

## PREFACE

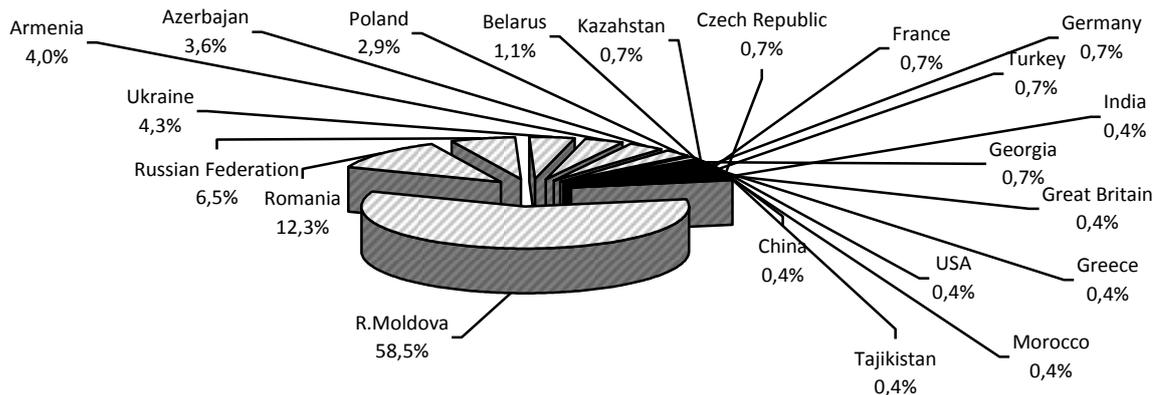
Thank you sincerely for your participation at the 6th International Conference **ECOLOGICAL & ENVIRONMENTAL CHEMISTRY – 2017 (EEC-2017)**, held in Chisinau, Republic of Moldova on March 2-3, 2017. We hope you had interesting lectures and presentations, fruitful discussions and friendly contacts!

The **EEC-2017** is part of a series of successful international conferences organized in 1995, 2002, 2005, 2008 and 2012 that played a great role in promoting the development of *Ecological Chemistry* and related research directions, establishing the fruitful long-term collaborations in the NIS, EU, USA and other countries. In comparison to the previous editions, the EEC-2017 comprised five interrelated topics: *Ecological Chemistry; Environmental Chemistry and Engineering; Green Chemistry; Ecological and Environmental Aspects in Chemical Research and Education; Young Scientists Research in Ecological and Environmental Chemistry.*

The **EEC-2017** provided significant support and ensured the opportunities for further enlargement of the international scientific-practical cooperation, experience exchange, presentation and discussion of latest research

results in the studies of physical-chemical and biochemical processes occurring in soil, air, and water ecosystems subjected to anthropogenic pollutants, to comprise promising approaches of sustainable development including engineering and modeling, as well as social and educational implications. The aim of the conference was to promote continuous international cooperation, to encourage and facilitate the interdisciplinary communication among academia, scientists, university staff and students, engineers, economists, teachers and professionals involved in the studies of environmental issues and sustainable development in order to mitigate or prevent toxic impacts of pollutants on human health and environment, and promote the environmental knowledge.

The **EEC-2017** was an important international event that attracted about 400 scientists, researchers, engineers, experts and students from 22 countries: Azerbaijan, Armenia, Germany, Greece, Georgia, France, Romania, Italy, Poland, Russian Federation, Ukraine, USA, Great Britain, India, Morocco, Belarus, Tajikistan, Kazakhstan, Czech Republic, Turkey and Republic of Moldova (Figure 1).



**Figure 1. Geographic distribution of EEC-2017 participants.**

Considering the theoretical and applied contributions of *Ecological Chemistry* into the general scientific knowledge and implementation of environmentally friendly processes, benefits of ecological education and knowledge, and proceeding from the strong necessity to promote

the further development of this discipline being a vitally necessary premise for the sustainable development of post-industrial society, the participants of the **EEC-2017** came up to the following conclusion, underlining the importance of the following actions:

- Maintain the promotion and support of interdisciplinary approach to *Ecological and Environmental Chemistry* in strengthening of research-education-innovation triad, to ensure the complex approach towards the reduction of prevention of negative anthropogenic impacts on the human health and the environment;

- Continuous studies of natural water self-purification processes in order to keep the natural systems in equilibrium state and to stimulate their natural efficiency in pollutants diminution in environment;

- Stimulate the innovation aspect of *Ecological and Environmental Chemistry* disciplines in order to develop the efficient methods for mathematical modeling and long-term prognosis of human impact on the environment, of trans-boundary transport and transformations of pollutants, of climate change;

- Further development and practical implementation of environmentally friendly technologies of water, air, soil treatment, progressive methods for the extraction of useful substances from the municipal, industrial and agricultural wastes with the aim to explore their structure, chemical, pharmaceutical, physical-chemical, microbiological properties in order to facilitate their use in different sectors of economy;

- To attract attention of the Governments of the Republic of Moldova and Ukraine regarding the inadmissible plans of the additional hydropower stations construction on the Dniester river, as it will inevitably provoke the irreversible ecological consequences, specifically, drying of small rivers tributaries, disappearance of birds, fish and microorganisms, rising the problems with drinking water supply for numerous localities in Moldova and Ukraine, including such large cities as Chisinau and Odessa;

- Contribute to the enlarging of international collaboration in *Ecological and Environmental Chemistry*, through the development of the research, educational and technological aspects, within the national, regional and international science support programs, such as HORIZONT 2020,

ERASMUS+, Interregional Programs for the Danube, Black Sea, Caspian Basins, Trans-border Operational Programs, etc.

**Considering the above recommendations, the EEC-2017 participants have decided:**

- To approve the recommendations and proposals of the **EEC-2017**.

- To inform the various Governmental bodies and Public structures involved in the environment protection about the latest achievements and ideas in *Ecological and Environmental Chemistry*.

- To continue supporting awareness campaigns using mass-media, press, TV, radio, involved in the support and promotion of *Ecological Chemistry* principles and resolving of environmental problems on national, regional, and international levels.

- To strengthen international collaboration within the *Ecological Chemistry* domain in order to promote the sustainable use of natural resources and habitat protection, contribute to the information exchange, bilateral and multilateral projects, plans and strategies development with the involvement of decision makers, different stakeholders from research, education, civil society and business.

A valuable contribution to **EEC-2017** organization and financial support was provided by the Academy of Sciences of Moldova; Intergovernmental Foundation for Educational, Scientific and Cultural Cooperation (IFESCO); National Commission of the Republic of Moldova for the United Nations Educational, Scientific and Cultural Organization (UNESCO); Faculty of Chemistry and Chemical Technology, Department of Industrial and Ecological Chemistry and Research Center of Applied and Ecological Chemistry of the Moldova State University; Institute of Chemistry A.S.M.; Moldovan Chemical Society; University of the Academy of Sciences of Moldova; “Constantin Stere” European University of Political and Economic Studies, American University in Moldova and Moldovan Research and Development Association (MRDA).



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