



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **GALERIU Dan Calin Constantin**

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Nationality Romanian

Date of birth 01.12.1947

Gender Male

**Occupational field** **Radiation protection, Radioecology, Life and Environmental Physics,  
Environmental Modelling for Radiation Safety, Nuclear Physics**

### Work experience

Dates April 1990 onwards

Occupation or position held Senior researcher/ project manager

Main activities and responsibilities Radiation protection, nuclear risk assessment, radioecology, Environmental modelling for radiation safety

Name and address of employer Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH)  
407 Atomistilor Str., 077125 Magurele, jud. Ilfov, Romania

Type of business or sector Scientific research

Dates April-June 2005

Occupation or position held Invited professor

Main activities and responsibilities Lectures on tritium radioecology, collaborative work

Name and address of employer Kyoto University Japan

Type of business or sector Scientific research

Dates October 1996-May 1997

Occupation or position held Invited foreign specialist

Main activities and responsibilities Tritium metabolism, lectures in radioecology

Name and address of employer Kyoto University Japan

Type of business or sector Scientific research

Dates August 1992- November 1994

Occupation or position held Post doctoral training in radiation protection and research associate

Main activities and responsibilities Tritium metabolism, lectures in radioecology

Name and address of employer Atomic Energy of Canada Ltd, Chalk River lab, Canada

Type of business or sector Scientific training and research

Dates 1970-1990

Occupation or position held Researcher

Main activities and responsibilities Nuclear physics, induced fission; experiment; modelling- deformed nuclei, radiation protection

Name and address of employer Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH)  
407 Atomistilor Str., 077125 Magurele, jud. Ilfov, Romania

Type of business or sector Scientific research

## Education and training

Dates Aug. 1992-Aug 1993

Title of qualification awarded Postdoctoral training in radiation protection

Principal subjects/occupational skills Basic training and specificity of tritium covered

Name and type of organisation providing education and training International Atomic Energy Agency-Atomic Energy of Canada Ltd; Chalk River Laboratory, Ontario, Canada

Level in national or international classification Main International organization in Atomic energy;

Dates Aug 1977- Aug. 1987

Title of qualification awarded Doctor of Philosophy (Physics)

Principal subjects/occupational skills Shell effects in helium induced fission- competition of processes covered

Name and type of organisation providing education and training Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH)  
407 Atomistilor Str., 077125 Magurele, jud. Ilfov, Romania

Level in national or international classification IFIN-HH is the largest R&D institute in Romania – in terms of assets and personnel, covering almost 10% of the national scientific output

Dates 1965-1970

Title of qualification awarded Bachelor of Science

Principal subjects/occupational skills Nuclear Physics covered

Name and type of organisation providing education and training Faculty of Physics, University of Bucharest

Level in national or international classification Bachelor of Science

## Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

*European level (\*)*

**English**

**French**

**Russian**

**Understanding**

Listening

Reading

**Speaking**

Spoken interaction

Spoken production

**Writing**

C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user
C2	Proficient user	C2	Proficient user	C2	Proficient user		Proficient user	C1	Proficient user
A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A1	Basic user

Organisational skills and competences	Experience in project management, scientific cooperation, science communication
Computer skills and competences	Informatics (competent with Fortran, HTML, Microsoft Office programmes,, Origen, ModelMaker, etc)
<b>Additional information</b>	Chief investigator for Romania in International Coordinated Research :VAMP, BIOMASS, BIOMOVs, EMRAS (1990-2008) Leader of Working Group 7 (Tritium) in EMRAS II (IAEA) (2009-2012) Royal Society (UK) grant 2000-2002 Romanian Academy Prize for fission study (1983) Past and actual collaboration with CEA ( Y. Belot (retired), P. Guetat, L. Patryl,) Rapporteur for a PhD thesis of Cecile Boyer (2009;CNRS-University of Franche-Comte ) Member of : International Union of Radioecology International Society for Life Information Science (Japan) Editorial board Journal of Environmental Radioactivity IAEA Expert team (dose assessment, emergency) RADO-IFIN coordinator (Romanian Atmospheric 3D observatory) and site meteorological survey coordinator

**Annexes** List of publication at  
<http://www.nipne.ro/research/publications/publications.php?user=64>

Most relevant tritium contributions :

**APPROVED/IN PRINT**

**Radiation and Environmental Biophysics**  
*Energy metabolism used as a tool to model the transfer of <sup>14</sup>C and <sup>3</sup>H in animals*  
A. Melintescu, D. Galeriu  
Radiation and Environmental Biophysics, 2010, DOI: 10.1007/s00411-010-0302-4

*Rain Scavenging of Tritiated Water Vapour: A Numerical Eulerian Stationary Model*  
D. Atanassov , D. Galeriu  
accepted to Journal of Environmental Radioactivity

Dynamic model for tritium transfer in aquatic food chain  
A. Melintescu\*, D. Galeriu  
Submitted to Radiation and Environmental Biophysics

Encyclopedia of Sustainability Science and Technology, Editor-in-chief: Meyers, Robert A.  
*Environmental Radioactivity and Ecotoxicology of Radioactive Substances*, Editor Glen Bird; Springer, to be released in 2011  
**TRITIUM IN THE ENVIRONMENT**  
P. Davis, D. Galeriu

**RELEASED**

Retention of tritium in reference persons: a metabolic model. Derivation of parameters and application of the model to the general public and to workers  
D Galeriu and A Melintescu,  
Journal of Radiological Protection 30 (2010) 445–468 doi:10.1088/0952-4746/30/3/003

Chapter - TRITIUM, in RADIONUCLIDES IN THE ENVIRONMENT,2010 Edited by David A. Atwood, Copyright 2010, John Wiley & Sons Ltd.,

**West Sussex, England, pp. 47-65, ISBN 978-0-47071434-8**  
Dan Galeriu, Anca Melintescu

Tritium profiles in snowpacks  
D. Galeriu a, P.Davis , W.Workman  
**Journal of Environmental Radioactivity 101 (2010) 869-874**

*IAEA - TRS – 472, Handbook of parameter values for the prediction of radionuclide transfer to humans in terrestrial and freshwater environments, , International Atomic Energy Agency, 2109, ISBN 978-92-0-113009*  
*Chapter 10 - Specific activity models and parameter values for Tritium, 14C and 36Cl, International Atomic Energy Agency, 2009,*  
P.A. Davis, E. Leclerc, D.C. Galeriu, A. Melintescu, S-R. Peterson, F. Siclet, P.M. Ravi

*IAEA –TECDOC–1616, Quantification of radionuclide transfer in terrestrial and freshwater environments for radiological assessments, International Atomic Energy Agency, 2009, , ISBN 978-92-0-104509-6, ISSN 1011-4289,.*  
*Chapter - Miscellaneous Topics - Specific activity models and parameter values for Tritium, 14C and 36Cl, pp. 549-576*  
P.A. Davis, E. Leclerc, D.C. Galeriu, A. Melintescu, V. Kashparov, S-R. Peterson, P.M. Ravi, F. Siclet, C. Tamponnet

*The Dynamic transfer of 3H and 14C in mammals – a proposed generic model*  
D. Galeriu, A. Melintescu, N. A. Beresford, H. Takeda, N.M.J. Crout  
Radiation and Environmental Biophysics, Volume: 48 Issue: 1 Pages: 29-45 Published: FEB 2009

*Recent Progresses in Tritium Radioecology and Dosimetry*  
D. Galeriu, P. Davis, W. Raskob, A. Melintescu  
Fusion Science and Technology, Volume 54, Number 1, July 2008, Pages 237-242

*Modelling the transfer of 3H and 14C into the environment - lessons learnt from IAEA's EMRAS project*  
A. Melintescu, D. Galeriu  
ISBN 978-82-90362-25-1, Radioprotection Vol. 44, No. 5, (2009), 121 – 127  
Fusion Science and Technology, Volume 54, Number 1, July 2008, Pages 237-242

*Modelling 3H and 14C transfer to farm animals and their products under steady state conditions*  
D. Galeriu, A. Melintescu, N.A. Beresford, N.M.J Crout, R. Peterson, H Takeda  
Journal of Environmental Radioactivity, v 98 pages 205-217 (2007)

*Towards a model for the dynamic transfer of tritium and carbon in mammals.*  
D Galeriu N A Beresford H Takeda A Melintescu N Crout  
Radiation Protection Dosimetry 105, pp387-400

A versatile model for tritium transfer from atmosphere to plant and soil  
A. Melintescu, D. Galeriu  
*Radioprotection*, Suppl. 1, Vol. 40 (2005), S437-S442, May 2005

Upward movement of tritium from contaminated groundwaters: a numerical analysis  
Y. Belot, B.M. Watkins, O. Edlund, D. Galeriu, G. Guinois, A.V. Golubev, C. Meurville, W. Raskob, M. Täschner, H. Yamazawa  
J. Env. Rad. 84 (2005) 259 - 270

"Using WOFOST Crop Model for Data Base Derivation of Tritium and Terrestrial Food Chain Modules in RODOS"  
A.Melintescu, D. Galeriu, E. Marica,  
*Radioprotection*, 37 (C1): 1242-1246, February 2002

*Metabolic Derivation of Tritium Transfer Factors in Animal Products*  
D. Galeriu, N. M. J. Crout, A. Melintescu, N. A. Beresford, S. R. Peterson, M. van Hess  
Radiation Environmental Biophysics, v 40 pp 325-334

A standard guide for dose assessment of routine releases of tritium for any tritium facility  
Galeriu, D and and Yves Belot  
Report WP3, E C Center of Excelence IDRANAP 31-02/2002; 2001

INTERCOMPARISON OF MODEL PREDICTIONS OF TRITIUM CONCENTRATION IN SOIL AND FOODSTUFFS FOLLOWING ACUTE AIRBORNE HTO EXPOSURE  
P.J.Barry, B.M.Watkins, Y.Belot, P.Davis, O.Etlund, D.Galeriu, W.Raskob, S.Russell, O.Togawa  
J. Environ. Radioactivity ,42 (1999)

*DOSE CONTRIBUTION FROM METABOLISED ORGANICALLY BOUND TRITIUM AFTER ACUTE TRITIATED WATER INTAKES IN HUMANS*  
Trivedi, D. Galeriu and R.B. Richardson  
Health Physics 73 (1997) 1-8

*EVOLUTION OF HTO CONCENTRATIONS IN SOIL, VEGETATION AND AIR DURING AN EXPERIMENTAL CHRONIC HT RELEASE*  
Davis, P.A., Galeriu, D  
Fusion Technology 28 (1995),833

*UNCERTAINTY AND SENSITIVITY ANALYSIS FOR THE ENVIRONMENTAL TRITIUM CODE UFOTRI*  
Galeriu, D., Davis, P.A. Raskob W  
Fusion Technology 28 (1995), 853

"User Guide for the Tritium Food Chain and Dose Module FDMH of RODOS – PV4.OF\_02" , RODOS Version 4 Handbook, Volume 1, 43 pages, 2001, available at [http://www.rodos.fzk.de/RodosHomePage/RodosHomePage/Documents/Public/Handbook/Volume1/Fdmh\\_UGui\\_40e.pdf](http://www.rodos.fzk.de/RodosHomePage/RodosHomePage/Documents/Public/Handbook/Volume1/Fdmh_UGui_40e.pdf)  
Dan Galeriu, Catrinel Turcanu, Anca Melintescu