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Birthday: 27th November 1943

Examinations: Diploma in Meteorology, Universität Mainz, FRG 1969
Ph. D., Universität Mainz, 1974.

Professional Career:

1968-69 Technical Assistant, Meteorologisches Institut, Universität Mainz
1969-74 Scientist, Universität Mainz
1974-75 Visiting scholar Department of Civil Engineering, Water & Air Resources,
University of Washington, Seattle, WA, USA
1975-77 Scientist, Universität Mainz
1977-79 Guest researcher at the International Meteorological Institute in Stockholm
1979-83 1. Research assistant; section physics of the atmosphere, Department of
Meteorology, University of Stockholm
1983- Associate professor in physical and chemical meteorology, Department of
Meteorology, University of Stockholm
1985-88 Managing Director, Department of Meteorology, University of Stockholm
1993- Professor at the University of Leipzig, chair in Physics of the Atmosphere
1993- Director of the Institute for Tropospheric Research in Leipzig

PATENTS

US-Patent Nr. 4,689,052: Droplet to aerosol converter, a device for
sampling clouds, fog and similar droplet
systems
US-Patent Nr. 09/907,071: Method and apparatus for investigating
temporal development of particles or droplets
in a gas-vapor mixture
Swedish Patent: B 11 469 648 Digital light chopper for several fiber-optical
channels
European Patent: 98 250 270.0 Method and procedure for a quantitative
Determination of soot
European Patent: EP1299367B1 Verfahren zur Herstellung von Expoxiden
durch Oxidation von Olefinen

AWARDS

1969 NATO Visiting lectureship, Department of Civil Engineering, Water & Air
Resources, University of Washington, Seattle, WA, USA
1974 Postdoc-Stipend of the German Research Foundation
1980 Ivar Bendixsson Stipend for lecturers at the University of Stockholm
1986 Ymer-Stipend for Swedish Polar Research
1986 1. Price for a scientific radio program of the National Swedish Broadcast
Company
1988 1. Price "Aerosol Researcher of the Year" of the Scandinavian Society for
Aerosol Research
1990, 1997,
2000 Fellowship of the Japanese Science and Technology Agency

SOCIETIES AND COMMITTEES

Ad Hoc Committee for the Atmospheric Sciences by the German Science Foundation and the Ministry for Research, Education and Technology (chair)
 Berlin-Brandenburger Akademie der Wissenschaften
 Committee on Nucleation, International Commission on Cloud Physics
 Contributions to Atmospheric Physics, Chief Editor
 Coordination group of the DFG Research Program SPP-1233 Megacities
 Coordination of the DFG-Research Program SPP-1294 for the development of the High Altitude, LOng range research aircraft HALO
 Deutsche Meteorologische Gesellschaft
 DFG, Senatskommission für Atmosphärische Wissenschaften
 ESF Scientific User Committee for EUFAR (European Fleet for Atmospheric Research)
 EUREKA environmental project EUROTRAC Scientific Steering Committee
 German Research Council (DFG) Review board for atmospheric and oceanic sciences
 IGAC Scientific Steering Committee
 IGAC/IGBP coordinating committee for the Polar Air-Snow Experiment (PASE)
 IGAC/IGBP coordinating committee for the project "The Chemical and Physical Evolution of CCN as Controllers of Cloud Properties"
 INDOEX International steering group
 International Glaciological Society
 Member of the presidential board of the „Gottfried Wilhelm Leibniz“ Society
 National Committee for Global Change Research, Germany
 Permanent Scientific Advisory Committee of the Centro de Geofisica de Evora, Portugal
 Sächsische Akademie der Wissenschaften
 Scandinavian Society for Aerosol Research (Founding Member)
 Scientific Advisor to the German-Israeli Foundation for Scientific Research and Development
 Scientific advisory board of the German Weather Service
 Scientific Advisory Board of the Research Institute for Humanity and Nature, Kyoto, Japan
 Speaker of the section Environmental Sciences of the Society „Gottfried Wilhelm Leibniz“
 Swedish Geophysical Society
 Tellus B Advisory board, Chemical Meteorology
 Vice-chairman International Global Aerosol Program
 Working group on Aerosols and Climate of the Radiation Commission, International Association of Meteorology and Atmospheric Physics

TEACHING EXPERIENCE

Title	type
Aerosol Heating and Cooling in the Atmosphere	graduate
Aerosol Science and Technology	graduate
Air Chemistry	basic
Atmospheric Aerosols	basic
Cloud Physics	basic+graduate
Diffusion of Trace Substances in the Atmosphere	basic
Modern Meteorological Instruments	basic
Radiation and Optics of the Atmosphere	basic
Remote Sensing in the Atmosphere	graduate
Statistical methods in Climatology	basic
Frontiers in Earth system research	basic

REFEREED PUBLICATIONS

- Heintzenberg, J. and Quenzel, H., 1973. Calculations on the determination of the scattering coefficient of turbid air with integrating nephelometers. *Atmos. Environ.*, 7: 509-519.
- Heintzenberg, J. and Quenzel, H., 1973. On the effect of the loss of large particles on the determination of scattering coefficients with integrating nephelometers. *Atmos. Environ.*, 7: 503-507.
- Porch, W.M., Ensor, D.S., Charlson, R.J. and Heintzenberg, J., 1973. Blue moon: is this a property of background aerosol? *Appl. Opt.*, 12: 34-36.
- Heintzenberg, J., 1975. Determination in situ of the size distribution of the atmospheric aerosol. *J. Aerosol Sci.*, 6: 291-303.
- Heintzenberg, J. and Baker, M., 1976. Spherical particle populations: approximate analytical relationship between size distribution parameters and integral optical properties. *Appl. Opt.*, 15: 1178-1181.
- Heintzenberg, J. and Bhardwaja, P.S., 1976. On the accuracy of the backward hemispheric integrating nephelometer. *J. Appl. Meteor.*, 15: 1092-1096.
- Heintzenberg, J., 1977. Spectral light scattering and the atmospheric aerosol over the Atlantic. *'Meteor'-Forschungsergeb., Reihe B*, 12: 1-9.
- Heintzenberg, J., 1978. Particle size distributions from scattering measurements of nonspherical particles via Mie-theory. *Contr. Atmos. Phys.*, 51: 91-99.
- Heintzenberg, J. and Witt, G., 1979. Extension of atmospheric light scattering measurements into the UV region. *Appl. Opt.*, 18: 1281-1283.
- Heintzenberg, J., 1980. Particle size distribution and optical properties of Arctic haze. *Tellus*, 32: 251-260.
- Heintzenberg, J., Hansson, H.-C. and Lannefors, H., 1981. The chemical composition of Arctic haze at Ny-Ålesund, Spitsbergen. *Tellus*, 33: 162-171.
- Heintzenberg, J., Müller, H., Quenzel, H. and Thomalla, E., 1981. Information content of optical data with respect to aerosol properties: numerical studies with a randomized minimization-search-technique inversion algorithm. *Appl. Opt.*, 20(8): 1308-1315.
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- Heintzenberg, J., 1982. Size-segregated measurements of particulate elemental carbon and aerosol light absorption at remote Arctic locations. *Atmos. Environ.*, 16: 2461-2469.
- Heintzenberg, J. and Welch, R., 1982. Retrieval of aerosol size distribution from angular scattering functions: Effects of particle compositions and shape. *Appl. Opt.*, 21(5): 822-830.
- Heintzenberg, J. and Bäcklin, L., 1983. A high sensitivity integrating nephelometer for airborne air pollution studies. *Atmos. Environ.*, 17: 433-436.
- Heintzenberg, J. and Larssen, S., 1983. SO₂ and SO₄ in the Arctic: Interpretation of observations at three Norwegian Arctic-subArctic stations. *Tellus*, 35B: 255-265.
- Lannefors, H., Heintzenberg, J. and Hansson, H.-C., 1983. A comprehensive study of physical and chemical parameters of the Arctic summer aerosol; results from the Swedish expedition Ymer-80. *Tellus*, 35B: 40-54.
- Covert, D.S. and Heintzenberg, J., 1984. Measurements of the degree of internal/ external mixing of hygroscopic compounds and soot in atmospheric aerosols. *Sci. Total Environ.*, 36: 347-352.
- Heintzenberg, J. and Covert, D.S., 1984. Size distribution of elemental carbon, sulphur and total mass in the radius range 10⁻⁶ to 10⁻⁴ cm. *Sci. Total Environ.*, 36: 289-297.
- Heintzenberg, J. and Winkler, P., 1984. Elemental carbon in the urban aerosol: Results of a seventeen month study in Hamburg, FRG. *Sci. Total Environ.*, 36: 27-38.
- Heintzenberg, J., 1985. Physical and chemical aerosol characteristics in clean air masses at Cape Grim, Tasmania. *J. Rech. Atmos.*, 19(2-3): 125-129.
- Heintzenberg, J., 1985. What can we learn from aerosol measurements at baseline stations? *J. Atmos. Chem.*, 3: 153-169.
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