

PUBLICATIONS

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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.

Selection of refereed journals and conference proceedings:

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.

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.

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.

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Desnoyers Y., Dubot D. (2014) *Importance des données pour les cartographies géostatistiques de contaminations radiologiques*. Spectra ANALYSE n° 296 • Janvier - Février 2014

Radiological characterisation for decommissioning of nuclear installations (2013). OECD/NEA - Working Party on Decommissioning and Dismantling (WPDD), Paris, France.

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 Decommissioning Challenges > Industrial Reality and Prospects 2013 congress*, Avignon, France.
- 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 a hull containing sludge immobilised in a hydraulic binder. In *Proc. of Decommissioning Challenges > Industrial Reality and Prospects 2013 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:**
- 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.**, Fauchoux C., Jefferies N., Teasdale I. (2016) Using geostatistics to improve understanding of contaminated land legacies – a case study at Sellafeld. In *Proc. of International Conference on Advancing the Global Implementation of Decommissioning and Environmental Remediation Programmes*, IAEA, Madrid, Spain.
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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.
- Desnoyers Y.**, Chilès J.-P., Jeannée N., Idasiak J.-M., Dubot D. (2009), Geostatistical methods for radiological evaluation and risk analysis of contaminated premises. In *Proc. of International Symposium "Nuclear energy" - Sien 2009*, Bucharest.
- 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:

- 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.
- Attiogbe 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.