

PERSONAL INFORMATION

Elena Cristina Rada



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Gender feminin | Date of birth 26/07/1978 | Nationality Italian and Romanian

WORK EXPERIENCE

March 2018-present

Senior research grant

 Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Atmospheric emissions of heavy metals from waste incineration and co-incineration: critical analysis and a proposal for an enhanced regulation

Business or sector Environmental Engineering

December 2014-February 2018

Senior research collaborator (post-PhD at DICAM & at DBSV & at DiSTA)

 University of Trento, Department of Civil Environmental and Mechanical Engineering- DICAM, via Mesiano 77, 38123, Trento, Italy, <http://www.unitn.it>

 Insubria University, Department of Biotechnologies and Life Sciences – DBSV, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

 Insubria University, Department of Theoretical and Applied Sciences – DiSTA, via G.B. Vico, 46, 21100, Varese, Italy, <http://www4.uninsubria.it>

Research and modeling of environmental issues, safety and reliability in terms of critical exposure to organic pollutants. In particular:

- odour pollution
- human health

Business or sector Environment–Health–Safety–Territory

2012-September 2014

Senior research assistant post-PhD

 University of Trento, via Mesiano 77, 38123, Trento, Italy, <http://www.unitn.it>

Research and modeling of environmental issues, safety and reliability in terms of air pollution and waste management with energy recovery. In particular:

- Waste selective collection
- Municipal solid waste and biomass biodrying
- Biostabilization of waste organic fraction
- Anaerobic Digestion
- Energy recovery from waste
- Environmental Impact Assessment
- Alternative technologies for sludge treatment
- Air pollution and reduction of human exposure to pollutants

Business or sector Environmental and Energy Engineering

- 2010-2012 **Research assistant post-PhD**
 University of Trento, via Mesiano 77, 38123, Trento, Italia, <http://www.unitn.it>
 Research and modeling of environmental issues, safety and reliability in terms of toxic pollutants emitted into the air: critical issues and population exposure.
Business or sector Environmental Engineering
- 2006-2010 **Research assistant post-PhD**
 University of Trento, via Mesiano 77, 38123, Trento, Italia, <http://www.unitn.it>
 Optimization of biodrying process applied to residual municipal solid waste
Business or sector Environmental Engineering

EDUCATION AND TRAINING

- 2002-2005 **Doctor degree in Power Engineering Sciences (Romania) and Doctor degree in Environmental Engineering (Italy) PhD co-tutelè "Magna cum Laude"**
 Polytechnic University of Bucharest, Romania and University of Trento, Italy
 ▪ PhD title: „*MSW bio-drying before energy valorization*”
- 2002-2003 **Master degree**
 Polytechnic University of Bucharest, Romania
 Specialisation: The impact of energy production and use on the environment and society
- 1997-2002 **Engineer Degree in Environmental Engineering**
 Polytechnic University of Bucharest, Romania
 Specialisation: Environmental Engineering in Energy Production and Use sector
- 1993-1997 **High school degree**
 I.C. Brătianu High school, Pitești, Romania.

PERSONAL SKILLS

Mother tongue Romanian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Writing	Spoken interaction	Spoken production	
	Italian	Very good	Very good	Very good	
	C2				
English	Very good	Very good	Very good	Very good	Very good
	B2				
German	Good	Good	Satisfactory	Satisfactory	Good
	A2				
Spanish	Good	Good	-	-	-

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

- Excellent communication skills gained through experience: presentations at seminars, conferences and international workshops > 100 held in English.
- Excellent communication skills gained through experience as chair-man at international conferences and workshops (> 20).

Organisational / managerial skills

- Excellent organizational skills gained through experience by the organization of the following seminars, conferences and workshops:
 - **"La valorizzazione energetica dei fanghi di depurazione"**, Rovereto (TN), November 2006.
 - **"Il Monossido di Carbonio: da inquinante atmosferico ad agente terapeutico"**, San Michele all'Adige, 10 June 2011
 - **VENICE 2010**, "Third International Symposium on Energy from Biomass and Waste", Venice - Italy, 8-11 November 2010.
 - **VENICE 2012**, "Fourth International Symposium on Energy from Biomass and Waste", Venice - Italy, 12-15 novembre 2012.
 - **Winter School** : "Biochemical and thermochemical pathways for energy generation from waste and biomass", Venezia, Italy, November 2012 (GITISA- IWWG).
 - **VENICE 2014**, "Fifth International Symposium on Energy from Biomass and Waste", Venice - Italy, 12-15 novembre 2012.
 - **VENICE 2016**, "6st International Symposium on Energy from Biomass and Waste", Venice - Italy, 14-17 novembre 2012.
- Fund-raising skills gained at the University of Trento, **2005 to present**
- **Scientific secretariat: Venice 2018 - 7th International Symposium on Energy from Biomass and Waste**, 15-18 October 2018, Venice, Italy

Scientific title

- National scientific qualification (Italy) as associate professor, **2013-present**
<http://abilitazione.miur.it/public/candidati.php?lang=engde>

Didactics experience

- **Since 2006** : teaching activity in under-degree, post-degree and PhD courses in Environmental Engineering at the University of Trento, the University of Padova, the University of Varese in Italy and at the Politehnica University of Bucharest and Lucian Blaga University of Sibiu, Romania.

Research and scientific activity

Scientific papers (> 300) <http://webapps.unittn.it/Uqcvp/it/Web/ProdottiAutore/PER0038284>

- 66 ISI articles and 23 ISI Proceedings
- 137 articles listed **SCOPUS** published in journals of international circulation

H-index: 25

- 5 Co-editor of specialized books & 3 chapters in specialized books

Thesis tutor

- >50 (> 40 IT & > 10 RO)

Coopted Member of the Scientific Committee of a Doctoral School

- Doctoral School on Power Engineering, Politehnica University of Bucharest, **2012 – present**

Research projects and grants evaluator UEFISCDI:

- PCCA **2013**,
- PN II RUTE **2014**,
- PN II ID JRP ROFR **2015**,
- PN III P4 PCE **2016**

Memberships of scientific societies

- GITISA - Gruppo Italiano di Ingegneria Sanitaria Ambientale Urban Mining **2012-present**
- IWWG - International Waste Working Group **2010-present**
- GBC - Green Building Council Italia, LEED sectia QI, **2008-2010**.
- AGIR - General Association of Romanian Engineers , **2014-**

Member in scientific journal editorial boards:

- OMICS Publishing Group : Journal of Bioremediation & Biodegradation
- International Journal of Environment and Resource (IJER - seipub)
- Avances in Energy (AIE)
- International Journal of Environmental Bioremediation & Biodegradation.
- International Journal of Waste Resources (IJWR)
- *Current Advances in Trends in Energy Research* (CATER)
- *Journal of Sustainable Development*
- International Journal of Energy Production and Management
- International Journal of Safety and Security Engineering (Wessex)
- Sustainability (MDP)
- J (MDP)
- International Journal of Environment Impact : Management Mitigation and Recovery (Wessex)

Member in technical commissions

- **2016:** Member of a technical commission nominated by the **Autonomous Province of Trento** for the selection of three **Directors** to assign the positions of preposition to n. 3 structures of the homogeneous technical group, namely:
 - to the waste plant office;
 - to the waste cycle office and remediation of contaminated sites;
 - to the Technical Office (with safety expertise).
- **2016:** Foreign member of the international commission appointed for the selection of the **Director** of the National Institute of Research and Development for Workplace Protection **INCDPM - Alexandru Darabont** - (Bucharest, Romania)

Member in scientific committees at international conferences

- **WSEAS 2010** : Bucharest, Romania, 20-22 April, 2010
EUROPEAN COMPUTING CONFERENCE (ECC '10)
ENERGY AND ENVIRONMENT TECHNOLOGIES AND EQUIPMENT (EEETE '10)
RISK MANAGEMENT, ASSESSMENT AND MITIGATION (RIMA'10)
- **CIEM 2011** : 5th International Conference on Energy and Environment, 3 - 4 November 2011, Bucharest, Romania
- **SUM 2012** - Symposio Internazionale Symposium on Urban Mining, 21 - 23 May 2012, Bergamo, Italy
- **Waste Management 2012** - 6th International Conference on Waste Management and the Environment, 4 - 6 July 2012, New Forest, UK
- **INCER 2012** - Inovation and Collaboration in Engineering Research, 2 - 4 July 2012, Bucharest, Romania
- **MSE2013** - 6th International Conference on Manufacturing Science and Education, 12 - 15 June 2013, Sibiu, Romania
- **ESUS 2013** - 4th International Conference on Energy and Sustainability, 19 - 21 June 2013, Bucharest, Romania
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Research and scientific activity

- **TMREES14** - Technologies and Materials for Renewable Energy, Environment and Sustainability, 10 - 13 April 2014, Beirut, Libanon
- **Waste Management 2014** - 7th International Conference on Waste Management and the Environment, 12 - 14 May 2014, Ancona, Italy
- **SUM 2014** - 2nd Symposium on Urban Mining, 19 - 21 May 2014, Bergamo, Italy
- **SIBESA XII 2014** - Simposio Italo-Basiliro de Engenharia Sanitaria e Ambiental, 2 - 4 June 2014, Natal, Brasil
- **ELSEDIMA 2014** - International Conference Environmental Legislation, Safety Engineering and Disaster Management – 18 - 19 September 2014, Cluj-Napoca, Romania
- **Sustainable City 2014**, 9th International Conference on Urban Regeneration and Sustainability : 23 - 25 September 2014, Siena, Italy (Wessex)
- **ISB INMA TEH 2014** - International Symposium Agricultural and Mechanical Engineering : 30 - 31 October 2014, Bucharest, Romania
- **Venice 2014** - 5th International Symposium on Energy from Biomass and Waste, 17 - 20 November 2014, Venice, Italy
- **Energy and Sustainability 2014** – 5th International Conference on Energy and Sustainability, 16 – 18 December, 2014, Putrajaya, Malaysia
- **SAFE15** - 6th International Conference on Safty and Security Engineering, 6 - 8 may 2015, Opatija, Croatia
- **TMREES15** - Technologies and Materials for Renewable Energy, Environment and Sustainability, 17 - 20 April 2015, Beirut, Libanon
- **MSE15**- 7th International Conference on Manufacturing Science and Education -MSE15: 3 - 5 June 2015, Sibiu, Romania
- **ICIMIE15**- International Conference of Managment and Industrial Engineering : Managment in the Innovation Society - 22-23 October 2017, Bucharest, Romania
- **PVSolec15**-PV Solar Energy Conferences : 4 - 7 September 2015, Beirut, Lebanon
- **CIEM 2015**- Clean and Safe Power : 22 - 23 October 2015, Iasi, Romania
- **ISB-INMA TEH15**- International Symposium on Environmental Engineering, Renewable Energy Sources, Sustainable Agriculatur Engineering : 31 October - 1 November 2015, Bucharest, Romania
- **TMREES 2016**, Technologies and Materials for Renewable Energy, Environment and Sustainability, 15 - 18 April 2017, Beirut, Libanon
- **ICETAS 2016** - 1st International Conference on Engineering Technology and Applied Science, 21 - 22 April 2016, Afyonkarahisar, Turkey
- **SUM 2016** - 3nd Symposium on Urban Mining, 23 - 25 May 2016, Bergamo, Italy (IWWG)
- **Waste Management 2016**- 8th International Conference on Waste Management and Environment , 7 – 9 June, 2016, Valencia, Spain
- **Sustainable City 2016**- 11th International Conference on Urban Regeneration and Sustainability, 12-14 July, 2016, Alicante, Spain
- **Energy Quest 2016** - 2nd International Conference on Energy Production and Management in the 21st Century: The Quest for Sustainable Energy, 6-8 September 2016, Ancona, Italy
- **SIMPRO 2016** - 7th International Multidisciplinary Symposium "Universitaria SIMPRO 2016" : Sustainable Development through quality and Innovation in Engineering and Research, 14- 15 October 2016, Petrosani, Romania
- **VENICE 2016**, "6st International Symposium on Energy from Biomass and Waste", 14-17 novembre 2016, Venice - Italy.
- **ISB INMA TEH 2016** - International Symposium Environmental Engineering, Renevable Energy Sources, Sustainable Agricultural Engineering : 27 - 29 October 2016, Bucharest, Romania
- **TMREES 2017**, Technologies and Materials for Renewable Energy, Environment and Sustainability, 21 - 24 April 2017, Beirut, Libanon
- **TE-RE-RD 2017**- 6th International Conference on Thermal Equipment, Renewable Energy and Rural Development TE-RE-RD 2017, 8-10 June, Moieciu de Sus, Romania
- **Energy and Sustainability 2017**, 7th International Conference on Energy and Sustainability, 20- 22 September 2017, Seville, Spain
- **Sustainable City 2017**, 12th International Conference on Urban Regeneration and Sustainability, 18- 20 September 2017, Seville, Spain
- **MSE2017** - 8th International Conference on Manufacturing Science and Education, 12 - 15 June 2013, Sibiu, Romania
- **SAFE 2017** - 7th International Conference on Safety and Security Engineering-, 6 - 8 September, 2017, Rome
- **ISB-INMA TEH17** International Symposium on Environmental Engineering, Renewable Energy Sources, Sustainable Agriculatur Engineering : 26-28 October 2017, Bucharest, Romania
- **CIEM 2017** : 8th International Conference on Energy and Environment, Energy saved today is assesst for future : 19 - 20 October 2015, Iasi, Romania
- **SESAM17** - International Symposium on Occupational Health ans Safety : 19 October 2017, Bucharest, Romania
- **ICIMIE17** -International Conference of Management and Industrial Engineering : Managment in the Innovation Society - 12-24 October 2017, Bucharest, Romania

Research and scientific activity

- **SUM2018** - 4th Symposium on Urban Mining and Circular Economy: 21-23 May 2018, Bergamo, Italy (IWWG)
- **ICETAS 2018** - 3rd International Conference on Engineering Technology and Applied Science :17-21 July 2018, Skopje Macedonia
- **Energy Quest 2018** - 3rd International Conference on Energy Production and Management: The Quest for Sustainable Energy :10-12 September 2018, New Forest UK (Wessex)
- **Waste Management 2018** - 9th International Conference on Waste Management and the Environment :17-19 September 2018, Seville, Spain (Wessex)
- **TMREES18**- Greece International Conference, Technologies and Materials for Renewable Energy, Environment and Sustainability - 18-20 September 2018, Athens, Greece
- **Venice 2018** - 7th International Symposium on Energy from Biomass and Waste :15-18 October 2018, Venice, Italy (IWWG)
- **SIMPRO18** - 8th International Multidisciplinary Symposium "UNIVERSITARIA SIMRO2018", 11-13 October 2018, Petrosani, Romania
- **ISB-INMA TEH 2018** - 8th International Symposium on Environmental Engineering, Renewable Energy Sources, Sustainable Agricultural Engineering 2018 , 1-3 November 2018, Bucharest, Romania
- **Energy and Sustainability 2019** - 8th International Conference on Energy and Sustainability :3-5 July 2019, Coimbra, Portugal (Wessex)

- **Coordinator** of different activities as foreign partner in TRIPOD project – Restructure of productive practice of students in higher technical education : 2010 -2013.

Reviewer for international scientific journals:

- Aims Energy Journal
- Atmospheric Environment
- Biodegradation
- Bioresource Technology
- Brazilian Journal of Chemical Engineering
- British Journal of Applied Science & Technology (BJAST)
- Chemosphere
- Drying Technology
- Detritus
- Energy Conversion and Management
- Environment, Development and Sustainability
- Environmental Engineering Research
- Environmental Science and Pollution Research
- Engineering Optimization
- Environmental Technology
- Fuel
- Fuel Processing Technology
- Journal of Hazardous Materials
- Ingegneria dell'Ambiente (IDA)
- International Journal of Environment and Resource (IJER)
- International Journal of Environmental Analytical Chemistry
- International Journal of Environmental Science and Toxicology (IJEST)
- International Journal of Environment and Waste Management (IJEWM)
- International Journal of Environmental Bioremediation & Biodegradation (IJEBS)
- International Journal of Environment Impact : Management Mitigation and Recovery
- International Journal of Hydrogen Energy
- International Journal of Sustainable Development & Planning
- International Journal of Waste Resources
- International Journal of Oil, Gas and Coal Technology (IJOGCT)
- International Scholars Journal : International Journal of Pharmacy and Pharmacology
- Journal of Earth Science & Climatic Change
- Journal of Energy Institute
- Journal of Scientific Research and Reports
- Journal of Cleaner Production
- Journal of Sustainable Development (JSD)
- Journal of the Air & Waste Management Association (AWMA)
- Journal of Computational Methods & Experimental Measurements
- Process Safety and Environmental Protection Journal
- Revista Ingenieria y Desarrollo

Research and scientific activity	<ul style="list-style-type: none"> ▪ Resources ▪ Scientific Bulletin, UPB ▪ Science of the Total Environment ▪ Sustainable Energy Technologies and Assessments ▪ Sustainability ▪ The Journal of Poultry Science ▪ Waste Management ▪ Water Research <p>Editor – Special Issue (ISI)</p> <ul style="list-style-type: none"> ▪ Waste Management - editor della Special Issue “<i>Refuse Derived Fuel/Solid Recovered Fuel</i>” vol.47, Part B, pages 155-310 (Jan 2016) ▪ Sustainability- editor of Collection “<i>Risk Assessment and Management</i>” in progress (2017) ▪ Sustainability- editor of Special Issue “<i>Trends in Municipal Solid Waste Management</i>” in progress (2018) ▪ Resources- editor of Special Issue “<i>Management, Environment, Energy and Sustainability under a Circular Economy</i>” in progress (2018)
International Awards	<ul style="list-style-type: none"> ▪ Best Poster Award : 4th edition of the Sardinia Symposia”, October 2013, Italia ▪ "Award for excellence for outstanding achievements and contribution to the prestige of the profession", received from the Lucian Blaga Cultural Center of Sebes, Romania, June 2014 ▪ Award of excellence for outstanding performance" in the International Scientific Committee of the TMREES15 - International Conference Technologies and Materials for Renewable Energy, Environment and Sustainability, 17-20 April 2015, Beirut, Lebanon. ▪ Eminent Scientist Medal of the Wessex Institute of Technology", September 2016 ▪ „Honorary Award for the outstanding scientific contribution to SIMPRO2016”, October 2016, Petrosani University, Romania ▪
Organisational / managerial skills	<ul style="list-style-type: none"> ▪ Leadership: Coordinator of some projects on the Environmental Engineering group at the University of Trento ▪ Fund-raising skills gained at the University of Trento, 2005 to present ▪ Coordinator of different activities as foreign partner in TRIPOD project – Restructure of productive practice of students in higher technical education 2010 -2013 ▪ Coordinator of the 6 groups of the scientific research project -Borgo Acciaieria Valsugana: 2010 - 2013.
Job-related skills	<p>Ability to work in team gained in a professional environment (contract research organization activities)</p> <p>Ability to adapt to multicultural environments gained from research and innovation grants with the following universities:</p> <p>Polytechnic University of Milan (DIAR)</p> <p>University Bocconi of Milano</p> <p>University of Bologna</p> <p>University of Padova</p> <p>University of Insubria</p> <p>Polytechnic University of Bucharest – UPB</p> <p>University “Lucian Blaga” of Sibiu – ULBS</p> <p>University “Valahia” of Targoviste</p> <p>University Pontificia of Santiago del Chile</p>
Computer skills	A very good knowledge of Microsoft Office™
Driving licence	Category : B