

## Detlev Helmig Curriculum Vitae

### Personal Information:

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### Education:

Ph.D. in Chemistry, University of Duisburg/Germany, 1989  
Diploma Degree in Analytical Chemistry, University of Bochum/Germany, 1986

### Positions and Experience:

Editor in Chief, *Elementa – Science of the Anthropocene*, 2012-2019.  
Associate Research Professor, University of Colorado, Boulder, 2003-2019.  
Research Scientist III and Fellow with the Institute of Arctic and Alpine Research (INSTAAR), University of Colorado, Boulder, 2001-2019.  
Research Scientist III with the Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, Boulder, 1997-2001.  
Project Scientist in the Aeronomy Laboratory, NOAA, Boulder, 1999-2000.  
Research Associate with the Chemistry Department and the Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, Boulder, 1995-1996.  
Research Scientist with the Atmospheric Chemistry Division (ACD) at the National Center for Atmospheric Research in Boulder (NCAR)/Colorado in the Trace Gas Biogeochemistry group, 1992-1996.  
Postdoctoral scientist in the Statewide Air Pollution Research Center at the University of California/Riverside, 1989-92.  
Ph.D. student at the Fraunhofer-Institute for Environmental Chemistry and Ecotoxicology in Schmallenberg-Grafschaft/Germany, 1987-1989.  
Student research assistant with the Research Institute for the Conservation of Cultural Monuments at the German Mining Museum Bochum in Dortmund-Bövinghausen/Germany, 1984-1986.

### Selected Honors and Awards:

American Geophysical Union Fall Meeting Invited Speaker, 2009, 2010, 2011, 2014, 2015.  
Chair and Member of European Science Foundation Review Panel, 2010.  
Member of World Meteorological Organization Global Atmospheric Watch (GAW) Scientific Advisory Group on Reactive Gases, 2009-2017.  
Guest Editor, "White on Green", *Biogeochemistry*, 2008.

Invited seminar speaker, NOAA Climate Science Division, 2008.

Guest Editor, “GABRIEL: Guiana’s Atmosphere-Biosphere exchange and Radicals Intensive Experiment with a Learjet”. *Atmos. Chem. Phys.*, 2008.

Invited seminar speaker: “Johann Wolfgang Goethe Universität Frankfurt, Kolloquium “Die Troposphärische Eisphase”, 2006.

Visiting Scientist, Max Planck Institute for Chemistry, Mainz, Germany, Aug. – Oct., 2006.

Guest Editor, *Atmospheric Environment*, Special Issue “Air-Snow Gas Exchange in Greenland (ASEG)”, 2006.

Invited participant in AICI (Air-Ice Chemical Interactions) workshop, Grenoble, France, 2006.

Invited seminar speaker, University of East Anglia, Norwich, Great Britain, 2006.

Invited seminar speaker: Institute of Meteorology and Climate Research, Garmisch-Partenkirchen, Germany, 2006.

Invited seminar speaker: Houghton Technological University, 2006.

Invited participant in the WMO-GAW Experts Workshop on Volatile Organic Compounds (VOCs), Geneva, Switzerland, 2006.

Invited book review: “Into the Teeth of the Wind”, *Journal of Arctic, Antarctic and Alpine Research*, Vol. 35, No. 4, pp. 540-541, 2003.

Invited seminar speaker, Climate Monitoring and Diagnostics Laboratory (CMDL) seminar, Boulder, 2003.

Invited seminar speaker, Michigan Technological University, Houghton, 2003.

Received recognition award from the *Journal of Chromatography* for outstanding reviewer service, 2003.

Received appreciation award from the Dean of the Graduate School for “Dedication and Commitment to the Success of Students of Color at the University of Colorado”, 2002.

Invited review article: "Gas Chromatography Air Analysis", *J. Chromatography* 843, 129-146 (1999).

Invited book review: "Perspectives in Environmental Chemistry", *Bulletin of the American Meteorological Society* 79, 2801-2803 (1998).

Invited session chair "Sampling and Analysis of Airborne Organic Compounds", 24<sup>th</sup> Annual Conference of the Federation of Analytical Chemistry and Spectroscopy Societies, Rhode Island, Oct. 26-20 (1997).

US EPA Young Investigator Award, 1996-2001.

Visiting Scientist, Atmospheric Chemistry Division, National Center for Atmospheric Research, Boulder, 1992-1996.

Invited colloquium speaker, The University of Chicago, Geophysical Sciences Colloquium, November 1994.

Postdoctoral fellow at the Statewide Air Pollution Research Center, University of California, Riverside, 1989-92.

Candidate of "Studienstiftung des Deutschen Vokes" (1983).

#### Professional Memberships:

Member of the American Geophysical Union (AGU)