



Europass
Curriculum Vitae
Personal information

First name(s) / Surname(s) **Romul Mircea Margineanu**

Gender Male
Position in the project Senior researcher

Work experience

Dates 1987-present
 Occupation or position held Senior Researcher II, Dr.
 Main activities and responsibilities Research dealing with:
 High resolution gamma ray spectrometry in laboratory and "in-situ"
 Underground laboratory in ultralow radiation background
 Studies of erosion and sedimentation rates by using fallout radionuclides (Cs-137 and Be-7);

Name and address of employer National Institute of RD for Physics and Nuclear Engineering - "Horia Hulubei" IFIN-HH, 30
 Reactorului street, R-077125, Magurele, jud. Ilfov

Type of business or sector Research in the field of radioecology
 Dates 1986-1987
 Occupation or position held IT developer
 Main activities and responsibilities Software for accountancy
 Name and address of employer Real estate company, Giurgiu, jud. Giurgiu
 Type of business or sector Real estate
 Dates 1981-1986
 Occupation or position held Physicist engineer
 Main activities and responsibilities Neutron flux-spectra measurement of research reactors
 Name and address of employer Institute of Nuclear power Reactors, Pitesti, jud. Arges
 Type of business or sector Research in the field of nuclear reactors

Education and training

Dates 2007-2010
 Title of qualification awarded PhD in Physics
 Principal subjects/occupational skills covered Underground Laboratory in ultralow radiation background
 Name and type of organisation providing education and training University of Bucharest, Faculty of Physics
 Dates 1976-1981
 Title of qualification awarded Physicist Engineer
 Principal subjects/occupational skills covered Nuclear reactors
 Name and type of organisation providing education and training University of Bucharest, Faculty of Physics

Personal skills and competences

Mother tongue(s) Romanian
 Other language(s)

Self-assessment
European level ()*

Language

	Understanding		Speaking		Writing		
	Listening	Reading	Spoken interaction	Spoken production			
B2	English	B2	English	B2	English	B2	English

Social skills and competences	- Team spirit while running projects; - Communication skills acquired by managing projects and attending international meetings, workshops, conferences etc.
Organisational skills and competences	- Very good experience in the management of national and international research projects as project director or responsible.
Technical skills and competences	High resolution gamma ray spectrometry in laboratory and "in-situ" Underground laboratory in ultralow radiation background Studies of erosion and sedimentation rates by using fallout radionuclides (Cs-137 and Be-7)
Computer skills and competences	- Excellent skills as a user of personal computers in working with: office software (MS Word, MS Excel), software for gamma ray spectrometry MAESTRO from ORTEC, GENIE2000 from CANBERRA
Artistic skills and competences	
Other skills and competences	
Driving licence	B category
Membership of professional bodies:	ALMERA 2000 CELLAR 2006

Additional information Involved in following research projects:

Annexes Annex 1. List of projects
Annex 2. List of publications

Annex 1, Research projects

1. Head of CRP 8819/RO with IAEA-Vienna "Soil erosion and sedimentation assessment studies by environmental radionuclides and their application to soil conservation measures" partner "Erosion and sedimentation processes assessment based on cs137 from Chernobyl fallout", perioada 1996-2001
2. participant to ROM/9/006 with AIEA "Laboratory for environmental radioactivity monitoring"
3. Head of 6025/1984 contract "Masuratori pentru determinarea nivelului de referinta al radioactivitatii mediului inconjurator in zona CNE-Cernavoda";
4. Head of 6084/1988 contract "Masuratori de radioactivitate in probe de mediu obtinute in cadrul programului preoperational pe amplasamentul FCNE Cernavoda, in vederea realizarii lucrarii «Intercompararea rezultatelor masuratorilor pentru determinarea radioactivitatii mediului inconjurator in zona de influenta a FCNE Cernavoda»";
5. Head of 6085/1990 contract "Cercetari asupra nivelelor de incarcare radioactiva a mediului de nutritie din ecosistemele de padure din zonele de impact";
6. participant to CRP 12328/RO of SCCCES Perieni with IAEA-Vienna, 2002-2007, entitled "Evaluating the effectiveness of soil conservation measures on sloping cropland in Romania using fallout radionuclides"
7. Head of a contract of IFIN-HH with BENA/AEM entitled "Evaluarea vitezelor de sedimentare in lacurile de acumulare utilizand Cs137 ca trasor", 2004
8. Head of PN contract entitled "Estimarea eficacitatii măsurilor de control a eroziunii solurilor de pe terenurile agricole în pantă din România, prin utilizarea radionuclizilor existenți în sol, ca trăsori de mediu", 2003-2005
9. Head of VIASAN 65/2005 project, "Studiul conditiilor necesare si infiintarea unui laborator subteran de masura in fond de radiatii ultrascazut"-MicroBq, 2005-2008
10. Responsible from IFIN-HH in FP7-INFRASTRUCTURES-2007-1 project, Design of a pan-European Infrastructure for Large Apparatus studying Grand Unification and Neutrino Astrophysics, LAGUNA Design Study, 2008-2011
11. Responsible from IFIN-HH in FP7-INFRASTRUCTURES-2011-1 project, Design of a pan-European Infrastructure for Large Apparatus studying Grand Unification and Neutrino Astrophysics and Long Base Line Oscillation, LAGUNA-LBNO, 2011-2014
12. Head of "Radiation background of Black Sea coastal environment" international project, in the frame of **BLACK SEA ERA.NET - Pilot Joint Call**, Networking on Science and Technology in the Black Sea Region, 2011-2014

ANNEX 2, List of Publications

1. N. Paunescu, R. Margineanu, A. Iorgulescu, Sr-90 and Cs-137 in fallout from Chernobyl in the Bucharest Magurele area during 1986 - 1987, J. Radioanal. Nucl. Chem., Vol. 128, No.4, 1988
2. N. Paunescu, D. Galeriu, R. Margineanu, A. Iorgulescu, The Environmental Radioactivity in Romanian Danube River Area during 1986 - 1990, J. Radioanal. Nucl. Chem. Vol. 163 No.2 289-299, 1992
3. Mocanu N., Galeriu D., Margineanu R., Paunescu N., 137Cs soil-to-plant transfer in field conditions after the Chernobyl nuclear accident, J. Radioanal. Nucl. Chem. (Articles) 178/2, pag.253-259., 1994
4. Paunescu N., Cotarlea M., Purghel L., Galeriu D., Mocanu N., Margineanu R., Method for determination of low level of HTO in air, Romanian Journal of Physics 40/2-3, pag. 363-368., 1995
5. Garlea, C. Turcanu, D. Mocioiu, M. Ion, D. Ene, C. Postelnicu, D. Ilas, D. Dogaru, R. Margineanu, P. Stanescu, C. Popescu, S. Paun, Main Problems Regarding the Decommissioning of VVR-S Research Reactors, Romanian Journal of Physics 40, 4-5, 1995
6. D. Bengulescu, R. Margineanu, E. Slavnicu, D. Slavnicu, Probability Distribution of Activity Concentration Based on RODOS Expert System, Following a Nuclear Severe Accident at Cernavoda CANDU - 600., Romanian Reports in Physics, Vol.49, Pg.61-65., 1997
7. C. Garlea, I. Garlea, R. Margineanu, I. Kellerman, D. Breban, Preliminary measurements for radiological characterization site IFIN-HH Magurele, Romanian Journal of Physics, Vol. 43, No.(9-10), 1998
8. Cotarlea M., Paunescu N., Galeriu D., Mocanu N., Margineanu R., Ghita M., Determination of tritium in wine yeast samples, Romanian Journal of Physics 43/1-2, pag. 147-152., 1998
9. Margineanu R., Paunescu N., Galeriu D., Mocanu N., Cotarlea M., Environmental radioactivity in the preoperational period of Cernavoda NPP, Romanian Journal of Physics 43/3-4., 1998

10. Paunescu N., Cotarlea M., Galeriu D., Margineanu R., Mocanu N., Evaluation of environmental tritium level in preoperational period of Cernavoda CANDU nuclear power plant, *J. Radioanal. Nucl. Chem. (Articles)* 239/3, pag.465-470., 1999
11. Ionita, R. Margineanu, Application of Cs137 for measuring soil erosion/deposition rates in Romania, *Acta Geologica Hispanica*, Vol. 35, No 3-4 pp. 311-320., 2000
12. Ionita, R. Margineanu, C. Hurjui, Assessment of reservoir sedimentation rates from Cs137 measurements in the Moldavian Plateau, *Acta Geologica Hispanica*, Vol. 35, No 3-4 pp. 357-367., 2000
13. D. Breban, N. Paunescu, R. Margineanu, J. Moreno, Activity concentrations of selected natural and artificial radionuclides in water and sediment samples, *Journal of Radioanalytical and Nuclear Chemistry* nr. 260 (4), 2004
14. E. Sandu, D. Stanga, R. Margineanu, Measuring system for the production of gaseous standards, *Romanian Journal of Physics* Volume 49, Numbers 7–8, 597-601, 2004
15. C.A. Simion, R. Margineanu, D. Chiper, C. Barna, Lead-210 separations. Molecular symmetry of some molecules with polyether rings, *Romanian Journal of Physics*, 51 (1-2), 245-249., 2006
16. R. Margineanu, N. Popa, C. Olteanu, Use of ¹³⁷Cs in sedimentation rate assessment in gullies and reservoirs in Romania, *Journal of Environmental Protection and Ecology*, book 1, vol. 8, 197-203, 2007
17. C Bordeanu, C Rolfs, R Margineanu, F Negoita, C Simion, Saltmine underground accelerator lab for Nuclear Astrophysics, *Journal of Physics G Nucl. Part. Phys.* 35 014011, 2008
18. R. Margineanu, C. Simion, S. Bercea, O.G. Dului, D. Gheorghiu, A. Stochioiu, M. Matei, The Slanic Prahova (ROMANIA) underground low-background radiation laboratory, *Applied Radiation and Isotopes* 66, 1501-1506, 2008
19. Luca, R. Margineanu, M. Sahagia, A. C. Wätjen, Activity measurements of technically enhanced naturally occurring radionuclides (TENORM) in phosphogypsum, *Applied Radiation and Isotopes*, 67, 961-963, 2009
20. Carmen Cristache, Corina Anca Simion, R.M. Margineanu, Mihaela Matei, O.G. Dului, Epithermal neutrons activation analysis. Radiochemical and Radiometric investigations of evaporitic deposits of Slanic-Prahova (Romania) salt mine, *Radiochimica Acta*, 97, 333-337, 2009
21. R.M. Margineanu, A.M. Apostu, O.G. Dului, S. Bercea, External dose rate in Unirea salt mine, Slanic-Prahova, Romania, *Applied Radiation and Isotopes*, 67 (2009) 759-761, 2009
22. Craig Aalseth, Erica Andreotti, Dirk Arnold, Joan-Albert Sanchez Cabeza, Detlev Degering, Andrea Giuliani, Raquel Gonzales de Orduña, Rodolfo Gurriaran, Mikael Hult, Martin Keillor, Matthias Laubenstein, Gilbert le Petit, Romul Mircea Margineanu, Murray Matthews, Harry Miley, Iolanda Osvath, Monica Pellicciari, Wolfango Plastino, Hardy Simgen, Marc Weber, Robert Werzi, Ultra-low background measurements of decayed aerosol filters, *Journal of Radioanalytical and Nuclear Chemistry*, Volume 282 pp 731-735, Number 3, 2009
23. Mitrica, B., Margineanu, R., Brancus, I. M., Lazanu, I., Jipa, A., Sima, O., Dima, M, Toma, G., Saftoiu, A., Apostu, A., Gomoiu, C, Petre, M. Studies of the high energy muon flux in unirea salt mine from Slanic Prahova, *Romanian Reports in Physics* Volume: 62 Issue: 4, Pages: 750-757, 2010
24. Mitrica, B., Margineanu, R., Stoica, S., Petcu, M., Brancus, I., Jipa, A., Lazanu, I., Sima, O., Haungs, A., Rebel, H., Petre, M., Toma, G., Saftoiu, A, Apostu, A, Estimation of m.w.e (meter water equivalent) depth of the salt mine of Slanic Prahova, Romania, *Exotic Nuclei and Nuclear - Particle Astrophysics III: from Nuclei To Stars* Book Series: AIP Conference Proceedings Volume: 1304 Pages: 331-335, 2010
25. Arad, S., Arad, V., Onica, I., Oprina, A., Chipesiu, F., Mitrica, B., Apostu, A., Margineanu, R., Stability study for a large cavern in salt rock from Slanic Prahova, *Acta Physica Polonica B* Volume: 41 Issue: 7 Pages: 1789-1802, 2010
26. Apostu, A. M., Chiroasca, A., Gomoiu, C., Jipa, A, Lazanu, I, Margineanu, R., Mitrica, B. Stanca, D., Results of underground dose rates using TL detectors and preliminary tl characteristics of irradiated salt rock, *Romanian Reports in Physics* Volume: 63 Issue: 1 Pages: 220-225, 2011
27. Margineanu R, Mitrica B, Apostu A, Gomoiu C., Traces of radioactive I-131 in rainwater and milk samples in Romania, *Environmental Research Letters* Volume: 6 Issue: 3 Article Number: 034011 DOI: 10.1088/1748-9326/6/3/034011, 2011
28. Mitrica, B; Margineanu, R; Stoica, S ; Petcu, M; Brancus, I; Jipa, A ; Lazanu, I; Sima, O; Haungs, A ; Rebel, H ; Petre, M ; Toma, G ; Saftoiu, A ; Stanca, D ; Apostu, A ; Gomoiu, C., A mobile detector for measurements of the atmospheric muon flux in underground sites, *Nuclear Instruments & Methods in Physics Research Section A-Accelerators Spectrometers Detectors and Associated Equipment* Volume: 654 Issue: 1 Pages: 176-183 DOI: 10.1016/j.nima.2011.07.006, 2011
29. Blebea-Apostu A.M., Radulescu I., Margineanu R., Ionita I., Popescu I.V., Assessment of sedimentation rate through the use of anthropogenic ¹³⁷Cs radionuclide, *Romanian Reports in Physics* Volume: 64 Issue: 1 Pages: 211-220, 2012
30. Lazanu, I; Apostu, A ; Brancus ; Dului, OG ; Jipa, A; Margineanu, RM ; Mitrica; Saftoiu, A ; Sima, O., About the possibility to measure some standard model parameters and search for new physics with low energy neutrinos, *Romanian Reports in Physics* Volume: 64 Issue: 1 Pages: 24-32, 2012
31. Stochioiu, A; Luca, A, Sahagia, M, Margineanu, R.M.; Tudor, I., Quality assurance for measurements of the radioactivity in the area of the Horia Hulubei National Institute for Physics and Nuclear Engineering, IFIN-HH, *Journal of Environmental Radioactivity* Volume: 112 Pages: 4-7, 2012
32. Chesneanu, D; Jipa, A; Lazanu, I; Margineanu, R; Mitrica, B., Preliminary results of neutrino interactions study using genie event generator, *Romanian Reports in Physics* Volume: 64 Issue: 3 Pages: 695-701, 2012
33. R.M. Margineanu, O. G. Dului, Ana, Maria Blebea-Apostu, Claudia Gomoiu, S. Bercea., Environmental dose rate distribution along the Romanian Black Sea Shore, *Journal of Radioanalytical and Nuclear Chemistry*, DOI 10.1007/s10967-013-2545-4, 2013
34. Carmen Varlam, V. Patrascu, R.M. Margineanu, I. Faurescu, Irina Vagner, Denisa Faurescu, O.G. Dului, Tritium activity concentration along the Western shore of the Black Sea, *Journal of Radioanalytical and Nuclear Chemistry*, DOI 10.1007/s10967-013-2588-6, 2013
35. Mitrica, D. Stanca, M. Petcu, I.M Brancus, R. Margineanu, A. Apostu, C. Gomoiu, A. Saftoiu, G. Toma, H. Rebel, A. Haungs, O. Sima, A. Gherghel-Lascu, M. Niculescu-Oglintzanu, A Mobile Detector for Muon Measurements Based on Two Different Techniques, *Advances in High Energy Physics* Article Number: 256230 DOI: 10.1155/2013/256230, 2013
36. Radulescu, A.M Blebea-Apostu, R.M. Margineanu, N. Mocanu, Background radiation reduction for a high-resolution gamma-ray spectrometer used for environmental radioactivity measurements, *Nuclear Instruments & Methods in Physics Research Section A-Accelerators Spectrometers Detectors and Associated Equipment* Volume: 715 Pages: 112-118, 2013
37. M. Sahagia, A. Luca, R.M. Margineanu, N. Navarro Ortega, V. Peyres, B. Perez Lopez, E. Garcia Torano, J. A. Suarez-Navarro, Determination of the content of natural radionuclides in furnace slag used for the preparation of standard sources, *Journal of Radioanalytical and Nuclear Chemistry*, DOI 1007/s10967-013-2625-5, 2013
38. Claudia Mariana Gomoiu, R.M. Margineanu, Ana-Maria Blebea-Apostu, B. Mitrica, A. Jipa, O.G. Dului, The Vertical Distribution of Rock Salt Thermoluminescence in the Slanic-Prahova (Romania) Halite Deposits, *Romanian Journal of Physics*, Vol. 59, Nos. 9–10, P. 1035–1042, 2014
39. Livius Trache, D Chesneanu, R Margineanu, A Pantelica, DG Ghita, I Burducea, M Straticiu, XD Tang, Detection limit for activation measurements in ultralow background sites, *Bulletin of the American Physical Society*, 2014
40. LAGUNA Collaboration, The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment, *JOURNAL OF HIGH ENERGY PHYSICS*, vol. 5, 2014, DOI: 10.1007/JHEP05(2014)094, 2014

41. R.M. Margineanu, Ana-Maria Blebea Apostu, Claudia-Maria Gomoiu, C. Costea, Delia Dumitras, Adriana Ion, O.G. Dului, Radiometric, SEM and XRD investigation of the Chituc black sands, southern Danube Delta, Romania, JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, Vol. 138, SI, pg. 72-79, 2014
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43. Bogdan Mitrica, Denis Stanca, Iliana Brancus, Romul Margineanu, Ana-Maria Blebea-Apostu, Claudia Gomoiu, Alexandra Saftoiu, Gabriel Toma, Heinigerd Rebel, Andreas Haungs, Octavian Sima, Alexandru Gherghel-Lascu, Mihai Niculescu-Oglinzanu, New cosmic rays experiments in the underground laboratory of IFIN-HH from Slanic Prahova, Romania, EXOTIC NUCLEI AND NUCLEAR - PARTICLE ASTROPHYSICS V: FROM NUCLEI TO STARS Book Series: AIP Conference Proceedings Volume: 1865 Pages: 186-196, doi: 10.1063/1.4909574, 2015
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45. R.O. Dumitrescu, P. Mursa, R. M. Margineanu, A.M. Blebea-Apostu, I. V. Popescu, R.E. Ginghina, GAMMA SPECTROSCOPY AND SEM CHARACTERIZATION OF ASH AND COAL SAMPLES TAKEN FROM ROMAG POWER PLANT, Romanian Reports in Physics 2017
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47. Mariana Claudia Gomoiu, Romul Margineanu, Daniel Stoian, Tanase Alionte, Alexandru Jipa, ENVIRONMENTAL RADIOACTIVITY IN MANECIU RESERVOIR, PRAHOVA COUNTY, ROMANIA, Romanian Reports in Physics, 2016
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50. Oprina, Carmen Silvia; Margineanu, Romul Mircea; Cangea, Otilia, Experimental Study of a Remote Control Data System for High Potential Environmental Threat, PROCEEDINGS OF THE 2017 9TH IEEE INTERNATIONAL CONFERENCE ON INTELLIGENT DATA ACQUISITION AND ADVANCED COMPUTING SYSTEMS: TECHNOLOGY AND APPLICATIONS (IDAACS), VOL 2, 2017
51. Dumitrescu, R. O.; Mursa, P.; Margineanu, R. M.; Blebea-Apostu, A. M.; Popescu, I. V.; Ginghina, R. E., Gamma Spectroscopy and SEM Characterization of Ash and Coal Samples Taken From Romag Power Plant, Romanian Journal of Physics, 2018, 63, 5-6
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54. Margineanu, Romul Mircea; Ranca, Aurora; Bolos, Petru; Gomoiu, Mariana Claudia; Simion, Corina; Tobosaru, Viorel; Blebea-Apostu, Ana-Maria, Natural and Artificial Radionuclides Distribution in Soil in Murfatlar Area, Dobrogea Region, Romania, Romanian Journal of Physics, 2018, 63, 7-8
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