

Program	Program Nucleu, contract 20N/2019, project code: PN 19 04 02 02
Project title (ENG):	Alignment of methods/methodologies for assessing air quality with the requirements of regulations on reducing emissions and improving the quality of life in the current context of climate change, acronym: QALAIR
Project title (RO):	Alinierea metodelor/metodologiilor de evaluare a calitatii aerului la cerintele reglementarilor privind reducerea emisiilor si imbunatatirea calitatii vietii in contextual actual al schimbarilor climatice, acronim: QALAIR
Duration	2019-2022
Team Leader	PhD Eng. Elena Bucur
Summary (short description) ENG	The overall objective of the project was to initiate new areas of research and/or deepening of those already developed and to enrich the portfolio of works that come to meet the economic environment faced with the implementation of new international environmental regulations. One of the specific objectives of the project aims to address and identify solutions to the problems faced by the economic environment in implementing the requirements of the provisions of the BAT Conclusions (BATC) adopted by the European Commission Decisions, in order to facilitate the implementation of Directive 2010/75/EU, aimed to control the main industrial activities. Another specific objective concerned was a domain of stringent actuality, with direct effect on the health and comfort of the population, namely the assessment of the level of air pollution related with smell, focusing on the activity of storing urban waste. We aim in this aspect to address on national level a program to assess the level of smell in the most problematic areas and to take a real, quantifiable image on the level of odour present pollution. New methods/methodologies for assessing the quality of air inside buildings will be addressed and developed, with a focus on classes of compounds introduced in this environment through intensive use of cleaning, maintenance, ambience and/or safety products, as well as the development of new methods of monitoring air quality using plants (biomonitoring). Finally yet importantly, a series of research will be started in the field of submicronic particle pollution and with potential effect on the health of the population.
Summary (short description) RO	<i>Obiectivul general al proiectului</i> l-a reprezentat abordarea de noi domenii de cercetare si/sau aprofundarea celor deja dezvoltate si imbogatirea portofoliului de lucrari care vin in intampinarea mediului economic pus in fata implementarii noilor reglementari internationale de mediu, <i>Unul dintre obiectivele specifice ale proiectului</i> vizeaza abordarea si identificarea unor solutii la problemele cu care se confrunta mediul economic in implementarea cerintele prevederilor Concluziilor BAT (BATC) adoptate prin Deciziile Comisiei Europene in vederea facilitarii implementarii Directivei 2010/75/UE vizand controlul principalelor activitati industriale. <i>Un alt obiectiv specific</i>

	<p>viza un domeniu de stricta actualitate, cu efect direct asupra sanatatii si confortului populatiei, respectiv evaluarea nivelului de poluare a aerului cu miros, cu accent pe activitatea de depozitare a deseurilor urbane. Ne propunem in acest sens abordarea la nivel national a unui program de evaluare a nivelului de miros din cele mai problematice zone si realizarea unei imagini reale, cuantificabile, asupra nivelului de poluare cu miros la ora actuala. Vor fi abordate si dezvoltate noi metode/metodologii de evaluare a calitatii aerului din interiorul cladirilor, cu accent pe clase de compusi introdusi in acest mediu prin utilizarea intensiva a produselor de curatare, intretinere, ambianta si/sau siguranta dar si dezvoltarea de noi metode de monitorizare a calitatii aerului cu ajutorul plantelor (biomonitoring). Nu in ultimul rand vor fi demarate o serie de cercetari in domeniul poluarii cu particule submicronice si potentialul efect asupra sanatatii populatiei.</p>
Dissemination of results	
Full-paper ISI	<i>Biomonitoring climate change and air quality assessment using bioindicators as experimental model</i> , Andreea Cozea, Elena Bucur, Andrei Vasile, Catalina Stoica, Management & Marketing Challenges for the Knowledge Society, vol 13, pag. 663-672, 2019
Full-paper BDI	<i>Biological monitoring used in assessment of the air pollutants</i> , Andrea Cozea, Elena Bucur, International Symposium "The Environment and the Industry, SIMI 2019, Proceedings Book, pp. 152-159, 2019.
	<i>The influence of emission sources on particulate matter pollution in adjacent areas</i> , Valeriu Danciulescu, Luoana Florentina Pascu, Mihaela Petrescu, Andreea Cozea, Raluca Diodiu, Gheorghita Tanase, M. Pasca*, International Symposium "The Environment and the Industry", SIMI 2019, Proceedings Book, pp. 253-258, 2019.
	<i>Assessment of the air pollution due to combustion processes of different wastes</i> , Mihai Bratu, Luoana Florentina Pascu, Mihaela Petrescu, Andreea Cozea, M. Pasca*, International Symposium "The Environment and the Industry", SIMI 2019, Proceedings Book, pp. 144-151, 2019.
Conferences (platform, poster, abstract / full-paper)	<i>Economic sustainability in the context of reducing the social impact caused by environmental degradation</i> , Manea Gheorghe Cosmin*, Cozea Andreea , The 2nd International Conference on Economics and Social Sciences Collaborative Research for Excellence in Economics and Social Sciences, Bucharest University of Economic Studies, Romania, April 4-5, Book of Abstracts, pp. 106-112, 2019, platform presentation.