



Expert in Radiological Characterization

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LIST OF PUBLICATIONS

Last update: November 2018

PhD thesis

Desnoyers, Y. 2010. Approche méthodologique pour la caractérisation géostatistique des contaminations radiologiques dans les installations nucléaires. Thèse de Doctorat en Géostatistique, Mines ParisTech.

Contribution to collaborative reports, guides and standards

INSIDER H2020 Project: Improved nuclear site characterization for waste minimization in decommissioning and dismantling operations under constraint environment. INSIDER WP3 - Sampling strategy, State-of-the-art report (2018). Deliverable D3.1.

OECD/NEA - Working Party on Decommissioning and Dismantling (2017) Radiological Characterisation from a Waste and Materials End-State Perspective (www.oecd-nea.org/rwm/pubs/2017/7373-rad-char-pers.pdf)

ISO 18557:2017 Characterisation principles for soils, buildings and infrastructures contaminated by radionuclides for remediation purposes (www.iso.org/standard/62879.html)

CETAMA working group n°10 (2017) Évaluation de l'état radiologique initial et final d'une installation nucléaire en situation d'assainissement (CEA-R-6455 | ISSN 0429-3460)

EPRI (2016) Guidance for Using Geostatistics in Developing a Site Final Status Survey Program for Plant Decommissioning (www.epri.com/#/pages/product/3002007554/)

CETAMA working group n°10 (2014) Soil Radiological Characterization Methodology (CEA-R-6386 | ISSN 0429-3460)

OECD/NEA - Working Party on Decommissioning and Dismantling (2013) Radiological characterisation for decommissioning of nuclear installations (www.oecd-nea.org/rwm/docs/2013/rwm-wpdd2013-2.pdf)

Selection of refereed journals and conference proceedings



- Desnoyers Y.** (2018) *Geostatistics perspectives for sampling optimization during radiological characterization. In Proc. of DEM2018 conference, Avignon, France.*
- Desnoyers Y.** (2018) *Geostatistics cost-benefit analyses for classification of waste during initial radiological characterization. In Proc. of DEM2018 conference, Avignon, France.*
- Demougeot-Renard H., **Desnoyers Y.** (2018) *Prediction reliability of chemically contaminated volumes of soils. Feedback on 23 former industrial sites (RECORD study) and lessons learnt for radioactively contaminated sites. In Proc. of DEM2018 conference, Avignon, France.*
- Desnoyers Y., Calonne O., Segond M., Binet H.** (2018) *Geostatistical carbon content mapping of EPR vessel heads using mobile spectrometer. In Proc. of Fontevraud 9 Conference, Avignon, France.*
- Desnoyers Y., Da Costa M., Magnin M., Lerat V.** (2017) *Updated radiological inventory of G1 reactor thanks to a strengthened data processing. In Proc. of Waste Management 2017 Conference, Phoenix, Arizona, USA.*
- Fichet P., Mougél C., **Desnoyers Y., Sardini P., Word H.** (2017) *New developments of autoradiography technique to improve alpha and beta measurements for decommissioning facilities. In Proc. of Workshop on Current and Emerging Methods for Optimising Safety and Efficiency in Nuclear Decommissioning. Halden, Norway.*
- Desnoyers Y.** (2016) *Geostatistics for radiological characterization: experience gained and perspectives. In Proc. of 3rd Canadian Conference on Nuclear Waste Management, Decommissioning and Environmental Restoration. Ottawa, Canada.*
- Faucheux C., **Desnoyers Y., Jefferies N., Teasdale I., Cruickshank J.** (2015) *Geostatistics improvements for Sellafield contaminated soils and groundwater modelling. In Proc. of Global 2015, Paris, France.*
- Chautru J.-M., **Desnoyers Y., Jefferies N., Jackson P., Teasdale I., Cruickshank J.** (2015) *Improvements with geostatistics for lithology representative fields and flow models at Sellafield site. In Proc. of AquaConSoil 2015, Copenhagen, Denmark.*
- Desnoyers Y., Dubot D.** (2014) *Characterization of radioactive contamination using geostatistics. Nuclear Engineering International. Volume 59, No. 716, March 2014, Pages 16-18. Sidcup, United Kingdom.*
- Lidar P., Larsson A., **Desnoyers Y.** (2014) *Geostatistical characterisation of contaminated metals: methodology and illustrations. In Proc. of Symposium on Recycling of Metals arising from Operation and Decommissioning of Nuclear Facilities, Studsvik, Sweden.*
- Desnoyers Y., Dubot D.** (2014) *Importance des données pour les cartographies géostatistiques de contaminations radiologiques. Spectra ANALYSE n° 296 • Janvier - Février 2014*
- Pombet D., **Desnoyers Y., Aggarwal S., Charters G.** (2013) *Destructive testing: dry drilling operations with TruPro® system to collect samples in a powder form, from two hulls containing immobilized waste in a hydraulic binder. In Proc. of ICEM 2013 congress, Brussels, Belgium.*
- Bechler A., Romary T., Jeannée N., **Desnoyers Y.** (2013) *Geostatistical sampling optimization of contaminated facilities. In Stochastic Environmental Research and Risk Assessment: Volume 27, Issue 8 (2013), Pages 1967-1974.*
- Himeur N., **Desnoyers Y., Dubot D.** (2013) *Sampling optimization for the characterization of a drum disposal legacy site. In Proc. of DEM2013 congress, Avignon, France.*



- Desnoyers Y., Dubot D. (2012)** *Data analysis for radiological characterisation: Geostatistical and statistical complementarity. In Proc. Of DD&R 2012 congress, Chicago, USA.*
- Desnoyers Y., De Moura P. (2011)** *Characterization of a deep radiological contamination: integration of geostatistical processing and historical data. In Proc. of ICEM 2011 congress, Reims, France.*
- Desnoyers Y., Dubot D. (2011)** *Geostatistical methodology for waste optimization of contaminated premises. In Proc. of ICEM 2011 congress, Reims, France.*
- Desnoyers Y., Dubot D. (2011)** *Near real-time characterization of radio-contaminated soils in France: Challenges and Methods. In Proc. of Conference on Waste Management, Decommissioning and Environmental Restoration for Canada's Nuclear Activities, Toronto, Canada.*
- Desnoyers Y., Chilès J.-P., Dubot D., Jeannée N., and Idasiak J.-M. (2010),** *Geostatistics for radiological evaluation: study of structuring of extreme values. In Stochastic Environmental Research and Risk Assessment: Volume 25, Issue 8 (2011), Page 1031-1037 and in Proc. of GeoENV 2010 congress, Gent, Belgium.*
- Desnoyers Y., Chilès J.-P., Jeannée N., Lamadie F. and Dubot D. (2009),** *Geostatistical sampling optimization and waste characterization of contaminated premises. In Proc. of Global 2009 congress, Paris, France.*
- Jeannée N., **Desnoyers Y., Lamadie F., Iooss B. (2008),** *Geostatistical sampling optimization of contaminated premises. Int. Conf. on Decommissioning Challenges: An Industrial Reality?. In Proc. of Decommissioning Challenges > Industrial Reality and Prospects congress, Avignon, France.*

Oral communications during conferences

- Marie S., Fichot P., Calonne O., Segond M., **Desnoyers Y., Hajjaj M., Miller C. (2018)** *Flamanville EPR RPV's Heads Carbon Segregation: Characterization of the Segregation in the Heads. In Proc. of Pressure Vessels & Piping Conference, Prague, Czech Republic.*
- Desnoyers Y. (2017)** *Geostatistics Perspectives for Sampling Optimization during Radiological Characterization. In Proc. of 15th EPRI Int. NPP Decommissioning Workshop, Lyon, France.*
- Lemarchand O., **Desnoyers Y. (2016)** *Kartotrak, une solution logicielle intégrée pour la caractérisation radiologique. In Proc. of 5e Forum européen de radioprotectique, ATSR, La Grande Motte, France.*
- Cruickshank J., **Desnoyers Y., Faucheux C., Jefferies N., Teasdale I. (2016)** *Using geostatistics to improve understanding of contaminated land legacies – a case study at Sellafield. In Proc. of International Conference on Advancing the Global Implementation of Decommissioning and Environmental Remediation Programmes, IAEA, Madrid, Spain.*
- Desnoyers Y. (2016)** *Geostatistics for radiological characterization: overview and application cases. In Proc. of International Symposium on Preparation for Decommissioning (PREDEC 2016). Lyon, France*
- Desnoyers Y. (2015)** *Sampling considerations for characterization of radioactive contamination using geostatistics. In Proc. of World Conference on Sampling and Blending, Bordeaux, France.*
- Desnoyers Y., Péraudin J.-J. (2015)** *Application of Geostatistics during Decommissioning of Nuclear Facilities. In Proc. of 14th EPRI Int. NPP Decommissioning Workshop, Manchester, United Kingdom.*



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Desnoyers Y., Dubot D. (2013) *Radiological and physical characterization of accident damaged facilities in France. Presented at International Experts´ Meeting on Decommissioning and Remediation after a Nuclear Accident, IAEA, Vienna, Austria.*

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Dubot D., **Desnoyers Y., de Moura P., Attiogbe J., Jeannée N., Péraudin J.-J. (2010)** *Characterization of radio-contaminated soils in France: challenges and outcomes. Presented at Intersol'2010 conference, Paris, France.*

Desnoyers Y. (2010) *Evaluation de pollutions de structures de génie civil par les méthodes géostatistiques. Presented in Séminaire CETAMA « Echantillonnage et caractérisation II », 27-29 avril 2010, Montpellier, France.*

Desnoyers Y., Chilès J.-P., Dubot D., Jeannée N., and Idasiak J.-M. (2010), *Geostatistics for radiological evaluation and risk analysis of contaminated premises. In Proc. of DD&R 2010 congress, Idaho Falls, USA.*

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De Moura P., Faure V., Attiogbe J., Dubot D., Jeannée N., **Desnoyers Y. (2009),** *Cleansing methodology of sites and its applications. In Proc. of International Symposium "Nuclear energy" - Sien 2009, Bucharest.*

Desnoyers Y., Attiogbe J., Crabol B., Dubot D. (2008), *Optimisation des stratégies d'échantillonnage pour les caractérisations radiologiques de sites et sols pollués, 24ième congrès ATSR, Aix en Provence, France.*

Posters during conferences

Courtadon A., **Desnoyers Y., Dubot D., Granier G., Ollivier-Dehaye C., Roudil D. (2018)** *Cetama working group n°10 contributions on sampling and radiological characterization. In Proc. of DEM2018 conference, Avignon, France.*

Desnoyers Y. (2016) *Geostatistics for radiological characterization: Sampling optimisation, data interpretation and risk analysis. Poster presented at International Conference on Advancing the Global*



Implementation of Decommissioning and Environmental Remediation Programmes, IAEA, Madrid, Spain.

*Attigbe J., Dubot D., Jeannée N., **Desnoyers Y.** (2009), KARTOTRAK: a GIS platform for real-time characterization of radiological contaminations. Poster presented at StatGIS 09 "Geoinformatics for Environmental Surveillance", Milos Island, Greece.*



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