

LUCRARI STIINTIFICE PUBLICATE / PREZENTATE LA CONFERINTE NATIONALE SI INTERNATIONALE IN ANUL 2011

1. **C. Bucur, R. Dobrin, M. Pavelescu** - *Radiocarbon Sorption on Loess and Improved Loess Samples* – Revista de Chimie, Vol. 62, No. 1, P. 99-101, 2011
2. **C. Bucur, M. Olteanu, N. Dulama, M. Pavelescu** - *Cesium Sorption / Desorption on Saligny Geologic Formations* - Romanian Journal of Physics, Vol. 56, Nos. 5-6, P. 769-783, 2011
3. **C. N. Dulama, M. Dulama, R. Dobrin, M. Pavelescu** - *Estimation of the Gamma Dose Rate for Homogenous Waste Containers* - Romanian Journal of Physics, Vol. 56, Nos. 9–10, P. 1136–1142, 2011
4. **G. Vieru, V. Nistor** - *Testing Facilities for Radioactive Materials Packages* - Packaging, Transport, Storage & Security of Radioactive Material ISSN 1746-5095, 2011
5. **S. Florea, V. Radu, V. Ionescu, M. Pavelescu** - *Evaluation of Fuel Channel Behavior (CANDU NPP) for the Long Time Normal Operating Conditions when the Delayed Hydride Cracking Occurs* - Romanian Reports in Physics, ISSN 1221-146X, vol.56, Nr. 9-10, p. 1124-1135, Ed. Academiei Romane, 2011
6. **V. Ionescu, M. Mihalache, S. Florea** - *Elastic Anisotropy of Zr-2.5%Nb Alloy Candu Pressure Tube by Ultrasonic Methods* - Romanian Reports in Physics, ISSN 1221-1451, vol.63, Nr.1, p. 128-136, 2011
7. **R.I. Dobrin, M. Pavelescu, C.N. Dulama, Al.Toma** - *Measurement of Multiple Labeled Samples by Beta Spectrum Unfolding* - Romanian Journal of Physics, vol. 56, 2011
8. **C.N. Dulama, R.I. Dobrin, M. Dulama, M. Pavelescu** - *Estimation of The Gamma Dose Rate for Homogenous Waste Containers* - Romanian Journal of Physics, vol. 56, 2011
9. **R.I. Dobrin, M. Pavelescu, C.N. Dulama** - *Measurements of Beta Ray Emitters in LSC Using Efficiency Tracing Ciemat/Nist Method* - Romanian Journal of Physics, vol. 56, 2011
10. **R. Dobrin, M. Pavelescu** - *CANDU and TRIGA Fuel Burnup Determination Using Axial And Tomographic Gamma-Scanning* - Romanian Reports in Physics, Vol. 63, 2011
11. **Cs Roth, D. Barbos, D. Gugiu, A. Datcu, D. Dobrea, M. Gligor, M. Preda, Madinka Bright Mweetwa** - *Irradiation and Measurement Devices and Methods Development for LSNA Applications at the TRIGA-ACPR Core* - Journal of Radioanalytical and Nuclear Chemistry, Volume 291, Issue 2, 461-466, DOI: 10.1007/s10967-011-1231-7, 2011
12. **D. Lucan** - *Behaviour of the CANDU Steam Generator Tubing in Water with Different pH Values* - Nuclear Engineering and Design, ISSN 0029-5493, vol. 241(1), 2011
13. **M. Fulger, D. Ohai, M. Mihalache, S. Valeca** - *Analyses of Oxide Films Grown on AISI 304L Stainless Steel and Incoloy 800 HT Exposed to Supercritical Water Environment* - Journal of Nuclear Materials vol.415, pp 147-157, 2011
14. **V. Radu, E. Pafummi, et al** - *Thermal Fatigue Stripping Damage Assessment from Simple Screening Criteria to Spectrum Loading* - International Journal of Fatigue, 2011
15. **V. Radu, M. Roth** - *Probabilistic Fracture applied for DHC Assessment in the Cool-Down transients for CANDU Pressure Tubes* - Nuclear Engineering and Design, 2011
16. **M. Mihalache, V. Ionescu, M. Pavelescu** - *DELOCA, Computer Simulating of CANDU FC Behaviour in LOCA* – Roumanian Journal of Physics, vol 56/2011
17. **M. Mihalache, V. Ionescu, T. Meleg, M. Pavelescu** - *Study of Microstructures of Oxidized Zr-2.5%Nb Subjected to Thermal Transient Treatments* - Roumanian Journal of Physics, vol 56/2011
18. **G. Horhoianu et al** - *Comparison between CAREB Code Calculations and LOCA Test Results in the FUMEX III Project* - KERNTECHNIK Journal, Vol. 76, No.2, 2011
19. **G. Horhoianu, S.Palleck** - *CANDU Fuel Elements Behavior in the Load Following Tests* - KERNTECHNIK Journal, Vol. 76, No.4, 2011
20. **G. Horhoianu, D. V. Ionescu, E. Pauna** - *Analytical Assessment for Stress Corrosion Fatigue of CANDU Fuel Elements under Load Following Conditions* - KERNTECHNIK Journal, Vol.77, March 2011

21. **M. Nitoi, I. Turcu, C. Bruynooghe, M. Pavelescu** - *Prioritization of Components Important for Safety and Sensitive to Ageing. Applic. for TRIGA Reactor* - Progress in Nuclear Energy Journal, Vol. 53, Iss. 4, pp 336-343, doi 10.1016/j.pnucene.2011.01.002, ISSN: 0149-1970, 2011
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23. **V. Balaceanu, M. Pavelescu, V. Hristea** - *Neutronic Calculation System for CANDU Core Based on Transport Methods* - Romanian Reports in Physics, Vol.63, nr.4, 2011
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26. **Al. Catana** - *CFD Methods for Thermal-Hydraulic Analysis of Pressure Tube Nuclear Reactors* - Journal of Nuclear Research and Development, Nr 1, pg. 49-63, ISSN 2247 - 191X, ISSN-L 2247 - 191X, May 2011
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28. **I. Prodea** - *Economic Penalties at the Use of Burnable Absorbers in Standard and Advanced CANDU Fuel Designs* - Journal of Nuclear Research and Development, Nr.2, pg. 35-40, ISSN 2247 - 191X, ISSN-L 2247 - 191X, December 2011
29. **M. Apostol, A. Leca** - *Dealing with Uncertainties in Nuclear Safety Analyses - Part I (Probab. Approach)* - UPB Scientific Bulletin, Series C: Electrical Engineering, Vol.73, Iss. 3, ISSN 1454-234x, pp. 291-306, 2011
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31. **D. Lucan, L. Velciu, M. Mihalache, A. Dinu, M. Fulger, D. Astefanesei** - *Corrosion Kinetics of the Carbon Steel SA 508 CL.2 in High Pressure and Temperature Water with Ph 9.5* - Journal of Nuclear Research and Development, Nr.1, pg.27-34, ISSN 2247 - 191X, ISSN-L 2247 - 191X, May 2011
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33. **L. Dinu, A. Ivan, C. Lazar, G. Androne, M. Tatarascu, M. Mincu, O. Ichim, A. Benga, D. Barbos, A. Bucsa, P. Busuioc, C. Toma** - *Gamma Spectrometry Characterization of the Sodium Molybdate Solution produced by the Modified CINTICHEM Method* - Journal of Nuclear Research and Development, Nr. 2, pg. 41-46, ISSN 2247 - 191X, ISSN-L 2247 - 191X, December 2011
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35. **G. Vieru, R. M. Mihaiu, V. Nistor** - *Aspects Related to the Security of Radioactive Sources* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
36. **D. Bujoreanu, L. Bujoreanu** - *A combustion oxidation of spent resins radioactive waste for measurement of radioactivity in dissolved samples using liquid scintillation counters* - International Symposium for Nuclear Energy, (SIEN), Bucharest, Romania, October, 16 – 20, 2011
37. **D. Bujoreanu, L. Constantin, L. Bujoreanu** - *A comprehensive overview of upgrade of Waste Department from INR for ensuring high quality in safety, maintenance and processing activities of radwaste resulting from fuel cycle with natural uranium* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955

38. **C. Dulama, R. Dobrin, A. Toma** - *A new passive collector for airborne tritiated water* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
39. **M. Dianu** - *Adsorption behaviour of ³⁶Cl on strongly basic anion exchange resins* - International Symposium for Nuclear Energy, (SIEN), Bucharest, Romania, October, 16 – 20, 2011
40. **A. Constantin, D. Diaconu, A. Genty** - *Alliances Case Study: Flow Field in Unsaturated Zone of the Saligny Site* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
41. **G. Vieru, C. Paunoiu, S. C. Valeca, G. Cojazzi, R. Mihaiu, V. Nistor** - *An Enhanced Nuclear Security Culture – A Challenge* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
42. **R. Mihaiu, G. Vieru, V. Nistor** - *An Evaluation Method for Potentially Package's Non-Fixed Radioactive Contamination in Transport of Radioactive Waste* - The 17th National Conference with International Participation "Progress in Cryogenics and Isotopes Separation", Calimanesti - Caciulata, Valcea, Romania October, 26-28, 2011
43. **C. Toma, M. Ciocanescu, I. Popescu** - *Tackling the problem of radioactive waste generated in fission molybdenum production in infrastructure existing in Romania* - Meeting of the Coordinated Research Project (CRP) on "Developing Techniques for Small-Scale Indigenous Molybdenum 99 Production using Low Enriched Uranium (LEU) Fission or Neutron Activation", Santiago, Chile, November 2011
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45. **M. Ciocanescu, C. Paunoiu** - *Experience of Ageing Management at 14Mw TRIGA Research Reactor from INR Pitesti, Romania* - International Conference on Research Reactors: Safe Management and Effective Utilization Rabat, Morocco, November, 2011, 14-18
46. **M. Ciocanescu** - *Modernization of TRIGA SSR 14MW and Associated Systems* - Peru, 2011
47. **D. Mladin, M. Mladin, S. Covaci, I. Prisecaru** - *Calculation of fission prod. transport in a pool type reactor using CATHARE 2* - 5th International Conference on Energy and Environment CIEM, Bucharest, Romania, paper S8-06, November, 3 – 4, 2011
48. **D. Lucan, A. Dinu, D. Astefanesei, M. Stanciulescu, S. Florea, L. Velciu, M. Pantaru** - *CANDU Steam Generator Tube sheet Degradation in Water Containing Impurities*, The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 - 2955
49. **E. Pauna, Al. Catana, M. Ioan, D. Nastase** - *CFD Analyses in Open-source Environment for a Lead Test Facility* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, pg. 397-404, ISSN 2066 – 2955
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51. **D. Diaconu, C. Bucur, A. Constantin, Cs. Roth, M. Iordache, M. Mihalache, A. Dinu** - *Characteristics of Irradiate Graphite from Material Testing Reactors and Management Approaches* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
52. **D. Puiu, T. Gyongyosi, E. Dinu, F. Voicu, T. Meleg** - *Condition Monitoring and ageing degree evaluation of the PVC Power Cables* - International Symposium for Nuclear Energy, (SIEN), paper 3.11, Bucharest, Romania, October, 16 – 20, 2011
53. **G. Vieru** - *Consideration on the Potential Increasing Risk of the Proliferation of Nuclear Material vs. Non-proliferation Challenges from Nuclear Renaissance* - GLOBAL 2011, Toward and Over the Fukushima Daiichi Accident, December, 11 – 16, 2011, Makuhari Messe, Chiba, Japan
54. **L. Popa, L. Velciu, M. Radulescu** - *Considerations referring to chemical descaling of filmed carbon steels* - International Symposium for Nuclear Energy, (SIEN), Bucharest, Romania, October, 16 – 20, 2011

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56. **L. Dumitrache, I. Furtuna, D. Doanta, M. Deaconu** - *Control of oxygen impurification during TRIGA fuel manufacturing* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
57. **I. Prodea, I. Prisecaru** - *Core Neutronic Effects at The Use of Burnable Absorbers in CANDU Fuel Bundles* - 5th International Conference on Energy and Environment CIEM, Bucharest, Romania, paper S8-13, November, 3 – 4, 2011
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59. **D. Astefanesei, M. Radulescu, D. Lucan, S. Stoica** - *Corrosion tests of Incoloy 800 at the specific parameters of the steam generator primary circuit* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
60. **D. Astefanesei, M. Radulescu, D. Lucan, S. Stoica** - *Corrosion tests of Incoloy 800 material of steam generator tubes in dynamic regime* - International Symposium for Nuclear Energy, (SIEN), Bucharest, Romania, October, 16 – 20 ,2011
61. **D. Gugiu, Cs. Roth, A. Ghinescu** - *Counting efficiency computation for LSNAAs applications, Modern Trends in Activation Analyse* - MTA - 13th International Conference on Modern Trends in Activation Analysis, Texas A&M University, March 13-18, 2011
62. **D. Mladin, I. Prisecaru** - *Database Applications in Support of Risk Analysis at Nuclear Reactors* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, pg. 163-175, ISSN 2066 – 2955
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65. **M. Mincu, G. Androne, C. Lazar, L. Dinu, O. Ichim** - *Determination of Alpha Radionuclide Concentration in Different Types of Radioactive Waste* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and EDUCATION, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 - 2955
66. **R. Toma, I. Prisecaru, C.N. Dulama** - *Determination of difficult to measure nuclides in spent resins* - 5th International Conference on Energy and Environment CIEM, Bucharest, Romania, November, 3 – 4, 2011
67. **I. Dumitrescu, M. Dragomir, D. Ohai** - *Determination of Impurities Content in Uranium Dioxide Powder Using Time of Flight Mass Spectrometry Pitesti, Romania* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
68. **R. Toma, I. Prisecaru, C. N. Dulama** - *Determination of scaling factors for difficult to measure nuclides in spent resins from Cernavoda NPP* - NUTECH-2011 - Development and Applications of Nuclear Technologies, September, 11-14, 2011, Kraków, Poland
69. **G. Vieru** - *Development of methodology for Risk Assessment and State Management of Nuclear Security Regime* - The IAEA’s Research Coordination Meeting for the Coordinated Research Project (CRP), March, 21 – 25 , 2011, Vienna, Austria
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71. **G. Taifas** - *Discuss Best Practices in Primary System and Spent Water Chemistry and Lessons Learned from Operational occurrences* - RER/3/008 - „Strengthening Safety and Reliability of

Nuclear Fuel and Nuclear Materials în Nuclear Power Plants, Including Water – Cooled and Water – Moderated Power Reactor Components and Piping”, May, 3 – 6, 2011, Curtea de Arges, Romania

72. **D. Astefanesei, M. Radulescu, D. Lucan** - *Electrochemical tests of Incoloy 800 material of steam generator tubes in dynamic regime* - The 17th National Conference with International Participation "Progress in Cryogenics and Isotopes Separation", Calimanesti - Caciulata, Valcea, Romania October, 26-28, 2011
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75. **M. Roth, V. Radu** - *Evaluation of CANDU pressure tube failure due to DHC mechanism* - The 17th National Conference with International Participation "Progress in Cryogenics and Isotopes Separation", Calimanesti-Caciulata, Valcea, Romania October, 26-28, 2011
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77. **T. Gyongyosi, I.Prisecaru, V. N. Panaitescu** - *Experimental determination of the mechanical compression strength for CANDU type experimental fuel bundle* - 5th International Conference on Energy and Environment CIEM, Bucharest, Romania, November, 3 – 4, 2011
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82. **T. Gyongyosi, S. Valeca, V. N. Panaitescu, I. Prisecaru** - *Forming of the Ice Plug in a Large Diameter Horizontal Pipe Simulator,Process Marked by Demin Water Flow Asymmetry* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
83. **L. Dinu, A. Ivan, C. Lazar, G. Androne, M. Tatarascu, M. Mincu, O. Ichim, A. Benga, D. Barbos, A.Bucsa, P. Busuioc, C.Toma** - *Gamma Spectrometry Characterisation of the Sodium Molibdate Solution Produced by Cintichem Method* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
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86. **I. Nitu, V. Pitigoi, V. Radu** - *Influence of hydride precipitates on crack growth by DHC mechanism* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development trough Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955

87. **D. Lucan, L. Velciu, A. Dinu, D. Astefanesei** - *Influence of the Cooling Water Chemistry on the Corrosion of the CANDU Steam Generator Tubing* - International Symposium for Nuclear Energy, (SIEN), Bucharest, Romania, October, 16 – 20 ,2011
88. **M. Fulger** - *INR contribution in the water chemistry research for Cernavoda NPP* - IAEA — TC Project RER/3/008 - „Strengthening Safety and Reliability of Nuclear Fuel and Nuclear Materials în Nuclear Power Plants, Including Water – Cooled and Water – Moderated Power Reactor Components and Piping”, May, 3 – 6, 2011, Curtea de Arges, Romania
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90. **T. Gyongyosi, V. N. Panaitescu, I. Prisecaru** - *Internal State Surface Investigation of Steam Generator Damage Pipe (CANDU 6)* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
91. **M. Mihalache, M. Fulger, M. Roth, V. Radu** - *Investigation of High temp. tensile properties on cold worked and thermal affected CANDU PT* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
92. **Cs. Roth, D. Barbos, D. Gugiu, A. Datcu, D. Dobrea, M. Gligor, M. Preda, M. B. Mweetwa** - *Irradiation and measurement devices and methods development for LSNA applications at the TRIGA-ACPR core* - MTA - 13th International Conference on Modern Trends in Activation Analysis, Texas A&M University, March 13-18, 2011
93. **L. Doca, C. Doca** - *Laminar Flow with Phase Exchange for Real Liquids-A simplified Theoretical Model* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
94. **M. Constantin, S. C. Valeca, I. Turcu, C. Paunoiu, D. Gugiu, Cs. Roth, D. Ohai** - *Lead Fast Reactor Systems – Romanian Contribution Towards ALFRED Demonstrator* - International Symposium for Nuclear Energy, (SIEN), Bucharest, paper 1.7, Romania, October, 16 – 20 ,2011
95. **M. Mladin, D. Mladin** - *MCNP5 calculations compared to experimental measurements in CEA-Minerve reactor* - 5th International Conference on Energy and Environment CIEM, paper S8-01, Bucharest, Romania, November, 3 – 4, 2011
96. **R. I. Dobrin, M. Pavelescu, C. N. Dulama, Al. Toma** - *Measurements of low activity levels of ³H and ¹⁴C using a TRICARB 2100TR LIQUID SCINTILLATION ANALYZER* - NUCLEAR 2011 – The 4th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitesti, Romania, May, 25-27, 2011, ISSN 2066 – 2955
97. **A. Dinu, M. Mihalache, M. Pantaru, M. Tacica, M. Stanciulescu** - *Mechanical Behaviour of Incoloy-800 Alloy in the Specific Conditions for CANDU NPP Steam Generators* - The 17th National Conference with International Participation "Progress in Cryogenics and Isotopes Separation", Calimanesti-Caciulata, Valcea, Romania October, 26-28, 2011
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99. **L. Velciu, L. Popa, M. Mihalache** - *Metallographic Analysis of Some Carbon Steel Samples Exposed in Heavy Water Plant* - The 17th National Conference with International Participation "Progress in Cryogenics and Isotopes Separation", Calimanesti-Caciulata, Valcea, Romania October, 26-28, 2011
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