



## Curriculum Vitae

- 1. Name** Arvi Freiberg
- 2. Date and place of birth** June 28, 1948, Kuremäe, Estonia
- 3. Educational history, academic degrees** Diploma *cum laude* in technology of semi-conducting materials (1971) from Tallinn Technical University  
Cand. Sc. (equivalent of Ph.D.) degree in solid state physics (1976) from the Institute of Physics, Estonian Acad. of Sci. Thesis advisor: L. Rebane. Thesis title: *“Peculiarities of electron-phonon coupling and influence of defects on the spectra of molecular impurities in alkali halide crystals”*  
Doctor of Sc. degree in solid state physics (1986) from the Institute of Physics, Latvian Acad. of Sci. Thesis title: *“Picosecond spectrochronography and relaxation processes in condensed molecular media”*
- 4. Career** 2008-present: Head of the Section of Biophysics and Environmental Physics, Institute of Physics, University of Tartu  
2003-present: Professor of Biophysics and Plant Physiology & Head of the Department, Institute of Molecular and Cell Biology, University of Tartu  
1988-present: Head of the Biophysics Laboratory, Institute of Physics, University of Tartu  
1996-2002: Visiting Research Associate, Department of Chemistry and Biochemistry, Arizona State University  
1989-1994: Director, Institute of Physics, Estonian Acad. of Sci.  
1983-1989: Research Director, Institute of Physics, Estonian Acad. of Sci.  
1979-1983: Senior Research Fellow, Institute of Physics, Estonian Acad. of Sci.  
1974-1979: Junior Research Fellow, Institute of Physics, Estonian Acad. of Sci.  
1971-1974: Engineer, Institute of Physics, Estonian Acad. of Sci.
- 5. Research experience and professional training** Ultrafast and selective spectroscopy of condensed matter, photobiophysics, including primary processes of photosynthesis, high-pressure biospectroscopy  
Professional training: Arizona State University (1994-2002, 2009-2010), Lund University (1999), Free University of Amsterdam (1991, 1994), Umea University (1993), Rockefeller University (1991)
- 6. Publications/meetings** About 200 academic publications/110 invited talks
- 7. Teaching/supervising experience** Lecture course in general and biological physics at the University of Tartu, occasional lectures/courses in various research schools/universities  
Advised thesis: K. Timpmann, Cand. Sc. (1985), P. Kukk, Cand. Sc. (1990), S. Savikhin, Ph.D. (1990), T. Pullerits, Ph.D. (1991)  
Supervisions of award-winning undergraduate work

## **8. Professional service**

Member of the Tartu University Council (since 2009)  
Representative of Estonia in ESF COST D35 MC (since 2008)  
Permanent expert for the Cluster of European Large Scale Laser Facilities LASERLAB EUROPE (since 2003)  
Chair of the Estonian Science Foundation Board of Experts in exact sciences (2003-2006)  
Expert for the US DA NRI Competitive Grants Program (1998-2000)  
Chair/co-chair: X Int. Symp. "Ultrafast Phenomena in Spectroscopy" (Tartu, 1997);  
IV Nordic-Baltic Photochemistry Meeting (Tartu, 1993)  
Founding Member of the International Society of Photosynthesis Research (1995)  
Member of the International Photosynthesis Committee (1992-95)  
Chair of the American Physics Society Advisory Board to Estonia (1992-93)  
Founding Member of the Estonian Physics Society (1989)

## **9. Public service**

President of the Tartu Rotary Club (2010-2011)  
Chair of the Tallinn Technical University Board of Regents (1997-2000)  
Chair of the Tartu Science Park Board (1994-96)  
Chair of the Tallinn Technical University Alumnus Board (1993-94).

## **10. Honours/awards**

Member of the Estonian Academy of Sciences (2009)  
State Science Prize (2006)  
"Author of the year" of the Estonian popular science journal Horisont (2005)  
Representative of Europe in the International Society of Photosynthesis Research (1995-98)  
Member of the New York Academy of Sciences (1996)  
International Science Foundation Main Award Grant (1994)  
US DOE Special Fond Award (1993)  
Senior Scientist title (1980)  
Fellowships: Hasselblad Foundation (2001), the Government of India (1996), the Netherlands Organisation for Scientific Research (NWO) (1991), USSR Academy of Sciences (1984)

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