

Kim Pilegaard



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Date of Birth 24 August 1950, Frederiksberg, Denmark

Education **Ph.D. (Lic. scient.)** June 1978
University of Copenhagen, Institute of Plant Ecology
Biological Monitoring of Air Pollution (method development and applications)

Cand. scient. June 1975
University of Copenhagen
Biology (environmental sciences)

Graduated June 1969
Efterslægtsselskabets skole

Post Education **External courses:**

- Situational leadership 2003
- Leadership in practice 2002–2005
- Workplace Safety 2002
- Statistical modelling and advanced programming 1999
- Ecotoxicology 1983
- University teaching techniques 1977

Internal courses:

- Speech training
- Marketing
- Project leadership
- Presentation technique
- Personal Development

Positions	Adjunct Professor , University of Copenhagen <ul style="list-style-type: none"> • Institute of Biology (Biosphere–Atmosphere exchange) 	Jan 2006 –
	Head of Department , Risø National Laboratory, DTU <ul style="list-style-type: none"> • Biosystems Department 	Nov 2005 –
	Acting Head of Department , Risø National Laboratory <ul style="list-style-type: none"> • Plant Research Department (now Biosystems Department) 	May 2004 – Oct 2005
	Deputy Head of Department , Risø National Laboratory <ul style="list-style-type: none"> • Plant Research Department 	Feb 2002 – Apr 2004
	Head of Programme , Risø National Laboratory <ul style="list-style-type: none"> • Plant Research Department, Ecosystems Programme 	Jun 2001 – Feb 2006
	Acting Head of Programme , Risø National Laboratory <ul style="list-style-type: none"> • Plant Research Department, Ecosystems Programme 	May 2000 – May 2001
	Senior Scientist , Risø National Laboratory <ul style="list-style-type: none"> • Plant Biology and Biochemistry Department 	Jul 1992 – Apr 2000
	Scientist , Risø National Laboratory <ul style="list-style-type: none"> • Environmental Research Department • Ecology and Health Physics Department • Chemistry Department 	Sep 1981 – Jun 1992
	Post. doc. , University of Copenhagen <ul style="list-style-type: none"> • Institute of Plant Ecology 	Jun 1978 – Jul 1981
	Ph. D. student , University of Copenhagen <ul style="list-style-type: none"> • Institute of Plant Ecology 	Dec 1975 – May 1978
	Teaching Assistant , University of Copenhagen <ul style="list-style-type: none"> • Institute of Plant Ecology 	Feb 1972 – Jun 1975

Research profile My research has been centered around exchange of components between the atmosphere and terrestrial ecosystems. The first 10 years mainly dealt with spread and deposition of heavy metals from industrial activities such as power plants, steel works and mining (Greenland). The next 10 years were centered on aspects of acid rain and atmospheric chemistry. During this phase I started working with micrometeorology and implemented flux measurement methods of nitrogen oxides and ozone. During the last decade the main emphasis has been on greenhouse gas exchange including long-term measurements of CO₂ fluxes and effects of climate change.

Research output 69 papers in peer reviewed journals (including 3 papers in Nature). ISI citation index: 2461 times cited (September, 2007).

- Committees**
- Bundesministerium für Bildung und Forschung** (Germany)
 - Project evaluation for AFO2000 (German Programme on Atmospheric Research (2000–2006)).
 - Danish Center for Atmospheric Research (DCAR)**
 - Chairman of working group on effects

Danish Polar Center

- AMAP (Arctic Monitoring and Assessment Programme) steering groups on terrestrial environment and air pollution

Direktoratet for Fødevarer Erhverv

- Programme committee for the research programme “Jordbruget i et ressourcemæssigt helhedsperspektiv”.

International Geosphere–Biosphere Programme

- Member of Danish National Committee

EU

- Project evaluation under FP4 and FP5
- Evaluation of Marie Curie applications
- External observer on the GRAMINAE project

European Science Foundation

- Member of steering committee for Scientific Programme: Stable Isotopes in Biospheric-Atmospheric Exchange (SIBAE)
- Evaluation of applications for programmes and fellowships

EUROTRAC-2

- Steering committee for Biosphere Atmosphere Exchange (BIATEX-2).

International Geosphere–Biosphere Programme (IGBP)

- Danish National Committee 2007-

Ministry of the Environment

- Environmental consequences of coal-fired power plants
- Environmental assessment of cadmium
- Evaluation of projects under Nordic Council of Ministers (MIL-3)

Ministry of Greenland

- Assessment of air pollution around lead mine in Maarmorilik
- Assessment of proposals for mining columbium and tantalum

Ministry of Research

- International evaluation of Danish environmental research
- National strategy for agricultural research (working group on forest and landscape)

Norges Forskningsråd (Norwegian Research Council),

- Evaluation of research proposals

The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning,

- Evaluation of research proposals

Fonds Wetenschappelijk Onderzoek (FWO), Flanders, Belgium,

- Evaluation of research proposals

Censorship**Technical University of Denmark**

- Courses in air pollution
- Project and masters theses

University of Copenhagen

- Courses in ecology and plant physiology
- Project and masters theses
- Ph.D. theses

University of Jena, Germany

- Ph. D. thesis

University of Lund, Sweden

- Ph. D. thesis

University of Helsinki, Finland

- Ph. D. thesis

Consultancy

- Greenex A/S
- DOPCO A/S
- NKT A/S
- Hecla Mining Corporation

Academic Honours

Norbert Gerbier–Mumm International Award
For paper by Law et al. 2002 (see list of publications)

2004

Referee

- Agricultural and Forest Meteorology
- Ambio
- Atmospheric Chemistry and Physics
- Atmospheric Environment
- Biogeochemistry
- Biogeosciences
- Boreal Environmental Research
- Canadian Journal of Forest Research
- Environmental Pollution
- Environmental Science and Technology
- Forest Ecology and Management
- Geophysical Research Letters
- Global Biogeochemical Cycles
- Global Change Biology
- Journal of Environmental Quality
- Journal of Geophysical Research
- Oecologia
- Tellus
- Tree Physiology
- Water, Air and Soil Pollution

Major recent research projects

IMECC, EU
Infrastructure for Measurement of the European Carbon Cycle.
CO₂ flux measurements in beech forest.

2007–2011

NitroEurope-IP, EU
Integrated European research into the nitrogen cycle
Flux measurements in forests.

2006–2011

ACCENT, EU Networks of Excellence
Atmospheric composition change.

2004–2009

Member of steering committee of subproject BIAFLUX. Organized Workshop on flux methodology, Risø April 2005.	
CARBOEUROPE-IP, EU The role of the European continent in the global carbon cycle. Flux measurements in forest and grassland.	2004–2009
CLIMAITE, Willum Kann-Rasmussen Foundation Climate change effects on biological processes and natural ecosystems.	2004–2009
GREENGRASS, EU Sources and Sinks of Greenhouse Gases from managed European Grasslands and Mitigation Strategies. CO ₂ exchange over grassland.	2001–2004
NOFRETETE, EU Nitrogen oxides emissions from European forest ecosystems. NO emission from forest floor; NO ₂ exchange over forest.	2001–2004
CARBOEUROFLUX, EU An investigation on Carbon and Energy exchanges of terrestrial ecosystems in Europe. CO ₂ exchange over forest, soil respiration.	2000–2003
CORE, EU Climate Atmosphere Interactions. Continuous field measurements for observations of atmospheric compounds and properties.	2000–2003
FOREXNOX, EU Exchange of ozone and nitrogen oxides at the forest atmosphere interface. Flux divergence of NO, NO ₂ and O ₃ .	2000–2003
Centre for Sustainable Land Use and Management of Contaminants, Carbon and Nitrogen, Danish Environmental Research programme Effects of Land Use and Organic Waste Application on Carbon and Nitrogen Fluxes.	1997–2001
EUROFLUX, EU Long term carbon dioxide and water vapour fluxes of European forests and interactions with the Climate System. CO ₂ exchange over forest, soil respiration.	1996–1999
BEMA-II, EU Biogenic Emission in the Mediterranean Area. Exchange of O ₃ , NO and NO ₂ over orange orchard.	1996–1997
Centre for Terrestrial Ecosystem Research, Danish Environmental Research programme. Nitrogen fluxes in coniferous ecosystems.	1992–1997
“FOREXNOX-1”, EU	1992–1995

Fluxes of NO, NO₂ and O₃ over forest.

TRACT, EU

1990–1992

Transport of Pollutants over Complex Terrain.

Exchange of O₃, NO and NO₂ over re-grown wheat.