



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s)	<b>Mihaela STOICA</b>	
Address(es)	Research & Development National Institute for Metals and Radioactive Resources INCDMRR ICPMRR Bucharest, Carol I Blvd, nr. 70, district 2, 020917, Romania	
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Fax(es)	+40-21-3151258	
E-mail	<a href="mailto:mihaelastoica@icpmrr.ro">mihaelastoica@icpmrr.ro</a>	
Nationality	Romanian	
Date of birth	10 February 1970	
Gender	female	

### Work experience

Dates	December 2010 – present	
Occupation or position held	Head of Environmental Techniques and Technologies Laboratory, senior researcher	
Main activities and responsibilities	Team Coordination laboratory research, developing research projects for national and European competitions, making various documents	
Name and address of employer	Research & Development National Institute for Metals and Radioactive Resources INCDMRR ICPMRR Bucharest, Carol I Blvd, nr. 70, district 2, 020917, Romania	
Type of business or sector	research and development	
Dates	October 2007 – December 2010	
Occupation or position held	CSIII senior researcher	
Main activities and responsibilities	Research, developing research projects for national and European competitions, making various documents	
Name and address of employer	Research & Development National Institute for Metals and Radioactive Resources INCDMRR ICPMRR Bucharest, Carol I Blvd, nr. 70, district 2, 020917, Romania	
Type of business or sector	research and development	
Dates	December 2005 – September 2007	
Occupation or position held	senior researcher II	
Main activities and responsibilities	Research activity. Postdoctoral training in chemical engineering and chemistry	
Name and address of employer	University „Politehnica” Bucharest, Faculty of Applied Chemistry and Materials Science, 1 Polizu str., Bucharest, ROMANIA	

Type of business or sector	Education
Dates	April 2001 – December 2005 Full time, January 2006 – December 2007 part time
Occupation or position held	researcher
Main activities and responsibilities	Research activity, sampling and analyzing evidence, developing research projects, research reports, documentation of various
Name and address of employer	INCDPM Alexandru Darabont, Ghencea Blvd, district 6, Bucharest, Romania
Type of business or sector	research and development
Dates	October 1995 – October 2000
Occupation or position held	design Engineer
Main activities and responsibilities	Research - design, documentation, development different documentation
Name and address of employer	IPOCHIM, 25 M. Eminescu Str., District 1, Bucharest, Romania
Type of business or sector	research and development
<b>Education and training</b>	
Dates	December 2005- September 2007
Title of qualification awarded	Research activity. Postdoctoral training in chemical engineering and chemistry
Principal subjects/occupational skills covered	Gas chromatography coupled with mass spectrometry, GC-MS 03/2007-04/2007 Internship Research Laboratory of Analytical Chemistry. Research to develop a method for GC-MS determination of acrylamide in foods because of the way of food preparation, research stage - high sensitivity methods for detection of food contaminants (acrylamide), Labotatoire Chimie Analitique, Institut National Agronomique Paris-Grignon, AgroParisTech -France, 2007
Name and type of organisation providing education and training	University „Politehnica” Bucharest, Faculty of Applied Chemistry and Materials Science, 1 Polizu str., Bucharest, ROMANIA
Level in national or international classification	Postgraduate level 6
Dates	October 1996 – November 2004
Title of qualification awarded	PhD in chemical engineering Thesis: Adsorption of the substances under ionic form on biomass
Principal subjects/occupational skills covered	TUBORG Scholarship: Adsorption of substances under ionic form on biomass (metals Pb, Zn, Cd on Pseudomonas aeruginosa ATCC 27853 and Pistia Stratiotes , Eichhornia crassipes plants.), through RO - BENA (Balkan Environmental Association of Romania), Bucharest, 2001 Process for recovering heavy metal ions and process factors – report 1999. Transfer phenomena at the adsorption on biomass - report 1999. Subjects studied: transfer phenomena, adsorption, cell membrane transport
Name and type of organisation providing education and training	University „Politehnica” Bucharest, Faculty of Applied Chemistry and Materials Science, former Faculty of Industrial Chemistry, 1 Polizu str., Bucharest, ROMANIA,
Level in national or international classification	Postgraduate level 6
Dates	October 1990 – September 1995
Title of qualification awarded	<i>Diploma Chemical Engineer in the specialization of Biochemical Engineering</i>

Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- TEMPUS Scholarship: Study of Cu, Cd heavy metals biosorption on bacterial biomass (Thiobacillus Ferrooxidans, Rhodobacter Capsulatus) CREM-GP Laboratory (now LEPMI) ENSEEG, INPG, Grenoble - France, 1995.</li> <li>ICCF Bucharest 07/1993 - National Research Institute of Chemical-Pharmaceutical ICCF Bucharest – student 15 days productive practice days, extraction technologies, microbial biotechnologies</li> <li>07/1994 - Pasteur Institute Bucharest Bucharest - student 15 days productive practice days, microbial biotechnology, ELISA analysis using HPLC.</li> <li>General subjects, common core chemical engineering with specialization: <ul style="list-style-type: none"> <li>- Mathematics I - Analysis, Mathematics Algebra II, Inorganic Chemistry, Industrial Graphics and Drawing, Philosophy, Thermodynamics, Mechanics and strength, and Computer Programming, Languages (English) Physical Education, Mathematics III (special), Physics, Chemistry Organic, Physical Chemistry, Fundamentals of Chemical Engineering, Chemistry, Applied Physics, General Economic Theory, History.</li> <li>- Specialized training courses in biochemical engineering</li> <li>- Cell Biology and Genetics 85 h</li> <li>- Analytical chemistry and instrumental analysis 85 h</li> <li>- Biochemistry 70 h</li> <li>- Transfer Phenomena 70 h</li> <li>- Chemistry of Natural Substances 70 h</li> <li>- Electrical 56 h</li> <li>- Mathematical Methods in biochemical engineering 70 h</li> <li>- Calculation of biochemical mechanic equipment 98 h</li> <li>- Industrial Sociology 25.5 h</li> <li>- Logic and Methodology of Science 25.5 h</li> <li>- 224 hours work experience</li> <li>- Raw materials for biochemical industry 85 h</li> <li>- Applied Enzymology 51 h</li> <li>- Physical Biochemistry 189 h</li> <li>- Processes and apparatus in biochemical industry 110 h</li> <li>- Applied Microbiology 110 h</li> <li>- Biochemical Technologies 268 h</li> <li>- Biochemical reactors 138 h</li> <li>- Measuring control and automation 113 h</li> <li>- Systems Engineering reliability - 90h</li> <li>- Biochemical De-pollution 79 h</li> <li>- Computer Driving of biochemical processes 90 h</li> <li>- Membrane separation process 101 h</li> <li>- Recombinant DNA Technology 99 h</li> <li>- Biochemical plant project 34 h</li> </ul> </li> </ul>
Name and type of organisation providing education and training	University „Politehnica” Bucharest, Faculty of Applied Chemistry and Materials Science, former Faculty of Industrial Chemistry , 1 Polizu str., Bucharest, ROMANIA , <i>ex Faculty of Industrial Chemistry.</i>
Level in national or international classification	Postgraduate level 6
Dates	September 1984 – June 1988
Title of qualification awarded	High School Diploma
Principal subjects/occupational skills covered	Disciplines Mathematics, Algebra, Special Mathematics, Physics, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Languages (English, French), Philosophy, Physical Education, Management,, etc..
Name and type of organisation providing education and training	Mihai Viteazul National College Slobozia, <i>former Matematics - Physics High School Slobozia, Ialomita</i>
Level in national or international classification	High school level 5 L
Personal skills and competences	

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (\*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
B2	independent user	C1	Proficient user	B2	independent user	B2	independent user	C1	Proficient user t

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

Social skills and competences

Adaptable in multicultural environments gained through traineeships abroad. Good communication skills gained through my participation in workshops and conferences. Team spirit

Organisational skills and competences

Leadership, now head a team of 5 people. Sense of organization. Project management experience gained in a professional context

Technical skills and competences

Atomic Absorption Spectrometry experience SAA, acquired during TEMPUS scholarship internship at CREMGP, ENSEEG, INPG, Grenoble, France, I was responsible with AAS analysis made during the INCDPM.  
Gas chromatography coupled with experience in mass spectrometry GC-MS, acquired during internship at Laboratoire Analitique Chemistry, National Institute Paris-Grignon Agronomique, AgroParisTech, Paris-France, 2007  
UV-VIS spectroscopy, chemical analysis conducted during the INCDPM worked.

Computer skills and competences

Good command of Microsoft tools and Office™ Windows™, Mathcad™ acquired during college and professional environment perfect in use.  
Basic knowledge of graphics applications Coreldraw™, and computer aided design Autocad™.  
Knowledge of Internet browsing, email use

Artistic skills and competences

Painting, design, gained at school

Other skills and competences

Hobbies: gardening, I like good music, formula1, tennis, skating, rugby.

Driving licence

No

**Additional information**

Member of professional associations:

The Advancement of the Association for American Science (AAAS) 2005-present

Chemical Society of Romania (SChR) 2007-present

American Chemistry Society (ACS) 2007-present

**Training:**

12/2001, Quality management in the test and evaluation laboratory. General presentation of the requirements of the standard ISO/CEI 17025 – Partener SA

03/2002, Quality management. Documentation and implementation strategy of the system of quality management – Partener SA

05/2002 Introduction of Industrial Hygiene – course organized by The Michigan State university, Institute of International Health, 1<sup>st</sup> In-Country Training Workshop on Environmental and Occupational Health – Bucharest 1-24 May 2002, Romania, sponsored by The National Institutes of Health (NIH), USA

01/2003, The Valuation of the Uncertainty Measurement in the Test Laboratories.

Requirements and informatics instruments - course organized by Info Partners and the Romanian Institute for Education and European Quality (IRECE) – 28-31 January 2003, Bucharest, Romania.

Water Pollution, International Training center of Environmental Professions, Balkan Environmental Association (B.EN.A), 13 January – 21 February 2003

10.2011 Training course on environmental risk assessment, the ERICA tool and mixture toxicity, organized by Belgian Nuclear Research Centre SCK•CEN in collaboration with IFIN HH Evaluator PC6

Expert in data base PC7, HORIZON 2020

**Other Activities:**

<b>Date</b>	9 June 2003 – 13 June 2003, evaluation of research projects submitted for INCO – WBC Call
<b>Location</b>	Brussels, Belgium
<b>Company</b>	RTD - European Commission
<b>Position</b>	Evaluator of scientific projects in the framework of the INCO West Balkans, (web site for information: <a href="http://fp6.cordis.lu/fp6/call_details.cfm?CALL_ID=41">http://fp6.cordis.lu/fp6/call_details.cfm?CALL_ID=41</a> )
<b>Description</b>	Scientifically evaluation of submitted research projects, panel evaluation
<b>Projects</b>	INCO West Balkans, <a href="http://fp6.cordis.lu/fp6/call_details.cfm?CALL_ID=41">http://fp6.cordis.lu/fp6/call_details.cfm?CALL_ID=41</a>

<b>Date</b>	2004 - 2005
<b>Location</b>	Bucharest, Romania
<b>Company</b>	European Agency for Safety and Health at Work
<b>Position</b>	Expert in evaluation the biological risks related to occupational safety and health
<b>Description</b>	Participation in the survey as independent expert
<b>Projects</b>	Survey on emerging biological risks related to occupational safety and health (OSH)

Publications, scientific research

References supplied on request

**Annexes**

List of scientific works (Annex 1) and publications made (Anex2)

## Scientific works

1. Copper and cadmium bio-sorption on bacteria biomass – Laboratoire CREM-GP ( actually LEPMI), ENSEEG, INPG – France, 1995.
2. Recovery proceedings of heavy metal ions and process parameters – referee 1999
3. Transfer phenomena at the adsorption on biomass – referee 1999.
4. Adsorption of substances under ionic form on biomass – PhD thesis
5. **INFRAS** – Research concerning inter-calibration of the analysis methods applicable in environmental control – way of preventions/corrections of errors. 2001, tests
6. **CALIST** – Research concerning manufacturing/homologation/certification of reference materials used in the domain of environmental pollution control (air, water, soil), 2001, tests
7. **CALIST** – Designing, implementation and certification of quality and environmental integrated management system in a research-development unit, with electro-technical activity production, with impact on the environment, 2001-2003, reports
8. **GRANT 2000** – Interaction study soil – water- fertilizer for durable and performing agriculture, 2001, tests, reports
9. **BIOTECH** – Biotechnology for the cleaning of the waste waters with heavy metal content, 2002-2004, tests, research, reports
10. **INVENT**-Demonstrative model for technology and neutralization plant of atmospheric emissions of acid pollutants, 2002-2004, report
11. **MENER** – Optimization of the program for monitoring and cleaning of dangerous substances existing in the surface and underground waters in Romania,2002-2004, tests, research, reports
12. **INVENT**-Demonstrative model for technology and cleaning plant of the emissions with dusts and pollutant gases,2003-2005, reports
13. **CALIST**-Implementation and certification of quality and environmental integrated management system at SC NITRAMONIA SA Fagaras, 2002-2004,
14. **NUCLEU**- Study for elaboration of neutralization methods of the depreciated chemical substances in purpose of prevention of accidental and professional decay risks, 2003-2005,
15. **CALIST**- Inter-laboratory comparisons – way for validation of 5 analysis methods non standardized applicable in the control on atmospheric pollution, 2002-2004,
16. **CALIST**- Validation of the analysis methods developed in laboratory for 10 atmospheric pollutants, 2002-2004,
17. **RELANSIN** –New inactivation technologies of galvanic residues with heavy metal content in conformity with new requirement imposed by the integration of Romania in UE, 2004-2006,
18. **MENER** –Increasing of protection degree of the environment by plasma neutralization of chlorofluorocarbon compounds –CFC, 2004-2006,
19. **PHARE**- Topic center Good Practices for candidates countries – partner,
20. **PHARE**- Topic center new member states – observatory,
21. **CEEX**, Modeling, simulation and experiments of micro and nano-chemical implant in vegetal porous structures,2005-2006 ,
22. **CEEX**, New materials and nano structures for the prevention and minimization of the environmental impact over life cycle,2007,
23. **CEEX** Durable management of waste product in mining inactive sites as per environment acquis E.U., 2008, executant's
24. **NUCLEU** Reduction and/or elimination impact on environment and population of risk factors from technological process of halite exploitation.,2008,
25. **CEEX** Old salinas transformation towards durable valorification of rock salt resources on ecotouristics objectives and relaxation centres, 2008,
26. **IDEA** Biotechnologies of remediation and bio-control of contaminated soils and waters with radioactive ions using immobilized and free microbial systems for ecological disaster prevention, 2009-2011, executant's, postdoc
27. **POSCEE** The improvement of institutional management of RD&I activity from mineral resource domain , deputy project manager, contact person, may 2009- may 2010
28. **NUCLEU** PN. 09.12.03.02 Contributions to the study of radon sources in Romania and exposed people radiological risk assessment 2010-2011
29. **NUCLEU** PN 09 12 03 01: "Ecological remediation solutions of environment degraded by uranium mining activities using alternative technologies" Contract no. : 12N / 2009, **Additional act nr.2/2012 -2012**
30. **Project PN 09120110**: Research studies concerning uranium and heavy metals recovering separation from poor aqueous sources using combined technologies: immobilization on iron nanoparticles and flotation"-2013
31. **NUCLEU PN 09 12 01 19**: Researches concerning uranium recovery from wastewaters through tensioactive medium use
32. **PN 09 12 03 11** Environmental nanoparticles evaluation , Contract nr. : 12N/2009 act adițional nr. 1/2015 , 2015
33. **PN-II-PT-PCCA-2013-4-0608** Integrated system for monitoring and bioremediation of metal/radionuclides contaminated area, acronim IMONBIO, contract 72/2014, 2014-2017

1. Biotechnology for depollution of wastewaters with heavy metal content, poster CONRO 2001, Bucharest, Romania
2. Biotechnology for zinc recovery from wastewaters, poster CONRO 2001, Bucharest, Romania
3. **STOICA MIHAELA**, „*Proceedings for recovering of heavy metals ions and establishing of process parameters*”, Environment and Industry Symposium, 23 – 25 September 1999, Bucharest, Romania
4. BUZOIANU MIRELLA, BOSCAIU MIHAELA, **STOICA MIHAELA**, „*Etalonation, calibration and the adjustment in the spectrofotometric measurements*”, National Conference of Chemistry, 2002, Calimanesti, Romania
5. **STOICA MIHAELA**, „*The adsorption of the substances under ionic form on the biomass*”, Environment and Industry Symposium, 29 – 31 October 2003, Bucharest, Romania
6. STELUȚA NISIPEANU, RALUCA ȘTEPA, **MIHAELA STOICA** Thematic Center, good practices for candidate states- a promoting program for information about prevention of occupational risks for building materials manufacturing, Symposium „To build in safety”, October 2004, Cluj Napoca, Romania
7. **MIHAELA STOICA**, RALUCA – AURORA ȘTEPA, RODICA STANCU, .NICOLAE BĂRBULESCU, EMILIA BĂRBULESCU, Leaching experiments for establishing of waste category, The VI-th Symposium under MEC patronage, Ecology, Surface Cover, Corrosion, 12-14 October 2005, Bucharest, Romania
8. JINESCU GHEORGHITA, **STOICA MIHAELA**, „*Adsorption kinetics of zinc ion under different types of biomass of different origin, respectively bacterial and vegetal*”, Chemical Review, 5, 2005
9. JINESCU GHEORGHITA, **STOICA MIHAELA**, „*Adsorption kinetics modeling of lead ion on vegetal biomass*”, Environment and Industry Symposium, 19-21 October 2005, Bucharest, Romania
10. JINESCU GHEORGHITA, **STOICA MIHAELA**, JEAN PIERRE MAGNIN, „*Adsorption kinetics of copper ion under different types of biomass of different origin, respectively bacterial and vegetal*”, Chemical Review, 11, 2006
11. **STOICA MIHAELA**, JINESCU GHEORGHITA, DOBRE TANASE, „*Similarities and differences between the adsorption of lead and hydrocarbons on biomass of vegetal origin*” The 2nd International Conference on Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG 2006), September 25-27, 2006, Minoa Palace, Hanja, Greece, section – Advances in liquid waste management II, <http://heliotopos.conferences.gr/amireg2006>.
12. **STOICA MIHAELA**, JINESCU GHEORGHITA, NISIPEANU STELUȚA, GODEANU MARIOARA, „*Biosorption of Lead on the plant Pistia Stratiotes*”, Mineral Resources Bulletin, ISSN:1842-290X, volume 4, nr. 2, 2007, presented too at The XIII th Balkan Mineral Processing Congress”, Bucharest 2009, 14-16 June 2009..
13. **MIHAELA STOICA**, Adsorption process in microgravity ” , SpaceLand 1st Expo-Congress 2009, Opportunities in the Mediterranean area for Science Research and Technology Transfer within the Lunar-g, Mars-g and Zero-g Parabolic Flight programs and synergies for Space Tourism, 19-22 September - Chia (Domus de Maria-Cagliari) Sardinia - Italy.
14. **Mihaela Stoica**, Nicolae Tomș , Ioana Popescu: Wastes of Electric and Electronic Equipments – Treasure of the Third Millenium, Conference proceedings: „*Diaspora in Romanian Scientific Research and High Education*”, 21-24 September 2010, Bucharest
15. Ioana-Carmen Popescu, Georgiana Milu, **Mihaela Stoica**, Gheorghe Crutu, Ecaterina Militaru, *Free and Immobilized Microbial Systems-Potential Effective Radioactive Decontaminators*, Book : The New Uranium Mining Boom Challenges and lessons learned, edited by Broder Merkel and Mandy Schipek, Springer Publishing House, (2011)ISBN 978-3-642-22121-7, DOI 10.1007/978-3-642-22122-4, pp.443-44
16. Crutu Gheorghe, Milu Georgiana Rodica, Manea Carmen Elisabeta, **Stoica Mihaela**, Militaru Ecaterina – Decontamination microbiological procedure of polluted waters and soils by radioactive and heavy metals, Patent request no. A/01020 on 04.12.2009.
17. **Mihaela Stoica**, Prezentare proiect Contract 72/2014, Acronim proiect: IMONBIO, Titlu proiect: PN-II-PT-PCCA-2013-4-0608 Sistem integrat de monitorizare si bioremediere a zonelor contaminate cu metale grele si radionuclizi, **Masă rotundă TENDINȚE ACTUALE ÎN EXPLOATAREA DURABILĂ A RESURSELOR MINERALE**, organizată de INCDMRR, 14 decembrie 2016, Bucuresti, București – România,
18. Heavy metals impact: effect on plants, C. Achim (Popa), M. Bercu (Petrus), A.M. Bratu, C. Matei, M. Patachia, **Mihaela Stoica**, Simona Carmen Litescu and D.C. Dumitras, The food factor Barcelona Conference, 2-4 November 2016, Spania