



Nordenskjöld Lecture

Connecting Analytical Thinking and Intuition: Challenge's for leadership and education in Earth System Sciences

**Speaker: Prof. Anders Omstedt, Department of Marine Sciences,
university of Gothenburg**

Time: 6 April, 2016, 11:00-12:00

Place: Hörsalen, Geovetarcentrum, Guldhedsgatan 5C, Gothenburg

Abstract

We are living in a world of increasing complexity in which accurately perceiving reality is important and difficult. Society's need to address "global grand challenges" requires that the scientific community initiate inter-disciplinary research often very unlike current education programmes, which are usually based on intra-disciplinary science. Improving our understanding of complex problems and communicating this understanding to a large group of people of differing backgrounds and educational levels, such as students and scientists from various disciplines, politicians, experts, and laypeople, represents a great challenge. This presentation illustrates how analytical thinking and intuition can be trained, and I propose a method for connecting both aspects in a systematic way (Omstedt, 2016). The connection between Science and Art, which is now a demanding research area, is a great possibility for us scientists to improve our thinking. The dream group process developed by prof. Montague Ullman, which includes training in analytical, empathetic, and self-reflection skills in combination, is an excellent tool. In science, we learn to observe nature in an objective way, organizing measurement platforms and building mathematical models. Now is the time to employ methods that help us exploring our driving forces, to improve our thinking skills and better understand how humans are influencing society and nature.



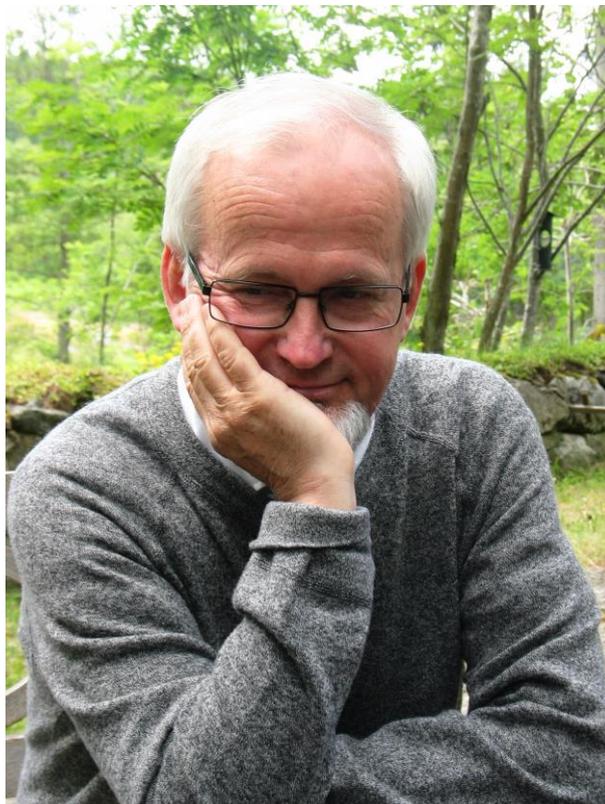
UNIVERSITY OF
GOTHENBURG

Reference:

Omstedt, A. (2016). *Connecting Analytical Thinking and Intuition: And the Nights Abound with Inspiration*. Hillevi Nagel (photos) Springer Briefs in Earth Sciences. ISBN: 978-3-319-27533-8 (Print) 978-3-319-27534-5 (Online). DOI 10.1007/978-3-319-27534-5. Springer International Publishing.

Short biography of the speaker

Prof. Anders Omstedt has made outstanding contributions to Baltic Sea research and scientific leadership during several decades and participated actively in several national and international scientific bodies. He has been involved in the built up of the Stockholm Marine Centre during the 1990th, improved service to winter navigation when working at SMHI during 1980th and 1990th and played a key role in the development of the BALTEX and BACC programs aiming to connect scientists around the Baltic Sea to address environmental and climate change problems since 1995 up to present. He has also been able to initiate, together with the BALTEX leadership, the forming of the Baltic Earth program presently running and oriented towards regional Earth System modelling. The research results have been actively communicated to the Swedish government through the Swedish Institute for the Marine Environment where Omstedt was scientific coordinator and to HELCOM, to university students and to the general public through teaching, seminars and different types of publications. He has long experience working with dreams according to the Ullman method and is a dream group leader approved by the Swedish Dream Group Forum.



About Nordenskjöld Lecture

The Nordenskjöld Lecture is the high profile session of the Earth System Science seminar series at the University of Gothenburg, designed to bring the leading world researchers to share their thoughts and perspectives. The lecture honours the memory of Otto Nordenskjöld, the first August Röhss professor of Geography and Ethnography at our university, who organised and led the first Swedish Antarctic expedition 1901-1903.