

CURRICULUM VITAE

Surname: **Bäck, Saara** Helena

Date of birth: 14.12.1960, Nationality: Finnish, Family: Two children (24 and 17 years)

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Education:

1984-86 B.Sc., University of Joensuu, Chemistry, M.Sc., University of Helsinki, Botany
1991 Ph.D., University of Liverpool, Marine Botany
1994 Docent in Hydrobiology at the University of Helsinki, Finland
2005-2007 Professor in Finnish Environment Institute

Professional experience:

1982-86 Short-term jobs in Regional Water Authorities and private environmental companies, Research assistant, Univ. of Helsinki, Botanical garden & Museum
1987-93 The Academy of Finland, in Liverpool University and Nottbeck Foundation, Research student,
1991-94 University of Helsinki, Research assistant and Finnish Botanical Publishing Board, Editor-in-Chief
1994 - 2001 Finnish Environment Institute, Senior Scientist, Div. of Impacts Research
2002- 2007 Finnish Environment Institute, Research Department, Head of the Baltic Sea research division
2008- 2009 Senior Adviser, Ministry of the Environment, Baltic and water Issues

Current position:

2009- 2014 Environment Counsellor, Ministry of the Environment, head of Water Protection and environment impact assessment Unit
2015- Environment Counsellor, Ministry of the Environment, Head of Water and Marine Protection Unit

Administrative, scientific and expert projects:

2019-2020 Chairperson of HELCOM
2015- EU Water and Marine Director in Finland
2009- EU Water Director in Finland
2005-2009 Argumenta seminar series on the Baltic Sea.
2006-08 Member of the management Board of METLA (Finnish Forest Research Institute)
1999-06 Expert and member in working group of setting the regulation for Water Framework Directive in Finland
2005-06 Expert in the working groups of biodiversity and eutrophication for Finland's Water Protection Policy outline to 2015.
2002-05 External reviewer for Research Council of Norway Programme of Eastern and Central Balkan
2000-01 Expert in the working group of Finland's programme for the Protection of the Baltic Sea. Ministry of Environment.
1998-2005 European Environment Agency (EEA): Contact person for Environment Topic Center for Marine and Coastal Environment (ETC/MCE)
1994-1995 Member in preparing the action plan for Water Quality Targets for 2005
1994- Expert member of several HELCOM MONAS and HABITAT working groups.

Participation in International and national Projects:

2000-07 EU financed international research projects dealing with Baltic Sea Nature conservation, ecological and chemical status of surface waters, European lifestyles and marine ecosystems, Geological information and geological nature values for the sustainable development, Monitoring long-term trend in eutrophication and nutrients in the coastal zone, Dynamics and function of the coastal types

- 2000-2003 Co-operative project together with Russian Academy of Sciences, Environmental state of littoral zone of the vicinity of St. Petersburg
- 2006-08 Inventory of Baltic Sea underwater biodiversity Ministry of Environment. Cluster programme.
- 2003-2005 Baltic Sea Research Project on Baltic Coastal Ecological Data for Environment. Academy of Finland.
- 1987-2003 Scientific projects with several students on ecology and physiology of Atlantic and Baltic macroalgae

Publications:

Books, dissertations and international conference publications:

Bäck, S. Markku Ollikainen, M. Bonsdorff, E Eriksson, A. Hallanaro, E-L Kuikka, S. Viitasalo, M. Walls, M. (toim.) 2010: Itämeren tulevaisuus. s. 350. Gaudeamus

Bäck, S. 1991 : Comparative autecology of Baltic and Atlantic *Fucus vesiculosus* L. - Ph. D. thesis. Univ. of Liverpool 140 pp.

Selected (6) scientific original articles in international journals, total number 27

- **Bäck, S.**, Collins, J. C., Russell, G. 1991: Aspects of reproductive biology of *Fucus vesiculosus* from SW coast of Finland -*Ophelia* 34:129-141.
- **Bäck, S.** & Ruuskanen, A. 2000: Distribution and maximum depth of *Fucus vesiculosus* along the Finnish coastline. – *Marine Biology* 136:303-307.
- Lehvo, A., **Bäck, S.** & Kiirikki, M. 2001: Growth of *Fucus vesiculosus* L. (Phaeophyta) in the northern Baltic Proper - Energy and nitrogen storage in seasonal environment.- *Botanica Marina* 44: 345-350.
- **Bäck, S.** , Ekebom, J. & Kangas, P. 2002: A proposal for a long-term baseline phytobenthos monitoring programme for the Finnish Baltic coastal waters: Monitoring submerged rocky shore vegetation. - *Environmental monitoring and assessment* 79: 13-27.
- Blomster, J., **Bäck, S.**, Fewer, D.P., Kiirikki, M., Lehvo, A., Maggs, C.A. & Stanhope, M.J. 2002: Novel morphology in *Enteromorpha* (Ulvophyceae) forming green tides- *American Journal of Botany* 89: 1756-1763.
- Perus, J., Bonsdorff, E., **Bäck, S.**, Lax, H.-G., Villnäs, A. and Westberg, V. 2007. Zoobenthos as Indicators of Ecological Status in Coastal Brackish Waters: A Comparative Study from the Baltic Sea. *AMBIO* 2-3.

Selected (6) Professional articles and reports.

- **Bäck, S.**, Lehvo, A. & Kiirikki, M. 1993: Vesikasvillisuus Olkiluodon voimalaitosten vesialueella. (Aquatic vegetation on the area of Olkiluoto power station). - Loppuraportti. 33 s. Seaweed Oy
- **Bäck, S.**, Ekebom, J., Kangas, P., Kautsky, H., Mäkinen, A. & Rönnberg, O. 1996: Phytobenthic biodiversity in the northern Baltic Sea. - Background, methods, and suggestions for future actions. - *TemaNord* 1996:559:1-91. Nordic Council of Ministers.
- EU Phare 1998 (Jak, R., **Bäck, S.**, Martin, G. & Babitsenko, S.): Guidelines for eutrophication biomonitoring techniques. -EU Phare DADAM Project Report.
- **Bäck, S.** & Lindholm T. 1999: Vesi- ja rantaluonnon monimuotoisuuden säilyttäminen (Conservation of aquatic biodiversity). -*Suomen ympäristö* 364:1-82
- Kauppila, P. & **Bäck, S.** (eds) 2001: The state of Finnish coastal waters in the 1990s. *Finnish Environment* 472: 132 pp.
- Fawn, R., **Bäck, S.** & Bergan, S. 2005: The Cooperation programme with South-Eastern Europe. Research and higher education. Evaluation report. 56 pp. The research Council of Norway and Norwegian Centre for International cooperation in higher education.