

JAAK AAVIKSOO

Curriculum Vitae

Date and place of birth:

January 11, 1954, Tartu

Education:

Tartu Secondary School No. 2 (present-day Miina Härma Gymnasium) - graduated in 1971

University of Tartu, theoretical physics - graduated *cum laude* in 1976.

PhD (Candidate of Physics and Mathematics) – Institute of Physics of the Estonian Academy of Sciences
1981

Professional experience:

1976 – 1992 junior, senior and leading research scientist at the Institute of Physics of the Estonian Academy of Sciences

1981 – 1994 worked as a guest professor at the Novosibirsk Institute of Thermal Physics (Russia), Max Planck Institute for Solid State Research (Germany), Osaka University (Japan) and University of Paris VI (France)

1992 – 2015 Professor of optics and spectroscopy at the University of Tartu

1992 – 1995 the first Vice-Rector of the University of Tartu

1995 – 1995 Minister of Culture and Education

1996 – 1996 Minister of Education

1996 – 1998 Head of the Institute of Experimental Physics and Technology of the University of Tartu

1998 – 2003 Rector of the University of Tartu

2003 – 2007 Rector of the University of Tartu

2007 member of the XI composition of the parliament of Estonia

2007 – 2011 Minister of Defence

2011 member of the XII composition of the parliament of Estonia

2011 -- 2014 Minister of Education and Research

2015 – member of the XIII composition of the parliament of Estonia

2015 – Rector of the Tallinn University of Technology

Honours, awards:

1994 Academician at the Estonian Academy of Sciences

2000 Order of Merit of the National Coat of Arms, class IV

2000 Grand Cross of the Order of Merit of the Federal Republic of Germany

2000 Medal of the University of Tokyo

2002 Medal of the City of Tartu

2003 Honorary Doctor of the University of Turku

2004 member of the Academia Europea

2006 Order of the White Rose of Finland

2006 Order of Merit of the White Star, II class

2007 Cross of Merit of the Estonian Evangelical Lutheran Church, III class

2007 National Order of Merit of France

2009 Order of the Three Stars of the Republic of Latvia

2011 Estonian Defence League White Cross, I class

2012 Honorary Doctor of the University of Lapland

Research-administrative experience:

Estonian Academy of Sciences - Head of Division of Astronomy and Physics, Board Member,
Estonian Defence League - member of the Academic Unit and member of the Board of Elders
Journal Akadeemia - member of the editorial board
(Current/former) member of several other Estonian and international councils, committees, expert councils,
etc.

Marital status:

Widow. Children: Ain Aaviksoo (1974), Berit Aaviksoo (1978) and Helmer Aaviksoo (1985).
Spouse Tiina Kaalep.

ANNEX: List of publications.

ANNEX

(Non-exhaustive) list of publications:

A total of over 100 scientific articles, from which more than 50 in international peer-reviewed publications, and over 200 publicistic articles, including:

1. J.Aaviksoo, J.Kuhl, K.Ploog, Observation of optical precursors at pulse propagation in GaAs. - Phys. Rev. A, **44**, 25353-25356, 1991.
2. I.Reimand, J.Aaviksoo, Surface polarization dynamics revealed by time-resolved resonant reflection of light. - Opt. Commun., **86**(2) 142-146, 1991.
3. J.Aaviksoo, I.Reimand, V.V.Rossin, V.V.Travnikov, Quenching of exciton luminescence by hot electrons in GaAs. - Fiz. Tverd. Tela, **33**(8) 2408-2412, 1991. (in Russian).
4. J.Aaviksoo, I.Reimand, V.V.Rossin, V.V.Travnikov, Kinetics of free exciton luminescence in GaAs. - Phys. Rev. B, **45**(3) 1473-1476, 1992.
5. T.Reinot, J.Aaviksoo, Propagation of polariton luminescence pulses in anthracene. - J. Lumin., **50**(2) 259-264, 1991.
6. J.Aaviksoo, T.Reinot, Ballistic propagation of luminescence pulses in anthracene crystal flakes. - J. Mol. Cryst. Liquid Cryst., **217**, 147-151, 1992.
7. J.Aaviksoo, I.Reimand, V.Rossin, V.Travnikov, Kinetics of exciton formation and relaxation in GaAs. - J. Lumin., **53**, 423-426, 1992.
8. J.Aaviksoo, C.Gourdon, R.Grousseau, P.Lavallard, R.Planel, Photoluminescence quantum yield in GaAs/AlAs superlattices. - Solid State Electronics, **40**(1-8), 687-691, 1996.
9. J.Aaviksoo, C.Gourdon, P.Lavallard, Power nonlinearities in the luminescence spectrum of GaAs/AlAs superlattices. - Solid State Commun., **99**(6), 387-391, 1996.
10. S.O.Kognovitskii, V.V.Travnikov, Ya.A.Aaviksoo, I. Reimand, Light scattering by electrons in the absorption region of GaAs. - Phys. Solid State, **39**(6), 907-913, 1997.
11. I.Reimand, J.Aaviksoo, Exciton interaction with hot electrons in GaAs. – Ultrafast Phenomena in Spectroscopy. Tartu, 1997, 82.
12. J.Aaviksoo Estonian physicist: Active and Productive. - Science, **275**, 463, 1997.
13. J.Aaviksoo Priorities for Higher Education in Central and Eastern European Countries. – Higher Education Management, 9(2), 19, 1997.
14. I.Reimand, J.Aaviksoo, Exciton interaction with hot electrons in GaAs. – Phys. Rev. B, **61**(24), 16653-16658, 2000.