

CS3. Dr. Aurora Neagoe

Contributed by Administrator
 Tuesday, 11 December 2007
 Last Updated Monday, 29 November 2010

Nationalitate: Româna

Stare civil : CasatoritaData nasterii: 23 Ianuarie 1965Interese: biogeochimie, bioremediere Detalii: Munca mea de cercetare s-a focalizat pe :- Biogeochimia azotului în bazinile agricole _i luncă inundabilă a Dunării;- Biogeochimia metalelor în Rositz/Turingia, Germania (activitate efectuată pe perioada 1995-1999 sub formă de stagii doctorale de minim 6 luni pe an)- Strategii de bioremediere a ecosistemelor terestre poluate cu metale grele (2003-prezent)

Activitate didactică Lucrari practice cu studenții: două semestri în 2003 _i 2004, în cadrul cursului „Erenährungswissenschaft“ susținut de Prof. Bergmann de la Facultatea de Biologie _i Farmacie Friedrich Schiller din Jena, Germania; Curs în cadrul masterului interdisciplinar „Evaluarea _i Controlul Integrat al Poluării Mediului“ organizat de Universitatea din București, CREDIS, Departamentul de Tehnologii, titlul cursului: „Remedierea zonelor poluate“ (2007-prezent); Lucrari practice cu studenții, în cadrul masterului interdisciplinar „Evaluarea si Controlul Integrat al Poluării Mediului“ organizat de Universitatea din București, CREDIS, Departamentul de Tehnologii, titlul cursului: „Remedierea zonelor poluate“ (2007-2009); În lucrări practice anul I Chimia Mediului , Facultatea de Chimie, în cadrul cursului „Compounds Organics cu Funcțiuni simple“, În cadrul cursului „Coordonare de lucrări de licență _i master. Recunoașterea expertizei. Am participat la peste 30 de evenimente _i incide, dintre care la patru ca cercetător invitat _i la 2 ca chairman. Am primit premii pentru cercetare din partea Universității din București 2006. Am obținut o bursă Tempus pe o durată de 6 luni în anul 1995, în cadrul masterului interdisciplinar „Ecotehnologie“, cu tema „Chimia Mediului“, la Universitatea Friedrich Schiller, Jena/Germania sau altă bursă post doc. Marie Curie pe o perioadă de doi ani, _i una BMBF pe o perioadă de jumătate de an, ambele la aceeași universitate Friedrich Schiller, Jena/Germania. Fac parte din organizațiile profesionale: International Society of Trace Element Biogeochemistry (ISTEB) _i „Biogeointeraction group - BG“ Universitatea Friedrich Schiller, Jena/Germania. Fac parte din Consorțiul Național pentru Biogeochimia Microelementelor. Am evaluat articole pentru revistele cotate ISI „Chemie der Erde“, „Environmental Radiochemistry“ _i „Soil and Plant“. Am evaluat proiecte pentru programele CNCSIS. Activități manageriale Am manageriat/manageriez pentru Universitatea din București _i pentru Universitatea Friedrich Schiller Jena/Germania, următoarele proiecte de cercetare: - Evaluarea Retentiei Metalelor Grele in Insula Fundu Mare, Lunca Dunării, finanțat de CNCSIS, proiect AT;- Influence of MicrofloRA on Heavy Metal Cycle and Water Quality (MIRACLE), contract no EVK1-CT-2001-56001;- The Control of Biological investigation in the decontamination of heterogeneous, slow radioactive GEOSubstrate (COBIOGEO), BMBF financial resources, Germany, contract nr. 02S8294;- Decision support system for the remediation of heavy Metals polluted ecoSystems (DEMOS), FP6-2002-Mobility-11, Marie Curie European Return and Re-Integration Grants (ERG), MERG „CT-2005“ 517913;- Coupling of Transgenic plants with mycorrhizal fungi for the remediation of heavy metals polluted areas (TITAN), CEEEX Modul II, nr. 3183, Romanian Re-Integration Grants (RRG), proiect de reintegrare;- Leaching of Metals from a Contaminated Soil Inoculated with Fungi, proiect NATO PDD(CP)-(ESP.RIG 982571), proiect de reintegrare;- Modelarea matematică a carbonului organic din sol asupra exportului metalelor prin percolare în zone puternic contaminate cu metale, (MODMETAL), CNCSIS -1678;- Modelarea unor mecanisme cheie implicate în mobilitatea metalelor în ECOSisteme TERestre și de zona umedă, (MECOTER), contract PNII nr. 291, Idei, UEFISCU;- Procedura de FITOremediere și evaluare a RISCului în zone contaminate cu metale (FITORISC), contract PNII nr. 31-012, Parteneriat;- Procedura de evaluare economică a retentiei poluantilor toxici stabili în sisteme fluviale (PECOTOX), contract PNII nr. 31-043, Parteneriat;- Modernizarea și întreținerea INFRAstructurii CD pentru Biogeochimia Microelementelor (INFRABIM), contract PNII nr. 22, Capacități, ANCS;- Evaluarea bilanțului de METale în AGROsisteme din România (METAGRO), contract PNII nr. 52-175, Parteneriat;- Using Microbes for the Regulation of heavy metal mobility at ecosystem and landscape scale (UMBRELLA), collaborative: Small or medium-scale, work programme: 3.1.2. ENV. 2008.3.1.2.1 "Recovery of degraded soil resources", Coordinator: Prof. Dr. Erika Kothe. În cadrul capitolei în cadrul Neagoe Aurora, Iordache Virgil, Ileana Farcasanu, 2011, The Role of Organic Matter in the Mobility of Metals in Contaminated Sites, în Kothe E, Varma A (Eds) Biogeointeractions in contaminated soils, Springer în Farcasanu Ileana, Matache Mihaela, Aurora Neagoe, Virgil Iordache, 2011, Hyperaccumulation: a Key to Heavy Metal Bioremediation, în Kothe E, Varma A (Eds) Biogeointeractions in contaminated soils, Springer în Jianu Denisa, Iordache Virgil, Barbara Soara, Lucian Petrescu, Aurora Neagoe, 2011, The Role of Mineralogy in Hazard Potential of Mining Areas, în Kothe E, Varma A (Eds) Biogeointeractions in contaminated soils, Springer în Iordache Virgil, Lacatusu Radu, Daniel Scrădeanu, Marilena Onete, Stelian Ion, Aurora Neagoe, Denisa Jianu, Florian Bodescu, Dorina Purice, Ioana Cobzaru, 2011, Scale Specific Processes of Metals Mobility in Contaminated Areas, în Kothe E, Varma A (Eds) Biogeointeractions in contaminated soils, Springer în Iordache Virgil, E. Kothe, A. Neagoe, F. Gherghel, 2010, A conceptual framework for up-scaling ecological processes and application to ectomycorrhizal fungi, în Rai M., Varma A. (ed.) Diversity and Biotechnology of Ectomycorrhiza, Springer în Neagoe A., 2008, Efectul contaminării cu gudron a zonei Rositz/Thuringia - Germania și a decontaminării termice asupra continutului de Mangan, Zinc, Cupru și Molibden din vegetație și asupra transferului acestor microelemente către populația umană, Editura cu profil academic și cultural recunoscută CNCSIS - Ars Docedi, ISBN: 978-973-558-366-8. Iordache, V., F. Bodescu, A. Neagoe, 2005, The

management of riparian forests in a macrolandscape context, RipFor-The Scientific Report, Hidraulic, Sedimentological and Ecological Problems of Multifunctional Riparian Forest Management (RIPFOR), pp 125-141 Neagoe A., 2004, Bismuth, in Merian E., Anke M., Ihnat M. and Stoeppler M., Vol. 2 „Elements and their Compounds in the Environment“, 2nd Completely Revised and Enlarged Edition, WILEY-VCH Verlag, pp. 671-708. Media Interviu TopUBPovestea reintegrarii mele, p70Articole in reviste Neagoe A, D. Merten, V. Iordache, and G. Buechel, (2009). The effect of bioremediation methods involving different degrees of soil disturbance on the export of metals by leaching and by plant uptake, Chemie der Erde-Geochemistry , 69 (2009) S2, 57-73, Elsevier Verlag Neagoe A, Gustav Eben, Erik Carlsson (2005), The effect of soil amendments on plant performance in an area affected by acid mine drainage , Chemie der Erde 65, 115-129, Elsevier Verlag,Mascher R., E. Nagy B. Lippmann, S. Härlein, S. Fischer, W. Scheiding, A. Neagoe, Hans Bergmann, Improvement of stress tolerance in barley (*Hordeum vulgare L.*) by 2 aminoethanol: Effects on superoxide dismutase activity and chloroplast structure , Plant Science, 168 (2005), 691-698, Elsevier VerlagMascher R., S. Fischer, W. Scheiding, A. Neagoe and Hans Bergmann, Exogens 2-aminoethanol can diminish paraquat induced oxidative stress in barley (*Hordeum vulgare L.*) Plant Growth Regulation (2005) 45, 103-112, Springer Verlag.Neagoe A., V. Iordache, T. Altorfer, M. Anke (2000), Die Spurenelemente Mangan, Zink, Kupfer und Molybdän in der Nahrungskette des Menschen eines Teerbelasteten Lebensraumes (Rositz, Thüringen) , in Mineralstoffe: Mengen- Spuren- und Ultraspurenelemente in der Prävention, Verlag Harald Schubert, Leipzig, 367-373, [ISBN 3-8047-1838-8]Mocanu, H., Neagoe, A., Anke, M. (1999), Cadmiumtransfer in der Nahrungskette des Menschen des Teerbelasteten Lebensraumes Rositz (Thüringen) , in Mengen- Spuren- und Ultraspurenelemente in der Prävention, Verlag Harald Schubert, Leipzig, 135-146, [ISBN 3-8047-1838-8] Articole in volume ale unor conferinte Angelow L., A. Neagoe, I. Petrova, Kashamov B. (2004), Effect of multielement supplementation (Se-Zn-I) to the diet of ewes during the suckling period on the milk performance and trace element content, 22. Arbeitstagung in Jena, Lebensnotwendigkeit und Toxizität der Mengen-, Spuren- und Ultraspurenelemente, pp. 417-423, [ISBN 3-929526-85-9], ISSN 1430-9637Angelow L., Wagner H., Petrova I., Kashamov B., Neagoe A. (2004), Der Bleigehalt der Flora und Fauna in der Vorgebirgs- und Gebirgsregionen Bulgariens, 22. Arbeitstagung in Jena, Lebensnotwendigkeit und Toxizität der Mengen-, Spuren- und Ultraspurenelemente, pp. 705-712, [ISBN 3-929526-85-9], ISSN 1430-9637Angelow, L., A. Neagoe, E. Achkanova (2002), Study of copper accumulation capacity of meadow vegetation and copper supply for animals during the pasture period in different mountains area (Central and South Bulgaria) Proceedings of the 4rd International Symposium on "Metal elements in Environment, Medicine and Biology", Timisoara, Romania, pp. 176-188, ISSN: 1583-4204Anke, M., Dorn, M., Muller, M., Neagoe, A., Mocanu, H. p. (1999), Mangantransfer in der Nahrungskette des Menschen. 4. Mitteilung: Der Manganverzehr Erwachsener in Abhängigkeit von Geschlecht, Zeit, Lebensraum, Kostform, Alter, Körpergewicht, Jahreszeit und Stillzeit, 19. Arbeitstagung "Mengen und Spurenelemente" in Jena, Friedrich-Schiller Universität, pp. 1030-1037, [ISBN 3-8047-1838-8]Anke, M., Illing-Günther, H., Häflzinger, S., Jaritz, M., Glei, M., Muller, M., Anke, S., Träpisch, A., Neagoe, A., Arnhold, W., Schäffer, U. (1997), Der Chromtransfer in der Nahrungskette. 2. Mitteilung; Der Chromgehalt pflanzlicher Lebensmittel, 17. Arbeitstagung "Mengen und Spurenelemente" in Jena, Friedrich-Schiller Universität, pp.894-902, ISBN 3-929526-41-7Anke, M., Illing-Günther, H., Räßig, B., Glei, M., Schäffer, U., Lätsch, E., Müller, M., Neagoe, A., Hartmann, E., (1998), Die biologische Bedeutung des Vanadiumgehalt pflanzlicher Lebensmittel,18 Arbeitstagung "Mengen und Spurenelemente" in Jena, Friedrich-Schiller Universität, pp. 996-1006, ISBN 3-929526-45-X, ISSN 1430-9637Anke, M., Scheidt-Illing, R., Muller, M., Erler, M., Mocanu, H., Neagoe, A., Kramer, K., Richter, D., Angelow, L., Seifert, M. (1996), Blei in der Nahrungskette des Menschen eines Teerbelasteten Lebensraumes (Rositz, Thüringen), 16. Arbeitstagung "Mengen und Spurenelemente" in Jena, Friedrich-Schiller Universität, pp 836-846, ISBN 3-929526-37-9Erler, M., Scheidt-Illing, R., Anke, M., Glei, M., Muller, M., Arnhold, W., Mocanu, H., Neagoe, A., Angelow, L., Rother, C., Hartmann, E.(1996), Cadmium in der Nahrungskette des Menschen eines Teerbelasteten Lebensraumes (Rositz, Thüringen), 16. Arbeitstagung "Mengen und Spurenelemente" in Jena, Friedrich-Schiller Universität, pp. 847-856, ISBN 3-929526-37-9Iordache V, S. Cristofor, A. Sirbu, M. Onete, A. Neagoe, M. Adamescu, A. Vadineanu, (1998), The role of the vegetation in the cycling of metals in the Lower Danube floodplain, Proceedings of the 2nd IAD-Macrophyte Group Meeting, pp. 50-60Iordache V., C. Postolache, N. Mihaiescu, A. Neagoe, G. Ignat, S. Cristofor, A. Vadineanu (1998), Distribution patterns of metals in sediments of the Lower Danube System, Proceedings of the 3rd International Symposium on Metal Elements in Environment, Medicine and Biology, pp. 184-199Iordache V., F. Bodescu, M. Onete, C. Florescu, A. Neagoe, M. Adamescu, A. Vadineanu, (1997), Effects of hydrology on redox potential in the lower Danube wetlands, Proceedings of the 7th Danube Delta Institute Symposium, pp. 449-459Iordache, V. A. Neagoe, A. Cernatoni, M. State, T. Altorfer, E. Preda Cristofor, S., A. Vadineanu (2000), Heavy metals in the Danube floodplain in relation with Yugoslavian conflict, In: Proceedings of 5th International Symposium & Exhibition on Environmental Contamination in Central & Eastern Europe, Prague,Czech Republic, 7 pg., CD-rom 418Iordache, V., A. Neagoe, H. Bergman (2004) Effects of mycorrhization of *Phacelia tanacetifolia* on metals accumulation and oxidative stress, Proceedings of the 5th International Symposium on "Metal elements in Environment, Medicine and Biology", Timisoara, Romania, p. 105-113Iordache, V., Neagoe, A., Bergman H., Kothe, E., Buechel, G. (2006) Factors influencing the export of metals by leaching in bioremediation experiments, 23. Arbeitstagung in Jena, Agricultural, Biological, Environmental, Nutritional and Medical Importance of Macro, Trace and Ultra Trace Elements. Friedrich Schiller Universität, pp.288-295. [ISBN 3-929526-85-9], ISSN 1430-9637Neagoe A., A. Träpisch, M. Anke (1997), Zink in der Nahrungskette des Menschen eines Teerbelasteten Lebensraumes (Rositz, Thuringia), Mengen- und Spurenelemente, Friedrich Schiller Universität-Jena, pp. 874-882, ISBN 3-929526-41-7Neagoe A., E. Preda, V. Iordache, M. Anke (1998), The effect of tar exposure on the copper content of soil, plant and human in Rositz area (Germany), Proceedings 3rd International Symposium on Metal Elements in Environment, Medicine und Biology, Timisoara, Romania, pp. 301- 308.Neagoe A., Iordache V, Mascher, R., Knoch, B., Kothe, E., Bergmann, H. (2006) Lysimeters experiment using soil from a heavy metals contaminated area, 23. Arbeitstagung in Jena, Agricultural,

Biological, Environmental, Nutritional and Medical Importance of Macro, Trace and Ultra Trace Elements. Friedrich Schiller Universitt, pp.568-575. [ISBN 3-929526-85-9, ISSN 1430-9637]Neagoe A., R. Mascher, V. Iordache, K. Voigt, B. Knoch, H. Bergmann (2004) The influence of vesicular arbuscular mycorrhiza Glomus intraradiceae on mustard (*Sinapis alba* L.) grown on a soil contaminated with heavy metals, 22. Arbeitstagung in Jena, Lebensnotwendigkeit und Toxizitt der Mengen-, Spuren- und Ultraspurenelemente, Friedrich Schiller Universitt, pp.597-606, [ISBN 3-929526-794, ISSN 1430-9637]Neagoe A., Richter D., Anke S., Schmidt P., Machlet B., Anke M. (1996), The effect of tar exposure of a living area on the manganese transfer from soil to plants and humans, Proceeding of the 2 nd International Symposium on Metal elements in Environment, Medicine and Biology, Timisoara, Romania, pp. 309-314Neagoe A., V. Iordache (2002), Preliminary assessment of the macrophytes role in the export of metals from Fundu Mare Island, Danube floodplain, Proceedings of the 4th International Symposium on "Metal Elements in Environment, Medicine and Biology", Timisoara, Romania, pp. 245-251, ISBN 973-620-035-3, ISSN 1583-4204Neagoe A., V. Iordache, F. Bodescu, S. Cristofor, and Vadineanu (2001), The gradient of heavy metals in new deposited sediments in the Danube floodplain, Proceeding of the 9rd International Symposium of the Danube Delta, Tulcea, Romania, pp. 134-141Neagoe A., V. Iordache, I. Udreia (2006) Bioremediation methods for metals contaminated sites: key processes, Proceedings of the 7th International Symposium on "Metal elements in Environment, Medicine and Biology", Timisoara, Romania, 217-230, ISBN (10) 973-620-238-0, ISSN 1583-4204Neagoe A., V. Iordache, T. Altorfer, M. Pescaru, A. Vadineanu (2000), Trace elements in vegetation of Danube floodplain: deficiency or excess? , Poceeding of the 4rd International Symposium on "Metal Elements in Environment, Medicine and Biology", Timisoara, Romania pp. 14-28, [ISBN 3-8047-1838-8]Neagoe A., V. Iordache, Thomas Altorfer (2002), Risk sources due to metals in the Danube Floodplain, 21. Arbeitstagung Mengen und Spurenelemente in Jena, Friedrich Schiller Universitt, pp. 77-82Petrova I., Neagoe A., Angelov L. (2004), Transfer of copper along the ecological chain in a semi-mountain pasture area of middle Bulgaria, 22. Arbeitstagung in Jena, Lebensnotwendigkeit und Toxizitt der Mengen-, Spuren- und Ultraspurenelemente, pp. 948-952, [ISBN 3-929526-85-9, ISSN 1430-9637]Postolache, C., V. Iordache, A. Vadineanu, G. Ignat, S. Cristofor, A. Neagoe, C. Florescu, F. Bodescu (1997), Effects of hydrological conditions on the dynamic of nutrients in the lower Danube floodplain, Internat. Assoc. Danube Res., 32: 5-10, ISBN 3-9500723-6Vadineanu A., Iordache , V., Neagoe, A., Cristofor, S., Cociug, C., Postolache, C. (2000), "Research direction in landscape ecotoxicology" 20. Arbeitstagung "Mengen und Spurenelemente" in Jena, Friedrich- Schiller Universitt, pp. 220-227.Vadineanu A., M. Constantinescu, S. Cristofor, A. Varduca, C. David, V. Piescu, I. Pecheanu, V. Iordache, C. Postolache, A. Neagoe (2000), "Results of the monitoring program in the Lower Danube River System related with Yugoslavian conflict, In: Proceedings of 5th International Symposium & Exhibition on Environmental Contamination in Central & Eastern Europe, Prague, Czech Republic, CD-rom 448.Visan L., Sandu R., Iordache V., Neagoe A. (2008) Influence of microorganisms community structure on the rate of metals percolation in soil, Analele stiintifice ale UAIC, 53: 79-88