



## Europass Curriculum Vitae

### Personal information

First name / Last name

**Cristina Alice MARGEANU**

Address

Petrochimistilor, No. 39, Bl. C, Sc A. Ap 28, 110181, Pitesti, Arges, Romania

Telephone

+40 731305805

E-mail

[cristina.margeanu@nuclear.ro](mailto:cristina.margeanu@nuclear.ro)

Nationality

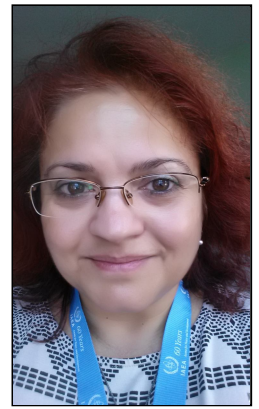
Romanian

Date of birth

February 20, 1966

Gender

Female



### Work experience

### Occupational field

**Reactor Physics**

**Nuclear Fuel and Radioactive Waste Shielding**

**Nuclear Fuel and Radioactive Waste Management**

**Radiation Protection**

**Criticality and Safety Analyses**

**Innovative Reactors and Nuclear Fuel Cycles**

Dates

June 2007 to present

Occupation or position held

Senior researcher, PhD - Reactor Physics, Nuclear Safety and Nuclear Fuel Performances

Main activities and responsibilities

- Development, application and documentation of mathematical models and associated computer codes for spent nuclear fuel transport and intermediate storage:
  - *Monte Carlo methods application in safety assessment, operational phase, for near surface disposal facilities*
  - *Monte Carlo methods application in radiological impact assessment for operational scenarios, LILW Final Disposal facility*
  - *Shielding assessment of fission Mo extraction from a metallic Uranium foil for LEPI chemistry cell*
  - *Shielding analysis for CANDU experimental fuel elements stored in LEPI dry storage pits*
- Studies related on the utilization of Th-based nuclear fuel in CANDU reactors
- Radiological risks evaluation for radiological dispersal device using various radiation sources
- Estimation of characteristic parameters for TRIGA spent nuclear fuel
- Shielding analysis for the TRIGA-LEU spent fuel transfer/storage cask
- Expert in FP6 Project Ctr nr. 036439 (F16W) „Specific targeted research project ELSY (European Lead Cooled System)”
- INR Coordinator in Ctr no. 91/2007-2009 “Advanced System for on-line Monitoring of Dangerous Waste Transport on Romania territory”, National Research Program
- Expert in Ctr no. 71-104/2007-2010 “Development of regional infrastructure for response to nuclear accidents and radiologic emergencies”, National Research Program

<p>Name and address of employer Type of business or sector</p>	<ul style="list-style-type: none"> <li>- Expert in IAEA Ctr nr. 14052/2007-2011 „Modeling and analysis of radionuclides transport and source term evaluation within containment / Confinement and release to the environment, for research reactors”</li> <li>- INR team Coordinator and expert in IAEA CP INPRO SYNERGIES „SYnergetic Nuclear Energy Regional Group Interactions Evaluated for Sustainability”, 2011-2015</li> <li>- INR team Coordinator and expert in national project „NESA in Romania using INPRO methodology”, 2012-present</li> <li>- INR team Coordinatorm and expert in IAEA CP INPRO KIND „Key Indicators for Innovative Nuclear Energy Systems”, 2014-present</li> <li>- INR team Coordinator and expert in IAEA CP INPRO ROADMAPS „Roadmaps for transition to globally sustainable nuclear energy systems”, 2014-present</li> <li>- Expert responsible for shielding calculations in Ctr. Cernavoda NPP- RATEN ICN Pitesti RUEC nr. 639/2012, 2012-present</li> <li>- Coordinator and expert in Ctr. RATEN/3189/03.09.2015; ANDR/17/08.09.2015 „Assessment of the Impact on the activities related to Radioactive Waste Management on Medium and Long-term, taking into account the Scenarios for Development and Implementation of the National Nuclear Program”, 2015</li> <li>- Expert trainer for IAEA Training Regional course on „Nuclear Energy System Modelling and Assessment using the INPRO methodology”, Rabat , Morocco, 19-27 April, 2016</li> <li>- INR Scientific Coordinator for students preparing license and dissertation works</li> </ul> <p>Institute for Nuclear Research Pitesti (ICN), Campului no. 1, 115400 Mioveni, Romania research and development in nuclear field</p>
<p>Dates</p>	<p>June 2000 to June 2007</p>
<p>Occupation or position held Main activities and responsibilities</p>	<p>Scientific Researcher - Reactor Physics, Nuclear Safety and Nuclear Fuel Performances</p> <ul style="list-style-type: none"> <li>- Development, application and documentation of mathematical models and associated computer codes for spent nuclear fuel transport and intermediate storage: <ul style="list-style-type: none"> <li>▪ neutron/photon dose rates calculation to spent fuel shipping cask wall</li> <li>▪ Monte Carlo methods application to spent fuel shipping cask dimensioning (MORSE-SGC code, SCALE system)</li> <li>▪ irradiation period discretisation and flux weighting factors effects on spent fuel isotopical composition (WIMS D4, WIMS AECL, ORIGEN-S codes)</li> <li>▪ Monte Carlo methods application to CANDU fuel cycle, criticality and shielding calculations for natural Uranium and Slight Enriched Uranium CANDU fuel bundles (ORIGEN-S, MORSE-SGC codes, SCALE system)</li> <li>▪ shielding studies and photon dose rates estimation for CANDU spent fuel transport and intermediate dry storage</li> <li>▪ study of the effects induced on radiation dose rates to the shipping cask wall by use of various enrichment in CANDU SEU43 fuel bundle (ORIGEN-S, MORSE-SGC codes)</li> <li>▪ study of the effects induced on radiation dose rates to the shipping cask wall by modifications in CANDU SEU43 fuel bundle geometry (ORIGEN-S, MORSE-SGC codes)</li> </ul> </li> <li>- Identification and evaluation of solutions to improve CANDU reactors performances, in Reactors Physics domain</li> <li>- Identification of general characteristics for the world evolution in nuclear reactors domain and to identify technical progress trends</li> <li>- preliminary evaluation of new technical solutions with potential impact on nuclear energy in Romania</li> <li>- Contributions to Nuclear National Plan (2001, 2002)</li> <li>- INR Coordinator in Project No. 378/2003 “R&amp;D Strategy in the nuclear energetics, on the horizon of integration in European Reasearch Area”, Environment, Energy, Resources National Program</li> <li>- Expert in Project No. 501/2004 “Annual Study related to requirements on updating of legal provisions in nuclear field according to existing international legislation”, Environment, Energy, Resources National Program</li> <li>- Chef Coordinator of Ctr nr. 3052/2005: „Revision of Final Security Report for Nuclear Spent Fuel Storage, corresponding to the VVR-S Research Reactor, IFIN-HH Bucharest”</li> <li>- Chef Coordinator of Ctr no. 2 CEx-06-10-91/2006-2008 “Nuclear Safety Improving Methodology for Advanced CANDU Fuel”, Research of Excellency Program</li> </ul> <p>Institute for Nuclear Research Pitesti (ICN), Campului no. 1, 115400 Mioveni, Romania research and development in nuclear field</p>

Dates	June 1996 to June 2000
Occupation or position held	Scientific Researcher - Reactor Physics and Nuclear Safety
Main activities and responsibilities	<ul style="list-style-type: none"> <li>▪ Reactor Physics simulations: fuel cell, reactivity device, supercell, reactor core calculations</li> <li>▪ post-simulation and interpretation for some of Reactor Physics tests and measurements during the Cernavoda NPP Unit 1 Phase B Commissioning</li> <li>▪ development of a neutron flux forms base for ROP system intervention analysis, and estimation of the critical channel powers needed for nuclear safety analyses, in various reactor operation configurations</li> <li>▪ application of Monte Carlo methods for simulation of gamma rays transport</li> </ul>
Name and address of employer	Institute for Nuclear Research Pitesti (ICN), Campului no. 1, 115400 Mioveni, Romania
Type of business or sector	research and development in nuclear field
Dates	June 1990 to June 1996
Occupation or position held	Physicist - Reactor Physics and Nuclear Safety
Main activities and responsibilities	<p>Development, application and documentation of mathematical models and associated computer codes for Reactor Physics:</p> <ul style="list-style-type: none"> <li>▪ simulations (fuel cell, reactivity device, supercell, reactor core)</li> <li>▪ adapting Reactor Physics codes to personal computers</li> <li>▪ presimulations of tests and measurements during Cernavoda NPP Unit 1 Phase B Comm.</li> <li>▪ nuclear safety analysis regarding CANDU fuel bundles and solution of the problem related to LOCA analysis</li> </ul>
Name and address of employer	Institute for Nuclear Research Pitesti (ICN), Campului no. 1, 115400 Mioveni, Romania
Type of business or sector	research and development in nuclear field
Dates	September 1989 to June 1990
Occupation or position held	Physicist - Reactor Physics and Nuclear Safety
Main activities and responsibilities	Familiarization with the Reactor Physics codes used for Cernavoda NPP CANDU6 reactor
Name and address of employer	Cernavoda NPP, Romania
Type of business or sector	operation in nuclear field

### **Education and training**

Dates	February 2010
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	„Management knowledge transfer – successful factor for Romanian organizations management”
Name and type of organisation providing education and training	Center for Formation and Training PERFECT SERVICE Bucharest, Romania
Dates	March- April 2009
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	„SCALE 6 – Criticality and shielding calculations - KENOVI and MAVRIC modules”
Name and type of organisation providing education and training	Oak Ridge National Laboratory, USA
Dates	August- October 2007
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	„Avoiding the errors in leading process”

Name and type of organisation providing education and training	Center for Formation and Training PERFECT SERVICE Bucharest, Romania
Dates	May 2006
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	„Safety assessment for radioactive waste repositories”
Name and type of organisation providing education and training	ANDRAD Romania and SCK.CEN Mol Belgium
Dates	April- November 2004
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	„Modern high-performance management”
Name and type of organisation providing education and training	Center for Formation and Training PERFECT SERVICE Bucharest, Romania
Dates	April- May 1994
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	„Nuclear Reactors – Physics, Design and Safety”
Name and type of organisation providing education and training	International Center for Theoretical Physics, Trieste, Italia
Dates	October 1996 to November 2003
Title of qualification awarded	PhD in Physics (Doctor in Fizica)
Principal subjects/occupational skills covered	Nuclear physics, radioactive waste management, spent nuclear fuel transport, shielding and criticality analyses
Name and type of organisation providing education and training	Faculty of Physics, University of Bucharest, Romania
Dates	September 1988 – September 1989
Title of qualification awarded	Certificate
Principal subjects/occupational skills covered	Nuclear physics and nuclear technologies
Name and type of organisation providing education and training	Faculty of Physics, University of Bucharest, Romania
Dates	September 1984 – September 1988
Title of qualification awarded	Bachelor Degree (License)
Principal subjects/occupational skills covered	Nuclear, atomic, molecular, statistics, environmental physics, biophysics
Name and type of organisation providing education and training	Faculty of Physics, University of Bucharest, Romania

**Personal skills and competences**

Mother tongue **Romanian**  
Other language

Self-assessment	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
<b>English</b>	Very good	Very good	Very good	Very good	Very good
<b>French</b>	Good	Good	Good	Good	Good

Social skills and competences	Ability to work individually and as a team member, good communication skills with clients and partners, good ability to adapt to multicultural environments, open minded, ability to look for creative solutions.
Organisational skills and competences	Good experience in project and team management leading workgroups and assistance of team members as well as in organizing of some national and international scientific events.
Technical skills and competences	<p>Analytical thinking, good presentation action skill.</p> <p>Good experience in development, application and documentation of mathematical models and associated computer codes for Reactor Physics</p> <p>Good experience in developing models and application of associated computer codes for fission product inventories and decay heat calculations, shielding and radiological risk assessment analysis</p> <p>Good experience in the development, application and documentation of mathematical models and associated computer codes for spent nuclear fuel transport and intermediate storage using Monte Carlo methods</p> <p>Good knowledge on the principles used in radioactive waste management, according to the EU legislation and IAEA regulations.</p> <p>Advanced knowledge on modelling of energy systems, energy planning, nuclear energy systems modelling and assessment</p>
Computer skills and competences	<p>Abilities and technical competencies in advanced using of WINDOWS and MS-Office programs, advanced FORTRAN programming skills, advanced using of Internet applications</p> <p>Advanced knowledge on computer codes for reactor physics, shielding and criticality calculations for spent nuclear fuel and radioactive waste, safety analyses</p> <p>Advanced knowledge on computer codes for modelling of energy systems, economic analysis of energy systems</p>
Driving licence	B
<b>Additional information</b>	<p>Editorial General Secretary, Journal for Nuclear Research and Development</p> <p>Reviewer for the following journals: Physica A, Statistical Mechanics and its applications/Elsevier; Applied Radiation and Isotopes/Elsevier; Applied Mathematical Modelling/Elsevier; Advances in Space Research/Elsevier, Journal of Radiation and Nuclear Applications/Natural Sciences Publishing Corporation</p> <p>Member of the Scientific Board of Arab Journal of Nuclear Sciences and Applications</p> <p>Member of the Editorial Board of Journal of Radiation and Nuclear Applications</p> <p>Member of the Organizing Committee of Int. Conf. on Sustainable Development through Nuclear Research and Education, NUCLEAR</p>
<b>List of scientific papers</b>	Relevant publications/papers presented at scientific meetings in the period (2007-2016):

1. C. Ciuculescu, T. Dobre, C. A. Margeanu, J.J. Kelly, *Source Term Assessment of Spent Fuel in Wet Storage*, U.P.B. Sci. Bull., Series B, ISSN 1454 – 2331, Vol. 69, No.1, p. 3-10, 2007.
2. C. A. Margeanu, P. Ilie, Gh. Olteanu, *Enrichment Effects on Spent CANDU Fuel Characteristic Parameters*, Nuclear Energy Review 2007, ISSN 1753-3910, p.33-35, Touch Briefing, London, UK, 2007.
3. C. A. Margeanu, A. Rizoiu, Gh. Olteanu, S. Margeanu, *The Key Role of Shielding Analysis in Advanced CANDU Fuel Bundles and Nuclear Safety Improvement*, Nuclear Energy Review 2007, ISSN 1753-3910, p. 24-26, Touch Briefing, London, United Kingdom, 2007.
4. C. A. Margeanu, P. Ilie, S. Margeanu, T. Angelescu, *Radiation Doses Assessment in some Operational Scenarios for Radioactive Waste Disposal in a Near Surface Repository, by using Monte Carlo methodology*, Romanian Reports in Physics, ISSN 1841-8759, Vol.60, No.1, p.87-93, Romanian Academy Ed., Bucharest, 2008.
5. S. Margeanu, C. A. Margeanu, C. Paunoiu, T. Angelescu, *Dose Calculation for Accident Situations at TRIGA Research Reactor using LEU Fuel Type*, Romanian Reports in Physics, ISSN 1841-8759, Vol.60, No.1, p. 63-70, Romanian Academy Ed., Bucharest, 2008.
6. C. A. Margeanu, S. Margeanu, *Dose Estimation in an Emergency Scenario for Radioactive Waste Disposal in Vaults*, 9th Radiation Physics and Protection Conf., RPC2008, Cairo, Egypt, Nov 2008, Arab Journal of Nuclear Sciences and Applications, ISSN 1110 - 0451, special issue, CODEN AJDAY 3211350, Volume 42, pg.97-108, May 2009.
7. C. A. Margeanu, Gh. Olteanu, D. Bujoreanu, *Radiological Risk Assessment and Cask Materials Qualification for Disposed Sealed Radioactive Sources Transport*, 9th Radiation Physics and Protection Conf., RPC2008, Cairo, Egypt, Nov 2008, Arab Journal of Nuclear Sciences and Applications, ISSN 1110 - 0451, special issue, CODEN AJDAY 3211350, Volume 42, pg.109-116, May 2009.
8. C. A. Margeanu, S. Margeanu, C. Iorgulis, *TRIGA HEU and LEU Fuel Shielding Analysis during Spent Fuel Transport*, 13th Ann. Topical Meet.on Research Reactor Fuel Management, RRFM 2009 Conf. Transactions, ISBN 978-92-95064-07-2, Viena, Austria, Mar 2009.
9. C. A. Margeanu, S. Margeanu, D. Barbos, C. Iorgulis, *Monte Carlo Shielding Comparative Analysis applied to TRIGA HEU and LEU Spent Fuel Transport*, 1st Int. Conf. on Advancements in Nuclear Instrumentation, Measurement Methods and their Applications, ANIMMA 2009, Marseille, France, Jun. 2009, IEEE Transactions on Nuclear Science, Vol.57, No. 6, Part II, pg. 3701-3707, 2010, Manuscript DOI: TNS-00379-2009
10. C. A. Margeanu, A. Rizoiu, *Thorium-based fuels preliminary lattice cell studies for CANDU reactors*, 7th Int. Conf. on Nuclear and Particle Physics, NUPPAC'09, Sharm El-Sheikh, Egypt, Nov. 2009, Proc. of NUPPAC 2009, ISBN 977-17-6677-5, 2009.
11. C. A. Margeanu, *Evaluation of Radiological Impact Due to Direct Exposure to a Radiological Dispersal Device Using Spent Fuel Assembly*, 3rd Int. Conf. on Sustainable Development through Nuclear Research and Education "Nuclear 2010", Pitesti, Romania, mai 2010, Proc. of NUCLEAR 2010, ISBN 978-973-0-05700-3, 2010
12. C. A. Margeanu, *Estimation of Fission Products Radioactivity and Radiation Dose Rates for 99Mo production by using Metallic Enriched Uranium Irradiation*, 3rd Int. Conf. "Current Problems in Nuclear Physics and Atomic Energy", NPAE2010, Kiev, Ukraina, iun. 2010
13. C. A. Margeanu, *Shielding studies for reducing the associated radiological risks due to irradiated Low Enriched Uranium foil*, 10th Radiation Physics and Protection Conf., RPC2010, Cairo, Egypt, 26-30 Nov 2010, Arab Journal of Nuclear Sciences and Applications, ISSN 1110 - 0451, special issue, CODEN AJDAY 3211350, Volume 44, pg.185-196, July 2011
14. C. A. Margeanu, *Comparative study on radiological impact due to direct exposure to a radiological dispersal device using a sealed radiation source*, 10th Radiation Physics and Protection Conf., RPC2010, Cairo, Egypt, Nov 2010, Arab Journal of Nuclear Sciences and Applications, ISSN 1110 - 0451, special issue, CODEN AJDAY 3211350, Volume 44, pg.311-320, July 2011
15. C. A. Margeanu, S. Margeanu, C. Iorgulis, M. Ciocanescu, M. Prava „Research Reactor Spent Fuel Transfer/Storage Cask with Application to TRIGA Fuel – Designed Cask Shielding Independent Evaluation”, European Research Reactor Conference RRFM2011, Roma, Italia, 20-24 Mar 2011; RRFM 2011 Conf. Transactions, ISBN 978-92-95064-11-9, pg. 526-531, Inclusa in baza de date INIS a IAEA, ref num 42043929, vol iss 4221, 2011
16. C. A. Margeanu, A. Rizoiu, *Thorium-Based Fuel Use in a CANDU Reactor – A Better Fuel Utilization under Proliferation Resistance Requirements*, Journal of Nuclear Research and Development, No. 1, ISSN 2247 - 191X, ISSN-L 2247 - 191X, pg. 35-42, Romania, May 2011

17. C. A. Margeanu, I. Prodea, A. Rizoiu, G. Olteanu, I.E. Visan, *Study of Advanced CANDU Fuel Radioactivity Evolution with Irradiation by using Burnable Neutron Absorbers in Fuel Bundle Centre Element Composition*, 4th Int. Conf. on Sustainable Development through Nuclear Research and Education "Nuclear 2011", Pitesti, Romania, mai 2011, Proc.of Nuclear 2011, ISSN 2066-2955, pg. 20-32, 2011
18. M. Sallah, C. A. Margeanu, *Neutron Transport in Fluctuating Stochastic Finite Media with Sinusoidal Internal Source of Energy*, 4th Int. Conf. on Sustainable Development through Nuclear Research and Education "Nuclear 2011", Pitesti, Romania, mai 2011, Proc. of Nuclear 2011, ISSN 2066-2955, pg. 42-48, 2011
19. C. A. Margeanu, E. Banches, A. Goicea, Gh. Ionita, *Nuclear Energy Role in Romanian Energy Mix Sustainability*, Consultative meeting on IAEA CP INPRO SYNERGIES, Vienna, Austria, Oct 2011
20. C. A. Margeanu, M. Prava, M. A. Deaconu, *Storage Cask for TRIGA type Spent Nuclear Fuel Assemblies*, IAEA Regional Workshop on Spent Fuel Cask/ Container Design, Bucuresti, Romania, Oct. 2011
21. C. A. Margeanu, *Safety issues of spent fuel handling and storage*, IAEA Regional Training Course on Nuclear Fuel Management and Licensing: fuel performance, safety & licensing in ex-Core Nuclear Cycle, Bucuresti, Romania, Nov. 2011
22. C. A. Margeanu, A. Rizoiu, G. Olteanu, *Thorium based fuels: An alternative possibility for proliferation-resistant fuels*, 8th International Conference on Nuclear and Particle Physics, NUAPPAC' 11, Hurghada, Egypt, 20-24 Nov. 2011
23. C. A. Margeanu, A. Rizoiu, Gh. Olteanu, *Study of Spent Fuel Parameters for Low Void Reactivity Bundles in CANDU Reactors*, 5th Int. Conf. on Sustainable Development through Nuclear Research and Education "Nuclear 2012", Pitesti, Romania, Mai 2012
24. C. A. Margeanu, E. Banches, *Expression of interest*, Kick-off technical meeting on IAEA CP INPRO SYNERGIES, Vienna, Austria, June 2012
25. C. A. Margeanu, E. Banches, A. Rizea, Gh. Ionita, *Towards Sustainable Nuclear Energy Systems*, IAEA INPRO Dialogue Forum - Drivers and Impediments for Regional Cooperation on the Way to Sustainable NES, Vienna, Austria, Aug 2012
26. C. A. Margeanu, S. Y. Raza, *Cooperation on the Way to Sustainable NES - By Sharing We Win Together – NG2 Perspective*, IAEA INPRO Dialogue Forum - Drivers and Impediments for Regional Cooperation on the Way to Sustainable NES, Vienna, Austria, Aug 2012
27. C. A. Margeanu, A. Rizoiu, Gh. Olteanu, *Estimation of Spent Fuel Parameters For a Low Void Reactivity Fuel Bundle Irradiated in CANDU Reactors*, 4th International Conference Current Problems in Nuclear Physics and Atomic Energy, NPAE2012, Kiev, Sept 2012
28. C. A. Margeanu, E. Banches, *Activities in SYNERGIES Project, June – November 2012*, ROMANIA, Consultative meeting on IAEA CP INPRO SYNERGIES, Vienna, Austria, Nov2012
29. C. A. Margeanu, *Overview on the Multinational Collaborative Waste Storage and Disposal Solutions*, 11th Radiation Physics and Protection Conf., RPC2010, Cairo, Egipt, Nov 2012
30. C. A. Margeanu, A. Rizoiu, G. Olteanu, *Study of Spent Fuel Parameters for Low Void Reactivity Bundles in CANDU Reactors*, 5th Int. Conf. on Sust. Dev. through Nucl. Res. & Educ. Nuclear 2012, published in JNRD No. 5, ISSN 2247 - 191X, ISSN-L 2247 - 191X, pg. 21-30, 2013
31. C. A. Margeanu, *NUCLEAR ENERGY PLACE IN ROMANIA'S ENERGY MIX - Status, Prospects, Benefits and Risks*, Consultative meeting on IAEA CP INPRO KIND, Vienna, Austria, July2014
32. C. A. Margeanu, *SUSTAINABILITY OF NUCLEAR ENERGY SYSTEM IN ROMANIA - View on the Resources Availability Aspects considering the INPRO Methodology Approach*, 8<sup>th</sup> INPRO Dialogue Forum, Vienna, Austria, August2014
33. C. A. Margeanu, *SUSTAINABILITY OF NUCLEAR ENERGY SYSTEM IN ROMANIA - View on the Long term Sustainability Aspects*, Technical meeting on IAEA CP INPRO ROADMAPS, Vienna, Austria, November2014
34. I. Prodea, C. A. Margeanu, A. Rizoiu, G. Olteanu, *INR Recent Contributions to Thorium-Based Fuel Using in CANDU reactors*, IAEA-TECDOC-CD-1751, 2014
35. C. A. Margeanu, M. Apostol, M. Constantin, S. Margeanu, *Progress report on Romania's activity in INPRO KIND Collaborative Project*, Technical meeting on IAEA CP INPRO KIND, Vienna, Austria, April, 2015
36. C.A. Margeanu, M. Apostol, I. Visan, I. Prodea, *National Romanian scenarios with reliance on domestic and imported U /fuel supply, by considering regional collaboration in nuclear fuel cycle and including economic analysis*, to be published in the final report of IAEA Collaborative Project INPRO-SYNERGIES

37. C.A. Margeanu, M. Apostol, I. Visan, I. Prodea, *Evaluation of the Nuclear Power Development Scenarios in Romania envisaging the Long-term National Energy Sustainability*, 8th Int. Conf. on Sust. Dev. through Nucl. Res. & Educ. Nuclear 2015, published in JNRD No. 10, ISSN 2247 - 191X, ISSN-L 2247 - 191X, pg. 13-22, 2015
38. J. Bastos, M. Biscarra, A. Dogov, G. Dupuy, A. Egorov, G. Fesenko, A. Jalal, V. Kiryanchuk, V. Kuznetsov, C.A. Margeanu, A. Starz, D. Ulanov, V. Usanov, K. Zhou, F. Zirulnikow, *Modelling Nuclear Energy Systems with MESSAGE: A Users' Guide*, IAEA Nuclear Energy Series, NG-T-5.2, ISBN 978-92-0-109715-6, ISSN 1995-7807, IAEA, Vienna, 2016
39. M. Sallah, C.A. Margeanu, Effect of Fractional Parameter on Neutron Transport in Finite Disturbed Reactors with Quadratic Scattering, 9<sup>th</sup> Int. Conf. on Sust. Dev. through Nucl. Res. & Educ. Nuclear 2016, published in JNRD No. 12, ISSN 2247 - 191X, ISSN-L 2247 - 191X, pg. 7-13, 2016
40. C. A. Margeanu, M. Apostol, M. Constantin, D. Gugiu, I. Prodea, A. Rizoiu *Progress report on Romania's activity in INPRO KIND Collaborative Project – Evolutionary versus Innovative Nuclear Energy Systems*, Technical meeting on IAEA CP INPRO KIND, Vienna, Austria, June, 2016
41. C.A. Margeanu, M. Apostol, M. Constantin, D. Gugiu, I. Prodea, A. Rizoiu, *Comparison of Evolutionary and Innovative Nuclear Energy System Technologies by considering different High-Level Objectives*, case study for Romania, to be included in final report of the IAEA CP INPRO KIND, August, 2016
42. C.A. Margeanu, *Romanian Experience on Nuclear Energy System Modelling with MESSAGE*, case study prepared for IAEA TECDOC "Experience on Modelling Nuclear Energy Systems with MESSAGE: Country Case Studies", August, 2016
43. C.A. Margeanu, *Drivers and Impediments for Synergistic Collaboration among Countries*, presented to IAEA GC60 side-event SYNERGIES, September, 2016
44. C. A. Margeanu, M. Constantin, *Progress report on Romania's activity in INPRO ROADMAPS Collaborative Project – Application of ROADMAP template to Romania's Nuclear Energy System*, Technical meeting on IAEA CP INPRO ROADMAPS, Vienna, Austria, October, 2016
45. C.A. Margeanu, *Drivers and Impediments for collaboration among countries in nuclear fuel cycle towards globally sustainable nuclear energy*, to be included in final report of the IAEA CP INPRO ROADMAPS, October, 2016
46. P.P. Groudev, N.N. Zaharieva, C.A. Margeanu, M. Constantin, *Comparison of Innovative and Evolutionary NPPs in a country-specific context for Bulgaria (Based on IAEA INPRO KIND – ET Methodology)*, accepted for publication in Bulgarian Nuclear Society Journal
47. C.A. Margeanu, G. Olteanu, *Thorium-Based Spent Fuel Characteristic Parameters Evolution after Irradiation in CANDU Reactors*, published in Arab J. of Nuclear Sciences and Applications, ISSN 1110-0451, No. 94(4), pg. 296-303, 2016
48. C.A. Margeanu, *Assessment of Nuclear Energy Cost Competitiveness against Alternative Energy Sources in Romania envisaging the Long-term National Energy Sustainability*, 9<sup>th</sup> Int. Conf. on Sust. Dev. through Nucl. Res. & Educ. Nuclear 2016, accepted for publication in JNRD, ISSN 2247 - 191X, ISSN-L 2247 - 191X, No.13, 2017

February 10, 2017