

## QUESTIONNAIRE

*Please, fill in the Questionnaire and return it to contact person in Moldova:*

*depintrel@asm.md. Phone: 272254*

(\*) – mandatory fields

	<b>Details about organisation</b>
* <b>Organisation name</b>	Institutue of Geology and Seismology
Organisation acronym	
* <b>Organisation Activity Type (RES - Research, HE - University, SME - Small and Medium Enterprise, IND - Industry, OTH - Other)</b>	<b>RES</b>
* <b>Keywords of main research areas</b>	Geology, Seismology, Hidrogeology
* <b>Head of organisation (first name, family name)</b>	Vasile Alcaz
* <b>Post code</b>	MD-2028
* <b>Country</b>	Republic of Moldova
* <b>City</b>	Chishinau
* <b>Street, House</b>	Academiei, 3
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<b>* Description of organisation and its research achievements for the last five years (~ 5000 signs)</b>
<p style="text-align: center;"><b>Institute of Geology and Seismology. Laboratories:</b> Seismology; Earthquake Engineering; Complex Research of the Earth Crust; Geochemistry; Hydrogeology and Engineering Geology; Center of Experimental Sseismology.</p> <p>The Institute was established in 1967 on the basis of the Institute of Geology and Minerals of the former USSR and of the seismic station “Chishinau”. The specialists of the Institute have sistematized and subjected to detailed analysis the data obtained via registration of seismic processes that occurred on the territory of the Republic of Moldova. These data constitute the basis for studying the seismic hazard on the territory of the Republic, the mechanism of the Vrancea deep seismic earthquake focus in the Oriental Carpathian Mountains, as well as the evaluation of seismic prognosis. Using such data the Institute has drawn up the map of Moldova’s territory seismic macrozoning, as well as the maps of seismic microzonation of some cities and located in zones with different degrees of seismicity. These maps and other valuable elaborations in seismology are used by numerous institutions and organizations in housing, industrial and social designing and building. In their scientific researches the specialists of the Institute utilize modern seismic devices and modern computers thus making it possible to accelerate essentially the efficient analysis of seismic events and to establish the earthquake focus parameters of Vrancea and world earthquakes</p> <p>. In the regional geology the collaborators of the Institute have drawn up the tectonic map of Moldova at the scale of 1:500000, which reflects the evolution of land crust from archaic till neogene. It is used by different organizations with geological profile for planing and geological prospecting on the territory of the republic. Also, the map of gullies and land-slides on the same territory has been drawn up, which can be used for design of constructions in the rural area. Concrete proposals have been elaborated for improving the lands affected by destructive geological processes and for minimizing the danger of soil erosion.</p> <p>The activity of the Institute in recent years has been also characterized by the obtaining of certain fundamental and applied results in studying the underground water, the geochemical technogene processes and the processes of riverbed of small rivers. At present, the collaborators of the Institute are engaged in fundamental researches aimed at determining the seismic parameters of Vrancea earthquakes, elaboration of seismic hazard prognosis on the territory of the Republic of Moldova as well as its supply with local raw material.</p>

	<b>Contact Information</b>
* <b>Contact person (first name, family name)</b>	Oleg Bogdevici
* <b>Department / Laboratory</b>	Laboratory of Geochemistry
* <b>Position</b>	Deputy Director, Head of Laboratory
* <b>Qualification and research experience</b>	PhD in geology, <ul style="list-style-type: none"> <li>• Project leader by Investigation of the fate and environmental geochemistry of toxic substances;</li> <li>• Head of the group by site assessment for hydrogeology and engineering geology conditions</li> <li>• Head of laboratory for the implementation of Analytical Chemistry in Environmental Investigation</li> <li>• Team leader by the application of GIS for geology and environmental investigation (MapInfo, AcrGIS);</li> <li>• Head of the project by site phytoremediation from obsolete pesticide pollution</li> <li>• Team leader of Environmental Risk Assessment project in agriculture landscapes</li> </ul>
* <b>Post address (house, street, city, code, country)</b>	3, Academy str., Kishinev, MD2028, Moldova
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<b>International co-operation / Participation in EU RTD programmes or other bilateral / multilateral actions</b>
INTAS, TACIS, TEMPUS, COST, EUREKA, other RTD programmes (please specify programme/s, project title/s and year/s)
“Prut river water management program” of TACIS, consultant hydrogeologist, 1999 – 2000;  Environmental Risk Assessment of Toxic Element Pollution in Agricultural Regions of Moldova and Arkansas, grant of MRDA-CRDF, team leader, 2000 – 2002;  Elimination of acute risks from Obsolete Pesticide in Moldova”, component part Remediation, MilieuKontakt, the Netherlands, team leader, 2007 - 2008

	<b>* Please, use “X” to indicate the scientific area/s of your potential project</b>
CHEMISTRY	
SOCIAL AND HUMAN SCIENCES	
ECONOMIC SCIENCES	
ENGINEERING SCIENCE	
ENVIRONMENT	X
AGRICULTURE AND FOOD	
HEALTH	
MATHEMATICS	
INFORMATION SCIENCE	
PHYSICS	
NANOTECHNOLOGIES	
ENERGY	
TRANSPORT	
SPACE	

<b>* Summary of potential research project envisaged hosting of European researcher for the period of between 1 and 2 years</b>

**Environmental geochemistry of toxic pollutants (POPs, PAHs, BTEX, heavy metals) and Environmental Risk Assessment**

Aim of the investigation environmental risk assessment on the base of the study of toxic substance fate in the environment with GIS application;

The proposed study addresses the following objectives:

- identification of principal pollution sources on pilot areas in rural and urban landscapes;
- determination of pollution level of toxic substances on polluted sites by the application of modern analytical approaches for sample preparation and chemical analysis;
- GIS application for pollution source inventory on pilot areas;
- development of environmental risk assessment scheme;
- study of the possibilities for the utilization of site remediation technologies
- elaboration of decision support system on the base of GIS inventory and Environmental Risk Assessment from toxic pollutants

The analytical determination will be made by gas chromatographic methods (GC, GC/MS) with QC/QA procedure conform ISO17025.

The following principal results will be obtained upon completion of this project:

- pollution level on principal pollution sources in rural and urban regions of Moldova
- GIS with the geodatabase of pollution sources;

Decision Support System with environmental risk assessment from different pollutants.

	<b>Please, confirm your agreement on data publication and dissemination</b>
<b>I agree with the publication of the data</b> on the web-site <a href="http://www.inco-ecca.net">http://www.inco-ecca.net</a> , and <b>dissemination</b> among Mobility National Contact Points of the EU MS and AC <b>(YES / NO)</b>	Yes
<b>Date</b>	12 June 2008