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## CONTENT

Kolomiets I., 2016 Relation between corolla coloring of herbaceous plants and some soil indices. *Ecoterra* 13(3):1-6.

Ciorba D., Morariu V. V., Cosma C., Neamtu S., Fischer-Fodor E., Foris V., 2016 Extremely low frequency - zero magnetic field and human lymphocytes response. *Ecoterra* 13(3):7-13.

Radu V. M., Ionescu P., 2016 Aquatic plants as a remediation tool for polluted water. *Ecoterra* 13(3):14-18.

Florea C., Szilagyi H., Dico C., 2016 Concrete production with recycled materials in the sustainable development context. *Ecoterra* 13(3):19-25.

Ilie C., Găman G. A., Călămar A., Gireadă A., 2016 Increasing the resilience of economic agents by implementing the intervention and rescue activity. *Ecoterra* 13(3):26-32.

Kovacs M., Găman G. A., Pupăzan D., Călămar A., Irimia A., 2016 Research on the potentiality of using aerial vehicles for monitoring the environment agent - air. *Ecoterra* 13(3):33-38.

Tociu C., Marcu E., Ciobotaru I. E., Maria C., 2016 Risk assessment of population exposure to nitrates/nitrites in groundwater: a case study approach. *Ecoterra* 13(3):39-45.

Kolomiets I., 2016 Humidity and temperature influence on anthocyan coloring of flowering plants corolla. *Ecoterra* 13(3):46-50.



## EDITORIAL FOREWARD

ECOTERRA Journal of Environmental Research and Protection was developed with the aim of responding to the growing needs of environmental specialists, now widely recognized in the scientific media. It is a quarterly journal, edited since 2004, with the clearly stated mission of fostering the communication and dissemination of interesting results among researchers and practitioners from a wide range of scientific areas, such as earth sciences, environmental protection, risk assessment, disaster management and so on.

ECOTERRA Journal of Environmental Research and Protection includes high-quality researches in the fields of engineering sciences, earth sciences, biotechnologies, environmental protection, notes on national and international scientific events, books or articles reviews and synthesis papers in the specific fields of the journal.

This issue of ECOTERRA journal is published under the aegis of The National Society of Environmental Science and Engineering (SNSIM), together with S.C. I.C.P.E. BISTRIȚA S.A. (Institute for Research and Development in Technologies and Equipments for Environmental Protection Bistrița), and the Faculty of Environmental Sciences and Engineering, University „Babeș-Bolyai” of Cluj-Napoca. SNSIM is a professional association of experts from academic and research institutes having specific activities in the field of environmental science and engineering. Its mission is to develop and promote the professional interests of their members, within a national and international context and to contribute to the development of the environmental science and engineering field in science and research.

Given the high interest of scientists and the variety of submissions, ECOTERRA has taken an initiative to become a peer-reviewed journal, having the articles published on its webpage. Thus, the research results will be accessible via the Internet for immediate worldwide, serving the best interests of the scientific community.

This new issue comprises diverse and original research from a broad spectrum of areas as varied as best available technology, natural gas extraction, atmospheric risks, waste management, energy efficiency, water purification, integrated environmental marketing, risk communication and equipments for environmental protection.

We are very thankful to the scientists and institutions that have contributed to the past history and, we hope, to the future development of this journal. This issue would not have been possible without the support of the editorial board members and the authors. We continue to welcome article submission in all fields of environmental science and engineering that will further stimulate research in these areas.

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**Programul Operațional Sectorial „Creșterea Competitivității Economice”**  
*„ Investiții pentru viitorul dumneavoastră”*

***„Development of research infrastructure for disaster management based on high performance computing”***

***„Dezvoltarea infrastructurii de cercetare pentru managementul dezastrelor bazat pe calcul de înaltă performanță” – MADECIP***

Project POSCEE COD SMIS CSNR 48801/1862

Babeş-Bolyai University of Cluj-Napoca develops, starting with March 2014, the project ***„Development of research infrastructure for disaster management based on high performance computing”***, co-financed by the European Regional Development Fund.

The total value of the project is 12,129,000.00 lei, out of which 10,000,000.00 lei is non-refundable financial assistance.

The project is developed in Cluj-Napoca, for a period of 16 months.

The objective of the project is to increase the research-development capacity of Babeş-Bolyai University of Cluj-Napoca, through the development of disaster management based on high performance computing. Furthermore, new laboratories/research centers will be founded and the existing ones will be updated, with the aim of creating new work places, intensifying interdisciplinary research and optimising international cooperation.

The MADECIP project is a complex, multidisciplinary project, developed by a consortium of 8 faculties in Babeş-Bolyai University: Faculty of Environmental Science and Engineering, Faculty of Economics and Business Administration, Faculty of Mathematics and Informatics, Faculty of Political, Administrative and Communication Sciences, Faculty of Geography, Faculty of Chemistry and Chemical Engineering, Faculty of Biology and Geology.

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