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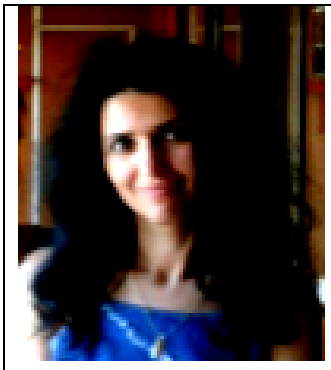
Summer Field School [Online] on
MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT
Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021

DELEGATE PARTICIPANT'S PROFILE

	**Dr. Cristiana Radulescu** *Head* Institute of Multidisciplinary Research for Science and Technology Faculty of Science and Arts Valahia University of Targoviste Targoviste, Romania Tel: +40729851455 Email: radulescucristiana@yahoo.com; cristiana.radulescu@valahia.ro
Highest Education	Ph.D. in Chemical Engineering; Habil. dr. in Environmental Engineering
Personal Statement	Dear colleagues! Further I would like to present myself as the delegate participant for the forthcoming Summer School on 'Mountain Ecosystems and Resource Management'. Currently, I am Director of Institute of Multidisciplinary Research for Science and Technology from Valahia University of Targoviste, (ICSTM-VUT), Romania. Former vice-dean of Faculty of Science and Arts, I am the President of Targoviste Branch – Romanian Chemical Society, from 2006, and member in EUCHEMS, Division of Chemical Education, from 2018. I received PhD degree in Chemical Engineering and habilitation in Environmental Engineering from Politehnica University of Bucharest. From 2008 till 2016 she was EIM and BM Evaluator through National Agency of Environmental Protection, Romania, and from 2018 she is Evaluator/Expert of EU Toys Certification, according to Toy Safety Directive 2009/48/EC, from Romanian Movement for Quality (RMQ). Over 28 years' experience in the research area, I gain a strong expertise, in synthesis and characterization of organic compounds and advanced materials for application in nanomedicine. My research deals with different aspects of nanomaterials, medicinal chemistry, and environmental chemistry as well. Project manager involved in 37 international and national RDI project (Horizon 2020, Horizon Europe-EIT KICs-HEIs, COST, EAA), author over 200 articles (157 in ISI journals), 25

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	books/chapters, 15 national/international awards on invention contests, 2 international report, 5 patents, Hirsch Index = 22 (Web of Science); 22 (Google Scholar); 17 (Scopus). I am VUT Head for scientific cooperation with JINR Dubna, Russia through bilateral project VUT-JINR (from 2015 – to up to date). I am listed in Marquis Who's Who in the World, USA and Marquis Who's Who in Science and Engineering, USA. Editor-in-chief of Journal of Science and Arts (in Web of Science since 2015); Editor of Special Issue of Coatings MDPI journal – Recent Trends in Coating of Biomaterials; Guest Editor of Special Issue on Applications of Chemometrics in the Pharmaceutical and Food Sciences and Industries - Challenges and Opportunities, Journal of Chemistry; Editorial Member Board of World Journal of Applied Chemistry. Reviewer of periodical journals.
Paper/Presentation Title (Unpublished Research or Review or Field Work)	*Environmental Chemical Contaminants: Scientific Evidence and Public Health Risk Awareness*
Keywords	Biomonitoring; Analytical techniques; Heavy metals; pollution; PM2.5; Health risk
Abstract (100-300 words)	This review is dedicated to the initiation into the chemistry of environmental pollutants/contaminants, including their classification, basic notions about their stability, analytical techniques used in environmental analyzes, methods of monitoring the most important pollutants, correlated with potential risks health awareness. Several significant results regarding the bioaccumulation capacity of heavy metals by a series of mushrooms/perennial medicinal plants/mosses, frequently used as food or in natural treatments supported by traditional medicine, being thus admitted in the category bioindicator species, are highlighted. Currently, the passive/active biomonitoring technique of soil/air is considered a technique with minimal costs, ecofriendly, frequently used in close correlation with sensitive, high-performance analytical. The biomonitoring technique of air pollutants (heavy metals, nitrogen, ozone, POPs, and PAHs) using mosses proved to be a complementary method to analytical techniques, for the evaluation and identification of areas with risk of air pollution. On the other hand, radiation dose and heavy metals

	from high-risk, decommissioned/conserved mining areas, including tailing dumps with a higher impact on vegetables represent valuable information for scientists worldwide. In addition, particulate air pollutants have been associated with increased respiratory, cardiovascular, and cancer mortality and morbidity, and with other health problems. It is well known that fine particles have high concentrations of many potentially toxic trace metals, such as cadmium, chromium, copper, iron, manganese, nickel, lead, and zinc that can be incorporated into the body through inhalation. Risk assessments can provide reliable information for medical investigations and especially in understanding PM-related health effects. Airborne particles exist as solid/liquid, with diameters ranging from 0.002 to 100 µm. Particles with a size larger than 2.5 µm are classified as coarse particles. Several epidemiological studies have shown that a rise in PM2.5 concentrations in the atmosphere led to an increase in respiratory and cardiovascular diseases among the population of the planet.
More Information (weblinks)	ORCID ID 0000-0003-1208-7732 Researcher ID: B-4847-2011 Scopus Author ID: 56266100500 BrainMap ID: U-1700-038N-8464 http://www.ad-astra.ro/asso/members.php?lang=ro https://www.researchgate.net/profile/Cristiana_Radulescu https://www.scopus.com/authid/detail.uri?authorId=56266100500 https://publons.com/researcher/1475050/radulescu-cristiana/ https://www.mendeley.com/profiles/cristiana-radulescu/ https://scholar.google.ro/citations?user=Eh9Mt04AAAAJ&hl=en https://www.brainmap.ro/cristiana-radulescu