

CV, Gitte Lemming Søndergaard (*1979)

Positions and degrees

2014-	Senior Researcher at DTU Environment
2010-2014	Postdoc at DTU Environment
2010	PhD, DTU Environment
2005-2006	Research assistant. Environment & Resources, DTU
2005	MSc in Environmental Engineering, DTU



Research summary

Gitte Lemming Søndergaard is a Senior Researcher within risk assessment and sustainability assessment of the management of contaminated sites. The research is carried out in collaboration with the Danish EPA and the Danish Regions and aims at developing improved tools for decision support. The research focuses on the development of models for risk assessment and prioritization of groundwater-threatening contaminated sites. In addition, the research focuses on developing decision support models regarding choice of remedial strategy. This involves environmental assessment of remediation methods as well as multi-criteria assessment methods involving environmental, economic and social indicators.

Publication summary

ISI-indexed publications: 7 (see list below)

h-Index: 4

Selected projects

2014	Evaluation and improvement of principles and methods for risk assessment of groundwater-threatening soil contamination including prioritization of the remediation efforts. Public consultancy project funded by the Danish EPA.
2011-2014	Methodology for sustainability assessment of contaminated site remediation. Collaboration project with Central Denmark Region.
2011-2013	Environmental optimization of in situ thermal remediation using life cycle assessment. Collaboration project with Capital Region of Denmark, Danish EPA and NIRAS.
2008-2009	RemS. Development of an LCA-based screening tool for evaluation of remediation. Collaboration project with Capital Region of Denmark, Danish EPA and NIRAS.
2007-2009	Experience gathering and modeling of enhanced reductive dechlorination as a remedy for chloroethene-contaminated clay till. Project with Capital Region of Denmark and Danish EPA
2006-2010	PhD project. Environmental assessment of contaminated site remediation in a life cycle perspective
2005	M.Sc. project. Model for risk assessment of point sources at the catchment scale

Awards

2006	Colding award for best master thesis at DTU Environment in 2005/2006
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List of ISI publications

Lemming, G.; Nielsen, S.G.; Weber, K.; Heron, G.; Baker, R.S.; Falkenberg, J.A.; Terkelsen; Jensen, C.B.; Bjerg, P.L. (2013). Optimizing the Environmental Performance of In Situ Thermal Remediation Technologies Using Life Cycle Assessment. *Groundwater Monitoring and Remediation*, 33, 3, 38-51.

Owsianiak, M.; Lemming, G.; Hauschild, M.Z.; Bjerg, P.L. (2013). Assessing Environmental Sustainability of Remediation Technologies in a Life Cycle Perspective is Not So Easy. *Environmental Science & Technology*, 47, 3, 1182-1183.

Lemming, G. Chambon, J.C., Binning, P.J., Bjerg, P.L. (2012) Is there an environmental benefit from remediation of a contaminated site? Combined assessments of the risk reduction and life cycle impact of remediation. *Journal of Environmental Management*. Volume 112, 15 December 2012, Pages 392–403.

Lemming, G., Hauschild, M.Z., Chambon, J., Binning, P.J., Bulle, C., Margni, M., and Bjerg, P.L. 2010. Environmental Impacts of Remediation of a Trichloroethene-Contaminated Site: Life Cycle Assessment of Remediation Alternatives. *Environmental Science & Technology* 44, 9163-9169.

Lemming, G., Friis-Hansen, P., Bjerg, P.L. 2010. Risk-based economic decision analysis of remediation options at a PCE-contaminated site. *Journal of Environmental Management*, 91, 1169-1182.

Lemming, G., Hauschild, M.Z., and Bjerg, P.L. 2010. Life cycle assessment of soil and groundwater remediation technologies: literature review. *International Journal of Life Cycle Assessment* 15, 115-127.

Troldborg, M., Lemming, G., Binning, P.J., Tuxen, N., Bjerg, P.L. 2008. Risk assessment and prioritisation of contaminated sites on the catchment scale. *Journal of Contaminant Hydrology* 101 (1-4). 14-28.