

Born October 12th, 1960, in Göteborg, Sweden. Swedish citizen.

Professional preparation

Undergraduate Studies	Engineering Physics, Chalmers University of Technology, Göteborg, Sweden. Graduated April 1983. Diploma work: Multiellipsoid mirror furnaces for sounding rockets
Post Graduate Studies	Experimental Physics, Chalmers University of Technology, Göteborg, Sweden. Materials Science. Graduated April 1988. Doctoral Thesis: Interfacial microstructure in ZnO Varistor Materials. (Supervisor: Gordon Dunlop)
Post Doc	IBM Research Division, T.J. Watson Research Center, Physical Sciences, Yorktown Heights, New York, USA, April 1989-June 1991. (With David Clarke, now at Harvard)
Docent Competence	Experimental Physics. Chalmers University of Technology and Göteborg University, May 1994.
Present	Professor, Department of Applied physics, Chalmers University of Technology, Göteborg, Sweden

Appointments

- April 1988 to April 1989: Chalmers University of Technology, Department of Physics. **Research Associate**.
- April 1989-June 1991: IBM Research Division, T.J. Watson Research Center, Physical Sciences, Yorktown Heights, New York, USA. **Post-doc**.
- June 1991 to February 1996: Chalmers University of Technology, Department of Physics. **Assistant Professor** (Forskarassistent).
- February 1996 to September 1997: Chalmers University of Technology, Department of Physics, **Associate Professor** (Lektor).
- September 1997 to September 2001: Uppsala University, The Ångström Laboratory, Analytical Materials Physics, **Full Professor** (Professor).
- September 2001 to present: Chalmers University of Technology, Applied Physics, Microscopy and Microanalysis, **Full Professor** (Professor).
- May 2003 to May 2012: Head of Microscopy and Microanalysis, Department of Applied Physics, Chalmers University of Technology.
- July 2003 to 2014: Director of Material Analysis at Chalmers (MACH), Chalmers.
- April 2005 to July 2011: Deputy head of the Department of Applied Physics, Chalmers University of Technology.
- May 2012 to present: Head of Eva Olsson Group, Department of Applied Physics, Chalmers University of Technology.

Supervision of PhD students and Post Docs

A list of supervised PhD students (15) and post docs (10) can be provided.

Established exchange program

Have established an exchange programs with Stanford University, Lawrence Berkeley National Laboratory (National Center for Electron Microscopy) and Ernst Ruska Centre, Forschungszentrum Jülich.

Examples of Honours and Commissions of trust

- 1987, Vattenfall (Power Distribution Authority of Sweden)

- 1988, Asea Brown Boveri in the form of a round-the-world trip with the purpose to visit and give seminars at different international research institutes.
- 1988, Award for technically important research results from SKF
- 1988, Award for valuable and innovative research from Saab-Scania
- 1989, Award (Wallenberg stipendiet) from the Sweden-America Foundation
- Editor of Journal of Materials Science, 2004-2005 (resigned when I became Deputy Head of the Department of Applied Physics).
- Vice chair of the “ämnesrådet NT” at VR (the Swedish Research Council) 2004-.
- Chairman of VR’s committee of New Areas and Interdisciplinary Research, 2001-2003.
- Member of VR’s Engineering Physics Committee, 2001-2003.
- Member of EPSRC Visiting Evaluation Panel at Cambridge University, April 2005.
- Member of the education committee of the School of Physics and Engineering Physics, Chalmers University of Technology, September 1993-1997.
- Member of the steering committee of the Ångström Laboratory, Uppsala University, 1997-2000.
- Faculty opponent on PhD thesis defenses internationally.
- Scientific advisor for professorships internationally.
- Coordinator of the Swedish Superconductivity Consortium, April 1993-2001
- Board member of IMEGO, research institute for microelectronics, 1998-2002.
- Scientific leader and head of the center for Material Analysis at Chalmers (MACH), 2001-.
- Member of the Board of the Polar Research Institute, 2005-2007.
- Vice chairman of the EU COST domain Materials science, physics and nanoscience (MPNS) 2006-2008.
- Chair of the EU COST domain on Materials science, physics and nanoscience (MPNS) 2008-2010.
- Vice President/General secretary of SCANDEM, January 1998-2001.
- President of SCANDEM (the Scandinavian Society for Electron Microscopy), 2003-2007.
- Co-organiser of the conference “Innovative Dynamic Studies of Materials at the Nanoscale”, Gyeong-ju, Korea, June 29-July3, 2008.
- Chair of symposium on Nanostructured materials and nanolab at the 14th European Microscopy Congress, Aachen, September 1-5 2008.
- Appointed member of the External Advisory Panel, Imperial college, Department of Materials, London , UK, 2012-present
- Member of the reference group for the NANOMAX beamline at MAX IV, Lund.
- Elected member of the Executive Committee of the International Federation of Societies for Microscopy (IFSM), 2010-present
- Co-organiser of the Advanced Electron Microscopy School, 21st June- 4th July, 2009, in Copenhagen-Gothenburg.
- Co-organiser of the In-Situ Microscopy session, M&M 2009 meeting, July 26-30, Richmond, VA, USA.
- Co-organiser of “In-situ dynamic studies” at Microscience 2010, June 28-30, London, UK.
- Co-organiser of symposium M12 Engineered Nanostructures at IMC 17 in Rio de Janeiro, September 19-24, 2010.
- Co-organiser of In Situ and Environmental EM at the European Microscopy Congress 2012, September 16-22, 2012, Manchester, UK.
- Organiser of the workshop “Advanced transmission electron microscopy- current trends and future challenges”, March 25-27, 2013, Gothenburg, Sweden.
- Co-organiser of the symposium “Microscopy and spectroscopy of materials for power generation and for energy conversion and storage” at the annular USA Microscopy & Microanalysis 2014 in Hartford, Connecticut, USA, Connecticut.
- Co-organiser of the symposium “Environmental microscopy” at the International Microscopy Conference 2014 (held every fourth year) in Prague, September 2014.
- Co-organiser EUROMAT2015, Area D Characterisation and Modelling, September 2015, Warsaw, Polen.
- Organiser of international ESTEEM2 Advanced In situ Transmission Electron Microscopy workshop, July 20-23, 2015, Gothenburg, Sweden.
- Elected member of the Swedish Royal Academy of Sciences, Physics, 2011.

Research description

The focus is on direct correlation between local structure and properties. Interfaces are of particular interest due to their significant influence on the properties and microstructural evolution. The goal is a fundamental understanding of the properties of materials and knowledge of how to design new materials and structures with tailored properties. The main research tool is electron microscopy and in situ techniques.

Publications and Invited Talks

More than 200 papers published in refereed journals, e.g. Appl. Phys. Lett, Nature Photonics, Nature Physics, Nature Communications, Phys. Rev. Lett., review in MRS Bulletin and two book chapters. On average 4 invited talks at larger international conferences per year and 3 invited talks at international research laboratories. H-index 35 (web of science).