

Europass Curriculum Vitae



Personal information

First name / Surname	COCĂRȚĂ, Diana, Mariana
Nationality	Romanian
Date of birth	29 August 1979
Gender	Female
Web	www.dianacocarta.com
Areas of expertise	Teaching and research

Work experience

Dates	October 2022 – onwards
Occupation or position held	Professor Head of the Laboratory for Energy and Sustainable Environment from the Research Centre for Advanced Materials, Products and Processes (CAMPUS) of University POLITEHNICA of Bucharest
Main activities and responsibilities	Teaching activities Research activities in the framework of national and international projects: circular economy, risk assessment, environmental system analysis for pollution control, environmental quality and safety, risk-based approach for the management of contaminated sites, technologies for contaminated soils remediation, waste management, air quality monitoring. Project management
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching activities Research activities
Dates	September 2018 – September 2022
Occupation or position held	Associate professor Head of the Laboratory for Energy and Sustainable Environment from the Research Centre for Advanced Materials, Products and Processes (CAMPUS) of University POLITEHNICA of Bucharest
Main activities and responsibilities	Teaching activities Research activities in the framework of national and international projects: human health risk assessment, environmental impact assessment, risk-based approach for the management of contaminated sites, technologies for contaminated soils remediation, air quality monitoring. Project management
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching activities Research activities

Dates	October 2012 - September 2018
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching activities Research activities in the framework of national and international projects: risk assessment, environmental impact assessment, environmental system analysis for pollution control, environmental quality and safety, air quality monitoring, management of contaminated sites based on risk assessment, technologies for contaminated soils remediation. Project management
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching activities Research activities
Dates	2025 – onwards
Occupation or position held	Industrial energy researcher
Main activities and responsibilities	Analysis and evaluation of the combustion behaviour of hydrogen and methane/hydrogen mixtures, contributions to the development of burner prototypes, emission assessment and characterization of flow processes, as well as planning and ensuring safety elements in the context of research infrastructure development.
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Titlu proiect: "The Romanian Hydrogen and New Energy Technologies Hub / „Hub-ul Român de Hidrogen și Noi Tehnologii Energetice- Ro-HydroHub” / Ro-HydroHub, Program: Smart Growth, Digitalization and Financial Instruments 2021-2027, Priority 1. Supporting and promoting an attractive and competitive RDI system in Romania, Call for projects: PCIDIF/123/PCIDIF_P1/OP1/RSO1.1/PCIDIF_A2 – Support for projects in the field of advanced technologies for the creation of innovation and technology transfer hubs in priority areas, within Action 1.2, SMIS Code: 304724, Contract no.: G 2024-81692/390006 /13.11.2024, project budget ≈ 138.640.000 €, Website: https://www.icsi.ro/ro-hydrohub/
Dates	2023 – onwards
Occupation or position held	WP2 responsible: University Alliance of the Future - long term strategy / teaching and research activities within EELISA Circular Community
Main activities and responsibilities	The development of the Stakeholder Management Framework, and Stakeholder Register within WP 2 University Alliance of the Future - long term strategy / teaching and research activities within EELISA Circular Community
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	project title: „European Engineering Learning Innovation and Science Alliance” / EELISA, Program Erasmus+, Call: ERASMUS-EDU-2023-EUR-UNIV — Partnerships for Excellence – European Universities, project budget ≈ 21.000.000 €, Website: https://eelisa.eu/ https://blogs.upm.es/circulareelisa/about/
Dates	2023 – onwards
Occupation or position held	Technical expert
Main activities and responsibilities	Modelling human exposure for chemical risk assessment to understand health effects because of environmental pollutants in water, air, soil or food.
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	project title: „Establishment and operationalization of a Competence Center for Soil Health and Food Safety”/CeSoH/CeSoH, Component 9-Support for the Private Sector, Research, Development and Innovation Investment I5. Establishment and operationalization of Competence Centers PNRR-III-C9-2022 – I5 Contract de finanțare nr. 760005/30.12.2022, cod 2, project budget ≈ 5.000.000 €, Website: https://www.cesoh.ro/

Dates	2024 – 2025
Occupation or position held	Project manager
Main activities and responsibilities	Project management, responsible for the promoting a deep and shared understanding of the negative impact that mining activities have on soil health, as well as the need to adopt sustainable measures for the rehabilitation and management of affected lands. Application of participatory governance methods through direct involvement of stakeholders in decision-making, public consultations, workshops and the signing of a Territorial Management Agreement for soil health.
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	project title: „Increasing stakeholders' awareness of soil contamination because of mining waste storage”/CresConSMin, proiect pilot ID 318 within HuMUS "Healthy Municipal Soils" project (HORIZON-MISS-2021-SOIL-02 Project number: 101091050), project budget 30.000 €, Website: https://www.cesoh.ro/cresconsmin https://humus-project.eu/open-call/
Dates	2022 – 2025
Occupation or position held	Project responsible on behalf of POLITEHNICA Bucharest
Main activities and responsibilities	Project management, Responsible for the development of different actions/activities/challenges in field of circular economy, as well as for the development of the methodology for co-creation sessions
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	project title: „Circular & Socio-Civic Learning Hub” / CIRC.LE, Program Erasmus+, Call: 2020, KA2 – Cooperation and Innovation for Good Practices, project no 2020-1-RO01-KA203-080085, project budget ≈ 386.320 €, Website: https://blogs.upm.es/circle/ https://circleproject.eu/
Dates	2020 - 2023
Occupation or position held	Sustainability and Dissemination Expert / Assistant WP9 Dissemination and Communication
Main activities and responsibilities	Sustainability and dissemination expert within WP 9 Communication and dissemination – dissemination representative / teaching and research activities within EELISA Circular Community
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	project title: „European Engineering Learning Innovation and Science Alliance” / EELISA, Program Erasmus+, Call: EPP-EUR-UNIV-2020 — European Universities, project no 101004081, project budget ≈ 7.597.000 €, Website: https://eelisa.eu/ https://blogs.upm.es/circulareelisa/about/
Dates	December 2020 – 2022
Occupation or position held	Environmental Expert
Main activities and responsibilities	Consultancy: research and data collection activities for the development of Business-as-Usual Scenarios at national and regional levels if nothing is done to address pollution issues in the Black Sea region – targeted countries Georgia, Moldova, Turkey and Ukraine
Name and address of employer	ambiente spa, Italy
Type of business or sector	Project title: “Blueing the Black Sea GEF Regional project (P173890)” – Consultancy on pollution diagnostic in the Black Sea – Bluing the Black Sea (BBSEA) – Turning the tide of pollution (Ref. no. WB-P597204-11/20). World Bank, Washington, D.C., United States, Website: https://www.worldbank.org/en/home , project budget 169.200 €
Dates	December 2020 – 2023
Occupation or position held	Project manager
Main activities and responsibilities	Project management, Responsible for the development of a new learning module entitled “Environmental risk assessment” and related practical works

Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: „Blended Learning through Innovative Tools for Sustainable and Safety Engineering and Social Inclusion” / SafeEngine, Program Erasmus+, Call: 2020, KA2 – Cooperation and Innovation for Good Practices, project no 2020-1-RO01-KA203-080085, project budget ≈ 263.624 €, Website: http://www.safeengine.eu
Dates	December 2017 – May 2022
Occupation or position held	Scientific Manager and Long-term expert
Main activities and responsibilities	Scientific management, coordination of research activities related to valorisation of organic wastes by composting process
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: “Operational processes and systems for the treatment and material and energy valorization of waste”/PROVED; ID P_40_301, SMIS code 105707, The Sectorial Operational Programme Increase of Economic Competitiveness (SOP-IEC) 2014-2020; Axis 1 - Research, Technological Development and Innovation (RDI) in Support of Economic Competitiveness and Business Development; Action 1.2.3 - Knowledge Transfer Partnerships; project budget 2.400.000 €, Website: https://www.proved.ro/despre_noi.html
Dates	May - November 2019
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to the development of environmental tools for assessing the extent of exposure and effects of air pollution, research activities in the environmental engineering field
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: “Tools for exposure assessment of air pollution with fine particulate within urban areas”/ SEPFINE; ctr. No 23/02.05.2019; Research Grant financed by The Academy of Romanian Scientists, project budget 10.000 €
Dates	February - July 2019
Occupation or position held	Environmental Expert
Main activities and responsibilities	Consultancy: research and data collection activities in establishing the methodological approach for the preliminary evaluations; identification of pollution sources at the investigated site; collection, processing, and interpretation of the collected data on pollutants’ concentrations in soil and sludge; evaluation of the sludge management options and recommendation of the optimal solution.
Name and address of employer	Fichtner Environment, Turturelelor street, 11a, sector 3, Bucharest, Website: https://www.fichtner.ro/
Type of business or sector	Project title: “Report of preliminary investigation and evaluation - Sludge drying platform from the station wastewater treatment Bacău”, Romania.
Dates	October 2018 -December 2019
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to different technologies for soil remediation (biologic and electro-kinetic remediation), research activities in the environmental engineering field
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: “Degradation of organic compounds from soil through coupling of electrochemical and biological remediation methods”/ ELBIOCOM; ID 71; National Grants, (GNac 2018 ARUT), University POLITEHNICA of Bucharest, project budget 10.000 €

Dates	October 2015 – November 2017
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to different technologies for soil remediation (thermal treatment and electro-remediation), development of a software tool for human health risk assessment from contaminated sites with petroleum products
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: “ <i>Optimized decision for petroleum contaminated sites management based on human health risk assessment and cost-benefit analysis/ REMPET</i> ” - PNII-RU-TE2014-4 – 2348, contract no 354/01.10.2015, project budget 549.700 lei ≈ 122.200 €
Dates	September 2015 – August 2018
Occupation or position held	Trainer
Main activities and responsibilities	Responsible for the development of a new course Soil and Air Quality Monitoring Techniques
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching and research activities – project title: „ <i>Environmental learning innovation for more knowledge and better jobs</i> ”/EnvyJobs, Program Erasmus+, Call: 2015, KA2 – Cooperation and Innovation for Good Practices, project no 2015-1-RO01-KA203-015089, project budget ≈ 282.260 €, Website: http://envyjobs.pub.ro
Dates	September 2014 – August 2017
Occupation or position held	Trainer
Main activities and responsibilities	Responsible for the development of a new Laboratory for pollution risk assessment concerning human and environmental health (RISK-Lab)
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching and research activities – project title: „ <i>Educational Laboratories Platform for Complex Engineering Processes with Remote Access</i> ”/EduLabFrame, Program Erasmus+, Call: 2014, KA2 – Cooperation and Innovation for Good Practices, field Strategic Partnerships for higher education, project no 2014-1-RO01-KA203-002986, project budget ≈ 254.445 €
Dates	July 2015 – December 2015
Occupation or position held	Trainer
Main activities and responsibilities	Assessment and analysis of the environmental aspects related to the coal combustion technologies
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Teaching and research activities – project title: „ <i>Educational and Training System for Clean Coal Technology</i> ” / CleanCOALtech, Lifelong Learning / Leonardo da Vinci Programme, project no LLP-LdV/TOI/2012/RO/007, contract budget ≈ 440.000 €
Dates	January 2013 – November 2014
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to thermal treatment for contaminated soils and consequences on environment and human health, research activities in the environmental engineering field (human health risk assessment from historical contaminated sites with toxic and persistent pollutants)
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro

Type of business or sector	Project title: „Contaminated sites assessment for the reduction of environmental pollution by risk-based approach” / RISKASSESS, Seventh Framework Programme FP7, Capacities programme, contract no. 606/01.01.2013, project budget 56.004 lei ≈ 12.800 €
Dates	August 2012 – August 2014
Occupation or position held	Project manager
Main activities and responsibilities	Project management, development of a software tool for human health risk assessment from power plants and processing industry
Name and address of employer	ECORISK Start-up, Romania
Type of business or sector	Project title: “Management system for individual risk to public health based on the evaluation and control of industrial pollution caused by micro-pollutant emissions from combustion plants in the energy and processing industries”, POS-CCE - O2.3.1., contract no. 393/01.08.2012, project budget 850.897 lei ≈ 190.000 €
Dates	June 2010 – August 2013
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to the development and test of different technologies for soil remediation (bioremediation, thermal treatment, electro-remediation), development of a software tool for human health risk assessment from contaminated sites with toxic and persistent pollutants
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: “Multicriteria decision support system for the remediation of historical contaminated industrial areas with persistent and toxic pollutants” - RECOLAND, POS-CCE - O2.1.2., contract no. 182/18.06.2010, project budget 5.936.398 lei ≈ 1.500.000 €
Dates	October 2007 – October 2009
Occupation or position held	Project manager
Main activities and responsibilities	Project management, coordination of research activities related to evaluation of environmental impact and health risks associated with the chemical releases from power plants into the environment
Name and address of employer	National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Type of business or sector	Project title: “Human Health Impact from Power Plants” / IENAS, contract no. 5/1.10.2007, PN II – RP1, CNCISIS, project budget 510.000 lei ≈ 125.000 €
Dates	October 2003 – October 2007
Occupation or position held	PhD. Student
Main activities and responsibilities	Research activities in the environmental engineering field in the framework of the PhD research, research activities in the framework of national (Italian) and international projects related to environmental impact assessment
Name and address of employer	Trento University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trento, Italy, Website: http://www.unitn.it
Type of business or sector	Research, coordination of research activities related to environmental impact assessment, teaching activities
Dates	January – April 2007
Occupation or position held	Assistant researcher
Main activities and responsibilities	Research activities related to epidemiological studies concerning waste incineration and human health risk assessment
Name and address of employer	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it

Type of business or sector	Project title: “ <i>Critical analysis of epidemiological studies related to human health impact from waste incineration plants</i> ” (“Analisi critica di studi epidemiologici riguardanti gli impatti sulla salute da impianti di termovalorizzazione dei rifiuti”)
Dates	February 2006 – November 2007
Occupation or position held	WP9 coordinator assistant, assistant researcher
Main activities and responsibilities	Team assistant for Work package 9 coordination, research activities related to environmental and human health impact from highway transport
Name and address of employer	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it
Type of business or sector	Project title: ALPNAP – „ <i>Monitoring and Minimisation of Traffic-Induced Noise and Air Pollution Along Major Alpine Transport Routes</i> ”, Interreg III B – Alpine Space, (project budget 1.989.478 € ≈ 8.356.000 lei), Website: http://www.alpnap.org
Dates	October – November 2006
Occupation or position held	Assistant researcher
Main activities and responsibilities	Research activities related to the Evaluation of the Potential Health Effects from Municipal Sludge Incinerators
Name and address of employer	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it
Type of business or sector	Project title: “ <i>Comparative study related to human health impact assessment from sludge incinerators in Bozen Province</i> ” („Studio comparative propedeutico alla valutazione di impatto ambientale per un impianto di smaltimento di fanghi in provincial di Bolzano”)

Education, training and scientific degree

Dates	2025
Title of qualification awarded	Postgraduate studies within the CORPORATE GOVERNANCE IN PRACTICE program (Corporate Governance Creates Value) accredited by the Ministry of Education and Research of Romania
Name and type of organisation providing education and training	Envisia Business School in partnership with the Romanian-American University
Dates	2022
Title of qualification awarded	Habilitation according to the Italian National Scientific Habilitation/ASN- 08/A2 – Sanitary and Environmental Engineering, Hydrocarbons and Underground Fluids, Safety and Protection Engineering – Associate Professor
Name and type of organisation providing education and training	Italian Ministry of Education
Dates	2020
Title of qualification awarded	Habilitation in Energy Engineering according to the Romanian Ministry of Education and Research Order no. 4046 / 09.04.2020. Habilitation thesis: “ <i>Energy, Environment and Health</i> ”
Name and type of organisation providing education and training	Romanian Ministry of Education and Research
Dates	2003 – 2007
Title of qualification awarded	PhD in energy engineering (MAGNA CUM LAUDE award). PhD thesis: “ <i>Public Health Impact from Waste-to-Energy Plants</i> ”
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Dates	2003 – 2007

Title of qualification awarded	PhD in environmental engineering. PhD thesis: " <i>Public Health Impact from Waste-to-Energy Plants</i> "
Name and type of organisation providing education and training	Trent University, Engineering Faculty, Mesiano Street, no. 77, 38123, Trent, Italy, Website: http://www.unitn.it
Dates	2003 – 2004
Title of qualification awarded	Master's degree in Power Generation Environmental Impact. Master thesis: " <i>Critical analysis of different methods for the assessment of health effects from toxic and persistent atmospheric pollutants</i> "
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro
Dates	1998 – 2003
Title of qualification awarded	Environmental engineer / economic engineering
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Energy Engineering, Department of Energy Production and Use, Splaiul Independenței street no. 313, sector 6, 060042, Website: http://www.upb.ro

Summary of Courses Taught

At University POLITEHNICA of Bucharest, Romania:

- *Air Quality Monitoring and Control*, Master course, October 2017 – present
- *Human Health Risks from Non-Renewable Energy*, Master course, October 2017 – present
- *Soil and Air Quality Monitoring Techniques*, Master course, Master course October 2017 – present
- *Environmental and economic aspects of energy conversion*, October 2017 – present
- *Environmental Systems Management*, Master course, October 2012 – present
- *Remediation Technologies for Cleaning Up Contaminated Sites*, Undergraduate course, October 2014 – present (partially)
- *Quality Safety Environmental Management System*, Master course, October 2012 – June 2016
- *Sustainable development*, Master course, October 2012 – June 2015
- *Greenhouse gas emissions and waste management*, Undergraduate course, October 2012 – June 2014 (partially)

At University of Trento, Italy:

- *Basics of Ecology and Chemistry*, PhD course, March 2007
- *Integrated Waste Management*, BSc course, November 2006
- *Waste treatment technologies*, BSc course, November 2006

Commissions of trust

Institutional responsibilities

Member of the Oral Defence Committee for PhD, Dissertation and MSc Thesis Defence, UPB

Member of the Committee for Admissions to Master Studies in Environmental Management and Sustainable Development, National University of Science and Technology POLITEHNICA Bucharest

Coordinator of the Master's Program *in Smart Cities Engineering and Management*, UNESCO Department, Politehnica Bucharest

Member of the Commission of National University of Science and Technology POLITEHNICA Bucharest for establishing the resolution regarding the fulfilment of the Habilitation standards according to the Decision no 75 08/10/2020 of University Board of Directors (2020 – 2022)

Responsibilities outside the institution

Member of the Body of Experts from the National Register of Experts for the certification of research and development activity, based on Ministerial Order no. 20242/13.02.2023. The field of intelligent specialization at the national level: 6. Environment and eco-technologies, Romanian Ministry of Research, Innovation and Digitization.

Member of the Scientific Advisory Board, CT53 Air, CT285 Soil and CT360 Characterization of waste and sludge, National Standardization Body, Romania

Member of the Strategic Environmental Assessment (SEA) working group for the "National Strategy for the Development of the Nuclear Sector in Romania for the period 2020-2030, with a perspective for 2050", Ministry of Energy

Member of the Working Group on the Regulation of Compost, Ministry of the Environment, Romania

Expert evaluator for environmental studies according to the registration in the National Register of Developers of Studies for Environmental Protection according to the provisions of the MMAP Order no. 1134 / 20.05.2020 - since 09.10.2020 published in the Official Gazette, Part I no. 445 / 27.05.2020

Member of the National Society of Science and Environmental Engineering, since 2018

Referee/Reviewer for scientific journals, organizer/member for scientifically events, awards

Member of the Scientific Committee for the international conference SIDISA 2024, XII International Symposium on Environmental Engineering, Palermo, Italy, October 1 – 4, 2024, <https://www.sidisa2024.org/committee/>

Member of the Scientific Committee for the international conference Energy and Environment, CIEM, Politehnica Bucharest, Romania <http://ciem.upb.ro/2025/index.html>

Guest Editor for the Special Issue for *Environmental Risk Assessment and Sustainable Remediation Approaches* of Sustainability, ISSN: 2071-1050, November 2020 – January 2022

Member of the Scientific Committee for the international conference MSE 2021, Manufacturing Science and Education 2021 (MSE) International Conference, 2-4 June 2021 in Sibiu, Romania

Reviewer for *International Journal of Energy and Environmental Engineering (IJEEE)*, ISSN: 20089163, Springer, since 2020

Commissions of trust

Referee/Reviewer for scientific journals, organizer/member for scientifically events, awards

Reviewer for Environmental Processes, ISSN: 2198-7491 (Print), 2198-7505 (Electronic), Springer, since 2019

Organizer for the Educational Laboratories Platform for Complex Engineering Processes with Remote Access conference on August 30, 2017, within the EduLabFrame project - Erasmus+ project 2014-1-RO01-KA203-002986.

Reviewer for International Journal of Environmental Science and Technology (INT J ENVIRON SCI TE) ISSN: 1735-2630 (Electronic), 1735-1472 (Print), Springer, since 2016

Member of the Scientific Committee of the 8th International Symposium on Cement Based Materials for a Sustainable Agriculture, Environmental Approaches – Moving Forward Agricultural Farm Sustainability (CIGR International Symposium & B.EN.A Conference), Iasi, Romania, 22 – 25 October 2015.

Coordinator for the workshop *Contaminated soils remediation and human health risk assessment*, 7th June 2013, Sinaia, Prahova, National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering.

Reviewer for Scientific Bulletin of University POLITEHNICA of Bucharest, since 2012

Coordinator for the exploratory workshop no 32: *Environment and health in the national and international context*, 26th – 27th September 2012, National University of Science and Technology POLITEHNICA Bucharest, Faculty of Energy Engineering, Bucharest

Certificate or other specialized education

Certificate *IMMI software*, Wölfel, Höchberg Germany, 29/05/2008.

Certificate *Energy and development cooperation: knowledge, transfer and sharing of technology / Energia e cooperazione allo sviluppo: conoscenza, trasferimento e condivisione di tecnologia* Engineering Without Borders - Ingegneria Senza Frontiere Trento (ISF), Italy, 2006.

Certificate *GRASS and Free Open-Source GIS*, Department of Civil and Environmental Engineering (DICA) and Centre for Advanced Studies on Hydrogeological Risk in Mountain Areas (CUDAM), University of Trento, Italy, 30.06.2006.

Certificate *Appropriate Technology for Water Supply and Sanitation in Developing countries*, Engineering Without Borders - Ingegneria Senza Frontiere Trento (ISF), Italy, 2005.

Certificate *Potential of flow cytometry in the analysis of environmental matrices*, Department of Civil and Environmental Engineering (DICA), University of Trento and Autonomous Province of Trento, Italy, 2005.

Certificate no 1709 *Psycho-pedagogical and methodical training*, Teacher Training Department, University POLITEHNICA of Bucharest, Romania, 22.03.2004.

Certificate no *Aut oCAD R13, nr. UPEG – B – 001 – 945*, AutoCAD Training Center Energetica, Thermo-Hydraulic Research Center, University POLITEHNICA of Bucharest, Romania, 28.06.1999.

Certificate no 67 *Analyst Programmer*, Ministry of Education, Romania, 19.08.1998.

Recognition of scientific contributions

Member of the Board of Directors of the "National Society for Environmental Science and Engineering" - SNSIM since October 2024

Corresponding member of the of Academy of Romanian Scientists, since June 2025

Member of the National Society of Science and Environmental Engineering, since 2018

Secretary of the Commission for Occupational Safety and Health of Academy of Romanian Scientists, since 2016

Recognition of scientific contributions

Recognition of the Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI) in the framework of the Program: Human Resources - Competition "The research results' award":

- 2020 for the research paper "*Development of laboratory-scale sequential electrokinetic and biological treatment of chronically hydrocarbon-impacted soils*", S. Crognale, **D.M. Cocârță**, C. Streche, A. D'Annibale, *New BIOTECHNOLOGY* 58 (2020) 38–44, ISSN: 1871-6784 [ISI IF 3.740], PN-III-P1-1.1-PRECISI-2020-44474

- 2019 for the research paper "*Pilot-Scale Anaerobic Co-Digestion of the OFMSW: Improving Biogas Production and Start-up*", C. Stan, G. Collaguazo, C. Streche, T. Apostol, **D.M. Cocârță**, *Sustainability* 2018, 10(6), 1939; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, 2019 PN-III-P1-1.1-PRECISI2019-29880

- 2018 for the research paper "*Decontamination of petroleum-contaminated soils by using the electrochemical technique: remediation degree and energy consumption*", S. Constantin, **D.M. Cocârță**, I.A. Istrate, A.A. Badea, *Scientific Reports - Nature*, *Scientific Reports* volume 8, Article number: 3272 (2018), ISSN 2045-2322, 2018 PN-III-P1-1.1-PRECISI2018-23531

- 2018 for the research paper "*Minimizing the Health Risks from Hydrocarbon Contaminated Soils by Using Electric Field-Based Treatment for Soil Remediation*", **D.M. Cocârță** et al., *Sustainability* 2017, 9(8), 1365; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, IF 1.789; 2018 PN-III-P1-1.1-PRECISI-201823519

- 2017 for the research paper "*Crude Oil Contaminated Sites: Evaluation by Using Risk Assessment Approach*", **D.M. Cocârță**, M.A. Stoian, A. Karademir, *Sustainability* 2017, 9(8), 1365; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, (DOI:10.3390/su9081365), PN-III-P1-1.1-PRECISI-2017-18686

- 2017 for the research paper "*Graphical methodology of global pollution index for the environmental impact assessment using two environmental components*", C. Cojocaru, **D.M. Cocârță**, I.A. Istrate, I. Crețescu, *Sustainability* 2017, 9(4), 593; EISSN 2071-1050 Published by MDPI AG, Basel, Switzerland, PN-III-P1-1.1-PRECISI-2017-18688

- 2013 for the research paper "*The assessment of an alternative treatment for PCB polluted soils in the Romanian context - bench scale tests*", *Water air and soil pollution*, vol. 224 (4), ISSN: 0049-6979 (print version), ISSN: 1573-2932 (electronic version), March 2013, 2013 PN-II-RU-PRECISI-2013-7-3295

Bibliography included in the Marquis Who's Who in the World 2012, edition no 29, Marquis Who's who, New York, USA, 2012.

Awarded for the best science research paper presented by young researchers at the Regional Energy Forum - FOREN 2008, Romania. Methodologies for assessing human health risk from power plants, T. Apostol, Cocarta D, A. Badea.

Evaluation activities for national and international competitions

Expert evaluator for the selection committee of MISCEA thesis offers within the MSCA Cofund program "MISCEA" (Modelling and Interdisciplinarity Science for the Ecological trAnstition), a doctoral program coordinated by the École des Ponts ParisTech, France, and co-funded by the European Union as part of Marie Skłodowska-Curie Actions (MSCA) June 5th, 2024

Expert evaluator for the Executive Agency for Higher Education, Research, Development and Innovation Funding within the call within the Partnerships for Innovation Program, Partnerships for competitiveness subprogramme, Experimental Demonstrative Project, 2024 Call for proposals

Member of the Body of Experts from the National Register of Experts for the certification of research and development activity, based on Ministerial Order no. 20242/13.02.2023. The field of intelligent specialization at the national level: 6. Environment and eco-technologies, Romanian Ministry of Research, Innovation and Digitization.

Expert evaluator for the Romanian Ministry of Research, Innovation and Digitization for the proposals of core programs and component projects, in the framework of the Program Competition Research - development nucleus within the National Plan for Research, Development and Innovation 2022 – 2027, December 2022.

Expert evaluator for the Executive Agency for Higher Education, Research, Development and Innovation Funding within the call PN-III-CERC-CO-PTE-3-2021, Program 2. Increasing the competitiveness of the Romanian economy through research, development and innovation, Subprogram 2.1. Competitiveness through research, development and innovation – Transfer project to the economic operator, 2021

Evaluation activities for national and international competitions

Member of the Selection Committee for the projects under the Call POC/752/1/1/Large RD infrastructures – Call 2 Clusters, action 1.1.1 (A-B-F) Large RD infrastructures, September 2021

Member of the Selection Committee for the projects under the Action - 1.1.3 “Creating synergies with RDI actions of the EU’s HORIZON 2020 framework program and other international RDI programs” within the call POC 77 (project type RO-EIT) and respectively POC 78 (project type ESFRI-ERIC), in accordance with the Ministerial Order no 5957/04.11.2020 – November 2020

Expert evaluator for environmental studies according to the registration in the National Register of Developers of Studies for Environmental Protection according to the provisions of the MMAP Order no. 1134 / 20.05.2020 - since 09.10.2020 published in the Official Gazette, Part I no. 445 / 27.05.2020

Independent expert for the proposed research projects of The National Council of the Higher Education’s Scientific Research (CNCSIS) Romania – March 2020

Expert evaluator for the Executive Agency for Higher Education, Research, Development and Innovation Funding within the call PN-III-CERC-CO-PTE-2-2019, Program 2. Increasing the competitiveness of the Romanian economy through research, development and innovation, Subprogram 2.1. Competitiveness through research, development and innovation – Transfer project to the economic operator, 2019

Patents, registered software

Co-author of the **industrial utility model application approved** for *Method and equipment for electro-chemical technology application with change of polarity, for matrices polluted with organic / inorganic contaminants (soil, mud, silt, water)* in 17.08.2020.

Registered software *Remediation of contaminated sites with petroleum products based on source-pathway-receptor conceptual model and cost-benefit analysis (REMPET)* - Register certificate Series S5003566 Nr. 001788BI Nr. 08929/04.12.2017.

Registered software *Informatic system for the assessment of human health individual risk based on the evaluation and control of industrial pollution due micro-contaminants pollutants from combustion systems belonging to energy production and manufacturing industry (EcoRisk system)* – Register certificate Series S5003566 No 06713/21.07.2014.

Registered software *Multicriteria decision support system for the remediation of historical contaminated industrial areas with persistent and toxic pollutants (RECOLAND)* - Register certificate Series S5003007 No 06159/26.08.2013.

Personal skills and competences

Mother tongue

Romanian

Other languages

Self-assessment

European level (*)

Italian

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Independent user
C1	Proficient user	C1	Proficient user	B2	Proficient user	B2	Proficient user	B2	Independent user
A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(*) *Common European Framework of Reference for Languages*

Social skills and competences

Communication skills and adaptability to multicultural environments gained through the experience abroad during the doctoral research developed in Italy, participating in more than 10 training courses abroad, but also because of the experience gained in the Italian Association of Engineering without Borders whose membership I was for a period of three years (2004-2007).

Organisational skills and competences

Important experience in project management and research project implementation. For instance, I have managed 3 projects financed by the European Union under the Sectoral Operational Programme - Improvement of the Competitiveness of Enterprises SOP –ICE, 2007 – 2013, project with a budget of about 1.500.000 € and 190.000 €, respectively, and under Erasmus+ Programme / Strategic Partnerships (263.624 €) and two projects financed by the national Government (project budget 125.000 € and 122.000 €, respectively). Member of the research teams belonging to different national and international projects. Currently involved in the development of the consultancy project on pollution diagnostic in the Black Sea – Bluing the Black Sea (BBSEA) – Turning the tide of pollution financed by the World Bank (project budget 169.200 €).

Computer skills and competences | Operating system: Windows
Programming: C + +, Mat Lab
Software Packages: Word, Excel, PowerPoint, ExternE

Driving licence | Category B

Additional information

International cooperation: in charge with different Erasmus bilateral agreements for 6 universities from different countries as Italy, Germany, Greece, Turkey, Portugal, and Spain.

Publications in summary:

- **4 books and 7 chapters** published by national and international Publishing Houses from Romania and abroad
- **2 Guidelines for Laboratory Practices**
- **over 100 scientific papers**, between these:
 - 26 scientific papers published in international journals ISI indexed between which one was published in Nature Scientific Reports (IF 4.259)
 - 17 papers presented and published in ISI proceedings of different international conferences
 - 15 scientific papers published in international IDB indexed journals
 - 4 papers presented and published in IDB proceedings of different national or international conferences
 - 9 scientific papers published in national and international journals (with ISBN or ISSN)
 - 15 papers presented at different national or international conferences
 - different other unpublished communications