

Gérald DEGREEF

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Knowledge of languages

Mother language : French
Others languages: Dutch (fluent), English (fluent)

Education

Dates attended	Institution of learning	Academic degrees and certificates or diplomas obtained	Main field of study
2015	G4S	Certificate security company manager	Degree in order to comply with law of 10/04/1990
2009	CRESEPT	Occupational Health and Safety	Degree in order to comply with law of 4/08/1996
2007	ANPI	Certificate of Fire Protection Association (part I)	Fire Protection
2006	Xios Hogeschool Limburg-SCK-CEN	Expert in Radiation Protection	Degree in order to comply with RD of 20/7/2001
1998-2004	Université Catholique de Louvain	Master	Geophysics, nuclear physics

Miscellaneous

- Board member of the Belgian Nuclear Society (2012-now)
- Member of the European Physical Society (2004-2018)

Professional record

2017-now	Tractebel – Lead Engineer & Group Manager Safety, Licensing & Studies ▪ Team management (15 engineers) - Technical coordination/Lead Engineer of different projects ▪ Training ▪ Mentor of the thesis "Comparison of Space Radiation Models and Evaluation of Shielding Efficiency by using the Monte Carlo Code PHITS"
2015-2017	IRE – Institut des Radio-Éléments - Expert ▪ Production supervisor ▪ Training of operators ▪ Project management
2013-2015	VNS - Vinçotte Nuclear Safety – Senior Advisor ▪ Project management ▪ Training of clients ▪ Bid preparation, price estimation, risk analysis, negotiation
2008-2013	Bel V – inspector & health, safety and environment manager ▪ Qualified expert in radiation protection (class I) ▪ Training ▪ Health, safety and environment manager
2008	AV Controlatom – qualified expert • Trainer at Tihange Nuclear Power Plant • Supervision of the sanitation of river polluted by radioactive waste ("Bankloop")
2007	Belgian Institute for Space Aeronomy - collaborator ▪ Mars Radiation Environment Modeling (MarsREM) project
2006-2007	AVN – qualified expert ▪ Qualified expert in radiation protection (class II)
2005-2006	Fortis AG – actuarial research ▪ Actuarial research in fire insurance and natural hazards
2004-2005	Université Catholique de Louvain ▪ Research in the field of Atomic and Molecular Physics ▪ Teaching assistant in physics and statistics

Publications

*** dMEREM and eMEREM: New Ionizing Radiation Models for Mars Missions**

P. Truscott, F. Lei, A. Keating, S. Valente, P. Gonçalves, L. Desorgher, D. Heynderickx, N. Crosby, H. de Witte, G. Degreeef, P. Nieminen, G. Santin

IAC 2008, Glasgow, UK, 29 September - 3 October, 2008

*** The Mars Energetic Radiation Environment Models**

P. Truscott, F. Lei, A. Keating, S. Valente, P. Gonçalves, L. Desorgher, D. Heynderickx, N. Crosby, H. de Witte, G. Degreeef, P. Nieminen, G. Santin

IEEE NSREC 2008, Tucson, USA (submitted to IEEE Trans. Nuclear Science)

*** The Belgian Nuclear Society Young Generation Network communicates**

W. Uyttenhove, P. Wouters, G. Degreeef, A. Meert

IYNC 2010, Cape Town, South Africa

*** Technical Experience of the Belgian Regulatory Body regarding Shielded Cells**

G. Degreeef, N. Noterman, C. Mommaert, O. Smidts, G. Cortenbosch, M. Van Haesendonck, H. Drymael, F. Schmitz

47th annual meeting "Hot Laboratories and Remote Handling", Dimitrovgrad, Russia, 2010

Awarded best technical paper

*** The processes for fissile material flux management: theory vs practice**

C. Peters, C. Cortenbosch, G. Degreeef, C. Kennes, E. Minne, C. Mommaert, O. Smidts, F. Schmitz, M. Van Haesendonck

Eurosafe, November 2011, Paris, France

*** Design review of Belgian hot cells – Identification of design weaknesses**

N. Noterman, F. Schmitz, C. Mommaert, E. Minne, C. Peters, C. Kennes, H. Drymael, G. Degreeef, G. Cortenbosch, O. Smidts, M. Van haesendonck

Eurosafe, November 2012, Bruxelles, Belgium

Book

*** The Mars Energetic Radiation Environment Models**

P. Truscott, F. Lei, A. Keating, S. Valente, P. Gonçalves, L. Desorgher, D. Heynderickx, N. Crosby, H. de Witte, G. Degreeef, P. Nieminen, G. Santin

Chapter to the IAA (International Academy of Astronautics) study on **Particle Radiation Hazards en route to and at Mars**