

## LUCRARI STIINTIFICE PUBLICATE / PREZENTATE LA CONFERINTE NATIONALE SI INTERNATIONALE IN ANUL 2013

1. **Serban Constantin Valeca, Ramona Maria Mihaiu** - *The Great East Japan Earthquake and the Nuclear Power in a Post Fukushima World* - Annals of the Academy of Romanian Scientists, Series on Engineering Sciences, Volume 5, Nov. 1/2013
2. **A. Constantin, A. Genty, D. Diaconu, C. Bucur** - *Unsaturated water flow and tracer transport modeling with Alliances* - Geotechnical and Geological Engineering, 265: 986-996, 2013
3. **Iosif Prodea** - *Low Void Fuel Reactivity Fuel Effects on CANDU6 Core Integral Parameters* - Journal of Nuclear Research and Development - JNRD, Nr.5, pg. 16-20, ISSN 2247 - 191X, ISSN-L 2247 - 191X, Mai 2013
4. **Cristina Alice Margeanu, Andrei Rizoiu, Gheorghe Olteanu** - *Study of Spent Fuel Parameters for Low Void Reactivity Fuel Bundles Irradiated in a CANDU Reactor* - Journal of Nuclear Research and Development - JNRD, Nr.5, pg. 21-30, ISSN 2247 - 191X, ISSN-L 2247 - 191X, Mai 2013
5. **Andrei Rizoiu, Grigore Horhoianu** - *Using Low Void Reactivity Bundles in CANDU Reactors* - Journal of Nuclear Research and Development - JNRD, Nr.5, pg. 8-15, ISSN 2247 - 191X, ISSN-L 2247 - 191X, Mai 2013
6. **Georgios Glinatsis, Daniela Gugiu** - *Coolant Void Effect Investigation. Case of a Na-Cooled Fast Reactor* - Journal of Nuclear Research and Development - JNRD, Nr.6, pg. 13-18, ISSN 2247 - 191X, ISSN-L 2247 - 191X, Dec 2013
7. **Laurentiu Dinu, Stefan Dulugeac, Ana Maria Ivan** - *Time Evolution for the Activity of Radioactive Waste Associated to Mo99 Production using LEU Targets Irradiated in INR Pitesti TRIGA-SSR* - Journal of Nuclear Research and Development - JNRD, Nr.6, pg. 33-39, ISSN 2247 - 191X, ISSN-L 2247 - 191X, Dec 2013
8. **Alina Constantin, Marin Constantin** - *Chemistry aspects of the source term formation for a severe accident in a CANDU type reactor* - KERNTECHNIK Journal, Vol. 78, No.3, 2013
9. **A. Constantin, A. Genty, D. Diaconu, C. Bucur** - *Tracer transport modeling with the Alliances platform* - Kerntechnik, 78(5): 422-430, 2013
10. **Gabriela Radu, Daniela Mladin, Ilie Prisecaru** - *Analysis of Potential Common Cause Failure Events for Romanian TRIGA SSR 14 MW Reactor* - Nuclear Engineering & Design, vol. 265, pg.164-173, Dec 2013
11. **Daniela Mladin, Mirea Mladin, Alexandru Toma, Cristian Dulama, Ilie Prisecaru, Stefan Covaci** - *Calculation of Radioactive Species Transport in a TRIGA Reactor* - Nuclear Engineering and Design, vol. 262, pg. 29– 38, September 2013
12. **Mita Farcasiu, Ilie Prisecaru** - *MMOSA – A new approach of the Human and Organizational Factor Analysis in PSA* - Reliability Engineering and Safety System, disp. online, DOI10.1016/j.res.2013.10.004, 2013
13. **Daniela Mladin, Mirea Mladin, Stefan Covaci, Ilie Prisecaru** - *Calculation of fission products transport in a pool type reactor using CATHARE 2* - U.P.B Sci. Bull., Series C, Vol 75, No.1, 2013, ISSN 1454-234x, Martie 2013
14. **Gheorghe Florescu, V. N. Panaitescu** - *Method for Monitoring and Reducing the Accidents Risk in Power Units* - U.P.B. Sci. Bull., Series C, Vol. 75, Iss. 4, 2013. ISSN 2286-3540, pp. 285-298, Dec 2013
15. **M. Media, B. Venescu** - *Induction motor cage faults diagnosis with Stockewell and Wavlwvt time-frequency stator current analysis* - Buletin Stiintific UPB, seria C, Vol 75, Iss. 4, ISSN 2286-3540, 2013
16. **Marin Constantin, Minodora Apostol, Alina Constantin, Andrei Rizoiu** - *Overview of ASTEC Use for CANDU Type Reactors* - 5th ASTEC Users' Club Meeting, Aix en Provence, France, February 2013
17. **Gabriela Radu** - *The flame front behaviour following a severe accident in a generic CANDU 6 containment* - 5th ASTEC Users' Club Meeting, Aix en Provence, France, February 2013
18. **Ivan Ana Maria, G. Androne, C. Lazar, M. Tatarascu, L. C. Dinu, O. Ichim, A. Bucsa, M. Mincu, D. Barbos, P. Busuioc** - *Production of <sup>99</sup>Mo using LEU targets at INR Pitesti* - "Development of New Radiotracer for PET imaging and Targeted Radiotherapy" desfășurat la IFIN-HH, 3-7 aprilie 2013
19. **Man Ion, Mincu Marin, Uta Octavian, Ichim Ovidiu** - *Transportation and non-destructive post-irradiation examination of a CANDU bundle from Cernavoda Nuclear Power Plant* - „Hot laboratories and remote handling- HOTLAB”, Idaho Falls, Idaho, 23-26 septembrie 2013
20. **Viorel Deaconu, E. Dinu** - *Condition assessment for aged CANDU fuel channels garter springs* - 10th NeT Enlargement & Integration Workshop, Netherlands, Decembrie 2013
21. **Iuliana Visan, G. Giubega, A. Tudora** - *Prompt emission modelling in the fission process* - 13th Int. Balkan Workshop on Applied Physics, Romania, July 2013
22. **Victoria Balaceanu, C. Valache, M. L. Georgescu, Eduard Pauna** - *Case Study: The Devel. and Implem. of the Knowledge Transfer and Preservation Process at Cernavoda NPP* - 2<sup>nd</sup> RCM of CRP on Increasing NPP Perform. through Process-Oriented KM Approach, IAEA, June 2013

23. **Mita Farcasiu, Mirela Nitoi** - *Assessment of the Factors with Significant Influence on Safety Culture* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
24. **Georgiana Budriman, Mirea Mladin, Csaba Roth, Stefan Dulugeac** - *Calculations for TRIGA ACPR with MCNPX Code* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
25. **Iosif Prodea, Andrei Rizoiu** - *CANDU Lattice and Core Calculations using Thorium-based Fuels* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
26. **Alexandru Catana, Eduard Pauna, Mircea Ioan, Marieta Serbanel** - *Computational Fluid Dynamics Analysis for Flow Accelerated Corrosion in CANDU6 Feeder Pipes* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
27. **D. Nastase, Gheorghe Olteanu, Mircea Ioan, Eduard Pauna** - *Conceptual Design of Experimental LFR Fuel Element for Testing in TRIGA Reactor, ACPR Zone* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
28. **Viorel Deaconu, I. Ionita, T. Meleg, M. Deaconu, C. Truta, G. Oncioiu** - *Eleven Years of NeT Network Research Activity- INR Contributions* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
29. **Constantin Iorgulis, Daniela Diaconu, Daniela Gugiu, Csaba Roth** - *Isotopes Accumulation in the Thermal Column of TRIGA Reactor* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
30. **Csaba Roth, D. Gugiu, D. Barbos, A. Datcu, L. Aioanei, D.Dobrea, I. Visan, A. Bucsa, A Ghinescu** - *Large Sample Neutron Activation Analysis Experimental Facility and Methodology* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
31. **M. Ioan, M. Hororoi, Al. Gutue, A.Tudor, .Nistor, V. Lebu, Alexandru Catana, Gabriel Ghita, Eduard Pauna, V. Cojocar, V. Tencu** - *LECOTELO - Conceptual Design, Testings and Realisation* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
32. **Dragos Ionescu, C. Gentea, G. Horhoianu, Gheorghe Olteanu, Adrieana Paraschiv, Mihaela. R. Roman** - *Modelling of an Experimental Fuel Element with (Th, U)O<sub>2</sub> Pellets, using an Improved Version of the ROFEM Code* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
33. **Stefan Dulugeac, M. Mladin, Georgiana Budriman** - *Neutronic Analysis for the Fission Mo99 Production by Irradiation of LEU Targets in TRIGA 14 MW Reactor* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
34. **Mirela Nitoi** - *Operating Experience Insights Supporting Ageing Assessments* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
35. **Iuliana Visan, G. Giubega, A. Tudora** - *Parameterization of Total Excitation Energy Partition between Fully Accelerated Fission Fragments based on Theoretical Calculations* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
36. **Cristina Alice Mărgeanu** - *Preliminary Analyses for Estimation of Thorium-based Fuels Radioactivity after Irradiation in CANDU Reactors* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
37. **Alexandru Catana, Mircea Ioan, Marieta Serbanel** - *Preliminary CFD Analysis Methodology for Flow a LFR Fuel Assembly* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
38. **Andrei Rizoiu, Corina Aioanei, Gheorghe Olteanu** - *Reactor Physics View on using Thorium-based Fuel Bundles in CANDU Reactors* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
39. **Eduard Pauna, Gheorghe Olteanu, Alexandru Catana** - *Single-Phase Coolant Flow CFD Simulations inside the CANDU Channel for 37 and 43 Elements Fuel Bundles* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
40. **Marin Constantin** - *Source Term Calculation for an Accident Initiated by End Fitting Failure* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
41. **Minodora Apostol, Marin Constantin, Daniela Diaconu** - *Strengths, Weaknesses, Opportunities and Threats – SWOT Analysis regarding the Romanian Participation in EURATOM Programmes on Nuclear Safety Topic* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013



62. **Vasile Radu, Maria Roth** - *INR contribution in STYLE Project, WP 3.3: State-of-art overview and Case studies on the probabilistic approaches* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
63. **Doina Stefanescu, Maria Mihalache, Simona Mogosan** - *Laboratory Study of Reinforcement Protection with Corrosion Inhibitors* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
64. **Iulia Dumitrescu, Dumitru Ohâi, Maria Mihalache, Alice Dinu, Dorel Benga** - *Self-Disintegration of Fuel Pellets in Steam-Air atmosphere using the FIPRED Equipment* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
65. **Alice Dinu, I. Chicinaș, Lucian. Velciu, Dragoș Ionescu, Mădălina Stănculescu** - *Stress Corrosion Cracking Initiation of Oxided Incoloy 800 in Caustic Environment* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
66. **Mariana Tunaru, Lucian Velciu, Laurentiu Popa, Mihaela Stancu** - *The Behaviour of ZY-4 Tubes in Microbial Media* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
67. **Laurentiu Popa, Mariana Tunaru, Lucian Velciu** - *The Test of some Organic Inhibitors for the Protection of Grade 5 Titanium Alloys in Chloride Solutions* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
68. **Lucian Velciu, Tiberiu Meleg, Laurențiu Popa, Diana Dinași, Alexandru Nițu** - *The Thermal Transient Effect on Some Nickel-Based Alloys* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
69. **Viorel Ionescu, Marc DIERCKX, Virgil Cojocaru** - *Ultrasonic Attenuation Measurements in Liquid Lead-Bismuth Eutectic* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
70. **Simona Mogosan, Dumitra Lucan, Doina Stefanescu, Manuela Fulger** - *Water Chemistry in Secondary Side of CNE CANDU Steam Generators and their Related Degradation Processes* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
71. **Cezar Doca, Constantin Păunoiu, Lidia Doca** - *An Intuitive Method to Automatically Detect the Common and not Common Frequencies for Two or More Time-Varying Signals* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
72. **Virgil Cojocaru, Gheorghe Dinuta** - *Equipment for Detach the Fuel Elements of the Irradiated Candu Fuel Bundle* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
73. **Tiberiu Gyongyosi, Serban Valeca, Valeriu Nicolae Panaitescu, Ilie Prisecaru** - *Plugging of Drinking Water Flow into Horizontal High Diameter Pipeline (200 mm Nominal Diameter) with Artificial Ice Plug* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
74. **Nicolae Marinescu, Darie Predescu, Serban Constantin Valeca** - *Simulator for CANDU 600 Fuel Handling System. The Experimental Model* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
75. **Tiberiu Gyongyosi, Valeriu Nicolae Panaitescu, Ilie Prisecaru** - *The Influence of Mechanical Clearance Reduction Between Plug (M1- M.E. VERSION) and Tube Sheet Simulator, at its Experimental Installation Using a High Speed Plastic Deformation Technique* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
76. **Serban Constantin Valeca, Cezar Doca, Constantin Iorga** - *Romanian Experience on CANDU 600 Fuelling Machine Testing* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
77. **R. I. Dobrin, C. N. Dulama, C. N. Ciocirlan, Al. Toma, S. M. Stoica, M. Valeca** - *Alpha Activity Measurement with LSC* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
78. **C. N. Dulama, I. I. Popescu, Al. Toma, R. I. Dobrin, C. N. Ciocirlan, S. M. Stoica, M. Valeca** - *Characterization of Radioactive Contaminated Material by Combined radiometric and Spectrometric Methods* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
79. **S. M. Stoica, C. N. Dulama, M. Valeca, Al. Toma, C. N. Ciocirlan, R. I. Dobrin** - *Purification and Separation of U, Pu and Am in Soil Samples by Extraction Chromatography for Alpha Spectrometry Analyses* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
80. **C. N. Ciocirlan, C. N. Dulama, M. Valeca, Al. Toma, S. M. Stoica, R. I. Dobrin** - *Determination of Uranium Content in Aerosols Filters by Alpha Spectrometry* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013

81. **B. Venescu**, D. Zevedei, M. Jurian, R. Venescu - *Intelligent Control System for a CANDU 600 Type Reactor Process* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
82. **B. Venescu**, D. Zevedei, M. Jurian - *3D Simulation of CANDU Reactor Regulating System* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
83. **B. Venescu**, D. Zevedei, M. Jurian - *Power Distribution Control of CANDU Reactors Based on Modal Representation of Reactor Kinetics* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
84. **Ileana Cretu, Maria Ionila, Elena Gyongyosi, Eleonora Dragan, Mihaela Petra** – *INR Training Programme in Nuclear Research* - The 6th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești România, 22-24 May, 2013
85. P. Chatlard, R.Reinke, V.Lombard, **Marin Constantin**, P.Mujumdar - *Synthesis of the SARNET FP7 WP4 activities on ASTEC topic* - 6th European Review Meeting on Severe Accident Research (ERMSAR-2013), France, October 2013
86. **Tiberiu Gyongyoși**, Valeriu Nicolae, Panaitescu, Ilie Prisecaru - *O incercare de formare dop de gheață pe un tronson de conductă orizontală într-o buclă hidraulică experimentală de joasă presiune* - A XIII-a Conferința Națională Multidisciplinara - cu Participare Internațională “Profesorul Dorin Pavel – Fondatorul Hidroenergeticii Românești”
87. **Mirela Nitoi** - *Consideration on Application of APSA Results* - Ageing PSA Network Meeting, Netherlands, December 2013
88. **Mirela Nitoi** - *EC JRC APSA Network – Achievements* - Ageing PSA Network Meeting, Netherlands, December 2013
89. **S.Valeca, I.Turcu, Marin Constantin** - *Generatia IV de sisteme nucleare si dezvoltarea durabila a sectorului energetic* - Al V-lea Congres al AOSR, Romania, Mai 2013
90. **Victoria Balaceanu**, C. Valache, M. L. Georgescu, **E. Pauna** - *Case Study: The Devel. and Implem. of the Knowledge Transfer and Preservation Process at Cernavoda NPP* - Consult. Meet. of CRP on Increasing NPP Performance through Process-Oriented KM Approach, IAEA, December 2013
91. **Cristina Alice Mărgeanu** - *INPRO-SYNERGIES Progress Report ROMANIA* - CP IAEA INPRO SYNERGIES Tech. Meeting, IAEA, June 2013
92. **Cristina Alice Mărgeanu** - *INPRO-SYNERGIES Progress Report ROMANIA* - CP IAEA INPRO SYNERGIES Tech. Meeting, IAEA, November 2013
93. **M.Dinca** - *The neutron and gamma imaging method combined with neutron-based analytical methods for cultural heritage research* - CRP Meeting, Munchen, Germania, September 3-6, 2013
94. **Mirela Nitoi** - *Participation of INR in ESNII+* - ESNII+ Kick-Off Meeting, France, October 2013
95. Brian Boer, **Csaba Roth, Mirea Mladin** - *Interim report on the design requirements for the test rig* - FP7 MAXSIMA D5.2;2013
96. **Daniela Diaconu, Marin Constantin** - *ARCADIA - Main Objectives* - FP7-ARCADIA Kick off Meeting, Romania, November 2013
97. **Marin Constantin** - *ARCADIA WP2 Licensing Framework* - FP7-ARCADIA Kick off Meeting, Romania, November 2013
98. **Marin Constantin** - *ARCADIA WP3 Feasibility & Roadmap Risk assessment and mitigation strategies* - FP7-ARCADIA Kick off Meeting, Romania, November 2013
99. **Marin Constantin** - *ARCADIA WP4 Aspects of Legal Entity construction in the new European governance* - FP7-ARCADIA Kick off Meeting, Romania
100. **Marin Constantin, D. Diaconu, A. Constantin**, V.Andrei, M.Stiopol - *Romanian IPPA experiences* - FP7-IPPA End Users' Conf., Cehia, September 2013
101. **Marin Constantin, D. Diaconu, A. Constantin**, V.Andrei, M.Stiopol - *Methodology for Public Involvement in Geological Disposal of the Spent Fuel in Romania* - FP7-IPPA Project Meeting, Cehia, September 2013
102. **Marin Constantin, D. Diaconu, A. Constantin**, V.Andrei, M.Stiopol - *Romanian Contribution to IPPA project* - FP7-IPPA Project Meeting, Romania, October 2013
103. **Marin Constantin, Daniela Gugiu** - *ALFRED in Romania: Research in Gen IV (expectations, projects, challenges, roadmaps)* - FP7-NEWLANCER Meeting, Romania, September 2013
104. **Daniela Gugiu** - *Considerations on INR Participation in LFR R&D, and Open issues* - FP7-NEWLANCER Meeting, Romania, September 2013
105. **Marin Constantin** - *Developments and open issues in LFR and ALFRED* - FP7-NEWLANCER Meeting, Romania, September 2013

106. **M. Constantin, D. Diaconu, M. Apostol, D. Gugiu, C. Bucur, M. Fulger, A.Toma, G. Pavel** - *National Expert Groups Activity Country Report Romania* - FP7-NEWLANCER Meeting, Romania, September 2013
107. **Marin Constantin et al.** - *Report on the Networking Activities at National Level* - FP7-NEWLANCER Meeting, Romania, September 2013
108. **Marin Constantin et al.** - *Report on the Networking Activities at Regional Level* - FP7-NEWLANCER Meeting, Romania, Sept 2013
109. **Daniela Diaconu, I. Ivanov, C. Pocattera, Maria Roth, Minodora Apostol et al** - *Catalogue of Research Potential in NMS and database of potential participants in EURATOM Programs* - FP7-NEWLANCER Project Meeting, Slovenia, April 2013
110. **Marin Constantin** - *Implementation of Participatory Approaches in Romania* - FP7-NEWLANCER Project Meeting, Slovenia, April 2013
111. **Marin Constantin et al.** - *National Expert Groups Activity Country Report – Romania* - FP7-NEWLANCER Project Meeting, Slovenia, April 2013
112. **Marin Constantin** - *Contribution of National Expert Groups to SWOT Analysis* - FP7-NEWLANCER, 2nd Nat. Meeting, March 2013
113. **Marin Constantin** - *Contribution of National Expert Groups to the Analysis of Current Participation in Euratom Projects* - FP7-NEWLANCER, 2nd Nat. Meeting, March 2013
114. **Marin Constantin, Daniela Diaconu** - *NEWLANCER Overview of the Evolution of the Project* - FP7-NEWLANCER, 2nd Nat. Meeting, March 2013
115. **Minodora Apostol** - *Participarea reprez. GNE-SN la RMs din FP7 NEWLANCER* - FP7-NEWLANCER, 2nd Nat. Meeting, March 2013
116. **Marin Constantin** - *Some Aspects of Horizon 2020* - FP7-NEWLANCER, 2nd Nat. Meeting, March 2013
117. **Ion Bogdan Cioc, C. Talpalariu, J. Talpalariu, C. Matei, Ioan Lita, Daniel Alexandru Visan** - *Implementation of Charge Sensitive Amplifier/Discriminator for PIN Diode Radiation Detectors. (Implementarea amplificatorului de sarcina/Discriminator pentru detectoare de radiatie tip Dioda PIN)*. - I.S.S.E Workshop "Electronic Package Automotive", Alba-Iulia, 8-12 may 2013
118. **Cristina Alice Margeanu, Eugen Banches** - *ROADMAPS Towards Sustainable Nuclear Energy Systems* - INPRO-ROADMAPS Consultative Meeting, IAEA, March 2013
119. **Manuela Fulger, Maria Mihalache, Marian Panțiru, Lucian Velciu** - *Comparative oxidation behavior of some austenitic stainless steels and Ni based alloys exposed in supercritical water* - TM AIEA - on Materials and Chemistry for SCWRs, Chengdu China, July 2013
120. **Iuliana Visan, Anabella Tudora, C. Manailescu** - *Experimental average prompt neutron multiplicity as a function of total kinetic energy of fission fragments described by Point-by-Point model calculations* - Int. Conf. "Nuclear Data for Science and Technology (ND2013)", SUA, March 2013
121. **Daniela Mladin, Ilie Prisecaru** - *Probabilistic Safety Assess. Aspects for TRIGA Research Reactor* - International Conference on Energy and Environment CIEM 2013, Romania, November 7-8
122. **Gabriela Radu, Ilie Prisecaru** - *Sensitivity Analysis for the CPA-FRONT Model, Appl. to a Generic CANDU 6* - International Conference on Energy and Environment CIEM 2013, Romania, November 7-8
123. **Tiberiu Gyongyosi, Ilie Prisecaru, Valeriu Nicolae Panaitescu** - *A Point of View Regarding the Stiffness of the Garter Spring Spacer* - International Conference on Energy and Environment CIEM 2013, Romania, November 7-8
124. **G. Grasso, C. Petrovich, Daniela Gugiu, A. Alemberti** - *A Core Design Approach Aimed at Sustainability and Intrinsic Safety* - International Conference on Fast Reactors and Related Fuel Cycles, IAEA, March 2013
125. **Ilie Turcu, Serban Constantin Valeca, Marin Constantin** - *Romanian Contribution to the Development of Lead Cooled Fast Reactors* - International Conference on Fast Reactors and Related Fuel Cycles, IAEA, March 2013
126. **A. Alemberti, L.Mansani, M. Frogheri, M. Constantin, I. Turcu** - *ALFRED Project - Conceptual Design, Safety Features, and Perspectives of the Implementation* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
127. **Minodora Apostol, Mirela Nitoi, Adrian Popa** - *Defining the Preliminary Initiating Events to be Used in a Probabilistic Safety Assessment Study for ALFRED Demonstrator* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
128. **Mirela Nitoi** - *Insights for Beneficial Appl. of Ageing Probabilistic Safety Assessments Results* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
129. **Marin Constantin, D.Diaconu, A.Constantin, V.Andrei, M.Stiopol** - *Public Participation in Decisions Making Process for Rad Waste Management – Geological Disposal Preliminary Methodology* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013

130. **Gheorghe Florescu** - *Systems Modeling Based on Comp. Qualification Analysis and PSA Methodology Use* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
131. **V. M. Gheorghe, S. Orasanu, A.Popa, Gh. Florescu** - *The "Diamond Effect of Light Reflection" on Lustrous Curved Surfaces* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
132. **Dumitra Lucan, Velciu Lucian, Alice Dinu, Simona Mogoșan, Marian Panțiru** - *Analysis and Diagnosis of the Corroded Tubes from Steam Generator* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
133. **Iulia Dumitrescu, Dumitru Ohâi, Tiberiu Meleg, Maria Mihalache, Marioara Abrudeanu** - *Characterization of Uranium Oxides Powders Mixtures by Laser Diffraction* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
134. **Maria Mihalache, Manuela Fulger, Marian Pantaru, Mihail Mihalache, Zhangjian Zhou** - *Effect of Different Austenite Stabilizers on Oxide Morphology Grown in Supercritical Water on ODS Steels* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
135. **Lucian Velciu, Laurețiu Popa, Tiberiu Gyongyosi, Alexandru Nițu** - *Evaluation of Corrosion Susceptibility of the Experimental Plug-Tube Joints* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
136. **Alice Dinu, M. Mincu, Mădălina Stănculescu, Diana Diniși** - *Grazing Incidence X-Ray Diffraction Characterization of Corrosion Deposits on Components of CANDU Steam Generators* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
137. **Popa Laurențiu, Lucian Velciu, Manuela Fulger** - *Localized Corrosion of Dissimilar Welds between Austenitic Stainless and Martensitic Stainless Steel Components from Secondary Circuit of NPP* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
138. **Alexandru Nițu, Vasile Pițigoi, Cristian Ionescu** - *Mechanical Properties Investigation of Zircaloy-4 Cladding Tubes by Ring Hoop Tension Test* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
139. **Manuela Fulger, Maria Mihalache, Gheorghe Oncioiu, Lucian Velciu** - *Oxidation Behavior of Nuclear Grade Materials in Water at Supercritical Temperatures* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
140. **Cezar Doca, Constantin Păunoiu, Ionel Tebeică, Nicolae Anghel, Ion Costache, Cornel Tudor** - *Monitoring the Pipe's Bending Vibrations Using Absolute Pressure Transducers* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
141. **Dumitru Puiu, Tiberiu Gyongyosi, Elena Dinu, Gheorghe Deloreanu** - *Non-Destructive Evaluation of the Power Cable Ageing by Measurement of the Compression Modulus. Portable Equipment* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
142. **Tiberiu Gyongyosi, Ilie Prisecaru, Valeriu Nicolae Panaitescu, Stefan Nicolici** - *The Plastic Deformation Technique by Electro-Hydraulic Shock. Laboratory Tests and Potential Applications* - International Symposium on Nuclear Energy (SIEN) - Nuclear Power a Milestone on the Path of Progress, Bucharest, Romania, 10-14 November 2013
143. **Iosif Prodea, Eugen Banches** - *An Assessment of Romanian Energy System using IAEA Model MESSAGE* - Inter-reg. Training Course on Evaluation of Sustainable Energy Strategies for Addressing Climate Change Issues, using IAEA's tool MESSAGE, Korea, April 2013
144. **Mihaela Roxana Roman** - *Le comportement de Zircaloy-4 en conditions de fonctionnement dans le réacteur CANDU-avancé* - Master Techn. Univ. Toulouse, France, June 2013
145. **M. Ciocanescu, G.F.Vandegrift** - *High Density LEU Annular Target Qualification* - Mo-99 2013 TOPICAL MEETING ON MOLYBDENUM-99 TECHNOLOGICAL DEVELOPMENT, Chicago, USA, April 1-5, 2013
146. **Viorel Deaconu, T. Meleg, M. Deaconu** - *Thermo-physical properties of Inconel 600: literature data and INR measurements* - NeT Task Group 4 Meeting, Italy, June 2013
147. **Viorel Deaconu** - *Analysis of digital images of specimens 5-1 and 5-2. Preliminary results* - NeT Task Group 4 meeting, Italy, June 2013
148. **Lucan Dumitra** - *3.5 Water chemistry and LLW management contribution on Roadmap* - NUGENIA Forum 2013, Budapest, 18-20 March 2013
149. **Vasile Radu** - *An Analytical Approach Of Thermal Fatigue Crack Growth Phenomenon in Nuclear Piping* - Progrese în Criogenie și Separarea Izotopilor" ediția XIX-a, Călimănești-Căciulata, România, 10-11 octombrie 2013
150. **Alexandru Nițu, Maria Roth, Vasile Pițigoi, Laurențiu Aioanei, Cristian Ionescu** - *IAEA Coordinated Research Programme Concerning  $K_{IH}$  Measurements on Hydrided Zircaloy Sheaths* - Progrese în Criogenie și Separarea Izotopilor" ediția XIX-a, Călimănești-Căciulata, România, 10-11 oct. 2013

151. **Mariea Deaconu**, Ion Ciucă, Marioara Abrudeanu, **Tiberiu Meleg** - *Influence of Heat Treatment on Thermal Decomposition of TiH<sub>2</sub>* - Progrese în Criogenie și Separarea Izotopilor” ediția XIX-a, Călimănești-Căciulata, România
152. **Iulia Dumitrescu**, **Dumitru Ohâi**, **Meleg Tiberiu**, **Maria Mihalache**, **Alice Dinu**, Marioara Abrudeanu - *Investigation of Phase Composition Evolution During UO<sub>2</sub> Fuel Pellets Oxidation In Air* - Progrese în Criogenie și Separarea Izotopilor” ediția XIX-a, Călimănești-Căciulata, România
153. **Diaconu Daniela**, **Marin Constantin** - *NEWLANCER Main Achievements* - Progrese în Criogenie și Separarea Izotopilor” ediția XIX-a, Călimănești-Căciulata, România, 10-11 octombrie 2013
154. **Maria Mihalache**, **Manuela Fulger**, **Lucian Velciu**, **Iulia Dumitrescu** - *Sigma Phase Precipitation In Welded Austenitic 304L Stainless* - Progrese în Criogenie și Separarea Izotopilor” ediția XIX-a, Călimănești-Căciulata, România, 10-11 octombrie 2013
155. Mirela Nitoi - *INR involvement in ASAMPSA\_E project* - Project ASAMPSA\_E Kick-off meeting, France, July 2013
156. **D. Bujoreanu**, **M. Iordache**, **N. Deneanu**, **L. Bujoreanu** - *Management of liquid waste from TRIGA Reactor* - Regional Workshop „Technological and Safety Aspects of Treatment of Low and Intermediate Level Liquid Waste and on Management of Gaseous Radioactive Waste”, 12-16 August 2013, Bucuresti, 12 August 2013
157. **Iuliana Visan**, G. Giubega, A. Tudora - *Total Excitation Energy Partition between Fully -Accelerated Fission Fragments in the frame of Point-by-Point model* - Sesiune. Ann. de com. stiintifice a Fac. de Fizica, Univ. Bucuresti, Romania, Mai 2013
158. **M. Dianu** - *Metode de determinare a emitătorilor β din deseuri de tip grafit* - Simpozionul „Chimie si Dezvoltare”, Pitesti, 31 mai 2013
159. **Adriana Paraschiv**, **Gheorghe Olteanu**, **Dragos V. Ionescu**, **Mihaela Roxana Roman** - *Simulation of Candu Fuel Behaviour into In-Reacto Loca Tests* - Tech. Meet. on Modelling of Water Cooled Fuel Incl. Design Basis and Severe Acc., China, October 2013
160. **Iosif Prodea**, **Cristina Alice Mărgeanu**, **Andrei Rizoiu**, **Gheorghe Olteanu** - *INR Recent Contributions to Thorium-based Fuel Using in CANDU Reactors* - Technical Meeting on "Advanced Fuel Cycles in Press. Heavy Water Reactors, PHWRs", India, April 2013
161. **M.Dinca** - *Thermal neutron tomography at INR, RO* - Training Workshop on Advanced Use of Neutron Imaging for Research and Applications, Helmholtz-Zentrum Berlin, Germania, August 26-30, 2013
162. **L. Bujoreanu**, **D. Bujoreanu** - *Tritium monitoring in tritiated oils waste from Cernavoda NPP* - Workshop „Managementul tritiului”, ed. A VI-a, 21 iunie 2013, Valcea, România, 21 iunie 2013
163. **Daniela Mladin**, **C. Gentea**, **M. Ciocanescu** - *Safety reassessment aspects for TRIGA Reactor* - Workshop on Complem. Safety Assessment of Res. React. Following the Less. Learned from Fukushima-Daiichi Accident, China, June 2013
164. **Mincu Marin**, **Androne Gabriela**, **Ivan Ana Maria** - *Infrastructure for Production of Radioisotopes and Progress in Mo99 Production from LEU Targets* - Workshop on Signatures of Medical and Industrial Isotope Production (WOSMIP IV) , Vienna, 11-13 Noiembrie 2013
165. **Iulia Dumitrescu**, **Dumitru Ohâi**, **Tiberiu Meleg**, **Maria Mihalache**, **Alice Dinu**, **Dorel Benga** - *“FIPRED\_Part 1: Preliminary Experiments ON UO<sub>2</sub> Fuel Pellets Behavior under Steam-Air Atmosphere (THERMOANALYSER)”* - FP7\_SARNET 2 Report
166. **Iulia Dumitrescu**, **Dumitru Ohâi**, **Tiberiu Meleg**, **Maria Mihalache**, **Alice Dinu**, **Dorel Benga** - *“FIPRED\_Part 2:Selfdisintegration of UO<sub>2</sub> Sintered Pellets under Steam-Air Atmosphere using the FIPRED Equipment”* - FP7\_SARNET 2 Report
167. **Iulia Dumitrescu**, **Dumitru Ohâi**, **Tiberiu Meleg**, **Maria Mihalache**, **Alice Dinu**, **Dorel Benga** - *“FIPRED\_Part 3: Selfdisintegration of UO<sub>2</sub> Sintered Pellets under Steam Atmosphere using the FIPRED Equipment”* - FP7\_SARNET 2 Report
168. **Maria Mihalache**, **Manuela Fulger**, **Alice Dinu**, **Gheorghe Oncioiu**, **Marian Pantâru** - *Benchmarking of Advanced Materials Pre-Selected for Innovative Nuclear Reactors* - Progress Report of the AIEA Research Contract No. 16705, Aprilie 2013, CRP- AIEA



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1. **Mirela Nițoi** - *An attempt to model ageing effects* - Lambert Academic Publishing GmbH & Co. KG, Germany, ISBN 978-3-659-38825-5, Aprilie 2013
2. **Daniela Mladin** - *Probabilistic Safety Assessment Studies for Research Reactors* - Lambert Academic Publishing, ISBN:978-3-659-45945-0, 20.09.2013
3. **Paula Cîrlan** - *Procedee de obținere a materialelor noi: SINTERIZAREA* - Editura Universității din Pitești, Index: ISBN 978-606-560-354-7, 2013
4. **Minodora Apostol** - *Incertitudini in analizele probabliste de securitate nuclear* - Editura Universitatii din Pitesti, ISBN: 978-606-560-357-8, Decembrie 2013
5. B. Neerdael, S. Finsterle, W. Chen, D. Lemos, S. Hossain, Y-S Hwang, Petre Ilie, **Alice Ionescu**, C-H Kang, D. Mallants, P. K. Narayan, P. Poskas, R. Poskas, R. R. Rakesh, S. Seetharam, Y. Shybetksyy, X. Sillen, S. Rui, H. Thomas, P.Vardon - *IAEA-TECDOC-1717- The use of numerical models in support of site characterization and performance assessment studies of geological repositories* - IAEA, ISBN: 978-92-0-112310-7
6. **Popa Constantin Laurențiu** - *Susceptibilitatea la coroziune a unor aliaje de titan în medii agresive* – Editura Universității din Pitești, ISBN 978-606-560-355-4, 2013
7. **Carmen Arsene** - *Migrarea unor radionuclizi in solurile amplasamentului pentru Depozitul Final de Deseuri Slab si Mediu Active (DFDSMA) Saligny* - Editura Universității din Pitești, ISBN: 978-606-560-353-1, 2013
8. **George Matei** - *The Detection and failed nuclear fuel Localization and post-irradiation non destructive Examination of the nuclear fuel.(Detectia si localizarea combustibilului nuclear defect si examinarea postiradiere nedistructiva a elementului combustibil nuclear)* - Edition of the Pitesti University, ISBN:978-606-560-359-2, 2013