

Curriculum Vitae

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Hannu Erkki Juhani Koskinen

Born January 7, 1954, Keuruu, Finland

University degrees

- *Master of Science*, University of Helsinki, Helsinki, Finland, April 5, 1979
- *Licentiate of Philosophy*, University of Helsinki, Helsinki, Finland, May 5, 1983
- *Doctor of Philosophy*, Uppsala University, Uppsala, Sweden, November 20, 1985
- *Docent in Space Physics* at the University of Helsinki, June 14, 1989.

Present position

- *Professor in Space Physics* at Department of Physics of the University of Helsinki, from August 1, 1997. (Also at the Finnish Meteorological Institute).
Head of the Division of Geophysics and Astronomy, from January 1, 2010
Director of Kumpula Space Centre, from January 1, 2006

Previous professional positions

- *Senior Scientist* funded by the Academy of Finland, August 1, 2008 – July 31, 2009.
- *Head of the Space Research Unit* of the Finnish Meteorological Institute, Helsinki, October 1, 2005 – September 30, 2006. (On leave from the University of Helsinki)
- *Head of the Space Physics Division / Research Group*, Finnish Meteorological Institute, 1991–1997
- *Senior Research Scientist*, Finnish Meteorological Institute, Helsinki, 1987 – 1991.
- *Research Assistant / Associate Scientist*, Uppsala Ionospheric Observatory, Sweden, 1981–1987.

Academies

- Member for Section 1 (Basic Sciences) of the International Academy of Astronautics, 2009– (Corresponding member 2004–2009)
- Finnish Society of Sciences and Letters, Member 2005 –; Member of the Board 2011 –
- Member of the Finnish Academy of Sciences and Letters, 2006 –

Activities within the European Space Agency

- Member of the Solar System Working Group of ESA, 1993–1996.
- Member of the Rosetta SSP Advisory Group of ESA, 1994.
- Member of Assessment Study Science Team for the STORMS mission, Consultant to ESA, 2000.
- Finnish Delegate in the Science Programme Committee, November 2002 –
- Finnish Delegate in the Programme Board of the Space Situational Awareness Preparatory Programme, August 2010 – June 2011; Chair of the Programme Board, July 2011 –

National committees

- Finnish Space Committee: Secretary of the Research and Education section 1989 – 1992; Advisor 2004–2010, Chairman of the Scientific support group, 2010–
- Finnish National Committee of COSPAR (1998–; Chair 2000–), IUGG (1998–), URSI (2000–)
- Member of the Steering Committee of the *Graduate School in Solar-Terrestrial Physics*, 1995–1998 and of the Steering Committee of the *Graduate School in Astronomy and Space Physics*, 1999–
- Member of the Council of Metsähovi Radio Observatory, Member 2006–
- Member of the Council of the Finnish Centre for Astrophysics with ESO, 2010–

Bi-lateral, international, and foreign committees

- Secretary of the Working Group for Space Activities of the Science and Technology Commission between Finland and Russia, 1992–1997.
- Adherent Representative from Finland in the Scientific Committee on Solar-Terrestrial Physics (SCOSTEP), 1994–
- Member of S-RAMP Steering Committee of SCOSTEP, 1998–2002
- Representative of Finland in COSPAR, 2000–
- Member of the European Space Science Committee (ESSC) of ESF, 2000–2003

- Member of EISCAT Council, 2001–2003
- Finnish Delegate in the ESA Science Programme Committee, 2002–
- Member of the MOWG of Living With a Star (LWS) program of NASA, 2003–2005
- Finnish Delegate in the Programme Board of the Space Situational Awareness Preparatory Programme, August 2010 – June 2011; Chair of the Programme Board, July 2011 –

Supervision and other activities with doctoral dissertations

- Supervisor of 7 PhD theses
- Faculty opponent of 5 Ph.D. dissertations; Preliminary examiner of 16 Finnish Ph.D. theses

Participation in experimental space projects

- Co-investigator in the wave experiment on the Swedish Viking satellite (launched 1986)
- Co-investigator in particle and wave instruments on the Swedish Freja satellite (launched 1992).
- Co-investigator in the Swedish microsatellite Astrid (launched 1995)
- Co-investigator in the PROMICS-3 plasma instruments on the two Russian Interball spacecraft (launched 1995 and 1996).
- Co-investigator in the ASPERA-C particle instrument on the Russian Mars-96 spacecraft (destroyed in launch failure, 1996)
- Positions in the Rosetta Lander project (launched 2004)
 - Member of the Rosetta Lander (Philae) Steering Committee 1995 – 2004 and 2007–, Chairman of the Steering Committee April 1, 2009–
 - Member of the RoLand Science Advisory Group (for RoLand instrument selection, 1995)
- Co-I in the ion composition analyzer ICA on Rosetta (launched March 2, 2004)
- Co-investigator in ASPERA-3 instrument on the ESA Mars Express mission (launched 2003)
- Lead proposer of the STORMS mission for the ESA F2/F3 missions, January 2000.
- Chair of the Finnish Steering Committee of the SPEDE instrument for SMART-1 spacecraft (launched 2003), 2001–2003.
- Co-investigator in ASPERA-4 instrument on the ESA Venus Express mission (launched 2005)
- Co-investigator in the SIXS X-ray instrument for the ESA BepiColombo spacecraft
- Member of the Science Support Group of the student satellite Aalto-1, 2011–

ESA contracts

- Study manager of “Study of plasma and energetic electron environment and effects”, 1996–1998.
- Manager of the FMI participation in the “ESA Space Weather Study”, 2000–2001
- Study manager of “Magnetospheric Propulsion (eMPii)”, 2002–2004.
- Study manager of “Boundary Layer Identification Code (BLIC)”, 2011–2012

EU projects

- Partner in the FP7 study “SPACECAST – Protecting space assets from high energy particles by developing European dynamic modeling and forecasting capabilities”, 2011–2014.

Editorial position:

- Editor in Chief of Arkhimedes, a Finnish Journal for Physicists and Mathematicians, 6 issues per year, 2005–2007; Editor 2008.

Acted as a scientific referee for

- Journal of Geophysical Research; Geophysical Research Letters; Planetary and Space Sciences; Annales Geophysicae; Journal of Atmospheric and Solar-Terrestrial Physics; Journal of Geophysics and Geomagnetism; EOS; AGU monographs and other refereed conference proceedings; NASA, NSF, EU, ESF, INTAS, etc. applications; Academy of Finland; Research Council of Norway; Swedish National Space Board; Chilean Research Fund Council; Swedish Research Council; Canadian Space Agency; Väisälä Foundation

Honors and awards

- 1997 Editors' Citation for Excellence in Refereeing for JGR-Space Physics.
- Teacher of the year 2001, elected by students of the Department of Physical Sciences of the University of Helsinki.
- Theodor Homén's price of the Finnish Society of the Sciences and Letters, 2010.