

CV - Anker Lajer Højberg, GEUS



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Name Anker Lajer Højberg
Date of Birth May 02, 1965
Nationality Danish
Education Technical University of Denmark, 1996, M.Sc., Specialization: Hydrology
Technical University of Denmark, 2001, Ph.D., subsurface reactive transport

Employment Record

| Year | Organisation | Position and Responsibilities |
|-----------|---|---|
| 2006-date | Geological Survey of Denmark and Greenland (GEUS) | Senior scientist, Department of Hydrology |
| 2001-2006 | Geological Survey of Denmark and Greenland | Scientist, Department of Hydrology |
| 1996 | Technical University of Denmark | Research Assistant |

Selected Experience Record – Research and Developmental Projects

- Work package leader in research project “Tools for ground source heating and cooling based on closed loop boreholes (GeoEnergi)” (2011-)
- Project manager for the National Water Resource model (**DK-model**) (2005-). (www.vandmodel.dk).
- Project manager for the update of the National Water Resource model (**DK-model**) (2005-2009). The National Aquatic Monitoring Programme (www.vandmodel.dk).
- Project participant in the EU-FP6 STREP Project ‘Functional tools for Pesticide Risk Assessment and Management (**FOOTPRINT**)’ SSPI-CT-2005-022704. (2006-2009).
- Project manager for ‘Quality Assurance in Water Resources Modelling (**NOVANAQuA**) (2005 – 2009) on quality assurance in hydrological modelling in Denmark.
- Project participant in the EU-FP5 research project ‘Harmonised Modelling Tools for Integrated Basin Management (**Harmoni-CA**)’. EVK1-2001-00192. (2002 – 2007)
- Project participant in the EU-FP5 research project ‘Harmonising Quality Assurance in model based catchment and river basin management (**HarmoniQuA**)’. EVK1-2001-00071. (2002-2006).

Recent professional assignments

- Reviewer for the Scientific Journals: *Water Resources Research*, *Journal of Hydrology* and *Water resources Management*
- Danish Research School for Water Resources, FIVA (2002-date): Affiliated Scientist
- Co-editor of conference proceeding: XXIV Nordic Hydrological Conference. NORDIC WATER 2006 – Experiences and Challenges in implementation of the EU Water Framework Directive. 6-9 August, 2006. Vingsted. Nordic Hydrological Association.

Scientific publications – selected references

Published more than 20 peer reviewed conference papers and book chapters.

Peer reviewed journals

- Refsgaard, J.C., Christensen, S., Sonnenborg, T.O., Seifert, D., Højberg, A.L., Trolborg, L., (2011) Review of strategies for handling geological uncertainty in groundwater flow and transport modelling, *Advances in Water Resources*, <http://dx.doi.org/10.1016/j.advwatres.2011.04.006>
- Stisen, S., T. O. Sonnenborg, A. L. Højberg, L. Trolborg and Refsgaard JC, (2011) Evaluation of climate input biases and water balance issues using a coupled surface-subsurface model. *Vadose Zone Journal*, 10, 37-53. <http://dx.doi.org/10.2136/vzj2010.0001>
- Refsgaard, J. C., A. L. Højberg, I. Møller, M. Hansen and Verner Søndergaard (2010), Groundwater Modeling in Integrated Water Resources Management—Visions for 2020, *Ground Water*, 48 (5), 633-648. <http://dx.doi.org/10.1111/j.1745-6584.2009.00634.x>
- Henriksen, H. J., J. C. Refsgaard, A. L. Højberg, N. Ferrand, P. Gijbbers and H. Scholten (2009), Harmonised Principles for Public Participation in Quality Assurance of Integrated Water Resources Modelling. *Water Resources Management*, 23, 2539-2554. <http://dx.doi.org/10.1007/s11269-008-9395-9>
- Henriksen, H. J., L. Trolborg, A. L. Højberg, and J. C. Refsgaard (2008), Assessment of exploitable groundwater resources of Denmark by use of ensemble resource indicators and a numerical groundwater-surface water model, *Journal of Hydrology*, 348, 224-240, <http://dx.doi.org/10.1016/j.jhydrol.2007.09.056>
- Højberg, A. L., J. C. Refsgaard, F. van Geer, L. F. Jørgensen, and I. Zsuffa (2007), Use of models to support the monitoring requirements in the water framework directive, *Water Resources Management*, 21(10), 1649-1672, <http://dx.doi.org/10.1007/s11269-006-9119-y>
- Hinsby, K., A. L. Højberg, P. Engesgaard, K. H. Jensen, F. Larsen, L. N. Plummer and E. Busenberg (2007), Transport and degradation of chlorofluorocarbons (CFCs) in the pyritic Rabis Creek aquifer, Denmark, *Water Resources Research*, 43(10). <http://dx.doi.org/10.1029/2006WR005854>
- Jørgensen, L. F., J. C. Refsgaard, and A. L. Højberg (2007), Joint use of monitoring and modelling, *Water Science and Technology*, 56 (8), 21-29. <http://dx.doi.org/10.2166/wst.2007.596>
- Jørgensen, L. F., J. C. Refsgaard and A. L. Højberg (2007), The inadequacy of monitoring without modelling support, *Journal of Environmental Monitoring*, 9 (9), 931-942. <http://dx.doi.org/10.1039/b7066117c>
- Nilsson, B., A. L. Højberg, J. C. Refsgaard, and L. Trolborg (2007), Uncertainty in geological and hydrogeological data, *Hydrology and Earth System Sciences*, 11, 1551-1561.
- Refsgaard, J. C., J. P. van der Sluijs, A. L. Højberg, and P. A. Vanrolleghem (2007), Uncertainty in the environmental modelling process - A framework and guidance, *Environmental Modelling & Software*, 22(11), 1543-1556. <http://dx.doi.org/10.1016/j.envsoft.2007.02.004>
- Højberg, A. L., and J. C. Refsgaard (2005), Model uncertainty - parameter uncertainty versus conceptual models, *Water Science and Technology*, 52(6), 177-186.
- Højberg, A. L., P. Engesgaard and P. L. Bjerg (2005), Pesticide transport in an aerobic aquifer with variable pH - Modeling of a field scale injection experiment, *Journal of Contaminant Hydrology*, 78 (3), 231-255. <http://dx.doi.org/10.1016/j.jconhyd.2005.05.009>
- Engesgaard, P., A.L. Højberg, K. Hinsby, K. H. Jensen, T. Laier, F. Larsen, E. Busenberg and L.N. Plummer (2004), Transport and time lag of chlorofluorocarbon gases in the unsaturated zone, Rabis Creek, Denmark, *Vadose Zone Journal*, 3 (4), 1249-1261.
- Broholm, M. M., K. Rugge, N. Tuxen, A. L. Højberg, H. Mosbaek, and P. L. Bjerg (2001), Fate of herbicides in a shallow aerobic aquifer: A continuous field injection experiment (Vejen, Denmark), *Water Resources Research*, 37(12), 3163-3176.