

The **International Scientific Committee** is formed by leading representatives of R&D institutions, universities, ministries, public authorities, scientific societies, policy makers and experts working in various fields of Ecological Chemistry, as well as representatives of international organizations and foundations.

The Local Organizing Committee:

1. Academy of Sciences of Moldova (ASM)
2. Faculty of Chemistry and Chemical Technology, Moldova State University (MSU)
3. Moldovan Research and Development Association (MRDA)
4. Institute of Chemistry, ASM
5. Moldovan Chemical Society
6. Department of Industrial and Ecological Chemistry, MSU
7. Research Center for Applied and Ecological Chemistry, MSU
8. University of the Academy of Sciences of Moldova
9. The Institute of Physiology and Sanocreatology, ASM
10. National Center for Public Health
11. Association for Ecological Education and Information TERRA NOSTRA
12. Representatives of the related ministries and agencies
13. Scientific Enterprise IZOMER.

Conference Proceedings will be published in the Abstracts Book and Conference Proceedings and will be available at the time of registration. Printed and electronic copies of the conference materials will be available upon request directed to the Local Organizing Committee.

Exhibition Facilities will be offered in the form of mini-exhibition space to organizations and individuals wishing to exhibit posters, hardware, software, products, services and literature relating to the theme of the Conference. Further details are available from the Conference Secretariat.

Registration of conference participants, submission of papers for publication and their review will be performed on-line via the website to be developed by the Local Organization Committee from March 1, 2011: www.ecochem2012.mrda.md.



1995



2002



2005



2008



The 5th International Conference ECOLOGICAL CHEMISTRY

2012

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2-3 March, Chisinau, Republic of Moldova

www.ecochem2012.mrda.md

ECOLOGICAL CHEMISTRY

FIRST ANOUNCEMENT

The 5th International Conference ECOLOGICAL CHEMISTRY 2012

The 5th International Conference **ECOLOGICAL CHEMISTRY 2012** will serve as the main arena for discussion, experience and ideas exchange of the recent achievements in the field related to the investigation of mechanisms and chemical processes that take place in natural waters, atmosphere and soils under the influence of anthropogenic pollutants, the pollutants impact on the human health and habitat, as well as with the methods of environment pollution prevention and mitigation.

The Conference will provide opportunities to exchange the latest ideas, to present and to discuss recent results on the physico-chemical and biochemical aspects of processes, which take part in the ecosystem - soil, air and water, and promising approaches of sustainable development including engineering and modeling, as well as social and educational implications. The aim of the conference is to encourage and facilitate the interdisciplinary communication among scientists, engineers, economists, teachers and professionals working on environmental issues and sustainable development.

The **ECOLOGICAL CHEMISTRY 2012** is an important international event, which attracts scientists and engineers from the NIS, Europe, U.S.A. and other countries.

Ecological Chemistry started to develop in Moldova in 1985 when the First International Ecological Chemistry School was conducted. For almost 25 years this field is intensively expanding being one of the priorities for the sustainable development of the National Economy. The **ECOLOGICAL CHEMISTRY 2012** is part of a series of successful conferences organized up to present in 1995, 2002, 2005, 2008, and 2010 and supported by UNESCO, CRDF/MRDA, NATO, CEI, ONRG as well as the local R&D organization such as the Academy of Sciences of Moldova, Department of the Ecological and Industrial Chemistry, Scientific Center for Ecological and Applied Chemistry.

Conference Topics:

1. Ecological chemistry of water

- Chemical processes and natural waters self-purification
- Methods of analysis and monitoring of water resources
- Water treatment and supply
- Impact of natural waters pollution on the human health

2. Ecological chemistry of the atmosphere

- Chemical processes in atmosphere
- Methods of analysis of gas emissions
- Mitigation of gas emissions impact on human health

3. Ecological chemistry of soil

- Chemical processes in soil
- Soil degradation processes and their prevention
- Methods of analysis and mitigation of soils pollution with pesticides
- Impact of soils pollution on human health and habitat

4. Ecological chemistry and healthy life style

- Chemical risk assessment of anthropogenic impact on human health and environment
- Mathematical modeling and long-term prognosis of human impact on the environment, of trans-boundary transport of pollutants and climate change
- Medico-biological perspective on ecological chemistry – problems of acute and chronic toxicity, allergies, cancerigenic effects, bioassay

5. Ecological chemistry and sustainable development

- Ecological awareness and education
- Access to ecological information
- Ecological auditing
- Public participation in addressing environmental pollution problems
- Ecological legislation.