development and management of research projects;		- teaching activities as associate professor at the Faculty of	f Chemical Engineering of the Gheorghe Asachi Technical
Occupation or position held Senior Scientist III (equivalent to Lecturer) Main activities and responsibilities - head of the research group <i>Engineering of Biotechnological Processes;</i> - coordination and development of fundamental and applicative studies and research on momentum, heat and mass transfer in bioreactors at laboratory, pilot and industrial scales; - development and management of research projects;	Name and address of employer		earch Center for Antibiotics, Iasi, 1 Valea Lupului Road, Iasi,
Occupation or position held Senior Scientist III (equivalent to Lecturer) Main activities and responsibilities - head of the research group <i>Engineering of Biotechnological Processes;</i> - coordination and development of fundamental and applicative studies and research on momentum, heat and mass transfer in bioreactors at laboratory, pilot and industrial scales; - development and management of research projects;			
Main activities and responsibilities - head of the research group <i>Engineering of Biotechnological Processes;</i> - coordination and development of fundamental and applicative studies and research on momentum, heat and mass transfer in bioreactors at laboratory, pilot and industrial scales; - development and management of research projects;	Dates	1st November 1990- 29th February 1996	
 - coordination and development of fundamental and applicative studies and research on momentum, heat and mass transfer in bioreactors at laboratory, pilot and industrial scales; - development and management of research projects; 	Occupation or position held	Senior Scientist III (equivalent to Lecturer)	
Page 2/13	Main activities and responsibilities	- coordination and development of fundamental and applicative in bioreactors at laboratory, pilot and industrial scales;	
	Π	 ne 2/13	Curriculum vitas of Maria Cavrilesou



Name and address of employer	 studies on the performance (mixing time, dispersion, oxygen transfer, specific energy consumption etc.) of conventional and unconventional (bubble columns, gas-lift contactors), respectively, in heterogeneous conditions (gas-liquid-solid systems), applied in antibiotic biosyntheses; scale-up of bioreactors and bioprocesses; studies on the rheology of biosynthesis fluids; studies, research and technical assistance for implementing new biosynthesis technologies (erythromycin, penicillin, vitamin B12; streptomycin); studies, research for improving biosynthesis and separation/purification yields through laboratory selection and ingredient dosage in biosynthesis liquids.
Dates	1 st June 1988 – 31 October 1990
Occupation or position held	Scientific Researcher (equivalent to Assistant Professor)
Main activities and responsibilities	- head of the research group Engineering of Biotechnological Processes;
	 - Inead of the research gloup Engineering of Biotechnological Processes, - development and management of research projects; - micro-scale production; - research on momentum, heat and mass transfer in bioreactors at laboratory, pilot and industrial scales, in non-Newtonian liquids (antibiotic biosynthesis liquids); - study of conventional and unconventional bioreactors applied for antibiotic biosynthesis; - study the correlation between oxygen demand of aerobic microorganisms and growth conditions in laboratory, pilot and industrial scale; - studies and research within research contracts on optimization of technologies for the production of biosynthetic and semisynthetic ryfamicins (laboratory, pilot and industrial scales); - studies and research within research contracts on optimization of the technology for Penicillin G biosynthesis (pilot and industrial scales).
Name and address of employer	Chemical-Pharmaceutical Research Institute Bucharest - Research Center for Antibiotics, Iasi, 1 Valea Lupului Road, Iasi, Romania
Deter	th August 1002 - 21 May 1000
Dates Occupation or position held	4 th August 1983 - 31 May 1988 Chemical Engineer
Main activities and responsibilities	 research within the group Engineering of Biotechnological Processes; methods for determining the oxygen demand of aerobic microorganisms in antibiotic biosynthesis in relation to dissolved oxygen levels; screening of methods for the characterization and comparison of bioreactor performance; studies and research within research contracts on improving and optimization of technologies for the production of biosynthetic and semisynthetic ryfamicins (biosynthesis, separation, purification, conditioning, chemical stability studies) (laboratory, pilot and industrial scales).
Name and address of employer	Chemical-Pharmaceutical Research Institute Bucharest - Research Center for Antibiotics, Iasi, 1 Valea Lupului Road, Iasi, Romania
Dates	1981-1983
Occupation or position held	Chemical Engineer
Main activities and responsibilities	Head of working formation
Name and address of employer	Integrated Artificial Yarns Factory, Braila, Romania and Integrated Factory for Synthetic Fibers Iasi, Romania
EDUCATION, TRAINING, TEACHING AND EXCHANGES	
Dates	2009 - International Training on Concepts in Environmental Science and Engineering, Iasi, Romania, 1-4 iunie 2009
Activities developed, title/qualification awarded	Training in engineering and environmental management, estimation and management of environmental and human health risks / Certificate of completion
Name and type of organization	Michigan State University, Institute of International Health and Fogarty International Center Program on Environmental Health, Training and Research in Environmental Health in the Balkans (TREHB)



Dates	2005 - E-learning: formation des formateurs			
Activities developed, title/qualification	Trainer in learning activities platform e-learning (development in C++, Dreamweaver, Microsoft Frontpage)			
Name and type of organization	University Henry Poincare Nancy, Association of Francophone Universities and Gheorghe Asachi Technical University			
Dates	2005 - Eco-certification in tourism			
Activities developed, title/qualification	Postgraduate course on Eco-tourism certification/Certificate of attending			
Name and type of organization	Department of Environmental Engineering and Management – <i>Gheorghe Asachi</i> Technical University Iasi, Center for Research in Tourism <i>Bucovina</i> , Campulung Moldovenesc and International Institute of Industrial Environment Economics, Lund, Sweden			
Dates	2004 - How to Manage European Funds			
Activities developed, title/qualification	Intensive course / Certificate of attending			
Name and type of organization	APART Project School and Gheorghe Asachi Technical University lasi			
Dates	2004 - Sustainable Tourism, Certification, Ecolabelling			
Activities developed, title/qualification	Intensive course / Certificate of attending			
Name and type of organisation	Department of Environmental Engineering and Management – <i>Gheorghe Asachi</i> Technical University lasi and International Institute of Industrial Environment Economics, Lund, Sweden			
Dates	2004 - Ecodesign and Product Innovation			
Activities developed, title/qualification	Intensive course / Certificate of attending			
Name and type of organisation	Department of Environmental Engineering and Management – <i>Gheorghe Asachi</i> Technical University lasi and International Institute of Industrial Environment Economics, Lund, Sweden			
Dates	2004 - Waste Management			
Activities developed, title/qualification	Intensive course / Certificate of attending			
Name and type of organisation	Department of Environmental Engineering and Management – <i>Gheorghe Asachi</i> Technical University lasi and International Institute of Industrial Environment Economics, Lund, Sweden			
Dates	2004 - Environmental Management Systems Audit: ISO 140001-1996			
Activities developed, title/qualification	Intensive Course/Certificate of Internal Auditor in Environmental Management Systems according to ISO 14001:1996, No. 0034, 2004.			
Name and type of organisation	Chamber of Commerce lasi and SGS Belgium-Romania			
Dates	2003 - How to Apply with Success in the Sixth Framework Programme (FP6)			
Activities developed, title/qualification	Intensive course/Certificate of attending			
Name and type of organization	Romanian Ministry of Education-UEFISCSU and Hyperion Ltd. Ireland			
Dates	2003 - Exchanges on Curricula			
Activities developed, title/qualification	Documentation visit and experience exchange			
Name and type of organization	International Institute of Industrial Environment Economics, Lund, Sweden			



Dates	June - July 2000				
Activities developed, title/qualification	Open competition for Full Professor position (Process Engineering, Bases of Technological Systems) / Professor				
Name and type of organization	<i>Gheorghe Asachi</i> Technical University of Iasi, Romania (Faculty of Chemical Engineering and Environmental Protection - Department of Environmental Engineering and Management), 73 Prof.Dr.Doc. Dimitrie Mangeron Street, 700050, Iasi, Romania				
Dates	May - June 1998				
Activities developed, title/qualification	Open competition for Associate Professor position (<i>Process Engineering, Bases of Technological Systems</i>) / Associate Professor				
Name and type of organization	Gheorghe Asachi Technical University of Iasi, Romania (Faculty of Chemical Engineering – Department of Environmental Engineering), 71 Mangeron Bd., 700050, Iasi, Romania				
Dates	1989 – 1997 - PhD Student				
Activities developed, title/qualification	PhD degree in Chemical Engineering Thesis: "Study on the flow of heterogeneous systems in gas-lift reactors", supervisor Prof. dr. doc. eng. Radu Z. Tudose, Member of the Romanian Academy (public defense: June 1997), PhD title awarded by the Romanian Ministry of Education, <i>Doctor Engineer</i> diploma, Seria P, Nr. 0006233 din 10/12/1997 (972)				
Name and type of organization	"Gheorghe Asachi" Technical University of Iasi, Romania				
Dates	February 1996				
Activities developed, title/qualification	Competition/ Certification as Senior Scientist, 2 nd degree				
Name and type of organization	Chemical-Pharmaceutical Research Institute, Bucharest, Romania				
Dates	October 1990				
Activities developed, title/qualification	Competition/ Certification as Senior Scientist, 3 rd degree				
Name and type of organization	Chemical-Pharmaceutical Research Institute, Bucharest, Romania				
Dates	June 1988				
Activities developed, title/qualification	Competition/ Certification as Scientific Researcher				
Name and type of organization	Chemical-Pharmaceutical Research Institute, Bucharest, Romania				
Dates	1987 - 1988, Postgraduate training on development of minicomputer programs and products (FELIX-Mini)				
Activities developed, title/qualification	Cobol programming language, database management/ Certificate of graduation as Developer of software for minicomputers, Series A, No. 02270, din 01/08/1988 (5)				
Name and type of organization	Computers Center, Iasi, Romania				
Dates	1986 – 1987, Postgraduate Intensive Course of English Language				
Activities developed, title/qualification	English Language and Literature/ Postgraduation Diploma Series B, No. 1206, din 20/04/1988 (206)				
Name and type of organisation	"Al.I. Cuza" University of lasi, Faculty of Philology, Iaşi, Romania				
Dates	1986 – 1987, Intensive course of Value Analysis				
Activities developed, title/qualification	Certificate of attendance				
Name and type of organization	Gheorghe Asachi Polytechnic Institute of Iasi, Faculty of Industrial Chemistry, Iasi, Romania				



Dates	1986 – 1987, Intensive course of Process Optimization in Chemical Industry										
Activities developed, title/qualification	Certificate of attendance										
Name and type of organisation	Gheorgl	Gheorghe Asachi Polytechnic Institute of Iasi, Faculty of Industrial Chemistry, Iasi, Romania									
Deter	1077 1	001									
Dates	1977 - 1			Distant				1		`	d
Activities developed, title/qualification	Ū			•	a as Chemical Eng	-			0, 0	,ompc	ounas,
Name and type of organization	Gheorgl	Gheorghe Asachi Polytechnic Institute of Iasi, Faculty of Chemical Technology, Iasi, Romania									
PERSONAL SKILLS AND COMPETENCES											
Mother tongue(s)	Romani	Demonion									
Other language(s)	Koman	un									
Self-assessment			Un	derstan	dina		Spe	eaking			Writing
European level (*)			Listening	aorstarr	Reading	Spc	ken interaction	-	oken production		
English		C2	High experience	C2	High experience	C2	High experience	C2	High experience	C2	High experience
French		B2	Medium experience	B2	Medium experience	B2	Medium experience	B1	Medium experience	B2	Medium experience
German		A2	Basic knowledge	A2	Basic knowledge	A2	Basic knowledge	A1	Basic knowledge	A2	Basic knowledge
	(*) <u>Com</u>	mon E	European Fran	nework c	of Reference for La	nguage.	<u>s</u>	1	1	11-	
SOCIAL SKILLS AND COMPETENCES					on with other orgar actions, teaching			elations	, mediation in co	onflict	situations,
SCIENTIFIC, TECHNICAL/RESEARCH AND ORGANIZATIONAL SKILLS AND COMPETENCES	of co-wo	Experience in teaching, theoretical and practical training, projects / contracts management, team management, motivation of co-workers, diplomacy in interpersonal relations: Contexts in which the skills were acquired:									
	•	TE	ACHING, TRA	AINING A	AND EDUCATION						
	Underg	radua	te studies:								
	Courses	and	applications (s	eminars	, laboratories, proje	ects):					
	 Basis of Technological Systems, specializations: Technology and Biotechnology of Environmental Protection/Engineering and Environmental Protection in Industry (Environmental Engineering field of study) and Biochemical Engineering Protection (Chemical Engineering field of study) Analysis and Synthesis of Technological Processes, specialization: Technology and Biotechnology of Environmental Protection/Engineering and Environmental Protection in Industry (Environmental Engineering field of study) Sources, Processes and Pollutant Products, specialization: Technology and Biotechnology of Environmental Protection/Engineering and Environmental Protection in Industry (Environmental Engineering field of study) Sources, Processes and Pollutant Products, specialization: Technology and Biotechnology of Environmental Protection/Engineering and Environmental Protection in Industry (Environmental Engineering field of study) Process Engineering and Specific Operations in Environmental Engineering, specialization: Technology and Biotechnology of Environmental Engineering field of study) Process Engineering field of study) Chemical and Biological Processes Engineering, specialization: Technology and Biotechnology of Environmental Protection/Engineering field of study) Chemical and Biological Processes Engineering, specialization: Technology and Biotechnology of Environmental Protection/Engineering field of study) Integrated Pollution Prevention and Control, specialization: Technology and Biotechnology of Environmental Protection/Engineering and Environmental Protection in Industry (Environmental Engineering field of study) Integrated Pollution Prevention and Control, specialization: Technology and Biotechnology of Environmental Protection/Engineering and Environmental Protection in Industry (Environmental Engineering field of study) Master studies: 										
	Courses	and	applications (s	eminars	, projects):						
	······································										

Modeling and Simulation of Processes for Environmental Protection, specialization: *Environmental Management* (*Environmental Engineering* field of study) (Daily and Open Distance Learning programs, Romanian line)



Risk Assessment and Management, specialization: *Environmental Management (Environmental Engineering* field of study) (Daily and Open Distance Learning programs, Romanian line)

Source Reduction and Waste Minimization, specialization: *Environmental Management (Environmental Engineering* field of study) (Daily and Open Distance Learning programs, Romanian line)

Legislation in Environmental Protection, specialization: Projects Management (Daily program, Romanian line), within the Department of Programs of the "Gheorghe Asachi" Technical University of Iaşi

Sustainable Industrial Production, specialization: Environmental Management (Environmental Engineering field of study) (Daily and Open Distance Learning programs, Romanian line)

Sustainable Industrial Production, specialization: Environmental Management and Sustainable Energy (Environmental Engineering field of study) (Daily program, English line)

Doctoral studies:

Courses and applications (seminars, projects):

Elaboration, evaluation and presentation of scientific works, within the Doctoral School of the Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection and other Faculties

Postgraduate studies:

Design and implementation of occupational health and safety systems Major accidents and environmental disasters

SCIENTIFIC EVENTS ORGANIZED AT LOCAL, NATIONAL AND INTERNATIONAL LEVELS, MEMBER OF ORGANIZING AND SCIENTIFIC COMMITTEES:

Over 50 events (included in the List of scientific activity, annexed)

• ACTIVITIES IN THE ACADEMIC COMMUNITY

- organizing and coordinating students' scientific sessions;

- coordination of the activity of scientific students groups;

- director/member of the board of the Doctoral School of the Faculty of Chemical Engineering and Environmental Protection

- member of the Council of the Department of Engineering and Environmental Management

- member of the Faculty Council and University Senate;

- vice-dean of the Faculty Council, responsible with scientific research

- member of the Commission for quality of the Senate of the "Gheorghe Asachi" Technical University of Iasi
- member of the Commission for ethics of the Senate of the "Gheorghe Asachi" Technical University of Iasi

- member of the Commission for international relations, university image and honorary titles of the Senate of the "Gheorghe Asachi" Technical University of Iasi

- elaboration and development of materials of common academic interest (for the accreditation of undergraduate and master specializations by ARACIS, accreditation by CNATDCU of the doctoral school in *Environmental Engineering*, research reports etc.)

- vice-president of the *Commission of Environmental Engineering*– Romanian Ministry of Education and Research (since 2016) (O_MECS 4160/10.06.2016)

- member of the General Council of the National Council For the Recognition of Academic Degrees, Diplomas and Certificates (CNATDCU) and president of the *Commission of Environmental Engineering*– Romanian Ministry of Education and Research (since 2012) (O_MEC 5644/05.09.2012)

- member of the *Commission Earth Sciences* of Panel 1 (*Mathematics and Natural Sciences*) of the National Council For the Recognition of Academic Degrees, Diplomas and Certificates – Romanian Ministry of Education and Research (2011-2012) (**O_MEC 3980/2011**)

- member of the Commission *Chemical Engineering, Materials Engineering and Food Products Engineering* of the National Council for the Recognition of Academic Degrees, Diplomas and Certificates – Romanian Ministry of Education, Research and Innovation, (2006-2010) (**O_MEC 3904/2006**)

SCIENTIFIC COMPETENCES AND RESEARCH DIRECTIONS

Chemical and Biological Process Engineering (with applications in environmental protection and resource conservation)

- transfer phenomena in chemical, biochemical and biological processes:
- flow of heterogeneous systems in mechanical and pneumatic contactors
- rheology of biological liquids
- mass transfer in mixing vessels, pneumatic contactors, extraction devices, filters, centrifuges
- heat transfer in chemical/biochemical processes and separation-purification operations and processes
- migration and fate of inorganic and organic persistent pollutants (heavy metals, persistent organic pollutants POPs,
- personal care compounds, dyes) in soils and natural sorbents
- bases of technological systems, analysis and synthesis





- intensification of transfer processes in chemical engineering and biotechnology:
- advanced mixing devices of stirred tank bioreactors
- application of motionless mixers, on pilot and industrial scales, to intensify transfer phenomena;
- unit processes and operations in chemical, biochemical and biological processes, applied in biotechnology and environment protection: filtration, centrifugation, extraction, distillation-rectification, evaporation-crystallization, adsorption on ion exchange, membrane separation, bioremediation, biosorption, absorption
- new technical systems, (bio)reactors, in chemical and biochemical industrial processes for energy saving and efficiency
- process scaleup, with applications in environmental engineering
- modelling, simulation and optimization of processes, including environmental applications •

Biotechnology/ Environmental Biotechnology:

- bases of biochemical and biological reactions; mass conversion assisted by microorganisms or enzymes; transfer phenomena; microbial strains manipulation in bioreactors; oxygen uptake by microorganisms; resistance of microbial agents to shear stress, with applications in environmental protection, equilibrium, kinetics and thermodynamics
- biological treatment of gaseous and liquid fluxes containing biodegradable pollutants

environmental bioremediation of components affected by pollution phenomena, (bio)degradation of refractory pollutants

biosorption and bioaccumulation of heavy metals, persistent organic pollutants by living and non-living biomass (yeasts, fungi, bacteria), agricultural and vegetable waste (algae, vegetable waste, seed hulls)

bioavailability, bioaccumulation, persistence, ecotoxicology, phytotoxicity for various environmental contaminants

Integrated Pollution Prevention and Control: Practices for Processes, Products, Services (source reduction and waste minimization, waste management hierarchy, risk management, life cycle assessment, cost-benefit analysis, ecological footprints, multi-criteria decision analysis)

Sustainable Industrial Production, Eco-design, Eco-technologies, Cleaner production

Environmental Risk Assessment and Management, Ecological Risks, Health risks

Environmental Evaluations (attested by the Ministry of the Environment, Water and Forest for elaborating Safety Reports, in the frame of Seveso Directives)

PhD Supervisor since 2002 (until 2011): Engineering Sciences - Chemical Engineering, 7 PhDs

PhD Supervisor since 2009:

Engineering Sciences - Environmental Engineering, 5 PhDs and 7 PhD students

EXPERIENCE IN RESEARCH PROJECT MANAGEMENT / CONTRACTS:

Project director/responsible and member in research groups and accomplishments:

- original technologies applied in industry: 8
- research themes with industrial companies: 20 (10 as responsible or director)
- national grants (CNCSIS, PNCDI-I, PNCDI-II: 25 (15 as project director) _
- international grants: 6 (in cooperation, as member of research teams)

COMPETENCES AND EXPERIENCE IN EVALUATION OF SCIENTIFIC WORKS AND EDITING SCIENTIFIC MATERIALS

- as editor of scientific journal:

Environmental Engineering and Management Journal (Managing Editor, Editor-in-Chief, since 2002) Procedia – Environmental Science, Engineering and Management (Editor-in-Chief, since 2014) Annals of the Academy of Romanian Scientists - Series on Chemistry Sciences (Series Editor, since 2014) Bulletin of the Polytechnic Institute of Iasi – Section Chemistry and Chemical Engineering (2000-2004) Peer J, Associate Editor

Water, Associate Editor

- peer-reviewer for international journals:

Bulletin of Iasi Polytechnic Institute, Environmental Engineering and Management Journal Iasi Polytechnic Magazine, Bioprocess Engineering, Brazilian Journal of Chemical Engineering, Cellulose Chemistry and Technology, Chemical Engineering Journal, Chemosphere, CLEAN-Water, Air, Soil, Critical Reviews in Biotechnology, Environment International, Environmental Science and Technology, Environmental Technology, Energy, Journal of Environmental Management, Journal of Hazardous Materials, Clean-Soil Air, Water, Journal of Environmental Engineering and Landscape Management, Journal of Cleaner Production, Geoderma, International Journal of Environment and Pollution, Journal of Hazardous Materials, Bioprocess and Biosystems Engineering, Arid Land Research and Management,



Universal Journal of Education and General Studies, Current Biotechnology, Journal of Research in International Business and Management, Separation Science and Technology, Resources, Conservation & Recycling, Desalination and Water Treatment, Water, Air, & Soil Pollution, Bioresource Technology etc. Reviewer of ECOZONE Publishing House, Iasi, Romania

- expert:

- National Council for Scientific Research CNCSIS/UEFISCDI: 2001-2015
- National Agency ANSTI: 2001-2002
- Program CALIST: 2004

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- National Program PN-II (program IDEI)
- Member of the Ministry's Register of Experts MEC-CNCSIS

• Member of the Commission Chemical Engineering, Materials Engineering and Food Products Engineering of the National Council For the Recognition of Academic Degrees, Diplomas and Certificates – Romanian Ministry of Education, Research and Innovation, for confirmation of PhD degrees, PhD supervising and University Doctoral Studies Organizing Institutions (2006-2010) (O_MEC 3904/2006)

• Member of the Commission *Earth Sciences of the National Council For the Recognition of Academic Degrees, Diplomas and Certificates* – Romanian Ministry of Education, Research and Innovation (2011-2012) (O_MEC 3980/2011)

• President of the Commission of Environmental Engineering of the National Council For the Recognition of Academic Degrees, Diplomas and Certificates – Romanian Ministry of Education, Research and Innovation, Member of the General Council (since 2012) (O_MEC 5644/05.09.2012)

- Independent Expert European Commission (FP6, FP7, Horizon 2020)
- External Expert for the evaluation of MSc and PhD Theses
- Expert of the Ministry of Environment and Forests for Safety Reports

• Expert in three POSDRU doctoral programs and two POSDRU postodoctoral programs at Gheorghe Asachi Technical University of Iasi, Romania, funded by the European Social Fund

MEMBER OF ENTITIES/ASSOCIATIONS/ PROFESSIONAL AND SCIENTIFIC COMMITTEES

- Member of the Academy of Romanian Scientists

- 2002-2014 Managing Editor and, since 2024, *Editor-in-Chief* of *Environmental Enginnering and Management Journal*, edited by the Department of Environmental Engineering and Management, *Gheorghe Asachi* Technical University of Iasi, Romania and by Ecozone Publishers, Romania (indexed by CABI; Chemical Abstracts Service/SciFinder (ACS) (since 2002); EBSCO Database (since 2002); EVISA; ICAAP (International Consortium for Advancement of Academic Publications); Index Copernicus Journal Master List (ICV/2013=16.00); Journal Citation Reports[®] (IF/2014=1.065); MedSci; ProQuest (since 2002); CNCSIS (RO); Science Citation Index Expanded[™] (Thomson ISI); SJR (SCImago Journal&Country Rank); SCOPUS (din 2008); Thomson ISI Master Journal List; Web of Science[®] (Thomson ISI) (H=21) (http://omicron.ch.tuiasi.ro/EEMJ/)

- 2002-2004 – Editor of the Bulletin of the Polytechnic Insitute of Iasi, Chemistry and Chemical Engineering Section
 - 2014 – Founder and Editor-in-Chief of Procedia-Environmental Science, Engineering and Management (www.procedia-esem.eu)

- 2014 – Series Editor of Annals of the Academy of Romanian Scientists – Chemical Sciences Series (http://aos.ro/editura/analeleaosr/annals-on-chemistry/)

- 2011 – founding member of the *National Society of Environmental Science and Engineering*, Cluj-Napoca, Romania (http://snsim.ro/?page_id=6), vice-president since 2015

- 2012 - member of the European Federation of Microbiology Societies, FEMS

- 2012 – member of the editing staff of the journal *Soil Forming Factors and Processes in the Temperate Region*, edited by the *Al. I. Cuza* University of Iasi

- 2011 – Member of the Editorial Advisory Board for the journal *Scientific Study & Research- Chemistry & Chemical Engineering, Biotechnology, Food Industry*, published by the *Vasile Alecsandri* University of Bacau, Romania

- 2011 – Member of the Editorial Advisory Board for the journal *Journal of Engineering Studies and Research (JESR)*, published by the *Vasile Alecsandri* University of Bacau, Romania

- 2011-Member of the Editorial Staff of the *Journal of Applied Sciences in Environmental Sanitation (J.ASES)*, edited by Department of Environmental Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonezia, and Indonesian Society of Sanitary and Environmental Engineers

- 2009-Member of the Romanian Chemistry Society

- 2009-Member of the Editorial Advisory Board of the European Journal of Science and Theology, published by

EcoZone Publishers, laşi, Romania

- 2009 – Member of Editorial Advisory Board al Journal of Environmental Engineering and Landcape Management

- 2009 – Member of the Editorial Board of International Journal of Conservation Science

- 2008-Member of the European Membrane Society

- 2007-Member of the *Editorial Scientific Board* of *The Open Biotechnology Journal*, published by Bentham Science Publishers

- 2006- Member of the International Organization for Biotechnology and Bioengineering

- 2006- Member of the *European Federation of Biotechnology* and member of the *Experts Board* of the **Environmental Biotechnology Section** (2011)

- 2005- Member of INTERMEDIUNET Romania (INRO)



- 2002-member of the Association of Graduates of the Faculty of Industrial Chemistry, Iași, Romania

- 1999-member of the Academic organization for Environmental Engineering and Sustainable Development, Iași, Romania

- 1997-2000- Member of the Editorial Advisory Board of the journal Bioprocess Engineering, published by Springer Verlag, Berlin, Germania

- 1996-Member of the Romanian Society of Chemical Engineering

- 1991-Founding member of the Romanian Society of Bioengineering and Biotechnology

• VISITING PROFESSOR AND EXCHANGE PROGRAMS:

- visiting professor

2015 - University of Natural Resources and Life Sciences, Vienna, Austria

2015 - Technical University of Crete, Greece

2014 - University Rennes, France

2014 - University of Maribor, Slovenia

2014 - University of Applied Sciences, Northwestern Switzerland, Muttenz, Switzerland

2013 - University del Insubria, Varese, Italy

2013 - University Alma Mater Studiorum Bologna, Italy

2013 - Vienna University of Technology, Vienna, Austria

2012 - University Frederico II, Naples, Italy

2012 - University Alma Mater Studiorum, Bologna, Italy

2012 - Vienna University of Technology, Vienna, Austria

2011 - University Frederico II, Naples, Italy

2011 - TECHNION - Israel Institute of Technology, Haifa, Israel

2011 - University Alma Mater Studiorum Bologna, Italy

2011 - University of Padova, Italy

2011 - Minho University, Braga, Portugal

2010 - University of Twente, The Netherlands

2010 - Vienna University of Technology, Austria

2009 - Pannon University, Veszprem, Hungary

2007 - Danish University of Technology, 2007, Copenhagen, Denmark

2007 - Vienna University of Technology, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, August 2007

2006 - University Minho, Portugal

2005 - University Minho, Portugal, 2005 Lund University, International Institute for Industrial Environmental Economics

2004 - Henry Poincaré University, Nancy1, European Summer School: Human Environment: Energy, Forests, Health and Society, September 3-10

2004 - Lund University, International Institute for Industrial Environmental Economics

- Erasmus and Erasmus+ agreements and programs

2011-2014	University Maribor, Slovenia	
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- 2011-2014 University of Study dell'Insubria, Varese, Italy,
- 2010-2014 University of Study, Federico II, Naples, Italy,
- 2010-2014 Alma Mater Studiorum University of Study, Bologna, Italy,
- 2009-2014 Twente University Netherlands,
- 2008-2013 University Minho, Portugal,
- 2007-2013 University Minho, Portugal,
- 2014-2021 University of Natural Resources and Life Sciences, Austria
- 2014-2021 Technical University of Crete, Grecia
- 2014-2021 Universita degli Study di Napoli Federico II, Italia
- 2014-2017 University of Twente, Olanda
- 2014-2021 Universidade do Minho, Portugalia
- 2014-2021 University of Maribor, Slovenia
- 2014-2021 Hacettepe University Ankara, Turcia
- 2014-2021 Karabuk University, Turcia

• PRIZES, NOMINATIONS

- Prizes:

- "Nicolae Teclu" Prize of the Romanian Academy, Section of Chemistry, awarded in 1995 for the group of papers "Study of Transfer Phenomena in Polydisperse Systems, with Applications in Bioreactors";



	 Diploma for Excellence and Medal ,Inventica" 2008, awarded by Society of Inventors from Romānia and National Institute for Inventions, Iaşi, within the International Jubiliar Salon for Research, Inventions and Technological Transfer, ,Inventica 2008"; Diploma for Excellence in Research, and Medal ,Gheorghe Asachi" awarded by the Senate of the Gheorghe Asachi Technical University of Iaşi, 2007; Diploma of excellence for innovative research and Gold Medal awarded within European Exhibition of Creativity and Innovation, Iasi, Romania, 2010; Diploma of excellence awarded within the European Exhibition of Creativity and Innovation, 2011, Iasi, Romania; Diploma and the Grand Prize of the National Salon and Scientifically Books of EuroInvent 2012, European Exhibition of Creativity and Innovation, 11 May, Iasi, Romania; Best Paper Award, 2012, granted by Springer Publishers, for the paper Soil and groundwater cleanup: benefits and limits of emerging technologies, published in the journal Clean Technologies and Environmental Policy, vol. 13, No. 2, pp. 241-268, 2011; Best Poster Award, 2012, granted by the Global Conference on Global Warming GCGW-12, 8-12 July, 2012, Istanbul, Turkey; Diploma of Excellence, for Environmental Engineering and Management Journal, awarded by the National Salon of technical and Scientific Books, EuroInvent, Iasi, Romania, 2013. Diploma of Excellence in Research, awarded by Senate of "Gheorghe Asachi" Technical University of Iaşi, Romania, 2014; AGIR Prize 2014 for the book Methods of evaluating the effects of particulate matter air pollution on children's health, ISBN 9786062501211, MatrixRom 2014 Diploma of Appreciation, for Environmental Engineering and Management Journal and Editor-in-Chief, EuroInvent 2015, Iasi, Romania. "2000 outstanding people of the 20th century", first edition, 1998; "International woman of the year" for 1997-2004, by International Biographical Centre
COMPUTER SKILLS AND COMPETENCES	Windows, Word, Excel, Power Point, Corel PhotoPaint, web-browsing
DRIVING LICENSE	B Category
DRIVING LICENSE	
ADDITIONAL INFORMATION	 PORTOFOLIO: a) Publications, conferences, communications, reports: 730 titles as follows: 23 books (5 as editor) 21 chapters in books of editors (Wiley, Springer, Elsevier, Signpost) (3 in press) 9 manuals/student books (3 printed, 1 on CD, 5 in electronic format online) papers: 311 papers published in ISI ranked journals and Proceedings: 163+15 in ISI Proceedings papers published in peer-reviewed Romanian and international journals: 96 papers published in Proceedings of conferences, peer-reviewed: 37 conferences and keynotes: 51 public presentations at national and international scientific events (congresses, symposia, conferences, workshops – posters and oral presentations): 255 research reports: 47 patents: 12 (9 of them included in <i>Derwent Innovations Index</i>) and 1 patent application at OSIM, Romania b) Over 4000 citing references of published papers (over 3400 without self-citations) (Hirsch index h =30 in Web of Science, h=31 in Scopus, h=39 in Google Academic) c) organizer/member in committees of conferences, workshops: 60 d) Erasmus and Erasmus+ agreements – as coordinator: 15



	 e) Research themes/grants: new products and original technologies: 8 research themes with industrial companies – 20 (10 as responsible or director, and 10 as member of the research group) national grants: 28 (17 as project director) 10 grants awarded by CNCSIS (6 as director) 6 grants awarded within PNCDI-I (1 AGRAL, 5 CEEX type, member) 3 grants awarded within PNCDI-II (IDEI Programme, as director) 4 grant awarded within PNCDI-III (2 as director) 6 grants awarded by the Ministry of Research and Technology (as director) international grants: 6 (in cooperation, member)
Annexes	List of Publications

6

December 2019

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