

CURRICULUM VITÆ
NOVEMBER, 2011

NAME, NATIONALITY

Bo Y. Thidé, Swedish

LANGUAGE COMMAND

Swedish (mother tongue), English (fluently; Certificate of Proficiency in English, Cambridge University, UK), German (some), French (some), Russian (very rudimentary), Spanish (very rudimentary), Italian (learning).

CURRENT AFFILIATION

Scuola Galileiana di Studi Superiori

Università degli Studi di Padova

Via Giovanni Prati, n.19, IT-351 22 Padua, Italy.

Swedish Institute of Space Physics

P. O. Box 537, SE-751 21 Uppsala, Sweden.

Home page: www.physics.irfu.se/~bt

Department of Physics and Astronomy, Uppsala University

P. O. Box 516, SE-751 20 Uppsala, Sweden.

Home page: www.fysast.uu.se

ACADEMIC DEGREES AND APPOINTMENTS

Professor, Scuola Galileiana di Studi Superiori (Galilean School of Higher Studies), University of Padua, Padua, Italy, 2011.

Professor, Space Physics and Wireless Communication, Växjö University, Sweden, 2002.

Professor, Head of Programme ‘Physics in Space’, Swedish Institute of Space Physics (IRF), Uppsala, Sweden, (appointed by the Swedish Government), 2000.

Associate Professor, Space Physics (formerly Geocosmical Physics), Uppsala University, May, 1984.

Ph.D. (Wave theory, Semiclassical Physics), Department of Theoretical Physics, Uppsala University, Sweden, June, 1979.

M.Sc., with honours (Majors: Mathematics, Physics, Theoretical Physics. Minors: Theoretical Philosophy, Computer Science, Astronomy, Meteorology, Theory of Science), Uppsala University, Sweden, May, 1973.

B.Sc., with honours (Theoretical Physics, Mathematics, Theoretical Philosophy), Uppsala University, Sweden, February, 1972.

PREVIOUS ACADEMIC POSITIONS

Visiting Scientist, Department of Astronomy, University of Padua, Italy, October, 2008.

Visiting Professor, Space Physics and Wireless Communication, Växjö University, 2002–2007.

Director of Science (at the professor level), Swedish Institute of Space Physics, 1991–2000.

Visiting Scientist, International Center for Advanced Studies (INCAS), Nizhniy Novgorod, Russian Federation, September, 1998.

Visiting Scientist, National Astronomy and Ionosphere Center, Cornell University, Arecibo Observatory, Puerto Rico, USA, October, 1985–March, 1986.

Senior Scientist, Swedish Institute of Space Physics, 1983–1991.

Senior Research Engineer, Swedish Institute of Space Physics, 1981–1983.

Research Assistant, Swedish Institute of Space Physics, 1980–1981.

Visiting Scientist, Department of Mathematics (Professor E. Squires), University of Durham, UK, Autumn, 1977.

University Lecturer, Department of Theoretical Physics, Uppsala University, 1975–1978 (part-time), 1979–1980.

Research Assistant, Department of Theoretical Physics, Uppsala University, 1972–1979.

PROJECT MANAGMENT

Project Coordinator, European Commission INTAS 2004–2007.

Programme Director, IRF 'Physics in Space' 2000–.

Project manager, IRF 'Wave Group' 1982–2000.

PARENTAL LEAVE, MILITARY SERVICE

PRIZES AND AWARDS

The Edlund prize, the Royal Swedish Academy of Sciences, for the discovery of Stimulated Electromagnetic Emissions and their use in ionospheric research, 1991.

The Lundström-Åman scholarship, Faculty of Mathematics and Science, Uppsala University, 1974–1976.

TEACHING

Padua:

Classical Electrodynamics (2011)

Uppsala:

Classical Electrodynamics (1993–2007, 2009–2011)

Wave Propagation (1999, 2005)

Statistical Mechanics for Non-Equilibrium Systems (2000, 2003, 2006)

Electromagnetic Sensors (2001, 2002)

Non-Linear Waves, Solitons and Chaos (1992)

Space Physics (1991)

Plasma Waves (1990)

Fluctuations and Non-Linear Wave Interactions in Plasmas (1990)

Ionospheric and Magnetospheric Physics (1985)

Non-Linear Wave Phenomena in Plasmas (1982)

Mathematical Methods of Geocosmical Physics and Plasma Physics (1981)

Mathematical Methods of Physics (1979, 1980)

Analytical Mechanics (1979, 1980)

Thermodynamics and Statistical Mechanics (1975–1980)

DOCTORAL STUDENT SUPERVISION

Dr. Åke Hedberg, 1985, Dr. Thomas Leyser, 1989, Dr. Simon Goodman, 1993, Dr. Mattias Waldenvik, 1994, Dr. Tobia Carozzi, 2000, Dr. Bengt Eliasson, 2002, Dr. Jan Bergman, 2004. Dr. Roger Karlsson, 2005, Dr. Mykola Khotyaintsev, 2007, Dr. Lars Norin, 2008, Dr. Lars Daldorff, 2009, Dr. Gabriele Anzolin (Padua), 2009.

In addition, Bo Thidé has supervised five students to their Licentiate degrees, and twenty to their Master's degrees. Currently he is external supervisor for the PhD students Elettra Mari and Anna Sponselli (Padua).

POST-DOC COLLABORATION

Dr. Pavlo V. Ponomarenko, 1996–1997; Dr. Holger Then, 2004; Dr. Axel Guthmann, 2003–2005.

THESIS REVIEWER

M.Sc. John Bendjamin, Institute of High Voltage Research, Uppsala University, December 17, 1997.

M.Sc. Anna Sponselli, Department of Astronomy, University of Padua, Italy, October, 2009.

PH.D. EXAMINATION COMMITTEES

Member of more than 35 PhD examination bodies at various universities and institutes in Sweden and abroad.

PUBLICATIONS, CONFERENCES, PUBLIC OUTREACH

More than 200 publications (books, book chapters, articles, conference proceedings, lectures, and other scientific presentations). More than 60 invited talks/lectures. More than 20 appointments as programme and/or organisation committee chairman or member at international scientific conferences. More than 60 public articles/interviews in newspapers, journals, radio and TV. Recurring contributor to the 'Vetenskapsradion' ('Science Radio', Swedish Broadcasting Corporation).

REFEREE APPOINTMENTS

Funding Agencies:

European Commission (EC); National Science and Research Council of Canada (NSERC); Research Council of Norway (RCN); Royal Swedish Academy of Sciences (KVA); Swedish Research Council (VR); National Science Foundation (NSF), USA; Royal Society, UK; Leverhulme Trust, UK; INTAS, European Community; Soros Foundation, USA; Swedish International Development Cooperation Agency (SIDA); Qatar National Research Foundation (QNRF); Georgian National Science Foundation (GNSF); Superior Council of the National Fund for Scientific & Technological Development (FONDECYT), Chile.

Lectureships/Professorships:

University of California, Los Angeles, USA; Uppsala University, Uppsala, Sweden; Linköping University, Sweden; Stockholm University, Sweden; Blekinge Tekniska Högskola, Sweden.

Textbooks:

Institute of Physics Publishing; Springer-Verlag

Articles in scientific journals:

Journal of Atmospheric and Terrestrial Physics; Journal of Geophysical Research; Radio Science; Physica Scripta; Geophysical Research Letters; Annales Geophysicae; Journal of Physics D: Applied Physics; Laser and Particle Beams; Software-Practice & Experience.

JOURNAL EDITOR APPOINTMENTS

Co-Editor, The Open Atmospheric Science Journal, 2007–present.

Guest Editor, Journal of Atmospheric and Solar-Terrestrial Physics, 1997.

CURRENT RESEARCH INTERESTS

Electromagnetic angular momentum methods for diagnostics of vorticity. Radio wave propagation and interactions. Electromagnetic radiation from turbulent space plasma (phenomenon discovered experimentally by Bo Thidé in 1981 in Tromsø, Norway). Development of innovative experimental techniques for space studies. Advanced electrodynamics in the Universe. Non-equilibrium plasma processes. Computers and computing in physics. Theory of science.

COMMISSIONS OF TRUST (PARTIAL LIST, PAST FIVE YEARS)

Member, Executive Committee, LOFAR-Sweden Consortium, 2009–.

Member, International Advisory Committee, Plasma and Space Science Center, National Cheng Kung University, Tainan, Taiwan, 2009–.

Member, Board of Governance, School of Engineering, Blekinge Institute of Technology (BTH), Sweden, 2009–.

Member, Committee for Physics and Astronomy, National Science and Engineering Research Council (NSERC), Canada, 2009–.

Core Member, LOFAR Solar Physics and Space Weather Key Science Project (KSP) 2008–.

Deputy Chairman, Programme Committee for Education in Information Technology and Electrotechniques, Uppsala School of Engineering, Uppsala University, 2005–2008.