

Lucrări științifice / tehnice cotate sau indexate de Institutul Internațional de Statistica (ISI)

1. **Marin Dincă, Constantin Iorgulis, Dumitru Bărbos, Luiza Diana Mitrea** - *Status of the imaging facility INUS at INR* - Physics Procedia 88, pag. 167-174, 2017
2. **Madalina Stănciulescu, Marioara Abrudeanu, Andrei Galatanu, Paula Carlan, Maria Mihalache** - *"Dissolution Behaviour of Alloying Elements Into Vanadium Matrix During Mechanical Milling"* - Revista de chimie- Bucuresti 68, No. 5, p. 1109-1113, 2017
3. V. Malinovschi, A. Marin, D. Negrea, V. Andrei, **E. Coaca** - *Tetragonal ZrO₂ phase stabilization in coating layers prepared on Zr-2.5%Nb alloy during plasma electrolytic oxidation in sodium aluminate electrolytes* - Materials Research Express, 4, 095702 (F.I.=1.068), 2017
4. V.A. Andrei, **E. Coaca**, I. Ionita, G. Torok, **O.A. Rusu**, A. Marin, **M. Mihalache, L. Velciu**, V. Malinovschi, T. Visan - *Microstructures and micro composition developed by Plasma Electrolysis Processing of 316L austenitic steels to obtain Al containing surface layer* - Materials Today: Proceedings 4, 6990-6999 (IF=0), 2017
5. **Alexandru Marin**, Cristian P. Lungu and Corneliu Porosnicu - *Influence of gaseous inclusions on aluminum-tungsten coatings investigated by XPS* - Journal of Vacuum Science and Technology A, 35, 061304 (IF=1.374), 2017
6. **Alexandru Marin**, Cristian P. Lungu and Corneliu Porosnicu - *Influence of gaseous environments on beryllium-tungsten and tungsten surfaces investigated by XPS* - Journal of Vacuum Science and Technology A, 35, 021403 (IF=1.374), 2017
7. I. Jepu, M.J. Baldwin, D. Nishijima, R.P. Doerner, C. Porosnicu, C.P. Lungu, P. Dinca, **A. Marin** - *The influence of fusion-relevant D₂-0.1He plasma on Be-W mixed-materials* - Journal of Nuclear Materials, 484, 367-373 (IF=2.048), 2017
8. Oana Cătălina Mocioiu, Ana-Maria Mocioiu, **Alexandru Marin**, Maria Zaharescu - *Study of historical lead silicate glasses and their preservation by silica coat* - Ceramics International, 43, 77-83 (IF=2.986), 2017
9. Mirela Patru, Camelia Gabor, Daniel Cristea, **Gheorghe Oncioiu**, Daniel Munteanu - *Mechanical and wear characteristics of a-C:H/Cr/AlN/Ti multilayer films deposited by PVD/PACVD* - Surface and coatings technology, 320, 284-292, 2017

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1. **Constantin Paunoiu** - *RATEN ICN: achievements and perspectives* - NUCLEAR 2017 - The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education, May 24-26, 2017, Pitesti, Romania, ISSN 2066-2955
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3. **Marin Constantin** - *ALFRED Demonstrator in the Context of SMR Development* - NUCLEAR 2017 - The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education, May 24-26, 2017, Pitesti, Romania, ISSN 2066-2955
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82. **Maria Mihalache, Iulia Dumitrescu** - „*Rohid, a tool for evaluation of hydrogen ingress In Pressure Tube*” - International Symposium for Nuclear Energy „Nuclear Energy – Safe and Reliable Partner of Our Future” SIEN 2017, Bucuresti, October 1-4, 2017
83. **Irina Paraschiv, Crina Bucur, Mirela Olteanu** - „*Estimation of ¹⁴C Release from Saligny Radioactive Waste Repository in the post-operational period and its effects on the population and the environment*” - International Symposium for Nuclear Energy „Nuclear Energy – Safe and Reliable Partner of Our Future” SIEN 2017, Bucuresti, October 1-4, 2017
84. **A. Toma, M. Constantin, I.Turcu, A. Alemberti, M. Frignani, G.Villabruna, G. Grasso, P. Agostini, F.Di Gabriele, V.Romanello** - *The Implementation of ALFRED LFR Demonstrator, A Stepwise Approach* - International Symposium for Nuclear Energy „Nuclear Energy – Safe and Reliable Partner of Our Future” SIEN 2017, Bucuresti, October 1-4, 2017
85. **Roxana Neacșa, Andrei Rizoiu, Ilie Prisecaru** - *Utilizarea uraniului natural echivalent în reactorii CANDU* - International Symposium for Nuclear Energy „Nuclear Energy – Safe and Reliable Partner of Our Future” SIEN 2017, Bucuresti, October 1-4, 2017
86. **T. Gyongyosi, D. Puiu, B. Corbescu, Gh.Deloreanu** - *Aspects regarding the steam generator tube plugging at the support plate entrance using a high speed mechanical deformation procedure* - 8th International Conference on Energy and Environment CIEM 2017, București, October 19-20 2017
87. **V. Cojocaru, M.Horohoi, V. Ionescu, I.Prisecaru** - *Loop for studying the flow of lead in a thermal-hydraulic circuit. Technical design* - 8th International Conference on Energy and Environment CIEM 2017, București, October 19-20, 2017
88. **Marina Petre, Cosmina Lazăr, Ion Man, Marin Mincu, Ilie Prisecaru** - *Determination of americium and plutonium isotopes out of spent nuclear fuel solution using electrodeposition technique* - 8th International Conference on Energy and Environment CIEM 2017, București, October 19-20, 2017
89. **R. Negrea, A. Nitu, A. Marin, V. Malinovski, D. Negrea** - *Complementary investigation methods of zircaloy-4 CANDU nuclear fuel cladding tubes with low hydride content* - NUCLEAR 2017 - The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education, May 24-26, 2017, Pitesti, Romania, ISSN 2066-2955
90. **A. Bumbes, M. Valeca, A. Marin, O. Rusu, E. Coaca, R. Negrea** - *X-ray photoelectron spectroscopy investigations on hydrided Zy-4 fuel cladding* - NUCLEAR 2017 - The 10th Annual International Conference on Sustainable Development through Nuclear Research and Education, May 24-26, 2017, Pitesti, Romania, ISSN 2066-2955
91. **Silviu Ionescu, Octavian Uta, Marin Mincu, Gabriel Ghiță, Ilie Prisecaru** - *Ring Tests on CANDU Fuel Elements Sheath Samples* - U.P.B. SCi. Bull., Series C, Vol. 79, Iss. 3, 2017

Lucrări științifice/tehnice în reviste, altele decât cele cotate sau indexate

1. **M. Constantin** - *Nuclear Power in the XXI Century* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 1-2, ISSN 2247 – 191X, ISSN-L 2247 – 191X
2. **V. Radu** - *Stochastic Modelling of Thermal Fatigue Crack Growth for Applying in the Structural Reliability of Nuclear Piping* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 3-10, ISSN 2247 – 191X, ISSN-L 2247 – 191X
3. **C. Bucur, C. Ichim, M. Olteanu, I. Florea** - *The Influence of High pH Contaminant Plum on Cesium Sorption on Saligny Loess* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 16-20, ISSN 2247 – 191X, ISSN-L 2247 – 191X
4. **C. Arsene** - *Thermal Behaviour of Used Resin during Conditioning Process* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 21-26, ISSN 2247 – 191X, ISSN-L 2247 – 191X
5. **A. Dinu, M. Tunaru, L. Velciu** - *X-Rays Diffraction Characterization of Corrosion Products Transported by Secondary Side of a CANDU NPP* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 27-32, ISSN 2247 – 191X, ISSN-L 2247 – 191X
6. **C. A. Margeanu** - *Assessment of Nuclear Energy Cost Competitiveness against Alternative Energy Sources in Romania envisaging the Long-term National Energy Sustainability* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 33-40, ISSN 2247 – 191X, ISSN-L 2247 – 191X

7. **M. Apostol, M. Constantin, D. Diaconu** - *Building Local Participation and Support for ALFRED Project* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 41-46, ISSN 2247 – 191X, ISSN-L 2247 – 191X
8. **M. E. Fulger, M. Mihaache, L. Velciu, A. Nitu** - *Analysis of the Failed Threaded Rod from the Cernavoda NPP's Pipelines Support* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 52-56, ISSN 2247 – 191X, ISSN-L 2247 – 191X
9. **M. Tunaru, L. Velciu, M. Mihalache, L. Popa** - *Microbiologically Influenced Corrosion of Carbon Steel in the presence of Sulphate Reducing Bacteria* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 68-70, ISSN 2247 – 191X, ISSN-L 2247 – 191X
10. **I. Paraschiv, P. Carlan, A. Dinu, G. Bucsa, M. Stanciulescu, M. Olteanu, I. Voica, S. Radu** - *Degradation Tests for C32/40 Concrete used for Cernavoda NPP Containment, under Thermal Stress conditions and Liner Degradation* - Journal of Nuclear Research and Development, No. 13, May 2017, pg. 71-76, ISSN 2247 – 191X, ISSN-L 2247 – 191X
11. **C. Dulama** - *Radioprotection as a Responsible Approach of the Nuclear Development* - Journal of Nuclear Research and Development, No. 14, December, 2017, pg. 1-2, ISSN 2247 – 191X, ISSN-L 2247 – 191X
12. **M.R. Roman, D.V. Ionescu, G. Olteanu, D.F. Oproiu** - *Study of Thermal Conductivity Influence on MOX Fuel Behaviour* - Journal of Nuclear Research and Development, No. 14, December, 2017, pg. 23-28, ISSN 2247 – 191X, ISSN-L 2247 – 191X
13. **A. Dinu, L. Velciu, G. Bucsa** - *Influence of Chloride Anions on Caustic Stress Corrosion Cracking of CANDU Steam Generators Tubes* - Journal of Nuclear Research and Development, No. 14, December, 2017, pg. 23-28, ISSN 2247 – 191X, ISSN-L 2247 – 191X
14. **C. Dulama, R. Dobrin, A. Toma, O. Hirica** - *Development of Improved LSC Methods for Measurement of Radon Concentration in Groundwater* - Journal of Nuclear Research and Development, No. 14, December, 2017, pg. 53-56, ISSN 2247 – 191X, ISSN-L 2247 – 191X
15. **V. Radu** - *Comparative Study on the In-service Creep of CANDU Pressure Tubes with Parametric Equations and Artificial Neural Network Modelling* - Journal of Nuclear Research and Development, No. 14, December, 2017, pg. 57-61, ISSN 2247 – 191X, ISSN-L 2247 – 191X
16. **M. Mincu, O. Uta, R. Marinescu** - *Design and Testing of a Device for Calibration of the SRS QMS 200 Residual Gas Analyzer used for Fission Gases Composition Measurement* - - Journal of Nuclear Research and Development, No. 14, December, 2017, pg. 67-72, ISSN 2247 – 191X, ISSN-L 2247 – 191X
17. **B. Corbescu, T.Gyöngyösi, D. Puiu, V.N. Panaitescu** - *Computational element of the required nitrogen during the ice plug isolation of a horizontal high diameter pipe line* - A XVII-a Conferință internațională multidisciplinară „Profesorul Dorin Pavel – fondatorul hidroenergeticii românești”, Sebeș – Alba, 2-3 iunie 2017
18. **Madalina Stanciulescu** - *Romania's ICN radioisotopes production capability – Focus on iridium, World Council on Isotopes* - Newsletter, vol.6–issue 10, Octombrie 2017

Comunicări științifice prezentate la conferințe cu participare internațională

1. **C.A. Mărgeanu** - *Modelling Nuclear Energy Systems with MESSAGE: Romanian case* - IAEA Reg. Training Course, Pitesti, Romania, Martie 2017
2. **C.A. Mărgeanu** - *Evolutionary versus Innovative Nuclear Energy Systems* - INPRO KIND Project Tech. Meet.; Progress report, IAEA Vienna/ Austria, Mai 2017
3. **A.C. Răduț, S.C. Valeca, Gh. Olteanu** - *Verificarea Posibilității de Aplicare a codului ELESIM pentru determinarea Parametrilor de Performanță ai Combustibilului cu Oxid Mixt de Th și U* - Sesiune Com. Științifice ale Studenților, Universitatea din Pitești, Mai 2017
4. **M.R. Roman, D.V. Ionescu, Gh. Olteanu, D.F. Oproiu** - *Analiza experimentului LWR-MOX utilizând codul TRANSURANUS* - Workshop Internațional, Finlanda, Iun. 2017
5. **C. A. Mărgeanu** - *Application of ROADMAP template to Romania's Nuclear Energy System* - INPRO ROADMAPS Project Tech. Meet.; Progress report, IAEA Vienna/ Austria, Oct. 2017
6. **M. Mladin, G. Budriman, S. Dulugeac** - *ROM_INR_A_1 Benchmark & Results of Calculation. Preliminary Results on SAF_SAFARI-1 Benchmark* - Tech. Meet. on the Results of Computational Tool Benchmarks for Fuel Burnup and Material Activation, IAEA, Vienna/Austria, Oct. 2017
7. **M. Fărcașiu** - *Experience And Lessons Learned in The Human Factor Analysis for TRIGA Reactor And CERNAVODA NPP* - Tech. Meet. on the Develop. of the Safety Report on Human Reliability Assessment for Nuclear Installations, IAEA, Vienna/Austria, Nov. 2017
8. **C.A. Mărgeanu** - *Romania's case study for the KIND project. Proposal of future activities for the CENESO project* - INPRO CENESO Project Tech. Meet., IAEA Vienna/ Austria, Dec. 2017
9. **M. Fărcașiu** - *The man-machine-organization system analysis for nuclear installations* - Workshop on Considerations Related to the Interactions between Human, Technical and Organizational Factors in Research Reactor Safety, IAEA Vienna/ Austria, Dec. 2017

10. **V. Deaconu** - *Three-pass austenitic slot welded plate: a 2-D modelling approach* - 32nd NeT Steering Committee Meeting, Petten/Olanda, Dec. 2017
11. **V. Deaconu** - *TG6: Analysis of some temperature records* - 32nd NeT Steering Committee Meeting, Petten/Olanda, Dec. 2017
12. **V. Cojocaru, I. Prisecaru, N. Marinescu, G. Dună** - *LECOTELO – Instalation used for corrosion/erosion testing of structural materials in molten lead* - Buletinul Științific – UPB, series C, No.1/2017
13. **B. Corbescu, T. Gyongyoși, D. Puiu, V.N. Panaitescu** - *Computational element of the required nitrogen during the ice plug isolation of a horizontal high diameter pipe line* - Știință și inginerie. Vol. 32/2017, ISSN 2067-7138, Editura AGIR, București, 2017, pp. 813-824, Vol. 32/2017
14. **Mihai Catalin Arva, Eugen Diaconescu** - *Experimental study on nonlinear behavior of Buck converter as noise generator and its influence on vibroacoustic systems* - ECAI 2017 International Conference 9th Edition on Electronics Computers and Artificial Intelligence, 29 iunie-01 iulie 2017 (Tirgoviste-Romania)
15. **Mihai Catalin Arva, Nicu Bizon, Augustin Micu** - *Proposal of an accurate and low complexity method for frequency estimation using DFT interpolation* - TSP 2017 40th International Conference on Telecommunications and Signal Processing, 5-7 iulie 2017 (Barcelona-Spania)
16. **Dumitra Lucan, Velciu L., Mihalache M., Petrescu D.** - *“Research activities on INR nuclear materials and corrosion department in the field of ageing management and long term operatio”* - Fourth International Conference on Nuclear Power Plant Life Management – PLIM, 23 - 27 oct 2017
17. **Mădălina Stănculescu, Marioara Abrudeanu, Tiberiu Meleg, Maria Mihalache, Mariea Deaconu** - *„Processing and characterization of ODS Fe-Cr ferritic alloys”* - The 5th International Conference on Powder Metallurgy & Advanced Materials, Cluj Napoca, 17-20 sept. 2017
18. **Vasile Radu, Viorel Ionescu, Alexandru Nitu** - *Meeting FP7 MatISSE / Raportare rezultate: W.P. 4.2 si 5.2* – UE, Iunie 2017
19. **Daniela Diaconu, Manuela Fulger, Alina Constantin** - *CAST Intalniri tehnice pe pachete de lucru (Wp3, WP4, Wp5, WP6) / Prezentarea rezultatelor obtinute de RATEN ICN* – UE, 2/an
20. **Alina Constantin** - *European Nuclear Young Generation Forum 2017 / Disemnarea activitatii tinerilor profesioniști din ICN* - UK/ Manchester, 1/an
21. **Dinu Alice** - *Intalnire anuala ECG-COMON / Participarea la programe de cercetare realizate in colaborare cu membrii Grupului; Continuitatea prezentei RATEN ICN in programele de cercetare europene si cresterea competentei specialistilor sai* – Budapesta, semestrul 1
22. **Alexandru Toma, Vasile Radu** - *Intalnire Comitet Tehnic (TCM) COG/AIEA, Participare la sesiunea “Research and Development”* - Cordoba, Argentina, 20-25 Nov 2017
23. **Alexandru TOMA, Vasile RADU, Maria ROTH** - *RATEN ICN – Overview on the achievements and perspectives from the CANDU R&D activities* - Participare la A 14 – a Intalnire a Comitetului Tehnic (TCM) COG/IAEA cu privire la Schimbul de Experiență în Siguranță Operațională a reactoarelor PHWR, 19-27 Noiembrie 2017
24. **I.Turcu, M.Constantin, A.Alemberti, M.Frignani, G.Grasso, P.Agostini, F.DiGabriele, and V.Romanello** - *ALFRED Demonstrator towards an Improved Sustainability of Nuclear Energy* - Workshop on Energy for Sustainable Science, Bucharest, November 23-24, 2017
25. **M. Constantin, D. Diaconu, I.Turcu, M.Apostol, M.Nitoi, A.Alemberti, Frignani, G.Grasso, P.Agostini, F.DiGabriele, and V.Romanello** - *ALFRED Project* - Conferinta proiectului SUPERMAT “The Virtual Center for Integration and Innovative Synthesis and Processing Methods for Sustainable Advanced materials Operating under Extreme Conditions”, Bucuresti, November 15-16, 2017
26. **M.Constantin, S.C.Valeca, I.Turcu, D.Diaconu, D.Gugiu, M.Nitoi, M.Apostol** - *ALFRED Implementation - an Important Step for Gen IV* - Conferinta “Energia nucleară - sigură, sustenabilă și competitivă în România” organizata de CMR-CME, UPB, 9 noiembrie 2017
27. **M.Constantin, I.Turcu, D.Diaconu, A.Alemberti, M.Frignani, G.Grasso, P.Agostini, F.Digabriele, V.Romanello** - *ALFRED LFR Demonstrator, A Stepwise Approach* - Conferinta GLANST 2017, Seul, Coreea de Sud, 7-8 Septembrie 2017
28. **M.Constantin** - *GenIV LFR Development in the Context of National Electricity Needs* - Sedința de lucru a NEA OECD, grupul ARFEM (Expert Group in Advanced Reactpr Systems and Future Energy Market Needs), Paris, iunie 2017
29. **Marin Constantin, Ilie Turcu** - *ALFRED – Advanced Lead Fast Reactor Demonstrator* - Simpozionul dedicat energiei organizat de Universitatea din Constanta, 22 iunie 2017
30. **Ilie Turcu, Marin Constantin** - *ALFRED Project – Status and Perspective* - Prezentarea proiectului ALFRED la Universitatea Bucuresti, 10 mai 2017
31. **M.Constantin** - *RATEN ICN activities and contribution to the project* - Sedinta de lansare a proiectului Euratom-US INERI „SMR LFR in Regional Energy Markets: Safety, Sustainability, and Economic Assessment”, Paris , 23 martie 2017
32. **M.Constantin** - *Nuclear Development in Romania* - SET Plan-A10 Nuclear, Brussels, February 2017
33. **M.Constantin** - *Some Aspects of the Source Term formation in GEN IV LFR Systems* - IAEA Technical Meeting on Next Generation Reactors and EPR, February 2017
34. **Zoltán Hózer, Pietro Agostini, Steven Knol, Mirela Nitoi** - *Support to facilities development*- ESNII Conference 2017, SCK•CEN Lakehouse, Mol, Belgium, May 2-5, 2017
35. **Zoltán Hózer, Mirela Nitoi** - *Status of “Support to facilities development” activities* - ESNII Plus Project Management Board Meeting, Paris, France, 6 July 2017
36. **Mirela NITOI** - *Considerations on safety claims for licensing GenIV reactors* - European Workshop on Safety Assessment of Fast Neutron Reactors, GRS, Garching, Germany, July 10-12, 2017

37. **Mirela NITOI** - *Investigation of SMR design using the existing safety design requirements –Challenges of ALFRED licensing process in Romania* - TM on Challenges in the Application of the Safety Design Requirements for NPPs to Small and Medium Sized Reactors, IAEA, Vienna, 4-8 September 2017
38. **Mirela NITOI** - *Use of PSA in investigation of operational events induced by ageing phenomena* - 20th Technical Meeting on PSA Event Analysis, EC-JRC-Petten, NL, 19-20 October 2017
39. **Minodora Apostol** - *Capacity Building Programme & Self Assessment – ROMANIA* - IAEA Regional Workshop on the Education and Training Review (ETReS) Service, Sofia, Bulgaria, 21 – 24 February 2017
40. **Crina Bucur, Manuela Fulger, Ionut Florea, Relu Dobrin, Cristina Diaconescu** - *RATEN ICN results on CANDU Zy-4 fuel claddings* - CAST WP 2 &3 technical meeting, March 28-29, 2017
41. **Crina Bucur, Relu Dobrin, Ionut Florea, Cristina Diaconescu, Dan Bujoreanu** - *RATEN ICN work progress on CANDU SIERS* - CAST WP 4 technical meeting, 10-11 mai 2017, Paris
42. **Crina Bucur** - *RATEN ICN involvement in CHANCE project* - CHANCE Kick-off_Meeting, 12-13 June, 2017, Brussels
43. **Crina Bucur, Stephane Plumeri** - *Role of End-Users in WP2 Task 1 “End-Users requirements & Methodology for conditioned waste characterization”* - First CHANCE End-User Group meeting, 24 November, 2017, Paris
44. **Liliana Bujoreanu** - *A case Study for Safety Assessment of the Possible Radiation Risk in the evaporation facility of radioactive liquid waste* - Development of the Safety Case and Safety Assessment of Predisposal Management Activities and Facilities, Viena, perioada 07 august - 11 august
45. **Dan Bujoreanu, Liliana Bujoreanu** - *Comparative study for C-14 measurement in operational solid radioactive waste* - Managementul Tritului, ICSI Rm. Valcea, editia a-VIII-a, 8 septembrie 2017
46. **Magdalena Dianu, Crina Bucur, Marius Iordache** - *Evaluarea performanței metodelor de separare a Sr din probe lichide apoase* - Simpozionul „Chimie și dezvoltare”, Pitești, 26 mai 2017
47. **Marin Dincă, Luiza Diana Mitrea** - *Tomography with mixed neutron and gamma beams* - 3rd International Conference on Tomography of Materials and Structures, Lund, Suedia, 26 – 30 iunie 2017
48. **Marin Dincă, Luiza Diana Mitrea** - *Dynamic investigation by neutron and gamma imaging of a coffee maker* - 17th International Balkan Workshop on Applied Physics and Materials Science, Constanta, România, 11-14 Iulie, 2017
49. **Marin Dincă** - *Simultaneous use of neutron and gamma rays in imaging applications* - IAEA Training Workshop (T3-TR-55249) on Advanced Use of Neutron Imaging for Research and Applications- AUNIRA, Garching, Germania, 28.08-01.09, 2017
50. **Csaba Roth, Mirea Mladin, Calin Truta** - *Transient testing of MYRRHA fuel - progress report* - Sedinta tehnica de coordonare a proiectului FP7 MAXSIMA, Petten, Olanda, 08.03.2017
51. **Csaba Roth, Mirea Mladin, Calin Truta, Laurentiu Aioanei** - *Experiment presentation, preliminary conclusions on the first test* - Sedinta tehnica MAXSIMA WP 5.1, Pitesti, Romania, 25-27.04.2017
52. **Adrian Bucsa, Dumitru Barbos** - *Current standards and Good Practices* - The national training course on Periodic Safety Review of Nuclear Installations, 10-14 Iulie 2017
53. **Stanica Dorin-Mirel, Ion Lita, Mihai Oprescu** - *Intelligent control system with application in nuclear equipment* - 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME). Constanta, Romania, 26-29 Oct 2017
54. **Constantin Paunoiu** - *Application of Code of Conduct on the safety of TRIGA 14MW research reactor* - International Meeting on Application of the Code of Conduct on the Safety of Research Reactors, 7, IAEA HQ, Vienna, Austria, 15-19 May, 2017
55. **D.Barbos, M.Ciocanescu, C. Paunoiu** - *The role of TRIGA Pitesti research reactor in providing support for Romanian nuclear program* - Annual Meeting of Regional Safety Committee for Research Reactors in Europe (EURASC) Almaty, Kazakhstan, 11-15 Dec 2017
56. **D. Barbos** - *Safety Performance Indicators Report, Year 2015-2016, for 14MW TRIGA Research Reactor* - Technical Meeting on the Safety of Research Reactors under Project and Supply Agreements, Vienna, Austria, 03–07 July 2017
57. **M. Media, T. Tudorache, C. Truta** - *Modelarea numerică a procesului de încălzire inductivă în vederea îmbinării zircaloy – inox pentru aplicații nucleare* - Conferința „SUDURA 2017”, Iași, 6 – 7 aprilie 2017
58. **Dumitra Lucan, Velciu L., Dinu A., Petrescu D.** - *“Influence of the Coolant Chemistry on the Structural Materials Surfaces Exposed into the CANDU NPP Primary Circuit”* - International Conference on Applications of Radiation Science and Technology (ICARST-2017), 24 – 28 April 2017
59. **Silviu Ionescu, Marin Mincu, Răzvan Marinescu** - *Automated device for pressure tube samples collect for hydrogen concentration determination in PIEL* - HOTLAB 2017, 20.09.2017
60. **Marin Mincu, Octavian Uță , Răzvan Marinescu** - *Analysis of fission gases released in the void volume of irradiated CANDU type nuclear fuel* - HOTLAB 2017, 20.09.2017
61. **Alina Cristina Răduț, Serban Constantin Valeca, Gheorghe Olteanu** - *Verificarea Posibilității de Aplicare a Codului ELESIM pentru determinarea Parametrilor de Performanță ai Combustibilului cu Oxid Mixt de Toriu și Uraniu* - Sesiunea de Comunicări Științifice ale Studenților, secțiunea: Ingineria Mediului și Științe Inginerești Aplicate, 2017
62. **Mihaela Roxana Roman, Dragos Victor Ionescu, Gheorghe Olteanu, Diana Oproiu** - *Analiza experimentului LWR-MOX utilizând codul TRANSURANUS* - Workshop Internațional, Finlanda, Iunie 2017

CĂRȚI DE SPECILALITATE SAU CAPITOLE DE CARTE PUBLICATE ÎN ANUL 2017

1. **Dumitra Lucan** - *CANDU Steam Generator Corrosion Due to the Impurities of Concentration and Deposition*, (Chapter) p.197-226, *Steam Generators: Design, Types and Applications (Book)* - Clayson Schellenberg, Nova Science Publishing, New York, Series: Energy Science, Engineering and Technology, 2017, ISBN: 978-1-53612-510-8;
2. **Tiberiu Meleg, Maria Mihalache, Mariea Deaconu** - *Contribuții la studiul cineticii de oxidare la temperatură înalte a aliajului Zircaloy-4* - ISBN 978-606-94469-0-4;
3. **Vasile Radu** - *Stochastic Modeling of Thermal Fatigue Crack Growth (reedidată ca eBook)* - Springer International Publishing Switzerland 2015/2016, Seria: Applied Condition Monitoring, Volume 1, ISBN 978-3-319-12876-4 ISBN 978-3-319-12877-1 (eBook) DOI 10.1007/978-3-319-12877-1, Library of Congress Control Number: 2014953916;