

25 March 2007

Curriculum vitae

Full names	Ari Tapani Karppinen
Place and date of birth	Rautavaara, Finland, 22.12.1961
Current positions	1. Head of Dispersion Modelling group, Finnish Meteorological Institute, Air Quality 2. Adjunct Professor (Docent) ,Physics, University of Helsinki
Education	M. Sc., Applied Physics, Helsinki University of Technology, 1988 Lic. Tech, Applied Physics, Helsinki University of Technology, 1998 D. Sc.(Tech), Applied Physics, Helsinki University of Technology, 2001 Adjunct Professor (Docent), Physics, University of Helsinki, 2004

Previous professional appointments

Outokumpu Oy,

- research assistant 1980-1982

Helsinki University of Technology

- research assistant 1982-84

Finnish Meteorological Institute

- research assistant 1984-86

- research scientist 1987-88

Ministry of the Environment

- research scientist, 1988

Finnish Meteorological Institute

- research scientist 1989-94

- senior research scientist 1994-2004

- head of research group 2004-

Key qualifications

Dr. Ari Karppinen has worked as a research scientist at the Finnish Meteorological Institute since 1984. His expertise is on mathematical modelling, atmospheric physics and chemistry; particularly evaluation of urban air quality, the dispersion of pollution from traffic.

His MSc thesis (1987) dealt with the description and application of a system for calculating radiation doses due to long range transport of radioactive releases and his Licentiate's thesis (1998) studied the effective choice of NO_x – emission control measures. His doctor's thesis (2001) dealt with the meteorological pre-processing and atmospheric dispersion modelling of urban air quality and applications in the Helsinki metropolitan area

Doc. Karppinen is the author of approximately 200 scientific publications; 37 of these in refereed international journals. He has given over 40 lectures and presentations at scientific conferences

Doc. Karppinen's group is currently working on projects:

1. Global and regional Earth-system Monitoring using Satellite and in-situ data – GEMS, EU, FP6, 2005-2009
2. Multimodal Air Quality Information Service for General Public - MARQUIS, EU, eContent, 2005-6.
3. EU/eLUP
4. EU/Henvinet
5. EU/Cair4HEalth
6. Cefic-iF, Cefic, 2006-8
7. NBC Modelling and Simulation, Ministry of Defence
8. Validated models describing Nordic urban and regional concentrations of particles and OC/EC. – NORPAC , NMR
9. ESA/PROMOTE, European Space Agency, 2006- ,
10. Cooperating EO Sensors ,COPS, European Space Agency, 2006 -,
11. PHARE/Twinning: Lithuania 2005-7
12. CARDS/Twinning: Macedonia , 2006-7
13. Enhancing meso-scale meteorological modelling capabilities for air pollution and dispersion applications – COST 728, ESF
14. Quality assurance and improvement of micro-scale meteorological models – COST 732, ESF
15. Long-range atmospheric transport of natural allergic pollutants , Academy of Finland, 2004-2007
16. Helsinki TestBed , 2005 -2007, TEKES
17. PILTTI, Puun pienpolton ja liikenteen pienhiukkasten päästöt, leviäminen, väestöaltistus ja terveysvaikutukset , 2006-7 , Ympäristöklusteri/YM
18. ShipNoEM, LVM & Interreg 2006-
19. VIEME , LVM, 2005-2007

Professional membership in scientific societies

1. COST 710, “Preprocessing of Meteorological Data for Dispersion Modelling”. National representative of Finland, 1995-98.
2. COST 715, “Meteorology Applied to Urban Air Pollution Problems”. National representative of Finland, 1998-2004.
3. COST 732 , “Quality assurance and improvement of micro-scale meteorological models “, National representative of Finland and Management Group member, 2004 - .

Language proficiency

Finnish: native language, English: excellent, Swedish: basic, German: basic

Contact information

Address: Finnish Meteorological Institute, Research and Development
PL 503, 00101 HELSINKI

Phone: +358 9 1929 5453, mobile +358 40 5346809, fax +358 9 1929 5403

Email: Ari.Karppinen@fmi.fi

WWW: http://www.fmi.fi/organization/contacts_11.html,
<http://www.fmi.fi/cv/arikarppinen.html>