

Curriculum Vitae of Professor Dage Sundholm

1. Personal details

- SUNDHOLM, Dage Mats Börje
- ORCID: 0000-0002-2367-9277
- 22.12.1957, in Munsala, Finland
- www.chem.helsinki.fi/~sundholm



2. Education and degrees completed

- 1985, Doctor of Philosophy, University of Helsinki (UH)
- 1983, Licentiate of Technology, Åbo Akademi University
- 1981, Master of Science (Eng.), Åbo Akademi University
- 1990, Docent in Physical Chemistry, UH

3. Current Position

- Professor of Computational and Theoretical Chemistry, Department of Chemistry, UH, Finland, 1.12.2009- (expected retirement 31.12.2025 according to present rules)

4. Previous work experience

- Visiting Scientist, Center for Advanced Study, Det Norske Vitenskapsakademiet, Oslo, Norway, 2017-2018, 6 months.
- Visiting Scientist, University of California, Irvine, USA, 1.9.2015-30.11.2015.
- Visiting Scientist, Ludwig-Maximilian University, Munich, Germany, 1.4.2015-30.6.2015.
- Visiting Scientist, Massey University, Albany, New Zealand, 17.1.2015-23.3.2015.
- Research director, Finnish Center of Excellence in Computational Molecular Science, UH, 1.1.2006-30.11.2009.
- Senior Research Scientist, Department of Chemistry, UH, 1.8.2000-31.12.2005
- Acting Professor, Department of Chemistry, Laboratory for Instruction in Swedish, UH, Finland, 1.8.1997-31.7.2000.
- Visiting Scientist, Theoretische Chemie, Universität Karlsruhe, 1.1.1994-31.7.1995.
- Senior Research Scientist, The Academy of Finland, 1.9.1990-31.7.1991, 1.5.1992-31.7.1997.
- Scholarship for Senior Scientists, The Academy of Finland, 1.4-31.8.1990.
- Research assistant, Swedish Natural Science Research Council, at Department of Theoretical Chemistry, University of Lund, Sweden, 1.9.1986-25.8.1988.
- Laboratory instructor, Department of Chemistry, Division for Swedish Speaking Students, UH, Finland, 1.1.1986-31.12.1995 (on leave 1.9.1986-25.8.1988, 1.4-31.8.1990, 1.9.1990-31.7.1991, 1.5.1992-31.12.1995)
- Research assistant, The Academy of Finland, 1.9.1980-31.12.1981, 1.1.1982-31.12.1984, 1.1-31.12.1985

5. No Career breaks

6. Personal research funding and grants (in the past five years)

- The Academy of Finland: 693 414 € (2014-2018); 14 700 € (2016-2017); 23 600 € (2015-2016); 11 800 € (2017); 2 000 € (2017); 600 000 € (2018-2022)
- Magnus Ehrnrooths stiftelse: 29 500 € (2016); 3 000 € (2017); 5000 € (2018); 28 000 € (2019); 2000 € (2020); 2000 € (2021)
- Svenska kulturfonden, 6 000 € (2018); 26 000 € (2019); 26 000 € (2020); 37500 € (2021)
- Otto Malms stiftelse 2 500 € (2018)
- Waldemar von Frenckells stiftelse 4 000 € (2019), 4 000 € (2020)
- Oskar Öflunds stiftelse 3 000 € (2019)

7. Leadership and supervision experience

- Chairman of the LASKEMO Graduate School, 2012-2015
- Chairman of the QUASIMODO National Research Project, 2013-2016 chairman.
- Supervised 11 PhD students, 15 M.Sc. students, 7 B.Sc. students, co-supervised 6 international PhD students

- Organized the annual Winter School in Theoretical Chemistry 1991, 1995-2019 with 70-100 participants every year. In 2018, 180 young researchers attended the school.

8. Teaching experience

- Lectures in Physical Chemistry, Swedish Institute of Technology, Helsinki, 1991-1992 (390 h).
- Lectures in Quantum Chemistry, Department of Chemistry, UH, 1993 (40 h).
- Lectures in Physical Chemistry, Atomic and Molecular Structure (Atkins), Department of Chemistry, 1997-1999, 2010, 2011, 2014, 2016, 2018-2020.
- Lectures in Physical Chemistry, Thermodynamics (Atkins), Department of Chemistry, UH, 1998-2000, 2010-2014.
- Lectures in Physical Chemistry, Dynamics (Atkins), Department of Chemistry, UH, 2008-2014.
- Lectures in Electronic Structure Theory, Department of Chemistry, UH, 2012, 2018, 2020
- Lectures in Molecular Properties, Department of Chemistry, UH, 2018, 2020
- Lectures in Computational Nanoscience, 2011-2014, 2016-2020.
- Lectures in Nanophysics and Nanochemistry, 2012-2014, 2016-2020.
- Lectures in Physical Chemistry, Combined Thermodynamics and Dynamics (Atkins), Department of Chemistry, UH, 2016-2017, 2019-2020.

9. Experience of organising scientific meetings

- Co-organized "A Voyage From Molecules to Materials with Numerical Methods for Quantum Chemistry", 2015
- Organized "Workshop on Magnetically Induced Currents in Molecules", 2014
- Co-organized "International Congress of Quantum Chemistry", 2009, secretary.
- Organized "Finnish Symposium on Quantum Chemistry", 2001, chairman.

10. Patents, inventions, awards and honours

- A: 266 Scientific papers, B: Non-refereed scientific articles 17, C: Scientific book chapters 4, E: publication intended for general public 16, G: Thesis 3, H: Patents 1, I: 12 ICT software 12
- H-index: 47, 7689 citations (WoS, 05.04.2021)
- Fulbright Scholar Program, Non-US Visiting Scholar, 1.9.2015-30.11.2015
- Humboldt-Research Fellowship, Alexander von Humboldt Stiftung, 1.4.2015-30.6.2015
- E.J. Nyström Prize awarded by The Finnish Society of Sciences and Letters, 2013
- Awarded the Best Poster Platinum Certificate at the World Association of Theoretically Oriented Chemists (WATOC) 2005 Conference, Cape Town, South Africa, 20.1.2005.
- Humboldt-Research Fellowship, Alexander von Humboldt Stiftung, 1.1.1994-31.7.1995.
- A grant for a research project in physical chemistry by Waldemar von Frenckells stiftelse, 1991.
- "Det Alfthanska priset", Finska Kemistsamfundet r.f., 1988

11. Other key scientific or academic merits

- Member of the Finnish Academy of Sciences and Letters, 2015
- Member of the Finnish Society of Sciences and Letters, 2009

12. Memberships and positions of trust in scientific societies

- Member of the steering group of Finnish Society of Sciences and Letters 2013-2019
- Editorial board in Molecular Physics and International Journal of Quantum Chemistry
- Advisory Board for Physical Chemistry Chemical Physics
- Guest editor, Theoretical Chemistry Accounts, 2010, Physical Chemistry Chemical Physics 2010, 2011, 2015
- Referee for research projects in Austria, Belgium, Chile, Czech Republic, Estonia, Israel, Netherlands, Poland, Sweden, USA.
- Faculty opponent in Denmark, Estonia, Finland, Norway, Sweden
- Member of the Selection Committee of the The King Faisal International Prize in Science, 2005, 2008, 2009, 2013, 2014, 2017.
- Reviewer for the D. Wynne Thorne Career Research Award
- Employment expert for professor positions in Irvine, Tampere