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CONTENT

Otgon M. C., Rusu T., Rusu A. T., 2014 The comparison of CO₂ capture processes. Ecoterra 11(2):1-8.

Otgon M. C., Rusu T., Rusu A. T., 2014 The characteristics of drilling fluids from natural gas extraction processes and composition of the drilling slurry obtained. Ecoterra 11(2):9-17.

Sandu V., Ivanoiu M., 2014 Integrating academic education and community needs in environmental field - case studies analysis. Ecoterra 11(2):18-26.

Kátai-Urbán L., 2014 Establishment and operation of system for industrial safety within the Hungarian disaster management. Ecoterra 11(2):27-45.

Berkesy C. M., Begea M., Berkesy L. E., Craciun I. M., Somesan M., 2014 The implementation of European quality standards in logistic biomass centres. Ecoterra 11(2):46-52.

Matei E., Predescu A., Coman G., Predescu C., 2014 Requirements for the competence of testing environmental laboratories. Ecoterra 11(2):53-57.

Bulimaga C., 2014 Assessment of soil pollution with waste in urban ecosystem Chisinau. Ecoterra 11(2):58-65.

Mocanu C. R., Bălănescu L. V., Lăzăroiu G., 2014 The improvement of wastewater treatment plant efficiency. Ecoterra 11(2):66-72.

Manea E. E., Robescu L. D., Apostol T., 2014 Simulation of solid waste landfill leachate treatment. Ecoterra 11(2):73-77.

Istrate I. A., Apostol T., Badea A., 2014 An alternative to the treatment of leachate contaminated soil. Ecoterra 11(2):78-84.

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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Instrumente Structurale
2007-2013

„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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 <p>Academia de Stiinte Tehnice din Romania Academy of Technical Sciences of Romania</p>	<p>GENERAL INSPECTORATE FOR EMERGENCY SITUATIONS</p> 

10th Edition of the Environmental Legislation, Safety Engineering and Disaster Management **ELSEDIMA** International Conference

Conference topics:

The need for disaster management and environmental protection as part of the development plans is widely accepted. Recent experiences in the field of emergency situations management in case of natural and technological disasters have shown a low level of environmental safety culture. Thus, it is necessary to develop some activities in order to raise the awareness degree on hazards within the communities close to some high risk areas or industrial facilities. Considering the fact that nearly all European regions are expected to be negatively affected by a rapidly changing climate, strategies on local, national and international level have to be implemented in order to provide the safety of the citizens, environment, cultural values and economic goods.

The 10th edition of the ELSEDIMA Conference will gather representatives of authorities, research entities and industry to lay out the path to communication and dissemination.

The sections of the Conference will approach topics like:

- Disaster management
- Climate changes – approaches by modeling and atmospheric monitoring
- Long Life Learning (LLL) in disaster risk reduction
- Technologies and equipments for environmental protection

General information:

- The official language of the conference is English.
- The articles accepted based on the scientific quality and the submission of at least one author at the Conference will be published in one of the following publications: Environmental Engineering and Management Journal (ISI Journal), Studia Ambientum, Babes-Bolyai University (BDI indexed), • Advances in Environmental Sciences - International Journal of the Bioflux Society (ISI Web of Knowledge, Thomson Reuters, via CABI), ECOTERRA Journal of Environmental Research and Protection (BDI indexed).

Date and venue of the conference: 18 - 19 September 2014, "Iustinian Petrescu" Conference room, Faculty of Environmental Sciences and Engineering, no. 30 Fântânele, Cluj-Napoca

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