

Dr. Wolfram Birmili

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Curriculum Vitae

Oct 1989 – Dec 1994	Undergraduate and graduate studies in Physics at the University of Tübingen, Germany
Aug 1991 – Jun 1992	Studies in Physics, English, French at the Mount Allison University, Canada.
Jan 1995 – Mar 1998	Research work on a PhD thesis at the Leibniz Institute for Tropospheric Research (IfT) in Leipzig, Germany.
Aug 1998	PhD at the University of Leipzig, title "Atmospheric new particle formation in continental air masses".
April 1998 – Feb 2001	Postdoctoral research at the Leibniz Institute for Tropospheric Research in Leipzig, Germany.
Mar 2001 – Feb 2003	EU Marie Curie Research Fellow at the University of Birmingham, Department of Environmental Health, UK.
Since May 2003	Research scientist at the Leibniz Institute for Tropospheric Research in Leipzig, Germany.
Jan 2004 – March 2010	Leader of the research group "Tropospheric Aerosols" at the Physics Department of IfT.
Jan – Jun 2006	Guest professor at the University of Helsinki, Division of Atmospheric Sciences.
Since April 2010	Deputy leader of the research group "Tropospheric Aerosols" at the Physics Department of IfT.

Research Interests

- Atmospheric aerosols - climate and health effects
- Aerosol physical and chemical processes
- Aerosol measurement and characterisation techniques
- Networks of in-situ aerosol characterisation
- Secondary formation of new atmospheric particles
- Long-range transport of atmospheric aerosols
- Statistical analysis of long-term observations
- Urban and traffic-generated aerosols
- Microscale dispersion of urban aerosols
- Boundary layer meteorology

Editorial Work

Wolfram Birmili is associate editor of *Atmospheric Chemistry and Physics*, and member of the editorial board of *Boreal Environmental Research*.

Publications

Wolfram Birmili is the author of currently 70 peer-reviewed scientific articles, 16 of which as a first author.

PhD thesis

Birmili, W.. Formation of Ultrafine Aerosol Particles in the Continental Boundary Layer, University of Leipzig, Defense 9/1998. <http://www.vwf.de/autoren/3-89700-081-4.php3>

Peer-reviewed book chapters

Birmili, W. und T. Hoffmann, *Environmental pollutants: Particulate and dust pollution: Inorganic and organic compounds*. Manuscript 133 in *Encyclopedia of Respiratory Medicine*, edited by G. Laurent and S. Shapiro, Elsevier, 2006.

Peer-reviewed journal articles

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Birmili, W., T. Göbel, A. Sonntag, L. Ries, R. Sohmer, S. Gilge, I. Levin, and A. Stohl. A case of transatlantic aerosol transport detected at the Schneefernerhaus Observatory (2650 m) on the northern edge of the Alps. *Meteorologische Zeitschrift*, in press, 2010.

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Heintzenberg, J. and W. Birmili: Aerosols over the Siberian Forest: The ZOTTO project. *Journal of the Cryogenic Society of Japan*, **68**: 1-4, 2010.

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Birmili, W., *Das Messnetz für ultrafeine Partikel in Deutschland (GUAN)*, Kommission Reinhaltung der Luft im VDI und DIN, Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit. Bonn, 24. März 2010.

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Birmili W., *Partikelbelastung in der Außenluft: Aktuelle Herausforderungen*. Landesagentur für Umwelt Südtirol. Bozen, 27. Mai, 2009.

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Birmili W., *Feine und ultrafeine Partikel in der Atmosphäre: Durchführung und Interpretation von Messungen*. Landesagentur für Umwelt Südtirol. Bozen, April 2, 2007.

Birmili, W., *Ultrafine Particles (UFP) Measurements and Modelling*. Invited talk presented on the International conference on Ultrafine Particle Size Distributions in Air Pollution Monitoring Networks (UFIPOLNET), Dresden, October 24, 2007.

Birmili, W., S. Klose, M. Merkel, D. Hinneburg, O. Knoth, K. König, A. Sonntag, T. Tuch, D. Bake, S. Warwel, I. Panzo, A. Schacht, J. Borken. *Temporal and spatial variability of sub- μ m aerosol concentrations in the urban atmosphere of Leipzig*. Invited talk presented on the International conference on Ultrafine Particle Size Distributions in Air Pollution Monitoring Networks (UFIPOLNET), Dresden, October 24, 2007.

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