

CV for Professor Karin Andersson, born 1952

Orcid: 0000-0001-8756-1465

EDUCATION

M Sc (Civ Ing), Chemical Engineering, Royal Institute of Technology, Stockholm 1975

Ph D (Tekn Dr), Nuclear Chemistry, Chalmers University of Technology, Gothenburg, 1983

Associate professor (Docent), Technical Environmental Planning, Chalmers 1997

Archaeology, 40 p (60 hp), University College Gotland 2004, 15 hp 2016 Uppsala University

POSITIONS

2022- present. Professor emerita, Maritime Environmental Sciences, Department of Mechanics and Maritime Science

2017– 2022. Professor (“full professor”), Maritime Environmental Sciences, Department of Mechanics and Maritime Science

2011-2017. Professor (biträdande professor), Chalmers, Maritime environment, Department of Shipping and Marine Technology

1997– 2011, Associate professor (docent), Chalmers, Maritime Environment, Department of Shipping and Marine Technology (2009 -), Environmental Systems Analysis, Department of Energy and Environment (1997 – 2009. Until 2005 part of school of Civil Engineering)

1990 - 97 Lecturer (Universitetslektor), Chalmers; Technical Environmental Planning/Environmental Systems Analysis, School of Civil Engineering

1987 - 90 Consultant, own company Lindgren o Andersson HB.

1983 - 87 Project manager ” Safety and systems analysis” Studsvik Energiteknik AB, Nyköping.

1978 - 83 Doctoral student, Department of Nuclear Chemistry, Chalmers.

1975 - 78 Education assistant, project assistant. Department of Chemical Engineering, Royal Institute of Technology. KTH Stockholm

RESEARCH AREA

My research was until the end of the 80ies mainly experimental with a focus on solution chemistry with applications on interactions between groundwater, soil/rock and metals/contaminants. The experimental work was accompanied by computer simulations of geochemical equilibria. The applications were within safety analysis of final repositories for nuclear waste. I worked within projects where the chemistry was an integrated part in the total safety analysis.

The present focus on environmental systems analysis has the same fundamental theoretical base concept as the safety analysis, but with different modelling and assessment tools like life cycle assessment (LCA), environmental impact assessment (EIA), ecological risk analysis (ERA), material flow analysis (MFA) etc. Since 2007 the applications of these tools have mainly been within shipping and maritime issues, and I have gradually moved my research to the department of Shipping and Marine Technology and the competence centre Lighthouse.