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2. Anabella Tudora, **Iuliana Visan**, Georgiana Giubega - *Comparing Different Energy Partitions at Scission used in Prompt Emission Model Codes GEF and Point-by-Point* - Nuclear Physics A, Vol.940, pg.242-263, ISSN: 0375-9474, 2015
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73. **Daniela Diaconu, M. Constantin, G. Grasso, F.Di Gabriele** - *ARCADIA Project Contribution To The Regional Cooperation On LFR Technology Development* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
74. **Paula Cârlan, Dinu Alice, Grigore Bucșă, Stănculescu Mădălina, Paraschiv Irina, Ion Voica, Stelian Marcel Radu** - *Analyses of Concrete Behaviour from Cernavodă NPP Spent Fuel Pools in a Fukushima Type Event* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
75. **Iulia Dumitrescu, Maria Mihalache** - *Chemical characterization of the aqueous media typical for the secondary circuit of a CANDU NPP by ICP MS* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
76. **Dumitra Lucan, Lucian Velciu** - *Laboratory Testing Concerning the Influence of the Water Chemistry on the Steam Generator Tubesheet Corrosion* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
77. **Marin Constantin** - *Investigation on Mental Models in Romania* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
78. M. Frignani, A. Alemberti, G. Villabruna, G. Grasso, P. Agostini, M. Tarantino, **Marin Constantin, Ilie Turcu, Daniela Diaconu, F. Di Gabriele, N. Witzanyova, M. Krykova** - *The Steps Toward ALFRED Implementation* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
79. **Virgil Cojocaru, Ilie Prisecaru** - *Magnetohydrodynamic pump with the permanent magnets experimental model* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
80. **Dumitru Puiu, Tiberiu Gyongyosi, Elena Dinu, Gh. Deloreanu** - *The Measurement of the Compression Modulus for the Non-Destructive Power Cable Ageing Evaluation Portable Equipment* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
81. **Cezar Doca, Constantin Păunoiu** - *Automatic Detection of the Common and Non-Common Frequencies in Congruent Discrete Spectra - A Theoretical Approach* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
82. **Tiberiu Gyongyoși, Șerban Valeca, Bogdan Corbescu, Dumitru Puiu, Valeriu Nicolae Panaitescu** - *Demineralized Water Flow Cancelling Experiments with Ice Plug into High Diameter Horizontal Tube (300 Nominal Diameter)* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
83. **Daniela Diaconu, Marin Constantin, G. Grasso, F.Di Gabriele, L. Cjzeli, P. Groudev, I.Ivanov, I.Tiselj, N.Zeleznik** - *ARCADIA Project contribution to the regional cooperation on LFR technology development* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
84. **Ionescu Silviu, Mincu Marin, Man Ion, Dinu Laurentiu, Prisecaru Ilie** - *Fracture Mechanics Tests on CANDU Pressure Tubes* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
85. **L.C. Dinu, O. Sima** - *The influence of the coincidence-summing effects on the gamma measurement of Mo-99 in liquid samples* - International Symposium on Nuclear Energy (SIEN 2015) - “Nuclear power-part of a sustainable national energy mix”, 19-21 October 2015, Bucharest, Romania
86. **Gabriela Radu, Ilie Prisecaru** - *Simulations of hydrogen deflagration with the ASTEC code* - CIEM 2015 – The 7th International Conference on Energy and Environment, ISSN 2067-0893, 22-23 october, 2015, Iasi, Romania

87. **Gabriel Ghita**, Ilie Prisecaru - *Non uniform magnetic field and liquid metal interaction, magneto hydro dynamic modeling* - CIEM 2015 – The 7th International Conference on Energy and Environment, ISSN 2067-0893, 22-23 october, 2015, Iasi, Romania
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89. **Virgil Cojocaru** - *LECOTELO – Instalație pentru testarea materialelor de structură la coroziune/eroziune în plumb topit. Prezentare și realizare* - CIEM 2015 – The 7th International Conference on Energy and Environment, ISSN 2067-0893, 22-23 october, 2015, Iasi, Romania
90. **Vasile Radu** - *Manuscript Number ANR-D-15-00005, Title Irradiation effects on Zr-2.5Nb in power reactors* - AECL Nuclear Review, 2015
91. G. Pintilei, M. Abrudeanu C. Munteanu, I.V. Crasmaru, M. Vladu, **Iustin Popa** - *The adherence of Al<sub>2</sub>O<sub>3</sub> coatings deposited by atmospheric plasma spraying and plasma electrolytic oxidation on an aluminum alloy base material* - TEHNOMUS Journal, No.22, pg. 452-456, **2015**, ISSN, ISSN-L: 1224-029X
92. Bogdan Corbescu, **Tiberiu Gyongyoși, Dumitru Puiu**, V.N. Panaitescu - *The convenience of visualizing the controlled formation of ice plugs in horizontal pipe/line section* - Știință și inginerie, Vol.28/2015, ISSN 2067-7138, Ed. Agir, București, 2015
93. **Cezar Doca, Constantin Păunoiu** - *Automatic Detection of the Common and Non-Common Frequencies in Congruent Discrete Spectra - A Theoretical Approach* - Annals of the Academy of Romanian Scientists, Series on Engineering Sciences, ISSN 2066-8570, Volume 7, Number 1/2015, pag.93-104, Bucharesti.

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

1. **Vasile Radu** - *Probabilistic fracture mechanics applied for LBB case study: International benchmark* - Journal of Nuclear Research and Development - JNRD, No. 10, ISSN 2247 - 191X, ISSN-L 2247 - 191X, December 2015
2. **Alice Dinu, M. Mincu, Mădălina Stanciulescu, Diana Diniși** - *Characterization of corrosion deposits on components of CANDU steam generator* - Journal of Nuclear Research and Development - JNRD, No. 10, ISSN 2247 - 191X, ISSN-L 2247 - 191X, December 2015
3. **C. Dulama, R. Dobrin, Al. Toma, M. Valeca** - *Simultaneous Determination of Total Alpha and Beta Activity by Liquid Scintillation Spectrometry* - Journal of Nuclear Research and Development - JNRD, No. 9, pg. 3-6, ISSN 2247 - 191X, ISSN-L 2247 - 191X, May 2015
4. **Mariea Deaconu, Tiberiu Meleg, I. Ciuca, M. Abrudeanu, A. Dinu** - *Non-isothermal decomposition of Titanium hydride powder in air* - Journal of Nuclear Research and Development - JNRD, No. 9, pg. 45-48, ISSN 2247 - 191X, ISSN-L 2247 - 191X, May 2015
5. **P. Carlan, A. Dinu, G. Bucsa, M. Stanciulescu** - *Simulation of a Fukushima - Type Event in Spent Fuel Pools from Cernavoda NPP* - Journal of Nuclear Research and Development - JNRD, No. 9, pg. 34-44, ISSN 2247 - 191X, ISSN-L 2247 - 191X, May 2015
6. **Doina Stefanescu, Maria Mihalache, Daniel Petrescu** - *Effective Use Of Corrosion Inhibitors In Concrete Reinforcement* - Journal of Nuclear Research and Development - JNRD, No. 9, pg. 49-55, ISSN 2247 - 191X, ISSN-L 2247 - 191X, May 2015
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8. **Cristina Alice Margeanu, Minodora Apostol, Iuliana Visan, Iosif Prodea** - *Evaluation of the Nuclear Power Development Scenarios in Romania envisaging the Long-Term National Energy Sustainability* - Journal of Nuclear Research and Development - JNRD, No. 10, ISSN 2247 - 191X, ISSN-L 2247 - 191X, December 2015
9. **Iuliana Visan**, Georgiana Giubega, Anabella Tudora - *Preliminary Results of Total Kinetic Energy Modelling for Neutron-Induced Fission* - Journal of Nuclear Research and Development - JNRD, No. 10, ISSN 2247 - 191X, ISSN-L 2247 - 191X, December 2015
10. **Mihaela R. Roman, Dragos Ionescu, Adriana Paraschiv, Gheorghe Olteanu** - *Analysis of CANDU Fuel Element Behaviour in LOCA Test* - Journal of Nuclear Research and Development - JNRD, No. 10, ISSN 2247 - 191X, ISSN-L 2247 - 191X, December 2015
11. **Alexandru Catana, Eduard Pauna, Mircea Ioan** - *Computational Fluid Dynamics Analysis for Flow Accelerated Corrosion in CANDU6 Feeder Pipes* - Journal of Nuclear Research and Development - JNRD, No. 9, pg.7-15, ISSN 2247 - 191X, ISSN-L 2247 - 191X, May 2015.

## Comunicări științifice prezentate la conferințe cu participare internațională

1. **Marin Constantin, Daniela Diaconu**, F. Di Gabriele, G. Grasso - *Societal Aspects Approached by ARCADIA Project related to the ALFRED Demonstrator* - International Conference SENIX 2015, Stockholm, Suedia, 2015;
2. **Marin Constantin** - *Crisis Communication vs. Everyday Communication* - International Conference RICOMET2015, Brdo, Slovenia, 2015;
3. N. Zeleznik, **Marin Constantin**, N.Schneider, C. Mays, G.Zakrewska, **Daniela Diaconu** - *Mental Model Research in Slovenia, Poland, France, and Romania* - International Conference RICOMET2015, Brdo,Slovenia, 2015;
4. **Daniela Diaconu, Marin Constantin**, G. Pavel, M. Kralj, I. Daris, R. Istenic, G. Zakrewska - *Public Perception on Education and Information about Ionizing Radiation Across the Europe Union* - International Conference RICOMET2015, Brdo,Slovenia, 2015;
5. **Daniela Diaconu, Marin Constantin**, N. Zeleznik, C.Mays - *Recipients of the Information: Informed Decision Making Process Related to Ionizing radiation* - International Conference RICOMET 2015, Brdo, Slovenia, 2015;
6. T. Perko, **Daniela Diaconu**, N. Zeleznik , C. Mays, G. Zakrewska, I. Daris, M. Marega, R. Istnic, J. Valuch, P. Lammers, C. Condi, B. Koron, C. Turcanu, **Marin Constantin**, M.H. El Jammal, F. Rollinger, G. Pavel, N. Schneider, G. Meskens, E. Van Roey - *EAGLE Findings related to communication and stakeholder involmment in nuclear and radiological emergencies* - International Conference RICOMET2015, Brdo,Slovenia, 2015;
7. **Roxana M. Roman, Dragos Ionescu, Gheorghe Olteanu, Adrieana Paraschiv** - *Analysis of CANDU fuel element behaviour in LOCA test* - International Conference TRANSURANUS Karlsruhe, Germania, 2015;
8. **Gheorghe Olteanu, Adrieana Paraschiv, Dragos Ionescu, Roxana M. Roman** - *PHWR Fuel safety - Strategy and Path Forward* - IAEA Workshop „Securitatea Comb. de tip PHWR”, Ottawa, Canada, 2015;
9. **Cristina Alice Margeanu** - *Through Collaboration step towards Sustainable Nuclear Energy Systems - Technology Users' Perspective* - 11<sup>th</sup> INPRO Dialogue Forum “ Roadmaps for a transition to globally sustainable Nuclear Energy Systems”, IAEA, Austria, 2015;
10. T. Isaacs, A. Newman, **Alina Constantin** - *Developing Regional Spent Fuel Strategies* - Proceedings of the International Conference on Management of Spent Fuel from Nuclear Power Reactors - An Integrated Approach to the Back-End of the Fuel Cycle, 15 – 19 June 2015, Vienna;
11. **Daniela Diaconu** - *Recipients Of The Information: Informed Decision Making Process Related To Ionizing* - RICOMET 2015 - International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation, 15th-17th June 2015 - Brdo Castle, Slovenia;
12. **Daniela Diaconu** - *Eagle Findings Related To Communication And Stakeholder Involvement In Nuclear And Radiological Emergencies* - RICOMET 2015 - International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation, 15<sup>th</sup>-17<sup>th</sup> June 2015 - Brdo Castle, Slovenia;
13. **Daniela Diaconu, M. Constantin**, Gabriel Pavel ,Metka Kralj, Irena Daris, Radko Istenič, Grazyna Zakrzewska - *Public Perception On Education And Information About The Ionizing Radiation Across The EU* - RICOMET 2015 - International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation, 15th-17th June 2015 - Brdo Castle, Slovenia;
14. Grazyna Zakrzewska, Irena Daris, **Daniela Diaconu**, Claire Mays - *Results Of Discussions With Journalists From Poland, Slovenia, Romania And France Reporting About Ionizing Radiation* - RICOMET 2015 - International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation, 15th-17th June 2015 - Brdo Castle, Slovenia;
15. Nadja Železnik, **M. Constantin**, Nina Schneider, Claire Mays· Grazyna Zakrzewska, **Daniela Diaconu** - *Presentation Of Mental Model Research In Slovenia, Poland, France And Romania* - RICOMET 2015 - International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation, 15<sup>th</sup>-17<sup>th</sup> June 2015 - Brdo Castle, Slovenia;
16. Metka Kralj , Irena Daris, Nadja Železnik Milena Marega, Radko Istenič, **Daniela Diaconu**, Grazyna Zakrzewska - *What Do Institutions Which Take Advantage Of Ionizing Radiation Want To Tell The Public* - RICOMET 2015 - International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation, 15<sup>th</sup>-17<sup>th</sup> June 2015 - Brdo Castle, Slovenia;
17. **Daniela Diaconu**, Kay Birdsell, **C. Bucur, Alina Constantin**, Cristina Dobrinou - *FEHM Simulations Of Non-Steady Flow And Transport In The Vadose Zone Of The Saligny Site (Romania)* - MIGRATION 2015 - 15<sup>th</sup> International Conference on the Chemistry and Migration Behaviour of Actinides and Fission Products in the Geosphere, September 13-18, 2015, Santa Fe NM, USA;
18. **Iulia Dumitrescu, Maria Mihalache, Tiberiu Meleg** - *Kinetic aspects of UO<sub>2</sub> oxidation in air-argon mixtures* - RICCE 19 - 19<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015, Sibiu-Romania, ISSN 2344-1895;
19. **Mariea Deaconu, Tiberiu Meleg** - *The study on hydrogen absorption properties of u-zr compounds prepared by powder metallurgy* - Workshop “Tritium Management” INC-DTCI-ICSI Rm Valcea, 25 sept.2015;

20. **Dumitra Lucan, Lucian Velciu, Ghe. Jinescu** - *The Synergistic Effect of the Impurities on the CANDU Steam Generator Corrosion* - RICCCE 19 - .The 19- th Romanian International Conference on Chemistry and Chemical Engineering, September 02-05, 2015, Sibiu, Romania, ISBN 973-652-833-2;
21. **A. Stan, Alice Dinu** - *Comportarea la coroziune fisurantă sub sarcină în mediu caustic a tuburilor generatorilor de abur ai unei centrale nucleare-electrice CANDU* - Conferința Științifică de Cercetare Dezvoltare cu participare internațională "Cunoașterea pentru dezvoltarea sistemelor de energie regenerabilă", Ediția I, Pitești, 27-28martie, 2015;
22. **Marin Dinca** - *Examination of an ancient thracian spear fragment with neutrons and X-rays* - International Conference "Condensed Matter Research at the IBR-2", 11-15 October 2015, Dubna, Moscow region, Russia;
23. **M.Mincu, R. Marinescu** - *Determination of Hydrogen Concentration In Zirconium Alloys by Differential Scanning Calorimetry (DSC)* - The 52<sup>nd</sup> Hot laboratories and remote handling – HOTLAB, conference 2015 : Leuven, Belgium;
24. **Popescu Oana** - *Refuelling Simulator – ROM 0007* - Workshop IAEA CANDU Energy Mississauga, Ontario-Canada – 2015;
25. **B. Corbescu, T.Gyongyoși, D. Puiu, V.N. Panaitescu** - *The convenience of visualizing the controlled formation of ice plugs in horizontal pipe/line section* - A XV-a Conferință internațională multidisciplinară „Profesorul Dorin Pavel – fondatorul hidroenergeticii românești”, Sebeș – Alba, Iunie 2015;
26. **I. Man, S. Ionescu, M. Mincu** - *Preparation of C-Shaped Samples Out of Irradiated CANDU Pressure Tube for Mechanical Tests using the Numerical Controlled Milling Machine* - The 52<sup>nd</sup> Hot laboratories and remote handling – HOTLAB, conference 2015 : Leuven, Belgium;
27. **A. Ivan, P. Busuioc, St. Dulugeac** - *Evaluation of the Gass Trap Assembly Used in the Acid Dissolving Process of the LEU Target* - Workshop on the Signatures of Medical and Industrial Isotope Production (WOSMIP) 2015, Brussels, Belgium, May 12-14, 2015;
28. **S. Ionescu** - *Remote Controlled Robot for Visual Inspection of Rolled Joint Area of the Pressure and CALANDRIA Tubes* - “Regional Workshop on Risk Informed In-Service Inspection and Non-Destructive Examination Techniques”, 20-23 octombrie 2015, Zagreb, Croatia;
29. **O. Ichim** - *Fire Protection Issues in the Hot Cell in the Nuclear Facility* - „Technical Meeting on Fire Protection Approaches and Experiences of Nuclear Power Plant” organizata de AIEA la sediul central din Viena in perioada 27-29 Mai 2015;
30. **E. Coaca, V. Andrei, I. Ionita, G. Torok, G. Bokuchava, M. Patrascu, V. Malinovski** - *Characterization of microstructures and microcomposition developed on 316L and 304L steels by Plasma Electrolysis Processing to develop ceramic – like aluminum oxide coatings* - European Conference on Application of Surface and Interface Analysis – ECASIA 2015, 28 Sept – 01 Oct. 2015, Granada, Spain;
31. **V. Andrei, M. Mihalache, V. Malinovski, E. Coacă, M. Mincă, G. Oncioiu** - *Ceramic-like aluminium oxide coating deposition on austenitic stainless steels by Plasma Electrolytic Oxidation* - European Conference on Application of Surface and Interface Analysis – ECASIA 2015, 28 Sept – 01 Oct. 2015, Granada, Spain.
32. **Daniela Mladin, Mirea Mladin** - *Contributions to probabilistic safety assessment studies for TRIGA research reactors* - Conference Proceedings (Poster) - RRFM2015 Transactions European Research Reactor Conference, 19 -23 Aprilie 2015, Bucuresti, Romania, ISBN 978-92-95064-23-2, pag. 113 - 122;
33. **Mirea Mladin, Stefan Dulugeac, Georgiana Budriman, Marin Ciocanescu, Dumitru Barbos** - *Investigating the setup for irradiation of material samples in TRIGA Romania* - Conference Proceedings (Poster) - RRFM2015 Transactions European Research Reactor Conference, 19 -23 Aprilie 2015, Bucuresti, Romania, ISBN 978-92-95064-23-2, pag. 123 - 128;
34. **Stefan Dulugeac, Mirea Mladin, Georgiana Budriman** - *Study of Molybdenum-99 production possibilities in TRIGA 14 MW reactor* - Conference Proceedings (Poster) - RRFM2015 Transactions European Research Reactor Conference, 19 -23 Aprilie 2015, Bucuresti, Romania, ISBN 978-92-95064-23-2, pag. 129 – 138;
35. **A. Alemberti, M. Frignani, P. Agostini, G. Grasso, Ilie Turcu, Marin Constantin, G. Villabruna, M. Tarantino, F. Di Gabriele, N. Witzanyova, M. Krykova** - *ALFRED and the Lead Technology Research Infrastructure* – Conference Proceedings (Oral Presentations) - RRFM2015 Transactions European Research Reactor Conference, 19 -23 Aprilie 2015, Bucuresti, Romania, ISBN 978-92-95064-23-2, pag. 29 – 38.



## CĂRȚI DE SPECILALITATE SAU CAPITOLE DE CARTE PUBLICATE ÎN ANUL 2015

1. **Minodora Apostol** - *Accidente severe – Formarea termenului sursa si incertitudini asociate* - Editura Universitatii din Pitesti, ISBN: 978-606-560-465-0, Romania, 2015;
2. **Radu Vasile** - *Stochastic Modeling of Thermal Fatigue Crack Growth* - Editura: Springer International Publishing Switzerland 2015, 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;
3. **Maria Roth, Alexandru Nițu, L. Aioanei** - *IAEA-TECDOC-1781 “Evaluation of Conditions for Hydrogen Induced Degradation of Zirconium Alloys during Fuel Operation and Storage, Final Report of a Coordinated Research (Evaluarea conditiilor de degradare indusa de hydrogen, a aliajelor de zirconiu pe durata de operare si stocare a combustibilului)”* – International Atomic Energy Agency, ISBN 978-92-0-110715-2, ISSN 1011-4289, 2015;
4. **Marin Dinca, Dragos Mandescu** - *Thermal neutron tomography for cultural heritage at INR* - Physics Procedia Volume 69 (2015) pg 646-652, PRINTED BY Curron Associates, INC 2015, ISBN: 978-1-5108-1364-9.