

MARK GARY LAWRENCE

Curriculum Vitae

CONTACT INFORMATION

Institute for Advanced Sustainability Studies (IASS)
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BIRTHDATE and PLACE: 5 February 1969, Woodbury, NJ, USA (US citizen)

CURRENT POSITION AND RESEARCH FOCUS

Scientific director at the IASS and integrative scientist who addresses key challenges of the Anthropocene by bringing together and applying a wide range of academic expertise in his team, including his own background in atmospheric science, as well as going beyond this interdisciplinary foundation to also involve societal actors in a transdisciplinary approach.

His main focal topics include air pollution, climate change, climate geoengineering, environment-related governance of vulnerable regions like the Himalayas and the Arctic, and the interface between sustainability and spirituality.

He also actively supports whole person development as a component of planetary health, including exploring the common ground between the personal transformations and systemic transformations that will be associated with sustainable development, as well as the mindsets needed to bring these into harmony.

SCIENTIFIC EMPLOYMENT

10/2011 – present **Scientific Director**
Institute for Advanced Sustainability Studies, Potsdam, Germany

10/2013 – present **Honorary Professor, Institute for Environmental Sciences and Geography**
University of Potsdam

- 10/2009 – 9/2010 **Interim Professor (Vertretungsprofessor) for Meteorology**
Institute for Physics of the Atmosphere, University of Mainz
(on leave from the Max Planck Institute for Chemistry)
- 1/2006 – 10/2011 **Research Group Leader**
Max Planck Institute for Chemistry, Mainz, Germany
- 8/2000 – 12/2005 **Junior Research Group Leader (Nachwuchsgruppenleiter)**
Max Planck Institute for Chemistry, Mainz, Germany
- 10/1996 - 7/2000 **Post-Doctoral Researcher**
Max Planck Institute for Chemistry, Mainz, Germany
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EDUCATION

**PhD (1996) and Master of Science (1993) in Earth and Atmospheric Sciences,
Bachelor of Science in Physics (1991)**
Georgia Institute of Technology, Atlanta, Georgia

PUBLICATIONS and PRESENTATIONS

Author and co-author of over 150 peer-reviewed scientific publications
Citation statistics (June 2016):

- *Scopus, Web of Science: Citations > 10000, h-score > 50*
- *Google Scholar: Citations > 15000, h-score > 60, i10-index > 130*

Presentations: Numerous invited and contributed presentations at conferences, workshops, institute symposia, summer schools, public education seminars, etc.

SELECTED PROFESSIONAL AND SERVICE ACTIVITIES

- Supervising PhD and Masters students (ca. 25 graduated as of 2019)
- Coordinator, Workpackage Leader or Subproject Leader of several projects funded by the EU and German Research Funding Agencies (DFG, BMBF) (2000 to present).
- Teaching numerous courses on Atmospheric Science and Meteorology, 2002-2011 at the University of Mainz, and since 2013 annually at the University of Potsdam.

- Present and past member of several science advisory, steering and other committees, including:
 - International Global Atmospheric Chemistry program (IGAC) Scientific Steering Committee (2010 – 2018, co-chair from 2015-2018)
 - International Commission on Atmospheric Chemistry and Global Pollution (iCACGP) (Member 2002–2010, 2014-present)
 - Sustainable Development Solutions Network German Chapter (SDSN Germany) Steering Committee (since 2016)
 - Forum for Climate Engineering Assessment Advisory Board (since 2016)
 - Geoengineering Model Intercomparison Project (GeoMIP) Steering Committee (since 2014)
 - Deutsches Klima Konsortium (DKK; English: *German Climate Consortium*) General Assembly
 - Earth System Research Partnership (ESRP) of the Max Planck Society – Associated Member
 - Geo.X (network of geoscience research centers in the Berlin/Potsdam region) – Curatorium
 - ProWissen (science communication and action network in Potsdam) – Curatorium
 - UNEP/ABC (United Nations Environment Program / Atmospheric Brown Clouds project) Steering Committee (2006 – 2015)
 - SCIAMACHY (instrument on the EnviSat satellite) Steering Group (1999 – 2011)
- Editorial board and founding member of the journal *Climanosco* (since 2015)
- Advisory board of the journal *Advanced Sustainability Systems* (since 2016)
- Advisory board of the journal *One Earth* (since 2019)
- Past associate editor of *Atmospheric Chemistry and Physics* (2000-2008) and past member of *Atmospheric Environment* editorial board (2001-2004)
- Jury member for the program „Forschungscampus – öffentlich-private Partnerschaft für Innovationen“ (*Research Campus program – public-private partnerships for innovation*) funded by the Federal Ministry for Education and Research (BMBF) – (since 2012)
- Evaluation committee member of the Center for Sustainable Development (IZNE) in Bonn (February 2019)
- Scientific Program Chair for the 2006 CACGP/IGAC/WMO symposium in Cape Town
- Co-organizer of three training schools for the UNEP/ABC-Asia program (Bangkok – 2006; Kathmandu – 2008 and 2011)