

		
Europass Curriculum Vitae		
Personal information		
First name(s) / Surname(s)	Dan MIHAILESCU	
Address(es)	Bd. Carol I nr. 11, Iasi, 700506, Romania	
Telephone(s)	+40-232-201202	Mobile:
Fax(es)	+40-232-201151	
E-mail	dmihail@uaic.ro	
Nationality	Romanian	
Date of birth	24.11.1966	
Gender	Male	
Present employment / position	Alexandru Ioan Cuza University of Iasi / lecturer	
Work experience		
Dates	1998 - to date	
Occupation or position held	Lecturer	
Name and address of employer	Alexandru Ioan Cuza University of Iasi, Bd. Carol I nr. 11, 700506, Iasi, Romania	
Type of business or sector	Education & Research	
Dates	1992 - 1998	
Occupation or position held	Teaching assistant	
Name and address of employer	Alexandru Ioan Cuza University of Iasi, Bd. Carol I nr. 11, 700506, Iasi, Romania	
Type of business or sector	Education & Research	
Dates	September 1991 – February 992	
Occupation or position held	Professor of Physics	
Name and address of employer	Primary School Todiresti, Iasi county	
Type of business or sector	Education	
Education		
Dates	1994 - 2000	
Title of qualification awarded	Ph. D.	
Principal subjects/occupational skills covered	Nuclear and Particle Physics	
Name and type of organisation providing education and training	Alexandru Ioan Cuza University of Iasi, Romania, educational	
Dates	1986-1991	
Title of qualification awarded	B. Sc.	

Principal subjects/occupational skills covered	Physics
Name and type of organisation providing education and training	Alexandru Ioan Cuza University of Iasi, Romania, educational
Dates	1981 - 1985
Title of qualification awarded	High school diploma
Principal subjects/occupational skills covered	Aeronautics
Name and type of organisation providing education and training	"Henry Coanda" National College Bacau
Training	
Dates	March, April 2011
Title of qualification awarded	Certificate of attendance: <i>Training Courses in Risk Analysis</i>
Principal subjects/occupational skills covered	Theory of Risk Analysis, Reactor safety, Nuclear risk
Name and type of organisation providing education and training	University "La Sapienza" Rome, Italy & "Al. I. Cuza" University
Dates	12 th November – 14 th November 2010
Title of qualification awarded	Certificate of attendance: <i>The II International Workshop of the Romanian Society of Hadrontherapy</i> , Sibiu, Romania
Principal subjects/occupational skills covered	Hadrontherapy: accelerators, dosimetry, treatment planning, radiobiology.
Name and type of organisation providing education and training	Romanian Society of Hadrontherapy
Dates	25 th November – 5 th December 2008
Title of qualification awarded	Certificate of attendance: <i>Training Course in Luminescence Dating and Accident Dosimetry</i>
Principal subjects/occupational skills covered	Luminescence and OSL Dating, Installation and use of Riso TL/OSL Reader, Dose estimation, Age determination, Dating of sediments, Accident dosimetry
Name and type of organisation providing education and training	The Nordic Centre for Luminescence Research, Riso National Laboratory, Roskilde, Denmark
Dates	November 2008
Title of qualification awarded	Certificate of attendance: " <i>Radioprotection in diagnostic and interventional radiology</i> " a course of continuing education under the patronage of the National Commission for Nuclear Activities Control
Principal subjects/occupational skills covered	Radioprotection
Name and type of organisation providing education and training	S.C. Micro Rad X Ray, Iasi
Dates	October 2007
Title of qualification awarded	Certificate of attendance: <i>Nuclear Science Training Course with Nucleonica</i> , Karlsruhe, Germany
Principal subjects/occupational skills covered	Nuclear Physics and Applications
Name and type of organisation providing education and training	European Commission/Institute for Transuranium Elements, Karlsruhe, Germany

Dates	3th – 14 th July 2006									
Title of qualification awarded	Certificate of attendance: Summer School “Physico-Chimie de l’Atmosphère: des expériences de laboratoire aux campagnes de terrain”									
Principal subjects/occupational skills covered	Physical and chemical processes involved in the study of the atmosphere.									
Name and type of organisation providing education and training	“Al. I. Cuza” University of Iasi & Lille University of Science and Technology									
Dates	October 2003 - October 2004									
Title of qualification awarded	<i>Training and research fellowship in the frame of the fellowship program TRIL (Training and Research in Italian Laboratories)</i>									
Principal subjects/occupational skills covered	Linear accelerators, Clinical Dosimetry, Monte-Carlo techniques for ionizing radiations transport									
Name and type of organisation providing education and training	National Institute for Ionizing Radiations Metrology in Rome, sponsored by ICTP Trieste, Italy									
Dates	February – September 2001									
Title of qualification awarded	Diploma: Postgraduate Courses “Utilization of radioactive isotopes”									
Principal subjects/occupational skills covered	Ionizing radiation sources, Ionizing radiation interactions, dosimetry, radiobiology, radioprotection									
Name and type of organisation providing education and training	University of Bucharest									
Dates	19 th April – 14 th May 2001									
Title of qualification awarded	Certificate of attendance: Romanian – French Seminary in Clinical Dosimetry, of Iasi									
Principal subjects/occupational skills covered	Clinical dosimetry									
Name and type of organisation providing education and training	“Al. I. Cuza” University & French universities/hospitals									
Dates	August 1993 and August 1995									
Title of qualification awarded	The International Summer School in Nuclear Physics, Predeal, Romania									
Principal subjects/occupational skills covered	Nuclear Physics: Theory and Applications									
Name and type of organisation providing education and training	National Institute of Physics and Nuclear Engineering, Magurele – Bucharest									
Mother tongue(s)	Romanian									
English										
Self-assessment	Understanding			Speaking			Writing			
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
	C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user	C1	Proficient user
Italian Self-assessment	Understanding			Speaking			Writing			
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

Personal skills and competences	Computer skills and abilities on Operating systems: linux and windows Software Applications: Monte Carlo codes for radiation transport, radiation beam simulations and dose calculations (EGSnr, BEAMnrc, DOSXYZnrc, etc), Office, etc.
Organisational skills and competences	Collaborations with: Joint Institute for Nuclear Research (JINR) Dubna, Russian Federation University of Turin, Italy, ERASMUS Program (since 2008) National Institute for Ionizing Radiations Metrology in Rome, Italy (since 2003) National Institute of Physics and Nuclear Engineering, Magurele – Bucharest (since 1993) “Sf. Spiridon” University Hospital, Iasi (since 1996) Member of Scientific Societies: Romanian Physical Society Romanian Society of Hadrontherapy Romanian Society for Radiological Protection
Professional skills and competences	Teaching activities Radiation Dosimetry, Detectors, Radioprotection, Clinical Dosimetry, Nuclear Physics, Radioactive Pollution, Nuclear risk (courses, seminars, practical works) 2 courses published, 2 courses translated from Italian Scientific research activity a) Ionizing radiation dosimetry/Monte Carlo techniques/15 papers, 1 book b) nuclear and particle physics/14 papers c) radiobiology/9 papers d) 10 scientific grants (as director or responsible); member in 6 scientific grants e) 21 International Conferences f) 26 National Conferences g) 134 citations; h-index = 7; i10-index = 7 h) Reviewer for: Physica Medica, Romanian Reports in Physics
Additional information	- Invited professor at the University of Turin, Italy, in 2009 and 2011 in the frame of Erasmus-Socrates program. - Invited for a series of seminars at National Institute for Ionizing Radiations Metrology in Rome, Italy (in 2006)
Appendices	Please attach a selection of journal papers, books, research grants, brevets, etc. relevant for the master program(s) under assessment

APPENDIX

Papers

- [1] . **D. Mihailescu**, C. Borcia, “*Electron Dose Distributions in Inhomogeneous Phantoms: A Monte Carlo Study*”, Rom. Rep. Phys. **70** (2018) p. 603
- [2] **D. Mihailescu**, C. Borcia, “*Monte Carlo simulation of the electron beams produced by a linear accelerator for intra-operative radiation therapy*”, Rom. Rep. Phys. **66** No.1 (2014) p. 61 - 74.
- [3] C. Borcia, M.C. Teodor, Mihaela Oprea, L. Gorgan, **D. Mihailescu**, “*In vitro study of radiation-induced DNA damage*” Rom. Rep. **66** No.1 (2014) p. 16-21.
- [4] M. Oprea, **D. Mihailescu**, C. Borcia “*Monte Carlo evaluation of water equivalency of some plastic materials for realistic electron IORT beams*” Journal of Physics: Conference Series 398 (2012) 012040.

- [5] M. Oprea, C. Constantin, D. Mihailescu, C. Borcia "A Monte Carlo investigation of the influence of initial electron beam characteristics on the absorbed dose distributions obtained with a 9 MeV IORT accelerator" U.P.B. Sci. Bull., Series A, Vol. 74, Iss. 4, 2012 pp. 153-166.
- [6] **D. Mihailescu**, C. Borcia, "Biophysical models in hadrontherapy" Journal of Advanced Research in Physics 3(1), 011210 (2012).
- [7] **D. Mihailescu**, C. Borcia, "Theoretical models of radiation-induced cell inactivation of interest in radiation risk assessment", International Journal of Risk Theory, 2, 2011; pp 32-52.
- [8] C. Borcia, M. C. Teodor, L. Gorgan, M. Dulcescu, **D. Mihailescu** „Risk assessment of in-vitro cell exposure to low-LET radiations" International Journal of Risk Theory, 1, 2011; pp 68-75.
- [9] **D. Mihailescu**, A. Naviglio, "Principiile de bază ale siguranței instalațiilor nucleare", Teoria Riscurilor si Aplicatii, 2, 2011.
- [10] M. Frullini, M. Gagea, **D. Mihailescu**, "Siguranta in intreprinderile cu risc inalt de accidente", Teoria Riscurilor si Aplicatii, 2, 2011.
- [11] C. Ionita, **D. Mihailescu**, D. Radu "One dimensional modeling of thermal gradients in the core of a primary standard calorimeter for absorbed dose measurements", Analele Universitatii „Al. I. Cuza" Iasi, Tomul V, 2009.
- [12] C. Borcia, **D. Mihailescu**, "Are Water-Equivalent Materials Used in Electron Beams Dosimetry Really Water Equivalent?", Rom. J. Phys. 53 No. 7-8, 2008 pp. 851 – 863.
- [13] D. Mihăilescu, C. Munteanu, C. Aniculăesei, **L. Velicu**, Backscattering Coefficients For 8-32 KeV Electrons: A Monte Carlo Investigation, Annals of West University, Timișoara, Physics Series 25 (2008).
- [14] M. Pimpinella, **D. Mihailescu**, A. S. Guerra, R. F. Laitano, "Dosimetric characteristics of electron beams produced by a mobile accelerator for IORT", Phys. Med. Biol. 2007, 52(20) pp. 6197-6214. (IF = 2.528)
- [15] **D. Mihailescu**, C. Borcia, „Current and future trends in PET instrumentation" Analele Universitatii „Al. I. Cuza" Iasi, Tomul III, 2007.
- [16] **D. Mihailescu**, C. D. Nechifor, M. Straticiuc, M. Bercea, "Cross sections and protons optimum energy ranges for some medical radioisotopes production" Analele Universitatii „Al. I. Cuza" Iasi, Tomul III, 2007.
- [17] **D. Mihailescu**, M. Pimpinella, A.S. Guerra, R.F. Laitano, "Monte Carlo calculation of stopping-power ratios for clinical electron beams produced by a LINAC for IORT", Romanian Journal of Physics., 51 Nos 5 – 6 (2006) 547.
- [18] **D. Mihailescu**, M. Pimpinella, A.S. Guerra, R.F. Laitano, "Comparison of measured and Monte Carlo calculated dose distributions for the NOVAC7® linear accelerator" Romanian Journal of Physics, 51 Nos 7 – 8 (2006) 731.
- [19] **D. Mihailescu**, C. Borcia, "Water equivalency of some plastic materials used in electron dosimetry: a Monte Carlo investigation", Romanian Reports in Physics, 58 No 4 (2006) 413.
- [20] E. L. Foca-nici, C. Borcia, **D. Mihailescu**, G. Stoian, D.E. Creanga, Z. Olteanu, „Experimental and computational investigation on the low dose radiation absorption in some living tissues", Romanian Reports in Physics, 58 No 4 (2006) 559.
- [21] **D. Mihailescu**, „Monte Carlo calculation of depth-dose distributions, dose components and output factors for degraded electron beams produced by an IORT accelerator", Analele Universitatii „Al. I. Cuza" Iasi, Tomul II, 2006.
- [22] **D. Mihailescu**, "Characteristics of degraded electron beams produced by NOVAC7 IORT accelerator", Analele Universitatii „Al. I. Cuza" Iasi, Tomul II, 2006.
- [23] P. Tupu, D. Creanga, P. Gasner, M. Fantanariu, O. Avadanei, Al. Vlahovici, M. Racuciu, G. Matei, C. Borcia, **D. Mihailescu**, "Radiofrequency radiation influence on nucleic acids from animal blood cells", Analele Universitatii „Al. I. Cuza" Iasi, Tomul II, 2006.
- [24] E. Foca-nici, C. Borcia, **D. Mihailescu**, D. Creanga, "Experimental and computational investigation on the low dose radiation absorption in some living tissues", Analele Universitatii „Al. I. Cuza" Iasi, Tomul I (2005) 51.
- [25] D. Creanga, E. Foca-nici, C. Borcia, **D. Mihailescu**, "Monte-Carlo Simulation of Radiation Absorption in Living Tissues", Rev. Med.-Chir. Soc. Med. Nat. Iasi, Vol. 109, Supliment nr. 1, pp. 127-128, Mai 2005.
- [26] I.A. Creanga, A.A. Arteni, C. Mocanasu, D.E. Creanga, **D. Mihailescu**, "Gamma radiations effects on catalase and assimilatory pigments in false acacia seedlings grown in forestry nursery", Romanian Biotechnological Letters 7(5), 25-30, 2002.

- [27] I.A. Creanga, A.A. Arteni, C. Mocanasu Peroxidase, M. Mihasan, A. Constantinescu, V. Saiz, V. Artenie, **D. Mihăilescu**, D.E. Creanga, "Catalase and assimilatory pigments in *Robinia pseudoacacia* seedlings exposed to gamma radiation", *Lucrari stiintifice de horticultura*, **XLV** (2002) pp. 87-90,
- [28] **D. Mihăilescu** and D. Radu, "Parity Nonconservation in Nuclei", "The IX Conferences on Theoretical Physics, General Relativity and Gravitation", Iași, 24 - 26 Mai 1999, publicat în "Analele Universității de Vest din Timișoara" (Vol.4 No. 1, 36 (2001).
- [29] **D. Mihăilescu** and D. Radu, "Search for Neutral Currents in Low Energy Physics Processes", "The IX – Conferences on Theoretical Physics, General Relativity and Gravitation", Iași, 24 - 26 Mai 1999 publicat în "Analele Universității de Vest din Timișoara" (Vol.4 No. 1, 46 (2001).
- [30] **D. Mihăilescu**, D. Radu, O. Dumitrescu, "Neutral Currents in ^{14}N – Nucleus", *Acta Physica Polonica B*, **32**, No. 7 - 8 (2001) 2231 – 2251.
- [31] **D. Mihăilescu**, S. Popescu, I. Bulboacă and O. Dumitrescu, "Parity Nonconservation in ^6Li ", *Journal of Physics G: Nuclear and Particle Physics* (U.K.), **26**, No.6 (2000) 811 – 824.
- [32] **D. Mihăilescu**, D. Radu, "Search for Parity Nonconservation in ^{10}B – Nucleus", *Acta Physica Polonica B*, **31**, No. 9 (2000) 2085 – 2096.
- [33] **D. Mihăilescu**, D. Radu, O. Dumitrescu, "Neutral Currents in ^{16}O – Nucleus", *Australian Journal of Physics*, **53**, No.6 (2000) 1 – 16.
- [34] **D. Mihăilescu**, D. Radu and O. Dumitrescu, "Parity Nonconservation in ^{10}B – Nucleus", *Rom. J. Phys.* **45** Nos 1 – 2 (2000) 57 – 68
- [35] **D. Mihăilescu**, S. Popescu, I. Bulboacă and O. Dumitrescu, "Neutral Currents in ^6Li ", *Rom. J. Phys.*, **43** Nos 1 – 2 (1998) 41
- [36] **D. Mihăilescu**, "Hipernucleele", *Revista Științifică "V. Adamachi"*, **1** (1993).
- [37] **D. Mihăilescu** and O. Dumitrescu, "Neutral Currents in ^{14}N Investigated via $^{13}\text{C}(\vec{p}, \text{p})^{13}\text{C}$ Resonance Scattering", *Rom. Rep. Phys.*, **45** Nos 9 – 10 (1993) 661.
- [38] **D. Mihăilescu**, H. Comișel and O. Dumitrescu, "Neutral Currents in ^{16}O Investigated via $^{15}\text{N}(\vec{p}, \alpha)^{15}\text{N}$ Resonance Reaction", *Rom. J. Phys.*, **39** Nos 3 – 4 (1993) 223.

International conferences:

- [1] **D. Mihăilescu**, C. Borcia - "Electron dose distributions in inhomogeneous phantoms: a Monte Carlo study" (invited talk) The 2nd International Conference of Romanian Society of Hadrontherapy (ICRSH 2016): February 25-28, 2016, Sinaia, Romania.
- [2] C. Borcia, **D. Mihăilescu**, "Depth-dose distributions of heavy charged particles of interest in hadrontherapy in tissue-like materials: a comparative study", The 2nd International Conference of Romanian Society of Hadrontherapy (ICRSH 2016): February 25-28, 2016, Sinaia, Romania.
- [3] D. Mihăilescu, "Monte Carlo Dose Calculations in Intraoperative Radiation Therapy", New Trends on Sensing - Monitoring - Telediagnosis for Life Sciences, Brașov, România, NT-SMT-LS, September 3-5, 2015.
- [4] A. Ciucă, **D. Mihăilescu**, "Chitin depolymerization: medical applications", New Trends on Sensing - Monitoring - Telediagnosis for Life Sciences, Brașov, România, NT-SMT-LS, September 3-5, 2015.
- [5] A. Ciucă, **D. Mihăilescu**, C. Borcia, I. T. Karachuk, "Study of chitin fragmentation induced by high energy deuteron beam irradiation", the 10th International Conference on Physics of Advanced Materials (ICPAM-10) , Iasi, Romania, 21.09.2014 - 27.09.2014.
- [6] B. G. Rusu, A. Ciucă, C. Borcia, **D. Mihăilescu**, "Chitin morphology modification after exposure to 2 GeV deuteron beam", the 10th International Conference on Physics of Advanced Materials (ICPAM-10) , Iasi, Romania, 21.09.2014 - 27.09.2014.
- [7] **D. Mihăilescu** - "Monte Carlo simulation of the electron beams produced by a linear accelerator for intra-operative radiation therapy" - The First International Conference of Romanian Society of Hadrontherapy (ICRSH 2013): February 21-24, 2013, Predeal, Romania (oral presentation).

- [8] D. Mihailescu, I. T. Caraciuc, V. Tura, I. Mangalagiu, A. Grigoras, S. I. Tyutyunikov, C. Borcia - "Biopolymer processing using neutron beams: experiments at JINR Dubna"- The First International Conference of Romanian Society of Hadrontherapy (ICRSRH 2013): February 21-24, 2013, Predeal, Romania (poster).
- [9] M. Oprea, D. Mihailescu, C. Borcia "Monte Carlo evaluation of water equivalency of some plastic materials for realistic electron IORT beams" (poster), The 17th International School on Condensed Matter Physics Open Problems in Condensed Matter Physics, Bio, September 02-07 Varna, Bulgaria.
- [10] D. Mihailescu, C. Borcia, "Theoretical models of radiation-induced cell inactivation of interest in radiation risk assessment" (oral presentation), International Conference on Risk Theory and Applications, October 20-22, 2011 Iași, Romania.
- [11] C. Borcia, M. C. Teodor, L. Gorgan, M. Dulcescu, D. Mihailescu „Risk assessment of in-vitro cell exposure to low-LET radiations”, International Conference on Risk Theory and Applications, October 20-22, 2011 Iași, Romania.
- [12] V. Ghizdovat, C. Borcia, D. Mihailescu, “Monte Carlo investigation of water and tissue-equivalent polymer materials used in hadrontherapy dosimetry”, 10-th International Conference on Global Research and Education, 26-29 Sept. 2011, Sucevita, Romania.
- [13] D. Mihailescu, C. Borcia, “Biophysical models in hadrontherapy” 10-th International Conference on Global Research and Education, 26-29 Sept. 2011, Sucevita, Romania.
- [14] D. Mihailescu, R. Cirio, I. Butuc, R. Panait, „Hadrontherapy: present status and future perspectives”, (invited talk) The II-nd International Workshop of The Romanian Society of Hadrontherapy HADRONTERAPY, KNOWLEDGE AND EVIDENCES November 12 - 14, 2010, Paltinis, Sibiu, Romania.
- [15] D. Mihailescu, „Absolute and relative dosimetry of proton and carbon ion beams used in hadrontherapy”, (invited talk) The II-nd International Workshop of The Romanian Society of Hadrontherapy HADRONTERAPY, KNOWLEDGE AND EVIDENCES November 12 - 14, 2010, Paltinis, Sibiu, Romania.
- [16] M. Pimpinella, D. Mihailescu, A. S. Guerra, R. F. Laitano, “Rapporti dei poteri frenanti acqua-aria per fasci di elettroni prodotti da acceleratori del tipo NOVAC 7”, V Congresso Nazionale AIFM, 17-20 Settembre 2007, Castelvecchio Pascoli (LU), Italy.
- [17] D. Mihailescu, C. Borcia, “An example of Monte Carlo simulation of DNA damages induced by ionizing radiations”, 8th International Balkan Workshop on Applied Physics, Constanta, 5 – 7 Iulie 2007.
- [18] Daniela Mihailescu, D. Mihailescu, “Monitoring of physiological signals: acquisition, pre-processing, feature extraction and applications”, 8th International Balkan Workshop on Applied Physics, Constanta, 5 – 7 Iulie 2007.
- [19] D. Mihailescu, D.G. Dimitriu, “Monte Carlo calculation of backscattering coefficients for 8 – 32 keV electrons”, 7th International Balkan Workshop on Applied Physics, Constanta, 5 – 7 Iulie 2006.
- [20] D. Mihailescu, C. Borcia, “Current and future trends in PET instrumentation”, 7th International Balkan Workshop on Applied Physics, Constanta, 5 – 7 Iulie 2006.
- [21] C. Borcia, D. Mihailescu, “Are water-equivalent materials really water equivalent?”, 7th International Balkan Workshop on Applied Physics, Constanta, 5 – 7 Iulie 2006.

National conferences:

- [1] I. Vrabii, D. Mihailescu, "Study of the formation and repair of DNA double-strand breaks in human fibroblasts after γ -irradiation", A XLV-a Conferință Națională "Fizica și Tehnologiile Educaționale Moderne" FTEM 2016, Iași, 14 mai 2016.
- [2]. I. Creanga, D. Mihailescu, "Monte Carlo Commissioning of a Linear Accelerator for Intraoperative Radiation Therapy", A XLIV-a Conferință Națională "Fizica și Tehnologiile Educaționale Moderne" FTEM 2014, Iași, 16 mai 2015, publicată în Revista Științifică "V. Adamachi".
- [3] A. Ciucă, V. Tura, D. Mihailescu, "Depolymerisation of chitin by deuteron beam irradiation", A XLIV-a Conferință Națională "Fizica și Tehnologiile Educaționale Moderne" FTEM 2014, Iași, 16 mai 2015.
- [4] D. Mihailescu, C. Borcia, "Theoretical models of radiation-induced cell inactivation used in radiobiology and radiotherapy", Conferință Națională de Biofizică, 13 - 16 iunie 2013, Iași (poster).

- [5] M. Croitoriu, A. Aparaschivei, **D. Mihailescu**, "Radiobiological evaluation of heavy ion beams for hadrontherapy", A XLII-a Conferință FTEM, Iași, octombrie 2013, publicată în Revista Științifică "V. Adamachi".
- [6] R. Zalinca, C. Matei, **D. Mihailescu**, "Patient phantoms for radiation dosimetry in nuclear medicine and radiotherapy", A XLII-a Conferință FTEM, Iași, octombrie 2013, publicată în Revista Științifică "V. Adamachi".
- [7] **D. Mihailescu**, I. T. Caraciuc, V. Tura, I. Mangalagiu, A. Grigoras, S. I. Tyutyunikov, "Biopolymers processing using ionizing radiation beams", Conferinta Nationala de Fizica CNF -2012, Constanta, Romania.
- [8] C. Darie-Urziceanu, D. Mihailescu, "Dose Reduction Methods in Diagnostic Radiology" (poster) A XLI-a Conferință FTEM, Iași, 2012, publicată în Revista Științifică "V. Adamachi".
- [9] I. Cosescu, T. M. Nastase, D. Mihailescu, "A Critical Comparison of Generation IV Nuclear Power Reactors", A XLI-a Conferință FTEM, Iași, 2012, publicată în Revista Științifică "V. Adamachi".
- [10] R. Panait, I. Butuc, C. Constantin, M. Grivole, **D. Mihailescu**, "Monte Carlo codes for use in medical radiation physics" (poster), A XXXIX Conferință FTEM, Iași, 2010, publicată în Revista Științifică "V. Adamachi".
- [11] I. Butuc, R. Panait, **D. Mihailescu**, „Hadrontherapy" (poster), A XXXIX Conferință FTEM, Iași, 2010, publicată în Revista Științifică "V. Adamachi".
- [12] C. Constantin, **D. Mihailescu**, C. Borcia „A Monte Carlo study of the influence of initial electron beam characteristics on the absorbed dose distributions for electron beams generated by a mobile IORT linear accelerator", (poster) Conferinta Nationala de Fizica, 23 – 25 septembrie 2010, Iasi, Romania.
- [13] C. Constantin, A. Cojocariu, **D. Mihailescu**, "Some examples of Monte Carlo calculation of radiation dose in internal organs using a voxelized anthropomorphic phantom", lucrare prezentată sub formă de poster la a XXXVIII Conferință FTEM, Iași, 2009, publicată în Revista Științifică "V. Adamachi".
- [14] E. A. Buca, C. Constantin, D. Mihailescu, "Mobile electron linear accelerators for Intraoperative Radiation Therapy", lucrare prezentată sub formă de poster la a XXXVIII Conferință FTEM, Iași, 2009, publicată în Revista Științifică "V. Adamachi".
- [15] R. Gutu, **D. Mihailescu**, "Fundamentals of Total Skin Electron Therapy", lucrare prezentată sub formă de poster la a XXXVII Conferință FTEM, Iași, 2008, publicată în Revista Științifică "V. Adamachi".
- [16] A. Verdes, C. Borcia, **D. Mihailescu**, "DNA damages induced by ionizing radiations: a Monte Carlo investigation", lucrare prezentată sub formă de poster la a XXXVII Conferință FTEM, Iași, 2008, publicată în Revista Științifică "V. Adamachi".
- [17] C. D. Nechifor, M. Stratciuc, M. Bercea, **D. Mihailescu**, "Cross sections and protons optimum energy ranges for ^{123}I and ^{201}Tl production" lucrare prezentată sub formă de poster la a XXXVI Conferință FTEM, Iași, 18 – 19 mai 2007, publicată în Revista Științifică "V. Adamachi".
- [18] C. D. Nechifor, **D. Mihailescu**, D. E. Creanga, "Hemolysis induced by the electromagnetic exposure to radiofrequency waves in comparison with exposure to low intensity gamma radiations", lucrare prezentată sub formă de poster la a XXXVI Conferință FTEM, Iași, 18 – 19 mai 2007.
- [19] C.D Nechifor, M.I. Petcu, **D. Mihailescu**, „Monte Carlo simulation of high energy radiation trajectories inside different materials", FTEM – Iasi, mai 2006.
- [20] C. Ciobanu, **D. Mihailescu**, "Contributions of direct and scattered electrons to the depth dose distributions: a Monte Carlo investigation for electron beams produced by an IORT accelerator" FTEM – Iasi, mai 2006.
- [21] A. Cantaragiu, D. Dimitriu, **D. Mihailescu**, "Monte Carlo calculations of water-to-air stopping power ratios for degraded electron beams" FTEM – Iasi, mai 2006.
- [22] D. Creanga, E. Foca-nici, C. Borcia, **D. Mihailescu**, "Monte-Carlo Simulation of Radiation Absorption in Living Tissues", 8th National Biophysics Conference, 2005 May 26-28, Iasi, Romania.
- [23] **D. Mihailescu**, M. Pimpinella, A.S. Guerra, R.F. Laitano, "Monte Carlo calculation of stopping-power ratios for clinical electron beams produced by a LINAC for IORT", 14th National Conference on Physics, Bucharest, 13 – 17 September 2005.
- [24] **D. Mihailescu**, M. Pimpinella, A.S. Guerra, R.F. Laitano, "Comparison of measured and Monte Carlo calculated dose distributions for the NOVAC7® linear accelerator", 14th National Conference on Physics, Bucharest, 13 – 17 September 2005.
- [25] **D. Mihailescu**, C. Borcia, "Water equivalency of some plastic materials used in electron dosimetry: a Monte Carlo investigation". 14th National Conference on Physics, Bucharest, 13 – 17 September 2005.

- [26] E. L. Foca-nici, C. Borcia, **D. Mihăilescu**, G. Stoian, D.E. Creanga, Z. Olteanu, "Experimental and computational investigation on low-dose radiation absorption in some living tissues", 14th National Conference on Physics, Bucharest, 13 – 17 September 2005.

BOOKS/Student Courses

1. **D. Mihăilescu**, C. Borcia, "Interaction of Ionizing Radiation with Matter. Part I: Charged Particles" (in Romanian) Editura Sedcom Libris, Iasi, 2007 (265 pages) ISBN 978-973-670-256-3; ISBN 978-973-670-259-4.
2. **D. Mihăilescu**, E. Lozneanu, "Practical Works in Nuclear Physics (in Romanian), Editura Universității "Al. I. Cuza", Iași, 2003 (283 pages).
3. **D. Mihăilescu**, "Ionizing Radiation Dosimetry" (in Romanian), Editura Universității "Al. I. Cuza", Iași, 2001 (283 pages).

Research grants:

a) as director:

- [1] Bilateral project „Al. I. Cuza” University of Iași – JINR Dubna (Rusia) „Chitin depolymerisation by irradiation with high-energy proton beams. Biomedical applications” în cadrul parteneriatului România – Dubna; directori: dr. D. Mihăilescu (România), dr. G. N. Timoshenko (Rusia); buget 2016: 2000 \$.
- [2] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Controlling of degradation effects induced in biopolymers by ionizing radiators” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. G. N. Timoshenko (Rusia); 2015 budget: 2000 \$.
- [3] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Processing of some biopolymers using high-LET particle beams” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. G. N. Timoshenko (Rusia); 2014 budget: 2000 \$.
- [4] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Processing of some biopolymers using neutrons and heavy charged particle beams” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. G. N. Timoshenko (Rusia); 2013 budget: 2500 \$.
- [5] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Processing of some biopolymers using particle beams at Nuclotron/NICA facility” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. G. N. Timoshenko (Rusia); 2012 budget: 500 \$.
- [6] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Theoretical study of mutagenesis induced by ionizing radiations with different physical characteristics in bacterial and higher eukaryotic cells” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. Oleg Belov (Rusia); 2011 budget: 2500 \$.
- [7] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Study of formation and repair of DNA damage in human lymphocytes induced by ionizing radiation with different linear energy transfer” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. A. V. Boreyko (Rusia); 2010 budget: 3000 \$.
- [8] Research grant „Study of formation and repair of DNA damage in human lymphocytes induced by ionizing radiation with different linear energy transfer” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. A. V. Boreyko (Rusia); 2010 budget: 7000 \$.
- [9] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Study of the impact of low radiation doses on some biological samples” in the frame of the partnership Romania - Dubna; directors: dr. D. Mihăilescu (Romania), dr. A. V. Boreyko (Rusia); 2008 budget: 3000 \$.
- [10] CEEEX grant No.19/2005 - 2008 "Researches on preventive diagnosis and reducing of ionizing radiations effects on healthy tissues", acronym RADMEDMAG, project manager: dr. Dan Mihăilescu; director: Petru Mihai Racolta (IFIN-HH, Bucharest), budget: 65250 lei.

b) as team member

- [1] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Controlled degradation of chitin and other biopolymers with biomedical applications using neutron beams” in the frame of the partnership Romania - Dubna; directors: dr. C. Borcia (Romania), dr. G. N. Timoshenko (Rusia); 2015: 1700 \$.
- [2] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Study of the depolymerisation process of selected biopolymers, induced by ionizing radiation” in the frame of the partnership Romania - Dubna; directors: dr. C. Borcia (Romania), dr. G. N. Timoshenko (Rusia); 2015: 2000 \$.
- [3] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Research on the Biological Effect of Heavy Charged Particles with Different Energies” in the frame of the partnership Romania - Dubna; directors: dr. C. Borcia (Romania), dr. G. N. Timoshenko (Rusia); budget 2014: 2000 \$.
- [4] Bilateral project „Alexandru Ioan Cuza” of Iași – JINR Dubna (Rusia) „Studies on the effects induced by heavy charged particles with different linear energy transfers on human lymphocytes” in the frame of the partnership Romania- Dubna; directors: dr. C. Borcia (Romania), dr. A. V. Boreyko (Rusia); 2010 budget: 2500 \$.
- [5] PNCDI II grant, nr.3192 /2008 – 2011, “Metode nucleare complementare celor conventionale pentru analiza si caracterizarea nanomaterialelor” acronym NUCNANO, director: dr. F. Brinza.
Grant CEEX No. 05-D11-54/2005, “Research studies on bio-electromagnetic interaction and the biological impact of human exposure to radiofrequency and microwave electromagnetic fields”, acronym BIO-EM-RF, director prof. dr. Dorina-Emilia Creanga.

Date:

22.02.2022

Signature: Lect. dr. D. Mihailescu