



**Curriculum vitae
Europass**



Personal information

First name(s) / Surname(s) **DUMITREL, Gabriela-Alina**
Address University Politehnica Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Bdv. Parvan nr. 6, 300223 Timisoara, Romania;
Telephone(s) Work: +40 256 403 073 Mobile: +40 736 140 977
Fax +40 256 403 060
E-mail alina.dumitrele@upt.ro

Nationality Romanian

Date of birth 09 May 1977

Gender Female

Position Habilitation certificate in the field of Chemical Engineering

Work experience

Dates **02.2016 – present / 02.2009 – 01.2016 / 10.2004 – 01.2009**

Occupation or position held Associate professor; Lecturer; Assistant

Main activities and responsibilities Teaching activities in Chemical Process Control, Process Control and Optimization in Food Industry; Optimization of Chemical Processes, Design of Industrial Processes, Computer Aided Design, Algorithms and Software for Process Simulation and Computers Programming and Use.

Coordination of: diploma projects, dissertations, internships, ERASMUS mobilities. Research activities in the framework of contracts won by competition; Modeling and simulation of chemical processes using engineering software (Matlab, Hysis, Aspen Plus, IpsePro).

Name and address of employer University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, 6 Vasile Parvan boulevard, Timisoara, 300223, Romania

Type of business or sector Education, R&D

Dates **01. 2006-12. 2006**

Occupation or position held Researcher

Main activities and responsibilities Research activities on the use of biofuels in solid oxide fuel cell (SOFC)

Name and address of employer Université Claude Bernard Lyon 1, Laboratoire d'Application de la Chimie à l'Environnement, 43 Boulevard du 11 Nov. 1918, 69622 Villeurbanne Cedex, France

Type of business or sector R&D

Dates	11. 2000-09. 2004
Occupation or position held	PhD student
Main activities and responsibilities	Teaching activities in Chemical Process Control, Optimization of Chemical Processes Research activities for the elaboration of the PhD thesis
Name and address of employer	University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, 6 Vasile Parvan boulevard, Timisoara, 300223, Romania
Type of business or sector	Education, R&D
Education and training	
Dates	11. 2000 – 12. 2004
Title of qualification awarded	PhD in “Chemical Engineering” and “Sciences et Techniques du Dechet”
Principal subjects / occupational skills	According to the joint-agreement signed between University Politehnica Timisoara and INSA Lyon France Title of the thesis: „Dépollution des sols par venting et extraction sous pression réduite : étude expérimentale, modélisation et simulation numérique” Coordinators: Professor Delia PERJU (UP Timișoara) Associate Professor Jean CARRE (INSA de Lyon) Professor Jacques BOURGOIS (Ecole des Mines St Etienne)
Name and type of organisation providing education and training	University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, 6 Vasile Parvan boulevard, Timisoara, Romania; Institut National des Sciences Appliquées Lyon France, Laboratoire d’Application de la Chimie a l’Environment ISCED 6
Dates	10.2001 – 06.2002
Title of qualification awarded	Master in ”Process Intensification, Design and Optimal Control”
Principal subjects / occupational skills	Disciplines provided in the curriculum
Name and type of organisation providing education and training	University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, 6 Vasile Parvan boulevard, Timisoara ISCED 5
Dates	10.1995 – 06. 2000
Title of qualification awarded	Engineer in "Engineering of natural products processing"
Principal subjects / occupational skills	Disciplines provided in the curriculum
Name and type of organisation providing education and training	University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, 6 Vasile Parvan boulevard, Timisoara ISCED 5
Administrative -managerial activities	
Period	2012-present
Position held	Vicedean of Faculty of Industrial Chemistry and Environmental Engineering, University Politehnica Timisoara
Period	2009-present

Position held	Member of the Chemical Engineering Board from Industrial Chemistry and Environmental Engineering Faculty
Period	2008-present; 1996-2004
Position held	Member of the Teaching Council of Industrial Chemistry and Environmental Engineering Faculty
Period	2013-present
Position held	Coordinator and member of the educational promotion team of Industrial Chemistry and Environmental Engineering Faculty
Period	2012-present; 2008-2010; 2002-2006
Position held	Member of the faculty admission committee
Areas of expertise	
Research contracts	<ol style="list-style-type: none"> 1. Cioablă, A.E., Trif Tordai, G., Varga, L.A., Milotin, R., Lelea, D., Dumitrel, G.A., Popescu, F., Ţenchea, A., Vodă, R., Utilization of energy potential of agro-industrial residues through biodegradation processes and catalytic combustion of generated biogas, project number: PN-II-RU-TE-2014-4-1043, 2015-2017. 2. Ursu, D., Mobile pilot plant for wastewater treatment with solar energy (SOLWATCLEAN), project number:PN-II-PT-PCCA-2013-4-1708, 2014-2017. 3. Lascu, D., Orientation of the study programs on the regional economic reality, their validation by the economic actors and the dynamization of the relationship between university-student-company, for a performant technical education system – OVDIP, project number: POSDRU/156/1.2/G/136302, 2014-2015. 4. Todinca, T., Dumitrel, G.A., Duţeanu N., Bandur, G., Dan, M., Vodă, R., Looking to the future – Teachers’ training for the use of modern computer resources in effective chemistry teaching, project number: POSDRU 87/1.3/S/61839, 2010-2012. 5. Todinca, T., Dumitrel, G.A., Holotescu, C., Integration of particulate abatement, removal of trace elements and tar reforming in one biomass steam gasification reactor yielding high purity syngas for efficient CHP and power plants (UNIQUE), FP7-ENERGY-2007-1-RTD number: 211517, 2008-2010. 6. Manea F., Pode R., Negrea P., Negrea A., Dumitrel G.A., Cocheci L., Pop A., Ciopec M., Baci A., Jakab A., Ardelean M., Impact of waste and pollutants on environment and climate: Collaborative research study of the wastewater discharge impact in the BEGA-TIMIS river sub-basin (Romania), Romania-Switzerland bilateral research program, IZERZO_142210/1, 2013-2014. 7. Todinca, T., Rusnac, C., Dumitrel G.A., Modern technology for the synthesis of ethers used as ecological additives for automotive gasoline (TEMOSIE), project number: CEEX 103/10.05.2005, 2005-2008. 8. Perju, D., Rusnac, C., Silaghi-Perju, D., Dumitrel, G.A., Pîrlea, H., Marinescu, S., Rehabilitation by intensive processes of soil from the areas of exploitation and processing of radioactive ores in the conditions of natural disasters or anthropogenic accidents (RESOLRAD), project number: CEEX 57/03.10.2005, 2005-2008. 9. Perju, D., Şuta, M., Rusnac, C., Dumitrel, G.A., Simulation and optimal operation with advanced control systems of research and laboratory facilities in the chemical industry, project number: 27688/ 14.03.2005, theme 24, code CNCSIS 625, 2005-2007. 10. Perju, D., Şuta, M., Rusnac, C., Dumitrel, G.A., Possibilities of using analog numerical interfaces in pH measurement and control systems, project number: 40535, theme: 11/2003, code CNCSIS 534, 2003. 11. Perju, D., Todinca, T., Şuta, M., Rusnac, C., Dumitrel, G.A., Performance improvement of fluid flow measurement systems by using the thermal limit layer method and numerical analog techniques, project number: 34977/2001, theme: 31, code CNCSIS 850, 2001.

Educational and research programs

Member of the target group in project POSDRU / 21 / 1.5 / G / 13798: "Doctoral School as a support of research in European context", 2010-2012.
 Member of the target group in the project POSDRU / 87 / 1.3 / S / 60891: "University School for Initial and Continuing Training of Teaching Staff and Trainers in the Field of Technical and Engineering Specializations (DidaTec)", 2010-2013.

Specializations and qualifications

13.06.2011 – 08.07.2011 - research stage on the topic: "Start-up and operation of a TG-MS technique; Realization of experimental determinations and processing of results" at "Institute de Recherche sur la Catalyse et l'Environnement de Lyon" (IRCELYON), 43 Boulevard du 11 Nov. 1918, 69622 Villeurbanne Cedex, France
 01.10.2003 – 30.12.2003; 15.02.2004 – 15.08.2004 – Research stage during the second year of the PhD thesis at „Laboratoire d'Application de la Chimie à l'Environnement – LACE, Université Lyon 1”.
 01.04.2003 – 30.06.2003 – Research stage during the first year of the PhD thesis at „Laboratoire d'Application de la Chimie à l'Environnement – LACE, Université Lyon 1”.
 01.10.2001 – 30.11.2001 – Documentation at „Laboratoire d'Analyse Environnementale des Procédés et Systèmes Industriels de l'INSA de Lyon”, subject: "Depollution of soils polluted with organic products of petroleum origin by low pressure extraction".
 2001 – course “Gestion des déchets. Filières de traitement”, professor Radu Barna,- INSA Lyon (26 February-2 Mars 2001, 11-14 June 2001).
 1999 – course “Materiaux avances: Copolymères séquences et greffes”, professor Marc J. M. Abadie from Universitatea Montpellier 2, France.

Member of professional associations

Member of Romanian Chemical Engineering Society
 Member of Romania Chemistry Society
 Member of the Balkan Environmental Association - BENA

Other activities

Referee for scientific journals:
 Chemosphere (Elsevier) (**ISI 3.34**)
 Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substance & Environmental Engineering (Taylor&Francis) (**ISI 1.164**)
 World Scientific and Engineering Academy and Society (WSEAS) Conference Proceedings and Journals
 Chemical Bulletin of the Polytechnic University of Timișoara (Polytechnic Press - Timișoara)

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment
 European level (*)

French

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		Writing	
C2	Proficient user	C2	Proficient user	C2	Independent user	C2	Independent user	C2	Proficient user
C1	Independent user	C1	Independent user	B2	Basic User	B2	Basic User	B2	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences	Team spirit; Good communication skills; Cooperation; Team building; Good adaptive skills in any multicultural society
Organizational skills and competences	Leadership skills, organizational spirit, good experience in project management and team work, skills acquired through: <ul style="list-style-type: none"> - Participation in the teams of national and international projects; - Organization of national and international scientific events in Romania; - Organization and development of didactic laboratories in the field of chemical engineering.
Technical skills and competences	<ul style="list-style-type: none"> - Performing mathematical calculations, numerical modeling and simulations, data processing and computer-aided graphic representations; - Physical and chemical analyzes (chromatography, mass spectrometry and thermal analysis).
Computer skills and competences	Very good knowledge of: MATLAB, UniSim Design, ASPEN, HYSIS; Basic knowledge of: PSExcel - IPSEpro module; Statistics, Origin; Good knowledge of Microsoft Office™ tools (Word™, Excel™, PowerPoint™).
Additional information	<p>Scientific papers published in peer-reviewed ISI journals: 33.</p> <p>Scientific papers published in other peer-reviewed journals and proceedings: 53.</p> <p>Books: 3.</p>