

Program	Program NUCLEU PN 09 13 02 02
Project title (ENG):	Researches concerning the nature of the ionic species of dangerous pollutants - existing metals in surface waters and transformations undergone by these
Project title (RO):	Cercetari privind natura speciilor ionice ale unor poluanti periculosi – metale existente in apele de suprafata si transformarile suferite de acestea
Duration	03.2009- 12. 2012
Team Leader	Senior Researcher chem. Elena Birsan
Summary (short description) ENG	In the project was carried out a study of heavy metal pollution of water bodies, due to anthropogenic development of activities. It was achieved a steady state characterization of metal from the matrix of ionic species studied and influence on aquatic ecosystems. Qualitative and quantitative investigations regarding the content of metals from polluted water bodies analyzed revealed the environmental risk induced evolution.
Summary (short description) RO	In proiect s-a realizat un studiu al poluarii cu metale grele a corpurilor de apa, urmare a desfasurarii unor activitati antropice. S-a realizat o caracterizare a starilor de echilibru a speciilor ionice ale metalelor din matricile studiate si influenta asupra ecosistemelor acvatice. Investigatiile calitative si cantitative privind continutul unor metale din corpurile de apa poluate analizate au permis evidentierea evolutiei riscului ecologic indus.
Dissemination of results	
PhD Thesis – Title RO, ENG	Analiza de speciație chimică a unor metale în corpuri de apă de suprafață poluate antropice, Elena Barsan, 2011 Chemical analysis of certain metals speciation in surface water bodies polluted anthropic
Full-paper ISI	Birsan Elena, Cisnovschi Georgiana, Luca Constantin, Distribution of dissolved and particulate heavy metals in a surface water from an area affected by mining activities, <i>Journal of Environmental Protection and Ecology</i> , 13, no.3, 1261-1276, 2012 Birsan Elena, Luca Constantin, Speciation of heavy metals in surface waters polluted by anthropogenic activities, <i>Scientific Study & Research – Chemistry & Chemical Engineering, Biotechnology, Food Industry</i> Vol. XI, no. 4, 2010, p. 439 – 448. 1582-540X
Conferences (platform, poster, abstract / full-paper)	Birsan Elena, Cisnovschi Georgiana, Luca Constantin, Distribution of dissolved and particulate heavy metals in a surface water from an area affected by mining activities, <i>International Workshop – „Fishery And Aquaculture – A View Point Upon The Sustainable Management of the Water Resources In The Balkan Area ,Galati, Romania, 26-28 mai 2010</i> Birsan Elena, Cisnovschi Georgiana, Petrescu Marinela, Stoica Catalina, Batrinescu Gheorghe, Stanescu Bogdan, Setting the dynamics of quality status for aquateyc ecosystem – Suceava River and its

<p>Conferences (platform, poster, abstract / full-paper)</p>	<p>tributaries, <i>International Workshop – „Global and Regional Environmental Protection” GLOREP 2010, Timisoara, Romania, 26-28 nov.2010</i></p>
	<p>Birsan Elena, Luca Constantin, Spéciation des éléments métalliques dans des eaux de surface polluées anthropique, <i>6-eme Colloque Franco- Roumain de Chimie Appliquee, Orleans, France, 7-10 iulie 2010</i></p>
	<p>Birsan Elena, Luca Constantin, Copper speciation assessment in aquatic ecosystem affected by historical mining activities, <i>EMEC 11 – 11th European Meeting on Environmental Chemistry, Portorez, Slovenia, decembrie 2010</i></p>