

## CURRICULUM VITAE: Anders Boström

2019-02-13

Professor of mechanics, emeritus since 2018-12-01

Department of Mechanics and Maritime Sciences, Chalmers University of Technology,  
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### Personal data

Date of birth: November 2, 1951. Married, two children.

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### Orcid

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### Higher education degrees

M.Sc. in Engineering Physics, 1975, Chalmers. Obtained the John Ericsson medal for outstanding exam.

B.Sc. in Russian, Economy, Psychology, Philosophy, 1977, Gothenburg University.

### Doctoral degree

Ph.D. in Mathematical Physics, 1980, Chalmers. Thesis: *Scattering of stationary elastic waves in three-dimensional geometries*, advisor: Staffan Ström.

### Docent level

Docent in Mathematical Physics, 1982, Chalmers.

### Positions at Chalmers

1975 – 1980 Doctoral student, Institute of Theoretical Physics.

1980 – 1985 Assistant professor (“forskarassistent”), Institute of Theoretical Physics.

1986 – 2018 Professor (chair) in mechanics.

### Teaching experience

Have given courses in mechanics, vibrations, strength of materials, mathematical physics, etc., on all academic levels. Have supervised many master theses and 17 licentiate theses.

### Supervision

Have been actual main advisor for 20 Ph.D. theses: Lennart Lundquist, 1986; Sven-Erik Sandström, 1988; Lars Peterson, 1989; Arne Eriksson, 1992; Sune Olsson, 1993; Gert Persson, 1993; Ahmed El-Bahrawy, 1994; Håkan Wirdelius, 1995; Per-Åke Jansson, 1995; Jonas Niklasson, 1997; Gunnar Johansson, 2001; Tomas Grahn, 2002; Tatiana Krasnova, 2005; Anders Karlström, 2006; Anders Hägglund, 2007; Karl Mauritsson, 2010; Jonathan Westlund, 2011, Lars Larsson, 2014, Reza Okhovar, 2015, Jacob Rubenson, 2107. These theses contain about 70 published papers (of which about half are published without me as co-author).

Have had two visiting PhD students Zhigang Cao, 2011 – 12, and Zonghao Yuan, 2015 – 16, both from Hangzhou, leading to published papers.

Have in addition been examiner and/or co-advisor for about 12 more licentiate and Ph.D. theses.

Post docs (“forskarassistentter”): Peter Olsson, 1986-90; Peter Bövik, 1992-96; Håkan Wirdelius, 1995-97; Jonas Niklasson, 1999-2003. Visiting post docs: Tribikram Kundu: 3 months 1988, Mikhail Golub: 6 months 2011, Guangya Ding 12 months 2013 – 14.

### **Research interests, publications**

Propagation and scattering of elastic waves and vibrations in isotropic, anisotropic, and piezoelectric solid media and structures; modelling of ultrasonic non-destructive testing and railway ground vibrations. Author of about 80 papers (sole author of 18 of these) in international peer reviewed journals, many conference papers and technical reports. *h*-index:20 (web of science).

### **Selected academic services**

Head of the Department of Theoretical and Applied Mechanics 1988 – 1997.

Vice-dean of the School of Mechanical Engineering 1994 – 1997.

Head of the Division of Dynamics, Department of Applied Mechanics 2005 – .

Director of studies for the research school in solid and structural mechanics 1998 – 2008, 2012 – 20.

Reviewer for more than 15 international journals, most often for *J. Acoust. Soc. Am.*, *Wave Motion*, *Phys. Rev.*, and *J. Sound Vibr.* (10 – 20 assignments per year).

Member of about 40 Ph.D. examination committees.

Opponent at 3 Ph.D. and 3 Licentiate dissertations in Sweden, Denmark, and Spain.

External expert at many promotions to professor and other appointments, particularly at KTH.

Member of the board of the Swedish National Committee on Mechanics 1986 – 1992.

Reviewer for the Swedish Research Council and corresponding bodies in Canada, USA, UK.

Member of IUTAM:s General Assembly 1996 – 2008 and IUTAM:s representative in ICA (International Commission on Acoustics) 2000 – 2008.

Member of the scientific committee for a number of conferences, most recently for 19<sup>th</sup> World Conference on Non Destructive Testing, 2016, Munich, Germany, and 17<sup>th</sup> European Conference on Non Destructive Testing, 2018, Gothenburg.

### **External funding**

National Swedish Board for Technical Development (STU) 1983 – 1992.

Swedish Radiation Safety Authority (SSM, formerly SKI) 1989 – 2017.

Swedish Research Council for Engineering Sciences (TFR) and Swedish Research Council (VR) 1991 – .

National Aviation Research Program (NFFP) 1995 – 1997.

Volvo Research Foundation 1999 – 2001.

Chalmers Railway Mechanics Centre (CHARMEC) 2003 – 2006.

EU project PICASSO 2009 – 2012.

EU project PUC 2014 – 18.