

- 1. HIGHER EDUCATION DEGREE - B.Sc.**, 1989, Chemistry, Biology and Earth Sciences, Univ. of Gothenburg
- 2. DOCTORAL DEGREE-** 1995, Chemistry; Marine Chemistry, University of Gothenburg, “*Mineralization of Biogenic Debris in Continental Shelf and Slope Sediments*”
- 3. POST DOCTORAL EXPERIENCE -** 1996-1998 (NFR), Chemistry, Biology and Earth sciences; host: Prof. R.C. Aller, Dept. of Marine Sciences; SUNY, Stony Brook, USA
- 4. ASSOCIATE PROFESSOR (DOCENT) -** 2000, Univ. of Gothenburg
- 5. PRESENT POSITION -** Professor; since 2007

**6. PREVIOUS POSITIONS -**

Dept. of Chemistry, UGOT	Assistant Professor (NFR)	1998 – 2002
Dept. of Chemistry, UGOT	Senior researcher	2002 – 2003
Dept. of Chemistry, UGOT	Senior lecturer “ <i>Microbial Marine Chemistry</i> ”;	2003 – 2007

- 7. INTERRUPTION IN RESEARCH –** Served as Deputy Head, Dept. of Chemistry, Univ. of Gothenburg (50 %) 2009-2012; and Vice Dean, Faculty of Sciences, Univ. of Gothenburg (65 %) 2012-2018.

**8. SUPERVISION -**

**Post graduate supervision, Exames (9 Ph.D., 1 Ph.Lic):**

**Primary supervisor:**

Pia Engström; 2004 Ph.D. “*The importance of ANaerobic AMMonium OXidation (anammox)...*”

Niklas Strömberg; 2006 Ph.D. “*Imaging optodes*”

Anna Engelsen; 2008 Ph.D “*Links between macroalgal mats, fauna and sediment biogeochemistry*”

Aron Hakonen; 2010 Ph.D “*Development and use of optical sensors in modern analytical chemistry*”

Ola Bäckman 2013 Ph.D “*Character and function of anammox bacteria under environmental stress*”

Stina Lindqvist 2014 Ph.D “*Transport by Benthic Macrofauna: Functional Classification...*”

**Assistant supervisor:**

Karin Karlsson; 2003. Lic. Thesis “*Bioturbating fauna in the Baltic Sea...*”

Karin Karlsson; 2005. Ph.D. Thesis “*Impact of benthic macrofauna on sediment biogeochemistry...*”

Fredrik Larsson; 2005. Ph.D. Thesis “*The role of marine microphytobenthos with emphasis on resilience*”

Karl Norling; 2007. Ph.D. Thesis “*Functional biodiversity of macrofauna in marine sediments*”

**Post graduate supervision, current Ph.D students (1):**

NN (2018 - ) Objectives: “*Ecosystem functions and diversity of microbial communities in coastal sediment systems*”

**Additional research supervision and guest scientists:**

**Visiting professors/scientists and post-doctoral supervision (7):**

Assoc. Prof. Franck Gilbert (Univ. of Marseille, France). 2000-2001

Assoc. Prof. Nils Riisgaard (NERI, Denmark). 2003-2004

Dr. Pia Engström (UGOT) 2004-2005; 2006; 2008

Dr. Fredrik Larsson (UGOT) 2006

Dr. Niklas Strömberg (UGOT) 2006

Dr. Suzanne Dufour (Univ. of Montreal, Canada) 2005; 2006

Dr. Aron Hakonen (UGOT) 2010; 2011

**Undergraduate (M.Sc./B.Sc) supervision (17):**

Principal supervisor of 11 M.Sc. and 6 B.Sc. students

**9. MISCELLANEOUS -**

**A. INVITED ACTIVITIES -**

**International Ph.D. thesis oppositions (faculty opponent/external evaluator/rapporteur) (6):**

S. Caradec (Univ. of Marseille, France), A. Heilskov (Univ. of Southern Denmark, Odense, Denmark), E. Michaud (Univ. of Montreal, Canada), M. Jensen (Univ. of Southern Denmark, Odense, Denmark), I.A. Sanders (Univ. of London; UK), T. Valdemarsen (Univ. of Southern Denmark, Odense, Denmark)

**National Ph.Lic. thesis oppositions (faculty opponent) (1):** S. Bonaglia (Stockholm Univ.)

**National Ph.D. committees (6):**

S. Eriksson (UGOT), D. Bastviken (Linköping Univ.), K. Ek (Chalmers Univ. of Technology), M. Mil-Homens (UGOT), B. Szatkowska (Royal Inst. of Techn., KTH), D. Hansson (UGOT)

**Evaluation of international research proposals:**

American National Science Foundation (NSF, Division of Ocean Sciences); UK National Environmental Research Council (NERC); The Millennium Science Initiative (MSI), Chile; Long Island Sound Study (LISS; USA), Norwegian Research Council.

**Referee for international journals and books:**

*ActaBiotheoretica, AMBIO, Aquatic Geochemistry, Aquatic Microbial Ecology, Biogeochemistry, Biogeosciences Discussions, Chemosphere, Critical Reviews in Biochemistry and Molecular Biology, Environmental Science and Technology, Estuarine, Coastal and Shelf Science, Geobiology, Geochimica et Cosmochimica Acta, Hydrobiologia, Limnology and Oceanography, Marine Chemistry, Marine Ecology Progress Series, Marine Geology and Organic Geochemistry, Nature Geoscience*

External reviewer, special volume in Marine Geology assigned to “*Material exchange between the continental shelf and mangrove fringed coasts with special reference to the Amazon-Guianas coast*”

**Public outreach and popular-scientific articles (since 2010)**

Author and lecturer of ~15 reports and presentations for public outreach in natural sciences

**Expert for scientific reports:**

“*Techniques to reduce the availability of nutrients in shallow water embayment...* (in Swedish),

Report to the County Administrative Board (Länsstyrelsen), pp 16

2008

**Keynote lectures (since 2000, selected):**

Keynote “*Nitrogen transformations in marine sedimentary environments: alternative pathways of anoxic oxidations*”, the Gordon Conf. (Chemical Oceanography), NH, USA 2001

Keynote “*2-D fluorosensors and diagenetic processes*”, the Gordon Conf. (Chemical Oceanography) NH, USA 2005

Keynote “*Dynamic, high-resolution imaging of solute distributions in marine sediments*” the American Chem. Soc., Geochemical Award Meeting, Chicago, USA 2007

Keynote “*Chemical implications on coastal hypoxia*”; Intl. workshop on coastal hypoxia, Finland 2007

Chair of the opening session “*Bioturbation - from local to global scales*”,

*Nereis Park 2nd conference on bioturbation*, Renesse, the Netherlands 2008

Session Chair “*Benthic Systems*”, the Gordon Conf. (Chemical Oceanography), NH, USA 2009

Keynote “*Benthic systems*”, Session introduction and field overview, the Gordon Conf.

(Chemical Oceanography), NH, USA 2009

Keynote “*Optical sensors and environmental analyses*” Intl. Conference

“*Instrumentation and environmental sensors*”, Pays Basque, France 2012

**B. MAJOR RESEARCH GRANTS AND FELLOWSHIPS (SINCE 2000) -**

Ca. 33 MSEK granted from more than 25 research projects (e.g. 9 NFR/VR, 1 EU BONUS, 7 FORMAS, 1 MISTRA idéstöd)

**Other:**

Examiner for a Ph.D. degree in chemistry (alt. Natural Sciences specializing in chemistry), 10 PhD students 2007 -

Scientific expert during “round-table” discussions on present and future environmental and climatic challenges with the Swedish Prime Minister, Göteborg 2007

Deputy Head of the Department (50 % commision); Dept. of Chemistry, Univ. of Gothenburg 2009-2012

Vice Dean; Faculty of sciences (65 % commision); Univ. of Gothenburg 2012–2018

Member, steering group (BONUS) “*Nutrient cocktails in the coastal zone of the Baltic Sea - COCOA*” 2014-2017