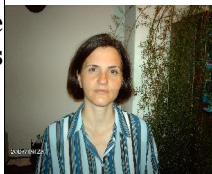


## Curriculum vitae Europass



### Informații personale

Nume / Prenume **MIHALY COZMUTA ANCA**  
Adresă(e) Strada Trandafirilor 24F, Mocira, Maramures, 437228  
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Naționalitate(-tăți)Română  
Data nașterii09.12.1967  
SexFeminin

### Experiența profesională

Perioada 2007-prezent  
Funcția sau postul ocupat Profesor universitar  
Activități și responsabilități principale

- Activitate didactica in domeniile: Chimie generala, Tehnologia Panificatiei si Produselor Fainoase, Alimente cu Destinatie Speciala, Valorificarea Subproduselor din Tehnologiile Alimentare
- Activitate de cercetare stiintifica in domeniile: mediului, industrie alimentara

Numele și adresa angajatorului Departamentul de Chimie-Biologie, Universitatea de Nord din Baia Mare, actualmente Universitatea Tehnică din Cluj-Napoca  
Centrul Universitar Nord din Baia Mare, Str. Dr. Victor BABEȘ, nr 62 / A, 430083 - Baia Mare, jud. Maramureș, Telefon: 0262-218922, Fax: 0262-276153

Tipul activității sau sectorul de activitate Invatamant superior  
Perioada 2003 – 2007  
Funcția sau postul ocupat Conferentiar universitar  
Activități și responsabilități principale

- Activitate didactica in domeniile: Chimie generala, Tehnologia Panificatiei si Produselor Fainoase, Alimente cu Destinatie Speciala
- Activitate de cercetare stiintifica in domeniile: mediului, industrie alimentara

Numele și adresa angajatorului Departamentul de Chimie-Biologie , Universitatea de Nord din Baia Mare, Str. Dr. Victor BABEȘ, nr 62 / A, 430083 - Baia Mare, jud. Maramureș, Telefon: 0262-218922, Fax: 0262-276153

Tipul activității sau sectorul de activitate Invatamant superior  
Perioada 1999-2003  
Funcția sau postul ocupat Sef de lucrari  
Activități și responsabilități principale

- Activitate didactica in domeniile: Chimie generala, Chimie Analitica, Analiza instrumentala, Fenomene de transfer
- Activitate de cercetare stiintifica in domeniul: mediului

Numele și adresa angajatorului	Departamentul de Chimie-Biologie , Universitatea de Nord din Baia Mare, Str. Dr. Victor BABEȘ, nr 62 / A, 430083 - Baia Mare, jud. Maramureș, Telefon: 0262-218922, Fax: 0262-276153
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1996-1999
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	<ul style="list-style-type: none"> <li>• Activitate didactica in domeniile: Chimie generala, Chimie Analitica, Analiza instrumentala</li> <li>• Activitate de cercetare stiintifica in domeniul: mediului</li> </ul>
Numele și adresa angajatorului	Departamentul de Chimie-Biologie , Universitatea de Nord din Baia Mare, Str. Dr. Victor BABEȘ, nr 62 / A, 430083 - Baia Mare, jud. Maramureș, Telefon: 0262-218922, Fax: 0262-276153
Tipul activității sau sectorul de activitate	Invatamant superior
<b>Educație și formare</b>	
Perioada	2003-2006
Calificarea / diploma obținută	Inginer in domeniul Industrie Alimentara
Disciplinele principale studiate / competențe profesionale dobândite	Tehnologia moraritului si panificatiei, Tehnologia laptelui si a produselor lactate, Tehnologia carni si a produselor din carne, Tehnologii fermentative
Numele și tipul instituției de învățământ / furnizorul de formare	Facultatea de Stiinte, Universitatea de Nord din Baia Mare
Perioada	1994-2000
Calificarea / diploma obținută	Doctor in Chimie
Disciplinele principale studiate / competențe profesionale dobândite	Discipline din domeniul Electrochimiei si Chimiei Fizice
Numele și tipul instituției de învățământ / furnizorul de formare	Facultatea de Chimie Industriala , Universitatea Babes Bolyai Cluj Napoca
Perioada	1987-1992
Calificarea / diploma obținută	Inginer chimist, domeniul Tehnologie Chimica Anorganica
Disciplinele principale studiate / competențe profesionale dobândite	Tehnologii Anorganice
Numele și tipul instituției de învățământ / furnizorul de formare	Institutul Politehnic Bucuresti, Facultatea de Chimie Industriala, specializarea <i>Tehnologie Chimică Anorganică</i>
Perioada	1982-1986
Calificarea / diploma obținută	Operator chimist
Disciplinele principale studiate / competențe profesionale dobândite	Discipline chimice
Numele și tipul instituției de învățământ / furnizorul de formare	Liceul industrial Nr. 3 Baia Mare

**Aptitudini și competențe personale**

Limba(i) maternă(e) Româna

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (\*)

**Engleza****Franceza**

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C 1	Autonom	C 1	Autonom	C 1	Autonom	C 1	Autonom	C 1	Autonom
A 1	Introductiv	A 1	Introductiv	A 1	Introductiv	A 1	Introductiv	A 1	Introductiv

(\*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

Competențe și abilități sociale Capacitate buna de adaptare la schimbarile sociale

Competențe și aptitudini organizatorice Capacitate decizionala, abilități de leadership, capacitate de sinteza si analiză

Competențe și aptitudini tehnice Utilizarea aparaturii de analize chimice (calibrare, masurare)

Competențe și aptitudini de operare PC: programe de uz general (WINDOWS, POWER POINT, EXCEL, utilizare a calculatorului etc.) dar si de specialitate (ORIGIN, SPSS, KEKULE, etc.)

Competențe și aptitudini artistice Literatura

Alte competențe și aptitudini Sport, excursii

Permis(e) de conducere Categoria B

**Informații suplimentare** Persoane de contact:

Decan Facultatea de Stiinte: Conf.dr. Petrica Pop, Tel: 0262/276059; e-mail: pop\_petrica@yahoo.com

**Anexe** Anexa 1: ACTIVITATE DIDACTICA SI STIINTIFICA

## ACTIVITATE DIDACTICA SI STIINTIFICA

### 1. TEZA DE DOCTORAT

#### *RECUPERAREA ELECTROCHIMICA A CUPRULUI DIN APE DE DEVERSARE*

Coordonatori :

**Prof.dr.doc. LIVIU ONICIU**

- Universitatea Babeş Bolyai Cluj Napoca

Prof.dr. IONEL CĂTĂLIN POPESCU

- Universitatea Babeş Bolyai Cluj Napoca

### 2. CĂRȚI PUBLICATE ÎN EDITURI ACREDITATE CNCIS

- 2.1.** A. Mihaly Cozmuta, F. Pop, 2011 – Tehnologii Alimentare- Caiet de lucrări practice pentru studenți, Ed. Risoprint – Cluj, 113 pagini, ISBN
- 2.2.** A. Mihaly Cozmuta, F. Pop, 2009- Indrumator de lucrari practice de morarit si panificatie, Ed. Risoprint-Cluj
- 2.3.** A. Mihaly Cozmuta, F. Pop, 2008 – Tehnologia panificatiei, Ed. Risoprint-Cluj, 167 pagini, ISBN 978-973-751-901-6
- 2.4.** A. Mihaly Cozmuta, F. Pop, 2008 – Tehnologia produselor fainoase, Ed. Risoprint-Cluj, 117 pagini, ISBN 978-973-751-897-2
- 2.5.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, 2007 – *Chimie generală – curs*, Editura Risoprint, 189 pagini, ISBN 978-973-751-412-7
- 2.6.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, C. Varga, 2006 - *Metode neconventionale de recuperare a metalelor din solutii apoase. I. Recuperarea electrochimica a cuprului din ape uzate folosind electrozi in pat fluidizat*, Editura Risoprint –Cluj Napoca, 183 pagini, ISBN : 973-751-355-5 978-973-751-335-9
- 2.7.** L. Mihaly Cozmuta, A Mihaly Cozmuta, C. Varga, 2006 - *Metode neconventionale de recuperare a metalelor din solutii apoase II. Recuperarea unor metale utile in epurarea apelor reziduale din industria miniera*, Editura Risoprint–Cluj Napoca, 212 pagini. ISBN : 973-751-355-X 978-973-751-355-7
- 2.8.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, 2004 – Operatii si aparate in industria alimentara, Ed. Risoprint – Cluj Napoca, 205 pagini, ISBN 973-656-620-X
- 2.9.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, 2002 – *Lucrări practice de chimie generală*, Editura Risoprint – Cluj Napoca, 80 pagini ISBN 973-656-185-2
- 2.10.** A. Mihai, L. Mihaly Cozmuta, 2001- Fenomene de transfer, Ed. Risoprint-Cluj, 225 pagini, ISBN: 973-656-060-0

### 3. ACTIVITATE STIINTIFICA IN DOMENIUL INDUSTRIEI ALIMENTARE

#### 3.1. REVISTE ISI

- 3.1.1.** Anca Mihaly Cozmuta, Anca Peter, Leonard Mihaly Cozmuta, Camelia Nicula, Liliana Crisan, Lucian Baia, Alin Turila (2015). *Active Packaging System Based on Ag/TiO<sub>2</sub> Nanocomposite Used for Extending the Shelf Life of Bread*. Chemical and Microbiological Investigations, Packag. Technol. Sci. (2014), DOI: 10.1002/pts.2103.
- 3.1.2.** Apan, Rodica; Cozmuta, Anca Mihaly; Peter, Anca; Nicula, Camelia; Cozmuta, Leonard Mihaly (2014). *Nano- food packaging: from efficiency in the conservation of food to legal consumer protection*. AMFITEATRU ECONOMIC, 16(36), 483-500, ISSN: 1582-9146, eISSN: 2247-9104
- 3.1.3.** Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Emil Indrea And Lucian Barbu-Tudoran (2014). *Testing the preservation activity of Ag-TiO<sub>2</sub>-Fe and TiO<sub>2</sub> composites included in the*

*polyethylene during orange juice storage*, Journal of Food Process Engineering ISSN 1745-4530, doi:10.1111/jfpe.12116, 2014

**3.1.4.** Anca Mihaly Cozmuta, Laura Bretan, Leonard Mihaly Cozmuta, Camelia Nicula and Anca Peter- *Lead traceability along soil-melliferous flora-bee family-apiary products Chain*, Journal of Environmental Monitoring, 2012, 14, 1622-1630

**3.1.5.** A. Peter, C. Nicula, A. Mihaly Cozmuta, L. Mihaly Cozmuta - *Chemical and sensory changes of different dairy products during storage in packages containing nano-crystallized TiO<sub>2</sub>*, International Journal of Food Science and Technology, 47, 1448–1456

**3.1.6.** A. Peter, C. Nicula, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, E. Indrea, V. Danciu, H. Tutu, E. Bakatula Nsimba- *Efficiency of amendments based on zeolite and bentonite in reducing the accumulation of heavy metals in tomato organs (Lycopersicon esculentum) grown in polluted soils*, African Journal of Agricultural Research Vol. 6(21), pp. 5010-5023, 5 October, 2011; <http://www.academicjournals.org/ajar/contents/2011%20cont/5%20Oct.htm>

### 3.2. REVISTE BDI

**3.2.1.C.** Nicula, A. Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, *The uptake of heavy metals in phaseolus vulgaris and zea mays seeds harvested from polluted and unpolluted areas*, Carpathian Journal of Food Science and Technology 2013, 5(1-2), 1-8.

**3.2.2.A.** Peter, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula, *Nanosensor based on tio<sub>2</sub> for detection of oxygen in damaged vacuum packages*, Carpathian Journal of Food Science and Technology 2013, 5(1-2), 9-12.

**3.2.3.A.** Mihaly Cozmuta, A. Conea, A. Peter, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula, *Study the influence of work parameters on the leacheability of mineral elements into the coffee infusion*, Carpathian Journal of Food Science and Technology 2013, 5(1-2), 23-35.

**3.2.4.C.** Nicula, M. Sisestean, A. Mihaly-Cozmuta, A. Peter, L. Mihaly-Cozmuta, *Nitrate and nitrite content in various types of cucumbers and options to reduce it*, Carpathian Journal of Food Science and Technology 2013, 5(1-2), 36-44

**3.2.5.** Anca Peter, Loredana Roatis, Camelia Nicula, Anca Mihaly-Cozmuta, Leonard Mihaly-Cozmuta, *Combined use of paper or LDPE and natural extracts from Satureja hortensis and Allium sativum for the preservation of the summer salame*, Carpathian Journal of Food Science and Technology, 2012, 4(2), 18-27.

**3.2.6.** Camelia Nicula, Dora Lungu, Anca Peter, Anca Mihaly-Cozmuta, Leonard Mihaly-Cozmuta, *Curd cheese stored in modified packaging with extract of garlic and thyme: variation of some physico-chemical parameters*, Carpathian Journal of Food Science and Technology, 2012, 4(2), 1-8.

**3.2.7.C.** Nicula, A. Buie, O. Bran, *Accumulation of chlorophyll and carotenoids pigments in plants grown under artificial light*, Carpathian Journal of Food Science and Technology, 2012, 4(1), 37-45.

**3.2.8.** Camelia Nicula, Monica Marian, Leonard Mihaly Cozmuta, Anca Peter, Anca Mihaly Cozmuta, 2010 – *Adaptative mechanisms of Phaseolus vulgaris and Zea mays seeds grown in agroecosystem prone to pollution with heavy metals*, Analele Universitatii din Oradea, Fascicula Biologie, XVII (1), p. 147-151, . ISSN 1224 – 5119 – p. 141-149 (<http://www.bioresearch.ro/revistaen.html>) (BDI)

### 3.3. LUCRARI PREZENTATE LA SIMPOZIOANE SI CONFERINTE

**3.3.1.** Anca Mihaly Cozmuta, Anca Peter, Leonard Mihaly Cozmuta, Camelia Nicula, Calin Cadar - *Active packaging system based on Ag/TiO<sub>2</sub> nano-composite applied in preserving the wheat bread during storage. I. Changes in physical parameters*, The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology, May 30 – 31, 2013, Timișoara- Romania, pag. 34.

**3.3.2.** Calin Cadar, Anca Mihaly-Cozmuta, Anca Peter, Camelia Nicula, Leonard Mihaly-Cozmuta, Marius Metenti, *Ag/TiO<sub>2</sub> based on nanomaterials used in food preservation*, 13<sup>th</sup> international Symposium and Summer school on Bioanalysis-Debrecen, iulie 2013, P3.

**3.3.4.** Anca Mihaly Cozmuta, Leonard Mihaly Cozmuta, Camelia Varga, Radu Sugar, 2010 - *Mathematical models used in prediction of hydroxymethylfurfural (hmf) formation during the thermal processing of honey*, 7th INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS (ICAM7), Baia Mare, Romania, 1.09. 4.09. 2010

**3.3.5.** Anca Mihaly Cozmuta, Camelia Varga, Anca Peter, Leonard Mihaly Cozmuta, Andra Pop, 2010 - *Kinetics aspects related to hydroxymethylfurfural formation during the thermal processing of honey*, The

International Symposium “PROSPECTS FOR THE 3rd MILLENNIUM AGRICULTURE”, Cluj Napoca, Romania, 30.09.2010-2.10.2010, accepted

**3.3.6.** Sugar, I.R., Mihaly Cozmuta, A., Macavei, R., 2010 -*Study on the use of ultrasound for washing and cleaning in food industry*, Journals of EcoAgricTourism, vol. 6 (2010), Nr. 4 (21), p.45, ISSN – 1844-8577

**3.3.7.** A. Mihaly Cozmuta, L. Bretan, D. Boltea, L. Mihaly Cozmuta, M. Marian, A. Peter, C. Varga, 2009 – *Traceability of heavy metals along of soil-plant-honey chain*, CECE‘2009 - 6th International Interdisciplinary Symposium on Bionalysis, Pécs, November 6-7, 2009

### 3.4. PROIECTE NATIONALE

**3.4.1. Title :** *Bioaccumulation of heavy metals in soil-vegetables-human chain BIOMEG*

**Time range:** 2008-2011

**Coordinator:** Assoc.prof. Camelia Nicula – North University of Baia Mare, Romania

**Members:** prof.dr. Anca Mihaly Cozmuta, lecturer Leonard Mihaly Cozmuta, lecturer Anca Peter, etc.

**Funding source:** CNMP in the frame of PNCDI 2

**Partners:** : Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare, Facultatea de Medicina Universitatea Transilvania Brasov

**Budget:** 1.900.000 RON

**3.4.2. Title:** *Integrated application of databases for adopting and restructuring of protection natural and artificial factors in zootehnic farms –AIBD*

**Time range:** 2005-2008

**Coordinator:** Prof. dr. Anca Mihaly Cozmuta – North University of Baia Mare, Romania

**Members:** Assoc.prof. Camelia Nicula, lecturer Leonard Mihaly Cozmuta, lecturer Anca Peter, etc.

**Funding source:** Ministry of Education in the frame of CALIST Research Program; in the frame of PNCDI 2

**Partners:** USAMV Cluj Napoca, Universitatea de Nord Baia Mare – Romania, Universitatea Gent Belgia, Academia de Stiinte Republica Moldova – Institutul de Zoologie

**Budget:** 100.000 RON

### 3.5. PROIECTE INTERNATIONALE

**3.5.1. Title :** Smart functions of packages containing nano-structured materials in food preservation – SMARTPACK

**Coordinator:** Lecturer dr. Anca Peter, UTC-N CUNBM-Romania

**Members:** Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, Camelia Nicula

**Time range:** 2012-2015

**Funding source:** MNT-ERANET Program

**Partners:** ICA-Bucuresti-Romania, Universitatea Babes Bolyai Cluj Napoca-Romania, SC Somes Dej-Romania, Warsaw University – Poland

**3.5.2. Title:** *ARGO training placement under the lifelong learning programme*

**Coordinator:** Prof.dr. Anca Mihaly Cozmuta, UTC-N CUNBM-Romania

**Members:** Leonard Mihaly Cozmuta, Anca Peter, Camelia Nicula

**Time range:** 2008-2009

**Partners:** Universitatea de Nord Baia Mare-Romania, Fundacia para el Fomento en Asturias de la Investigación Aplicada y la Tecnología (FICYT)- Madrid - Spania



## 4. ACTIVITATE STIINTIFICA IN DOMENIUL MEDIULUI

### 4.1. REVISTE COTATE ISI

- 4.1.1.** L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, A. Peter, C. Nicula, H. Tutu, Dan Silipas, Emil Indrea - *Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies*, Journal of Environmental Management 137 (2014) 69-80.
- 4.1.2.** Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, and Camelia Nicula, *Photocatalytic Efficiency of Zeolite-Based TiO<sub>2</sub> Composites for Reduction of Cu (II): Kinetic Models*, International Journal of Applied Ceramic Technology, 1–14 (2013) DOI:10.1111/ijac.12046.
- 4.1.3.** Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Lucian Barbu Tudoran, Lucian Baia, *Efficiency of Cu/TiO<sub>2</sub> to Remove Salicylic Acid by Photocatalytic Decomposition: kinetic modeling*, Materials Technology, (2013), No. MTE259, DOI:10.1179/1753555713Y.0000000121, <http://www.maneyonline.com/doi/abs/10.1179/1753555713Y.0000000121>.
- 4.1.4.** Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Emil Indrea, Hlanganani Tutu - *Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides in a dose-dependent way*, Journal of Environmental Monitoring, 2012, 14, 2807-2814
- 4.1.5.** A. Peter, E. Indrea, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula et al. - *Dual efficiency of nano-structured TiO<sub>2</sub>/zeolyte systems in removal of copper (II) and lead (II) ions from aqueous solution under visible light*, AIP Conf. Proc. 1425, 139 (2012); doi: 10.1063/1.3681986
- 4.1.6.** L. Mihaly Cozmuta, A. Mihaly Cozmuta, A. Peter, C. Nicula, E. Bakatula Nsimba, H. Tutu - *The influence of pH on the adsorption of lead by Na-clinoptilolite: kinetic and equilibrium studies*, Water SA, Aprilie 2012, vol.38(2), 269-278
- 4.1.7.** A. Peter, M. Marian, C. Nicula, L. Mihaly Cozmuta, A. Mihaly Cozmuta, E. Indrea - *The sorptive performance of microorganisms-zeolite systems to remove Cu<sup>2+</sup>, Zn<sup>2+</sup>, Cd<sup>2+</sup>, Fe<sup>2+</sup> AND Pb<sup>2+</sup>*, Revue Roumaine de Chimie, 2011, vol 56, nr. 9, 847-852, ISSN: 0035-3930, FI = 0.311
- 4.1.7.** V. Oros, M. Coman, M. Marian, L. Mihaly-Cozmuta, A. Mihaly Cozmuta - *Preliminary investigation aimed to ecological reclaiming by phytoremediation of a large flotation tailing dump in Baia Mare mining area*, Environmental Engineering and Management Journal, nr 4, vol. 8, pag. 915-922, 2009.
- 4.1.8.** L. Mihaly Cozmuta, Camelia Varga, Monica Marian, Anca Mihaly Cozmuta, Tutu Hlanganani, 2008 – *Applying of artificial neuronal networks in modeling of ionic exchange copper recovery process*, Revista de Chimie (ISI), Nr. 7, p.766 - 772 , ISSN 0034-7752.
- 4.1.9.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, C. Varga, 2007 – *Electrochemical recovery of copper from wastewaters using graphite volumic electrode*, Revista de Chimie, Nr. 12, p.12-32, ISSN 0034-7752 (ISI)
- 4.1.10.** L. Mihaly Cozmuta, T. Visan, A. Mihaly Cozmuta, 2006 – *Energetically aspects regarding the adsorbtion of heavy metals on natural zeolites. The influence of pH on copper adsorbtion*, Revista de Chimie, vol. 57(11), ISSN 0034-7752, (ISI)
- 4.1.11.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, Gh. Vatca, 2003 – *Mathematic modelling of copper recovery process from wastewaters. III. The kinetic of cathodic reaction*, Revista de Chimie, vol. 54 (1), p. 20-24, ISSN 0034-7752
- 4.1.12.** V. Viman, M. Morar, Gh. Vatca, A. Mihaly Cozmuta, L. Mihaly Cozmuta, 2003 – *Pollution of soil with heavy metals*, Revista de Chimie, vol. 54 (2), p. 155-158, ISSN 0034-7752 (ISI)
- 4.1.13.** A. Mihaly Cozmuta (Mihai), L. Mihaly Cozmuta, C. Toader, 2002 – *Mathematic modelling of copper recovery process from wastewaters.II. The calculation of catodic bed's heigh*, Revista de Chimie, vol. 53 (9), p. 595-602, ISSN 0034-7752 (ISI)
- 4.1.14.** A. Mihaly Cozmuta (Mihai), L. Mihaly Cozmuta, 2002 – *Mathematic modelling of copper recovery process from wastewaters. I. Polarisation curves*, Revista de Chimie, vol. 53 (6), p. 450-455, ISSN 0034-7752, (ISI)

### 4.2. REVISTE COTATE BDI

- 4.2.1.** Monica Marian, Camelia Nicula, Leonard Mihaly Cozmuta, Anca Peter, Anca Mihaly Cozmuta, 2010 – *Participation of the indigenous vs. Allien herbaceous species to teh constitution of vegetal layer on the Bozanta Mare Tailing Pond*, Analele Universitatii din Oradea, Fascicula Biologie, XVII (1), p.134-141, ISSN 1224 – 5119 – p. 141-149 (<http://www.bioresearch.ro/revistaen.html>) (BDI)

- 4.2.2.** Monica Marian, Camelia Varga, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, 2009- EVALUATION OF THE PHYTOREMEDIATION POTENTIAL OF THE *SALIX CAPREA* IN TAILING PONDS, 2009, Analele Universitatii din Oradea, Ed. Universitatii din Oradea, Tom XIV. ISSN 1224 – 5119 – p. 141-149, (<http://www.bioresearch.ro/revistaen.html>) (BDI)
- 4.2.3.** Monica Marian, Leonard Mihaly Cozmuta, Camelia Varga, Anca Mihaly Cozmuta, Eugen Nour, 2009 - “Vegetation dynamics depending on ecological particularities of Bozanta Mare (Maramures County – Romania) tailing pound – case study” - revista AJES American Journal of Environmental Sciences, Science Publications, PO Box 879, Vails Gate Hgts Drive, Vails Gate. New York, 12584, USA, ISSN 1553-345X, 5(1):116-123
- 4.2.4.** Monica Marian, Camelia Varga, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, EVALUATION OF THE PHYTOREMEDIATION POTENTIAL OF THE *QUERCUS PETRAEA* IN TAILING PONDS, 2008, Studia Universitatis Vasile Goldis Arad, Seria Stiintele Vietii, Vol. 18/2008, ISSN 1453-1038, p.71-76, BDI indexed in Zoological Records: <http://scientific.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=goldis> (BDI)
- 4.2.5.** Marian, Monica, Varga, Camelia, Mihaly-Cozmuta, Leonard, Peter, Anca, Mihaly-Cozmuta, Anca , Boltea, Delia, EVALUATION OF THE PHYTOREMEDIATION POTENTIAL OF THE *POPULUS TREMULA* IN TAILING PONDS, acceptata spre prezentare la Conferinta The 8th International Symposium “PROSPECTS FOR THE 3rd MILLENNIUM AGRICULTURE” ; Buletinul UASVM nr. 66, indexed in CAB Abstracts, ISI Proceedings, Thomson Reuters Master Journal List, VINITI (BDI)
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**4.3.2.** M. Marian, C. Varga, L. Mihaly Cozmuta, A. Peter, A. Mihaly Cozmuta, D. Boltea, 2009 – Evaluation of Phytoremediation Potential of the Populus tremula in Tailing Ponds, Buletin USAMV Agricultura Cluj Napoca, vol 66, nr. 2, 2009, pag. 124-131, ISSN 1843-5246

**4.3.3.** Camelia Varga, Monica Marian, Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, 2008 – *Bio-accumulation of heavy metals in tailings dam vegetal species*, IAR Regional Conference on Geomorphology – Landslide, Floods and Global Environmental Change in Mountain regions, 15 – 26 septembrie 2008, Brasov, ISBN 978-973-749-434-4

**4.3.4.** Monica Marian, Camelia Varga, Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, 2008 – *Growth particularities of vegetal species in heavy metals-bearing soil*, IAR Regional Conference on Geomorphology – Landslide, Floods and Global Environmental Change in Mountain regions, 15 – 26 septembrie 2008, Brasov

**4.3.5.** Marian Monica, Camelia Varga, Mihaly Cozmuta Leonard, Mihaly Cozmuta Anca, 2008- *Tradition and modernity in the biochemistry of vegetal resources in Maramures*, IX Congreso "Cutura Europea" Pamplona 24-27 oct. 2007

**4.3.6.** Marian Monica, Coman Mirela, Mihaly-Cozmuta Leonard, Varga Camelia, Mihaly Cozmuta Anca, 2008 - Research regarding the alien plants species in the surrounding of Satu Mare town (Satu Mare county) in North-West of Romania, 17th International Workshop "European Vegetation Survey" Brno, Czech Republic, 1-4 May 2008

**4.3.7.** Marian, Monica, Mihaly-Cozmuta, L., Varga, Camelia, Coman, Mirela, Mihaly Cozmuta Anca, 2008 - The installation of primary vegetation on tailing ponds from non ferrous ores mining area in N-W Carpathians, 17th International Workshop "European Vegetation Survey" Brno, Czech Republic, 1-4 May 2008

**4.3.8.** Varga Camelia, Marian Monica, Mihaly-Cozmuta L., Coman Mirela, Mihaly Cozmuta Anca, Mare Rosca Oana, 2008 - The mining activities impact on the vegetal associations in surrounding of Baia Mare town (Maramures county) 17th International Workshop "European Vegetation Survey" Brno, Czech Republic, 1-4 May 2008

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**4.3.10.** L. Mihaly Cozmuta, C. Varga, M. Marian, A. Mihaly Cozmuta, 2007 - Physical and chemical stability assessment of tailings ponds, CAPACITY BUILDING ON THE ECOMINING PRINCIPLE, International Seminar Ecomining –Europe in 21st Century – the 2<sup>nd</sup> edition, 24-26 Octombrie, Sovata &Praid, 2007, p. 153-163, ISSN 978-973-741-071-9, pag. 152-161

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- 4.3.14.** Vasile Viman, Anca Mihaly-Cozmuta, Gheorghe Vatca, Leonard Mihaly, 2007-Cozmuta, Vasile Anitas - *Analysis of Soil's Pollutant Heavy Metals*, PITTCO Conference, 25.02.-2.03.2007, Chicago USA, 2320, CD
- 4.3.15.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, V. Viman, C. Varga, 2006 – *The influence of accidental spills on quality of soils. Mathematical modelling of pollutant's distribution*, International Conference of Physical Chemistry ROMPHYSICHEM -12, 6-8 Septembrie, Bucuresti, pag. 219 ISSN 1453-7672
- 4.3.16.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, V. Viman, C. Varga, I. Frind, 2006 – *Assesment of pollutant impact of tailing ponds on soil. Case study: cyanide dispersion*, 1<sup>st</sup> International Summer School Optoelectronic Techniques for Environmental Monitoring and Risk Assessment, 31.07-09.08. 2006, Baia Mare, p.229-236, ISBN 973-85818-8-5, 978-97-85818-8-3
- 4.3.17.** E.A. Konradi, M. Ponta, T. Frentiu, M. Senila, C. Roman, A. Mihaly Cozmuta, E. Cordos, 2006 – *Preliminary study on soil lead pollution around the Bozanta Mare tailing pond using Tessier's extraction scheme*, 1<sup>st</sup> International Summer School: Optoelectronic Techniques for Environmental Monitoring and Risk Assessment, 31 Julie-09. August 2006, Baia Mare, p. 259-261, ISBN 973-85818-8-5, 978-97-85818-8-3
- 4.3.17.** L. Mihaly Cozmuta, A. Mihaly Cozmuta, V. Viman, C. Varga. C. Cotea, 2006 – *The study of environment pollution with heavy metals. Case study: contamination of soil with lead*, 1<sup>st</sup> International Summer School Optoelectronic Techniques for Environmental Monitoring and Risk Assessment, 31 Julie-09. August 2006, Baia Mare, p. 221-227, ISBN 973-85818-8-5, 978-97-85818-8-3
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## 5. PROIECTE DE CERCETARE

### 5.1. PROIECTE NATIONALE

**5.1.1. Titlul proiectului:** *Reabilitarea iazurilor de decantare prin aplicare de amendamente si cultivarea unor specii vegetale cu adaptabilitate ridicata la continutul de metale grele - RIVAM*

**Coordonator consortiu:** sef lucrari dr. **Leonard Mihaly Cozmuta**- Universitatea de Nord Baia Mare

**Membri:** conf.dr. Camelia Varga, prof.dr. Anca Mihaly Cozmuta, sef lucrari dr. Monica Marian, sef lucrari drd. Anca Peter

**Durata:** 2008-2011

**Sursa de finantare:** CNMP in cadrul PNCDI 2

**Parteneri:** Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare

**Buget:** 1.900.000 RON

**5.1.2. Titlul proiectului:** *Bioacumularea metalelor grele in lantul sol-legume-om - BIOMEG*

**Coordonator consortiu:** Conf.dr. Camelia Varga - Universitatea de Nord Baia Mare

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta (responsabil stiintific)**, prof.dr. Anca Mihaly Cozmuta, sef lucrari dr. Monica Marian, sef lucrari drd. Anca Peter, etc.

**Durata:** 2008-2011

**Sursa de finantare:** CNMP in cadrul PNCDI 2

**Parteneri:** Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare, Facultatea de Medicina Universitatea Transilvania Brasov

**Buget:** 1.900.000 RON

**5.1.3. Titlul proiectului:** *Identificare soluții tehnice de reducere a impactului de poluare a componentelor de mediu (sol, apă) generat de apele de mină/deșeuri cu conținut de metale grele, Contract nr. 12.09.2007, perioada 2007 – 2008*

**Director proiect UBM:** Conf.dr. Denut Ioan

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Dorina Baciuc, prof.dr. Bud Ionica, prof. dr. Anca Mihaly Cozmuta,

**Durata:** 2007-2008

**Finanțator:** Ministerul Economiei și Finanțelor - Plan sectorial.

**Parteneri:** INCD-ECOIND București, ICD-CEPROMIN Deva, Universitatea de Nord din Baia Mare, SC ICPM SA Baia Mare, INCD-IMNR București, Universitatea din Petroșani.

**Buget:** 35.000 RON pentru UBM

**5.1.4. Titlul proiectului:** *Monitorizarea actiunii microbiotei solului in vederea utilizarii ei in reabilitarea ecologica a iazurilor de decantare-AMSREI*

**Coordonator consortiu:** sef lucrari dr. Monica Marian – Universitatea de Nord Baia Mare

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, prof.dr. Anca Mihaly Cozmuta, sef lucrari drd. Anca Peter, etc.

**Durata:** 2007-2010

**Sursa de finantare:** CNMP in cadrul PNCDI 2

**Parteneri:** Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare

**Buget:** 1.600.000 RON

**5.1.5. Titlul proiectului:** *Aplicarea integrata a bazelor de date pentru adoptarea si restructurarea factorilor naturali si artificiali de protectie a mediului in Ferme Zootehnice-AIBD*

**Director de proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, etc.

**Durata:** 2005-2008

**Sursa de finantare:** Ministerul Educatiei si Cercetarii prin Programul Cercetare de Excelenta - CALIST

**Parteneri:** USAMV Cluj Napoca, Universitatea de Nord Baia Mare – Romania, Universitatea Gent Belgia, Academia de Stiinte Republica Moldova – Institutul de Zoologie

**Buget:** 100.000 RON pentru UBM

**5.1.6. Titlul proiectului:** *Elaborarea hartilor de hazard si evaluarea calitatii mediului in arealele miniere din judetele Maramures si Satu Mare utilizand sistemele informationale geografice - SIG*

**Director de proiect UBM:** prof.dr. Anca Mihaly Cozmuta

**Membri:** **Leonard Mihaly Cozmuta (responsabil stiintific)**

**Anul:** 2005-2008

**Sursa de finantare:** CNCSIS

**Parteneri:** Institutul de Geografie al Academiei Romane, Institutul de Instrumentatie Analitica Cluj Napoca, Geoproiect Bucuresti, Universitatea de Nord Baia Mare, FSM Cluj Napoca

**Buget:** 190.000 RON pentru UBM

**5.1.7. Titlul proiectului:** *Conexiuni la Cercetarea Europeana de Excelenta in Problematika de Mediu - CONEEX*

**Coordonator consortiu:** prof.dr. Vasile Viman – Universitatea de Nord Baia Mare

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta (responsabil stiintific)**, conf.dr. Camelia Varga, prof.dr. Anca Mihaly Cozmuta, sef lucrari drd. Anca Peter, etc.

**Durata:** 2005-2007

**Sursa de finantare:** CNCSIS

**Parteneri:** Universitatea de Nord Baia Mare – Romania, Institutul Național de Optoelectronică – INOE București, Institutul de Instrumentație Analitică -ICIA-CENTI Cluj Napoca

**Buget:** 100.000 RON pentru UBM

**5.1.8. Titlul proiectului:** *Posibilitati de reducere a impactului poluant al factorilor de mediu (apa, sol) produs de apele de mina/deseuri 14/206325/01.07.2005*

**Director proiect UBM:** Conf.dr.ing. Ioan Denut

**Membri: sef lucrari dr. Leonard Mihaly Cozmuta**, conf.dr. Dorina Baciuc, prof.dr. Anca Mihaly Cozmuta, prof.dr. Ioan Bud, conf.dr. Simona Duma, etc.

**Durata:** 2005-2006

**Sursa de finantare:** CNCSIS

**Parteneri:** Universitatea de Nord Baia Mare, INCD-ECOIND Bucuresti, ICD-CEPROMIN Deva, EVALPROTECTSRL Baia Mare, INCD-IMNR Bucuresti, INCD-ICIM Bucuresti

## 5.2. PROIECTE DE CERCETARE INTERNAȚIONALE

**5.2.1. Titlu :** Smart functions of packages containing nano-structured materials in food preservation – SMARTPACK

**Coordonator: Lecturer** dr. Anca Peter, UTC-N CUNBM-Romania

**Membri:** Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, Camelia Nicula

**Durata:** 2012-2015

**Sursa de finantare:** MNT-ERANET Program

**Parteneri:** ICA-Bucuresti-Romania, Universitatea Babes Bolyai Cluj Napoca-Romania, SC Somes Dej-Romania, Warsaw University – Poland

**5.2.2. Titlul proiectului:** *Developing of a biophysical system based on zeolites-microorganisms-vegetal species for ecoremediation of tailing ponds coming from gold-silver preparation industry - ZEMIP*

**Coordonator consortiu: sef lucrari dr.ing. Leonard Mihaly Cozmuta-UBM**

**Membri:** conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, prof.dr. ing. Anca Mihaly Cozmuta

**Durata:** 2009-2011

**Sursa de finantare:** CNMP – proiecte bilaterale in cadrul PNCDI 2

**Parteneri:** Universitatea de Nord Baia Mare -Romania, Universitatea Johannesburg -Africa de Sud

**Buget:** 311.079 RON

**5.2.3. Titlul proiectului:** *CII-HU-0010-03-12-13 - Teaching and Learning Bioanalysis*

**Director de proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri: sef lucrari dr. Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, sef lucrari dr. Anca Peter

**Durata:** 2009-2010

**Sursa de finantare:** Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CII-HU-0010-03-0809)

**Parteneri:** University of Pécs-Ungaria (coordonator consortiu), Universitatea de Nord Baia Mare -Romania, Graz University of Technology-Poland, Neophit Rilski South-West University-Bulgaria, Sofia University St.Kliment Ohridski-Bulgaria, University of Zagreb-Croatia, Charles University in Prague-Cehia, Palacký University, Olomouc-Cehia, Eötvös Loránd University – Ungaria, University of Debrecen-Ungaria, University Sts.Cyril and Methodius – Skopje-Macedonia, Warsaw University-Polonia, Universitatea babes Bolyai Cluj Napoca,Universitatea de Medicina si Farmacie Targu Mures -Romania, University in Prishtina with temporary seat in Kosovska Mitrovica, Comenius University in Bratislava-Slovenia, Constantine The Philosopher University in Nitra-Slovenia

**5.2.4. Titlul proiectului:** *CII-HU-0010-03-09-10 - Teaching and Learning Bioanalysis*

**Director de proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri: sef lucrari dr. Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, sef lucrari dr. Anca Peter

**Durata:** 2009-2010

**Sursa de finantare:** Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CII-HU-0010-03-0809)

**Parteneri:** University of Pécs-Ungaria (coordonator consortiu), Universitatea de Nord Baia Mare -Romania, Graz University of Technology-Poland, Neophit Rilski South-West University-Bulgaria, Sofia University St.Kliment Ohridski-Bulgaria, University of Zagreb-Croatia, Charles University in Prague-Cehia, Palacký University, Olomouc-Cehia, Eötvös Loránd University – Ungaria, University of Debrecen-Ungaria, University

Sts.Cyril and Methodius – Skopje-Macedonia, Warsaw University-Polonia, Universitatea babes Bolyai Cluj Napoca, Universitatea de Medicina si Farmacie Targu Mures -Romania, University in Prishtina with temporary seat in Kosovska Mitrovica, Comenius University in Bratislava-Slovakia, Constantine The Philosopher University in Nitra-Slovakia

**5.2.5. Titlul proiectului:** *CII-HU-0010-03-0809 - Teaching and Learning Bioanalysis*

**Director de proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, sef lucrari dr. Anca Peter

**Durata:** 2009-2010

**Sursa de finantare:** Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CII-HU-0010-03-0809)

**Parteneri:** University of Pécs-Ungaria (coordonator consortiu), Universitatea de Nord Baia Mare -Romania, Graz University of Technology-Poland, Neophit Rilski South-West University-Bulgaria, Sofia University St.Kliment Ohridski-Bulgaria, University of Zagreb-Croatia, Charles University in Prague-Cehia, Palacký University, Olomouc-Cehia, Eötvös Loránd University – Ungaria, University of Debrecen-Ungaria, University Sts.Cyril and Methodius – Skopje-Macedonia, Warsaw University-Polonia, Universitatea babes Bolyai Cluj Napoca, Universitatea de Medicina si Farmacie Targu Mures -Romania, University in Prishtina with temporary seat in Kosovska Mitrovica, Comenius University in Bratislava-Slovakia, Constantine The Philosopher University in Nitra-Slovakia

**5.2.6. Titlul proiectului:** *ARGO training placement under the lifelong learning programme*

**Director de proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, etc.

**Durata:** 2008-2009

**Sursa de finantare:** Uniunea Europeana in cadrul Programului Leonardo da Vinci

**Parteneri:** Universitatea de Nord Baia Mare-Romania, Fundacia para el Fomento en Asturias de la Investigación Aplicada y la Tecnología (FICYT)- Madrid - Spania

**5.2.7. Titlul proiectului:** *Education in separation and identification of organic xenobiotics in environmental samples and food product*

**Director proiect UBM:** sef lucrari dr.ing. **Leonard Mihaly Cozmuta**

**Membri:** conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, prof.dr. Anca Mihaly Cozmuta

**Durata:** 2008-2009

**Sursa de finantare:** Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

**Parteneri:** Nicolaus Copernicus University – Torun, Poland (coordinator retea), Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs – Hungary, Agricultural University Wrodaw – Poland, Medical University of Gdansk – Poland, Comenius University of Bratislava – Slovakia, University of Ljubliana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia.

**5.2.8. Titlul proiectului:** *Education in separation and identification of organic xenobiotics in environmental samples and food product*

**Director proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri:** sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga

**Anul:** 2007-2008

**Sursa de finantare:** Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

**Parteneri:** Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs – Hungary, Agricultural University Wrodaw – Poland, Medical University of Gdansk – Poland, Comenius



University of Bratislava – Slovakia, University of Ljubliana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia, Nicolaus Copernicus University – Torun, Poland

**5.2.9. Titlul proiectului:** *Education in separation and identification of organic xenobiotics in environmental samples and food product*

**Director proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri: sef lucrari dr. Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga

**Anul:** 2006-2007

**Sursa de finantare:** Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

**Parteneri:** Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs – Hungary, Agricultural University Wrodaw – Poland, Medical University of Gdansk – Poland, Comenius University of Bratislava – Slovakia, University of Ljubliana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia, Nicolaus Copernicus University – Torun, Poland

**5.2.10. Titlul proiectului:** *Education in separation and identification of organic xenobiotics in environmental samples and food product*

**Director proiect UBM:** prof.dr.ing. Anca Mihaly Cozmuta

**Membri: sef lucrari dr. Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga

**Anul:** 2005-2006

**Sursa de finantare:** Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

**Parteneri:** Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs – Hungary, Agricultural University Wrodaw – Poland, Medical University of Gdansk – Poland, Comenius University of Bratislava – Slovakia, University of Ljubliana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia, Nicolaus Copernicus University – Torun, Poland

**5.2.11. Titlul proiectului:** *Investigation of the Risk of Cyanide in Gold Leaching on Health an Environment in Central Asia and Central Europe, IRCYL, ICA 2- CT- 2000- 10065.*

**Director de proiect UBM:** prof.dr. Viman Vasile

**Membri: sef lucrari dr. Leonard Mihaly Cozmuta (responsabil stiintific)**, prof.dr. Anca Mihaly Cozmuta, conf.dr. Gheorghe Vatca

**Durata:** 2000-2004

**Sursa de finantare:** UE cadrul in FP 5

**Parteneri:** IC Consultants Ltd Uk (coordonator consortiu), Universitatea de Nord Baia Mare – Romania, Medical Institute for Environmental Hygiene Germany; InfoMine Rusia; Kyrgyz Research Institute of Oncology and Radiolgy Kyrgyzstan; Kyrgyz Scientific Center of Haematology Kyrgyzstan; Institute for Regional Studies Kyrgyzstan; Pshysico- Chemical Methods Analysis Center Almaty Kazakhstan; University Babes Bolyai Cluj Napoca Romania; Institute of Public Hygiene Cluj Napoca Romania; Institute of Analytical Instrumentation and Environmental Analyses Cluj Napoca Romania; Mining Consortium Research and Companies Deva Romania.

**Buget:** 100.000 euro pentru UBM

## 5. PROFESOR INVITAT

**5.1.** Universitatea of Johannesburg, School of Chemistry, South Africa-1.08.2009-25.08.2009

**5.2** Department of Environmental Chemistry & Ecoanalytics of Nicolaus Copernicus University of Torun – Poland (2005)

## 6. EXPERT/EVALUATOR

**6.1.** Expert ARACIS-CHIMIE [http://pfe.aracis.ro/inscriere/registru/lista\\_c\\_d/1/3/](http://pfe.aracis.ro/inscriere/registru/lista_c_d/1/3/)



- 6.2. Education and Research Ministry of Bulgaria for research projectS, 2009  
 6.3. Education and Research Ministry Romania , 2008  
 6.4. INTERREG, 2008  
 6.5. National Research Foundation – SEE-ERA.NET Pilot Joint Call-2007; cod evaluator: 5224  
 6.6. Marie Curie Projects; FP 5- 2005-2006; cod evaluator: EX02B042388

## 7. EDITOR/REFERENT

- 7.1. Journal of Veterinary Medicine and Animal Health (JVMAH) [www.academicjournals.org/JVMAH](http://www.academicjournals.org/JVMAH)  
 7.2. Analele Universitatii din Oradea – Seria Biologie <http://www.bioresearch.ro/revista.html>  
 7.3. Editor executiv: Carpathian Journal of Food Science and Technology, coordonata de Centrul de Cercetare Stiintifica pentru Siguranta Mediului, Alimentelor si Sanatatii- CCESMAS din cadrul Catedrei de Chimie-Biologie [http://chimie-biologie.ubm.ro/carpathian\\_journal/index.html](http://chimie-biologie.ubm.ro/carpathian_journal/index.html)

## 8. CURSURI DE SPECIALIZARE

- 8.1. From farm to Fork European Food Safety Legislation, organizat de UE in cadrul LLP Leonardo da Vinci Program, 2011  
 8.2. Universitatea de Nord Baia Mare in colaborare cu L’Ecole des Mines d’Ales – France: „Prise en compte de l’environnement en exploitation miniere”, 1995

## 9. REFERENT TEZE DE DOCTORAT

- 9.1. Laura Bretan,USAMV Cluj Napoca, decembrie 2012

## 10. ARTICOLE CITATE (<http://www.scopus.com/>)

Articolul citat	Articolul in care a fost citat
Mihaly-Cozmuta L, Mihaly-Cozmuta A, Peter A, Nicula C, Tutu H, Silipas D, Indrea E. Adsorption of heavy metal cations by Na-clinoptilolite: equilibrium and selectivity studies. J Environ Manage, 2014, 137:69–80	Yuanyuan Ge, Xuemin Cui, Yan Kong, Zhili Li, Yan He, Qianqian Zhou. Porous geopolymeric spheres for removal of Cu(II) from aqueous solution: Synthesis and evaluation. Journal of Hazardous Materials 283 (2015) 244–251.
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E.N. Bakatula, E.M. Cukrowska, I.M. Weiersbye, L. Mihaly-Cozmuta, A. Peter, H. Tutu . Biosorption of trace elements from aqueous systems in gold mining sites by the filamentous green algae ( <i>Oedogonium</i> sp.). Journal of Geochemical Exploration, Volume 144, Part C, 2014, pp. 492-503	Joel T. Kidgell, Rocky de Nys, Nicholas A. Paul, David A. Roberts. The Sequential Application of Macroalgal Biosorbents for the Bioremediation of a Complex Industrial Effluent, Published: July 25, 2014, DOI: 10.1371/journal.pone.0101309, PLoS ON, www.ploson
Peter, Anca; Mihaly-Cozmuta, Leonard; Mihaly-Cozmuta, Anca; Nicula, Camelia; Indrea, Emil; Tutu, Hlanganani . Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of <i>Hieracium piloselloides</i> in a dose-dependent way, JOURNAL OF ENVIRONMENTAL MONITORING, 14(10), pp.2807-2814, DOI: 10.1039/c2em30301a, 2012, ISSN: 1464-0325	Damian, Floarea; Damian, Gheorghe; Lacatusu, Radu; Postolache, Carmen; Iepure, Gheorghe; Jelea, Marian; Nasui, Daniel. The heavy metals immobilization in polluted soils from Romania by the natural zeolites use. CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES, 8(4), pp.231-250, 2013, ISSN: 1842-4090, ISN: 1844-489X

<p>Peter, Anca; Nicula, Camelia; Mihaly-Cozmuta, Anca; Mihaly-Cozmuta, Leonard; Indrea, Emil. Chemical and sensory changes of different dairy products during storage in packages containing nanocrystallised TiO<sub>2</sub>. <i>INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY</i>, 47(7), pp.1448-1456, DOI: 10.1111/j.1365-2621.2012.02992.x, 2012, ISSN: 0950-5423</p>	<p>Ziemkowska, Wanda; Basiak, Dariusz; Kurtycz, Patrycja; Jastrzebska, Agnieszka; Olszyna, Andrzej; Kunicki, Antoni. Nano-titanium oxide doped with gold, silver, and palladium - synthesis and structural characterization. <i>CHEMICAL PAPERS</i>, 68(7), pp. 959-968, DOI: 10.2478/s11696-014-0537-7, 2014. ISSN: 0366-6352, eISSN: 1336-9075</p> <p>Ouzounidou, Georgia; Papadopoulou, Kalliope K.; Asfi, Maria; Mirtziou, Ioanna; Gaitis, Fragiskos. Efficacy of different chemicals on shelf life extension of parsley stored at two temperatures. <i>INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY</i>, 48(8), pp. 1610-1617, DOI: 10.1111/ijfs.12131, 2013, ISSN: 0950-5423</p> <p>de Azeredo, Henriette M. C.. Antimicrobial nanostructures in food packaging. <i>TRENDS IN FOOD SCIENCE &amp; TECHNOLOGY</i>, 30(1), pp.56-69, DOI: 10.1016/j.tifs.2012.11.006, 2013, ISSN: 0924-2244</p> <p>Christoforidis, Konstantinos C.; Kubacka, Anna; Ferrer, Manuel; Cerrada, Maria L.; Fernandez-Garcia, Marta; Fernandez-Garcia, Marcos. Role of TiO<sub>2</sub> morphological characteristics in EVOH-TiO<sub>2</sub> nanocomposite films: self-degradation and self-cleaning properties. <i>RSC ADVANCES</i>, 3(22), pp. 8541-8550, DOI: 10.1039/c3ra23271a, 2013, ISSN: 2046-2069</p>
<p>Marian, Monica; Peter, Anca; Mihaly-Cozmuta, Leonard; Bakatula, Elysee. Increased survival chances of the species quercus petraea in terms of pollution with cd and cu by using microbiota-bentonite systems. <i>CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES</i>, 7(1), pp. 231-237, 2012, ISSN: 1842-4090</p>	<p>Stefan, Marius; Munteanu, Neculai; Stoleru, Vasile; Mihasan, Marius; Hritcu, Lucian. Seed inoculation with plant growth promoting rhizobacteria enhances photosynthesis and yield of runner bean (<i>Phaseolus coccineus</i> L.). <i>SCIENTIA HORTICULTURAE</i>, 151, pp. 22-29, DOI: 10.1016/j.scienta.2012.12.006, 2013, ISSN: 0304-4238</p>
<p>Cozmuta, Anca Mihaly; Bretan, Laura; Cozmuta, Leonard Mihaly; Nicula, Camelia; Peter, Anca. Lead traceability along soil-melliferous flora-bee family-apiary products chain. <i>JOURNAL OF ENVIRONMENTAL MONITORING</i>, 14(6), pp. 1622-1630, DOI: 10.1039/c2em30084b, 2012, ISSN: 1464-0325</p>	<p>Losfeld, Guillaume; Saunier, Jean-Baptiste; Grison, Claude. Minor and trace-elements in apiary products from a historical mining district (Les Malines, France). <i>FOOD CHEMISTRY</i>, 146, pp. 455-459, DOI: 10.1016/j.foodchem.2013.08.105, 2014, ISSN: 0308-8146, eISSN: 1873-7072</p> <p>Pereira, Olivia R.; Domingues, Maria R. M.; Silva, Artur M. S.; Cardoso, Susana M.. Phenolic constituents of <i>Lamium album</i>: Focus on isoscutellarein derivatives. <i>FOOD RESEARCH INTERNATIONAL</i>, 48(1), pp. 330-335, DOI: 10.1016/j.foodres.2012.04.009, 2012, ISSN: 0963-9969</p>
<p>Cozmuta, L. Mihaly; Cozmuta, A. Mihaly; Peter, A.; Nicula, C.; Nsimba, E. Bakatula; Tutu, H. The influence of pH on the adsorption of lead by Na-clinoptilolite: Kinetic and equilibrium studies. <i>WATER SA</i>, 38(2), pp. 269-278, DOI: 10.4314/wsa.v38i2.13, 2012, ISSN: 0378-4738</p>	<p>Manasi; Rajesh, Vidya; Rajesh, N. Adsorption isotherms, kinetics and thermodynamic studies towards understanding the interaction between a microbe immobilized polysaccharide matrix and lead. <i>CHEMICAL ENGINEERING JOURNAL</i>, 248, pp. 342-351, DOI: 10.1016/j.ccej.2014.03.022, 2014. ISSN: 1385-8947, eISSN: 1873-3212</p> <p>Peter, Anca; Mihaly-Cozmuta, Leonard; Mihaly-Cozmuta, Anca; Nicula, Camelia; Tudoran, Lucian Barbu; Vulpoi, Adriana; Baia, Lucian. Photocatalytic Efficiency of Zeolite-Based TiO<sub>2</sub> Composites for Reduction of Cu(II): Kinetic Models. <i>INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY</i>, 11(3), pp. 568-581, SI, DOI: 10.1111/ijac.12046, 2014, ISSN: 1546-542X, eISSN: 1744-7402</p> <p>Maszkowska, J., Stolte, S., Kumirska, J., Lukaszewicz, P., Mioduszewska, K., Puckowski, A., Caban, M., Wagil, M., Stepnowski, P., Białk-Bielin'ska, A. Beta-blockers in the environment: Part I. Mobility and hydrolysis study. <i>Science of the Total Environment</i>, 493, issue, year 2014, pp. 1112 – 1121; doi: 10.1016/j.scitotenv.2014.06.023.</p> <p>Mihaly-Cozmuta, L., Mihaly-Cozmuta, A., Peter, A., (...), Silipas, D., Indrea, E. Document Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies. <i>Journal of Environmental Management</i>, 137, pp. 69-80, 2014</p> <p>Tutu, H.; Bakatula, E.; Dlamini, S.; Rosenberg, E.; Kailasam, V.; Cukrowska, E. M.. Kinetic, equilibrium and thermodynamic modelling of the sorption of metals from aqueous solution by a silica polyamine composite. <i>WATER SA</i>, 39(4), pp. 437-443, DOI: 10.4314/wsa.v39i4.1, 2013, ISSN: 0378-4738</p> <p>Pakade, Vusumzi; Chimuka, Luke. Polymeric sorbents for removal of Cr(VI) from environmental samples <i>PURE AND APPLIED CHEMISTRY</i>, 85(12), pp. 2145-2160, DOI: 10.1351/PAC-CON-12-11-17, 2013, ISSN: 0033-4545</p>

	Peter, Anca; Mihaly-Cozmuta, Leonard; Mihaly-Cozmuta, Anca; Nicula, Camelia; Indrea, Emil; Tutu, Hlanganani. Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides in a dose-dependent way. JOURNAL OF ENVIRONMENTAL MONITORING, 14(10), pp. 2807-2814, DOI: 10.1039/c2em30301a, 2012, ISSN: 1464-0325
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	Rosal, A.; Chica, A. F.; Arcos, M. A.; Dios, M. Use of organic acids in the composting of municipal solid waste: a pilot-scale study. ENVIRONMENTAL TECHNOLOGY, 33(18), pp. 2149-2158, DOI: 10.1080/09593330.2012.660653, 2012, ISSN: 0959-3330
	Peter, A., Mihaly-Cozmuta, L., Mihaly-Cozmuta, A., (...), Indrea, E., Tutu, H. Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides in a dose-dependent way. Journal of Environmental Monitoring 14 (10), pp. 2807-2814
Oros, Vasile; Coman, Mirela; Marian, Monica; Mihaly, Leonard G.; Mihaly, Anca. Preliminary investigation aimed to ecological reclaiming by phytoremediation of a large flotation tailing dump in Baia Mare mining area. Environmental Engineering and Management Journal, 8(4), pp. 915-922, 2009, ISSN: 1582-9596	Xu, Defu; Li, Yingxue; Xu, Xianghua; Zhao, Xiaoli; Fang, Hua. Effect of microbial activity in the rhizosphere of wetland plants on removal of total organic carbon and nitrogen from wastewater. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 10(6), pp. 781-786, 2011
	Modoi, Oana-Cristina; Vlad, Serban-Nicolae; Stezar, Ileana-Codruta; Manciu, Dorin; Gagi, Andra Cristina; Marginean, Sanda. Integrated tailing dams management in BAIJA MARE AREA, ROMANIA. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. 10(1), pp.43-51, 2011
	Senila, Marin; Levei, Erika; Miclean, Mirela; Senila, Lacrimioara; Stefanescu, Lucrina; Marginean, Sanda; Ozunu, Alexandru; Roman, Cecilia. Influence of pollution level on heavy metals mobility in soil from NW ROMANIA. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 10(1), pp. 59-64, 2011
Cozmuta, Leonard Mihaly; Varga, Camelia; Marian, Monica; Cozmuta, Anca Mihaly; Hlanganani, Tutu. Applying artificial neural networks in the modelling of copper recovery process by ionic exchange in aqueous solutions. REVISTA DE CHIMIE, 59(7), pp. 766-772, 2008, ISSN: 0034-7752	Stefan, Daniela Simina; Meghea, Irina. Mechanism of simultaneous removal of Ca <sup>2+</sup> , Ni <sup>2+</sup> , Pb <sup>2+</sup> and Al <sup>3+</sup> ions from aqueous solutions using Purolite((R)) S930 ion exchange resin. COMPTES RENDUS CHIMIE, 17(5), pp. 496-502, DOI: 10.1016/j.crci.2013.09.010, 2014, ISSN: 1631-0748, SSN: 1878-1543
	Pindaru, Diana Mihaela; Tanase, Catalin; Olariu, Romeo Iulian; Arsene, Cecilia. Chemical Composition and Ions Concentration in Xanthoria parietina and Phaeophyscia orbicularis Lichenised Fungi Species from Iasi, North-Eastern Romania, REVISTA DE CHIMIE, 64(8), pp.8-814, 2013, ISSN: 0034-7752
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