

CV for Poul Løgstrup Bjerg (*1961)

Orcid: 0000-0002-1977-1871



Degrees:

1992 PhD, Department of Environmental Technology, DTU
1987 MSc (Environmental Engineering), Technical University of Denmark

Positions:

2018-2022 Head of Bachelor studies in Environmental Engineering
2011-2018 Head of Water Resources Engineering Section at DTU Environment
2002- Professor, Department of Environmental Engineering, DTU
2001-2005 Vice head of Institute of Environment & Resources, DTU
1998-2000 Vice head of Department of Environmental Science and Engineering, DTU
1996-2002 Associate professor, Environment & Resources, DTU
1992-1996 Post doc at Department of Environmental Technology, DTU

Research Area:

The research field is risk assessment and remediation technologies for contaminated soil, ground-water and surface water. This involves field investigations/experiments, laboratory experiments, model development and applications, life cycle assessment tools and sustainable management of contaminated sites and water resources.

Distinctions and awards:

2017 G.O. Andrup's Groundwater prize. Vandcenter Syd
2012: Academy of Technical Sciences, Soil and groundwater foundation, Poul Harremoës Award
2011: Ejnar og Aase Danielsens Foundation: Environmental prize
1993: Direktør Peter Gorm Petersen's Award for the Ph.D. thesis

Memberships of scientific committees, review:

2009-2015 Member of organising committee for AQUACONSOIL
2005-2011 Member of Phd-programme committee, DTU, Life Science/ KPBMt-sector, DTU
2005-2008 Member of the Editor-in-chief group "Journal of Contaminant Hydrology"
2004- Member of the organising committee for Groundwater Quality conference series

Web of Science publications, ISI: >145; Citations: >8000; h-index: 48

Supervision of PhDs, 2018 – present (ongoing or finished in 2018 or later):

Main supervisor for 6 PhD and co-supervisor for 3 PhD in this period

Selected grants, 2018 – present (ongoing or finished in 2018 or later):

Innovation Fund Denmark, Industrial PhD with WSP, Quantification of the future impact of agricultural pesticides to the groundwater resources. Amount granted to department: 0,36 mill DKK, Project period 2023-2026.

Capital Region of Denmark, Contaminant mass discharge and remedial action, Framework contract on risk assessment of contaminated sites. Amount granted to Dept: 3,0 mill DKK. Project period 2022-2024.

Region of Southern Denmark, Grindsted Megasite, Framework contract. Amount granted to Dept: 5,0 mill DKK 2020-2024.

Innovation Fund Denmark, Industrial PhD with Rambøll, Development of tools for quantification of extent and effect of pesticides on groundwater. Amount granted to department: 0,36 mill DKK, Project period 2020-2023.

Danish EPA. Research based consultancy. Groundwater quality, implementation of Water Framework directive. Amount granted to Dept: 0,6 mill DKK, Project period 2020-2021.

Advokat Bent Thorbergs foundation, Cross borehole DCIP at Hvedemarken, Amount granted to Dept: 1,0 mill DKK 2019-2022.

Innovation Fund Denmark, GEOCON – Advancing GEOlogical, geophysical and CONTaminant monitoring technologies for contaminated site investigation. Amount granted to Dept: 6,7 mill DKK Project period 2014-2018.

Selected publications (2018 or later):

Balbarini, N.; Rønne, V.; Maurya, P.; Fiandaca, G.; Ingelise Møller, I.; Klint, K.E.; Christiansen, A.V.; Philip J. Binning, P.J.; **Bjerg, P.L.** (2018). Geophysics based contaminant mass discharge quantification downgradient of a landfill and a former pharmaceutical factory. *Water Resources Research*. 54, 8, 5436-5456.

Brauns, B.; Jakobsen, R.; Song, X.; **Bjerg, P.L.** (2018). Pesticide use in the wheat-maize double cropping systems of the North China Plain: Assessment, field study, and implications. *Science of the Total Environment*. 616, 307-316.

Frederiksen, M., Albers, C.N., Mosthaf, K., Janniche, G.A.S., Tuxen, N., Kerrn-Jespersen, H., Bollmann, U.E., Christophersen, M., **Bjerg, P.L.** (2023). Long-term leaching through clayey till of N,N-dimethylsulfamide, a Persistent and Mobile Organic Compound (PMOC). *Journal of Contaminant Hydrology*, 257, 104218, 2023.

Gejl, R.N., Rygaard, M., Henriksen, H.J., Rasmussen, J., **Bjerg, P.L.** (2019). Understanding the impacts of groundwater abstraction through long-term trends in water quality. *Water Research*. 156, 241-251.

Mosthaf, K.; Rosenberg, L., Broholm, M.M.; Fjordbøge, A.S.; Lilbæk, G., Christensen, A.G.; **Bjerg, P.L.** (2024). Quantification of contaminant mass discharge from a point source in an aquitard/aquifer system based on vertical concentration profiles and 3D modeling, *Journal of Contaminant Hydrology*, 260, 104281.

Ottosen, C.B.; Rønne, V.; McKnight, U. S.; Annable, M.D.; Broholm, M.B.; Devlin, J.F.; **Bjerg, P.L.** (2020). Natural attenuation of a chlorinated ethene plume discharging to a stream: Integrated assessment of hydrogeological, chemical and microbial interactions. *Water Research*. 186, 116332.

Ottosen, C.B.; Murray, A.M.; Broholm, M.M.; **Bjerg, P.L.** (2019). In Situ Quantification of Degradation Is Needed for Reliable Risk Assessments and Site-Specific Monitored Natural Attenuation. *Environmental Science and Technology*. 51, 1-3.

Rosenberg, L.; Mosthaf, K.; Broholm, M.M. Fjordbøge, A.; Tuxen, N.; Kerrn-Jespersen, I.H.; Rønne, V.; **Bjerg, P.L.** (2023). A novel concept for estimating the contaminant mass discharge of chlorinated ethenes emanating from clay till sites, *Journal of Contaminant Hydrology*, 252, 104121.

Søndergaard, G.L.; Binning, P.J.; Bondgaard, M.; **Bjerg, P.L.** (2018). Multi-criteria assessment tool for sustainability appraisal of remediation alternatives for a contaminated site. *Journal of Soil and Sediments*. 18(11), 3334-3348.

Thalund-Hansen, R.; Troldborg, M., Levy, L.; Christiansen, A.V.; Bording, T.S.; **Bjerg, P.L.** (2023). Assessing contaminant mass discharge uncertainty with application of hydraulic conductivities from geoelectrical cross-borehole induced polarization and other methods, *Water Resources Research*, doi: 10.1029/2022WR034360.