

## Curriculum vitae Gunnar Elgered as of November 3, 2013

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Date of birth: January 8, 1955  
Place of birth: Götene, Sweden  
Citizenship: Swedish

Basic education: Primary school in Götene, 1961–1970; “Gymnasium” in Katedralskolan, Skara 1970–1972 and Västerhöjds skolan, Skövde, 1972–1973

University: M.Sc. Electrical Engineering, Chalmers, 1973–1977

Military service: K3, Skövde, June 1977 – May 1978

Ph.D. study: June 1978 – November 1983 in Space Physics at Chalmers  
Ph.D. exam: November 25, 1983; Thesis: “*Water Vapor Radiometry with Applications to Radio Interferometry and Meteorology*”, supervisor: Prof. Bernt Rönnäng

Docent: Docent qualification (associate professorship), 1990

Employment: Assistant Professor (Forskarassistent), Chalmers, 1984–1989  
Research Associate, Harvard–Smithsonian Center for Astrophysics, 1986–1987  
Research Associate, Chalmers, 1990–1994  
Lecturer, Chalmers, 1994–1997  
Associate Professor (Docent), Chalmers, 1997–1998  
Vice chairman (Stf. Prefekt), Dept. of Radio and Space Science, 1998–2000  
Professor (Bitr. Prof.), Chalmers, 1998–2001  
Chairman (Prefekt), Dept. of Radio and Space Science/Earth and Space Sciences, 2000–date  
Professor, Chalmers, 2001–date

Teaching: Master of Science education at Chalmers:  
Supervision of laborative exercises in various courses, 1978–date.  
Supervision of problem solving exercises in various courses, 1979–date.  
Examiner and lecturer for courses in:  
Satellite Communication 1988, 1990, 1993–date  
Electrical and Engineering Measurements, several slightly different courses at the different undergraduate schools at Chalmers, 1994–date  
Radar and Communication Systems, 1997–1999  
Supervision of some 50 Masters Thesis Projects, 1982–date  
External examiner for the Master of Science programme in *Satellite Positioning Technology* at the University of Nottingham, UK, 2001–2004

Courses, lectures, and seminars at/for companies, e.g.,  
Saab-Ericsson Space, Volvo, AutoLiv, and Ericsson Microwave

Supervision of Graduate Students	Ioannis Ifadis, Tekn.Lic. exam 1987 (assistant supervisor) Jan Johansson, Ph.D exam 1992 (assistant supervisor) Per Jarlemark, Ph.D exam 1997 Ragne Emardson, Ph.D exam 1998 Lubomir Gradinarsky, Ph.D exam 2002 Harald Bouma, Tekn.Lic. exam 2002 Borys Stoew, Ph.D exam 2004 Camilla Granström, Tekn.Lic. exam 2006 (assistant supervisor) Surat Pramualsakhikul, Tekn.Lic. exam 2007 (assistant supervisor) Tobias Nilsson, Ph.D exam 2008 Tong Ning, Ph.D exam 2012
Member Ph.D. Examination Committees	at Universities of Gothenburg, Stockholm, Copenhagen, Helsinki, Barcelona, New Brunswick, Nottingham, Delft, Cape Town, the Technical University of Denmark, Aalto University, Helsinki, and ETH, Zürich
Public Outreach:	Supervision of School Science Projects Popular Science Articles Lectures in the Gothenburg Science Festival Guiding visitor groups at the Onsala Space Observatory and Chalmers
Selected Professional Activities:	Member (student representative) steering board for Dept. of Radio and Space Science with Onsala Space Observatory, 1982–1983 Deputy member HOB (Högskolestyrelsens Onsala Beredning), 1984–1995 Deputy member steering board for Dept. of Radio and Space Science with Onsala Space Observatory 1985–1991 Member American Geophysical Union 1986–date Member steering board Onsala Space Observatory, The Swedish National Facility for Radio Astronomy, 1990–2006 Member steering board for Dept. of Radio and Space Science with Onsala Space Observatory, 1991–1993 Member Scientific Organizing Committee for the IAG symposium “ <i>Refraction of Transatmospheric Signals in Geodesy</i> ”, Hauge, May, 1992 Chairman IAG Special Study Group 1.128: <i>The Wet Propagation Delay</i> , 1991–1995 Associate Member Swedish National Committee for Radio Science (Section F) 1991–date Corresponding Member IAG Special Commission SC3: <i>Fundamental Constants (SCFC): Ad-Hoc Working Group on Refractive Indices of Light, Infrared and Radio Waves in the Atmosphere</i> , 1992–1999 Member IAG Special Study Group 1.159: <i>Use of GPS Positioning for Atmospheric Monitoring</i> , 1995–1999

Organizing the “11th Working Meeting on European VLBI for Geodesy and Astrometry”, editor of the Conference Proceedings, August 1996

Member of the Research Committee of the School of Electrical and Computer Engineering, Chalmers, 1998–2000

Chairman (and Swedish delegate) of the COST Action 716—“*Exploitation of Ground-Based GPS for Climate and Numerical Weather Prediction Applications*”, 1998–2004

Chairman of the Chalmers internal strategy project “*Teknologen som kund och medarbetare*”, 1998–2002

Chairman of Section F of the Swedish National Committee for Radio Science 1999–2011

Chairman of the Scientific organizing committee of COST Action 716 workshop “Towards Operational GPS Meteorology”, Oslo, Norway, July 2000

Member Scientific Preparatory Group for the WATS mission, ESA 2001

Chairman of the Scientific organizing committee of 2nd COST Action 716 workshop, Potsdam, Germany, January 2002

Member Mission Advisory Group (MAG) for the ACE+ mission, ESA, 2002–2004

Proinspector of The Chalmers Student Union, 2002–2009

Member of the Board for the Master of Science programme in Electrical Engineering, Chalmers, 2002–2007

Convener and member of the Scientific Organizing Committee of International workshop on GPS Meteorology, Tsukuba, Japan, January 2003

Chairman of the Scientific Organizing Committee of Final Workshop of COST Action 716, KNMI, De Bilt, December, 2003

Member of the Editorial Board, Journal of Geodesy, 2004–2007

Member of the Swedish Research Councils (VR) Committee on expensive research equipment (Dyrk), 2004

Member of the selection committee for a Professor in Navigation at DTU, Copenhagen, 2008

Member of the Governing Board of CHASE (Chalmers Antenna Systems Excellence centre), 2009–2011

Member of the Reference Group for Electronic Publishing, Chalmers, 2010–date

Member of the Task Team 2: GPS-PW of the GCOS Reference Upper-Air Network (GRUAN), 2010–date

Member of the Steering Group of Chalmers Lärandecentrum, 2010–date

Member of an Assessment team of Master Programme for ACE Denmark, Accreditation Institution, 2011

Member of the “Expert Panel on Tropospheric Turbulence” for the Square Kilometre Array (SKA) project, 2011

Member of “Metrologirådet” (National Metrology Advisory Board), VINNOVA, the Swedish Governmental Agency for Innovation Systems, 2012–date

Member of the GNSS Science Advisory Committee, ESA, 2013–date

Swedish delegate of the COST Action ES1206—“*Advanced Global Navigation Satellite Systems tropospheric products for monitoring severe weather events and climate (GNSS4SWEC)*”, 2013–date

- Publications: Author or co-author to 55 reviewed papers  
in international journals and books, some 150 conference  
papers and abstracts, and some 30 other reports, 1981–date
- Awards: NASA Group Achievement Award, 1985, “The Great Alaska and Pacific  
VLBI Experiment Team (GAPE)”  
NASA Group Achievement Award, 1986, “Crustal Dynamics Project”  
Fellow International Association of Geodesy, 1995  
Best lecturer award, Chalmers Professional Education, 2011
- Current  
Research: Applications of space geodesy including very-long-baseline  
interferometry (VLBI) and the Global Positioning System  
(GPS) to study geodynamics and the atmosphere of the Earth.  
Improving instrumentation and methods for atmospheric  
measurements, especially using radio waves and remote  
sensing techniques such as microwave radiometry  
Alternative examination methods in Engineering Measurements