

Curriculum Vitae of Prof. Dr. Johannes Orphal

Director, Institute of Meteorology and Climate Research (IMK)

Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

* born in Magdeburg (Germany), 11.07.1966



Education and Professional Career

- 2009- Director, Institute of Meteorology and Climate Research (IMK), KIT, Karlsruhe, Germany
- 2009- Full Professor of Physics (W3), Karlsruhe Institute of Technology (KIT), Germany
- 2006-2009 Professeur des Universités (Physique), University of Paris-Est, Créteil, France
- 2005-2008 Invited Professor (3 months per year), University College Cork, Ireland
- 2002 Habilitation à Diriger les Recherches (HDR), University of Paris-Sud, Orsay, France
- 1999-2005 CNRS Chargé de Recherche, Laboratoire de Photophysique Moléculaire, Orsay, Laboratoire Interuniversitaire des Systèmes Atmosphériques, Créteil, France
- 1995-1999 Research Scientist (PostDoc), Institute of Environmental Physics (IUP) and Institute of Remote-Sensing (IFE), University of Bremen, Germany
- 1995 Docteur en Sciences (Spécialité "Lasers et Matières"), avec les félicitations écrites du jury (highest honours), Président G. Mégie, University of Paris-Sud, Orsay, France
- 1991-1995 PhD Candidate, CNRS Laboratoire de Physique Moléculaire et Applications, University of Paris-Sud, Orsay, France
- 1991 Diplom-Physiker (Graduation in Physics), Humboldt-University, Berlin, Germany
- 1986-1991 Physics Student, Humboldt-University, Berlin, Germany
- 1984-1986 Computer-Operator (Professional Certificate), IBM-360 mainframe, Berlin, Germany
- 1984 Abitur (High School Graduation), "Max-Planck" Gymnasium, Berlin, Germany

Honors and Awards

- 2017 Prix "Gay-Lussac – Humboldt" of the Académie des Sciences (Paris)
- 2017 "Gentner-Kastler" Prize (jointly awarded by the German DPG and the French SFP)
- 2014 Prix "La Recherche" (France), catégorie "Environnement" (Co-Lauréat)
- 2012 "Best Experimental Physics Lecture" Award, KIT, Karlsruhe
- 2005-2008 EU Senior Research Fellow, "Transfer of Knowledge" (ToK) Network, University College Cork (UCC), Ireland
- 2004 "Prix de la Valorisation de la Recherche" (Prix du Conseil Général de l'Essonne), Université Paris-11 (Paris-Sud), Orsay
- 2003 "Special Review Lecture" of the Journal of Molecular Spectroscopy, Ohio State University, Columbus, OH, USA
- 1999 DFG "Emmy-Noether" Research Fellow of the German Research Foundation
- 1992-1994 EU "Marie-Curie" Research Fellow of the Commission of the European Community
- 1991-1992 "MICECO" Research Fellow ("Mission Interministerielle pour la Coopération en Europe Centrale et Orientale") of the French Government (awarded by the Embassy of France)

ISI Web of Science: >160 peer-reviewed publications (since 1992), >10000 citations, h-index 33

Coordination of Large-Scale Research Projects (selected)

Scientific Spokesman of the National Programme „Atmosphere and Climate“ (volume ~50 M€ per year), funded by the Helmholtz Association of National Research Centers (Germany), since 2012

Scientific Steering Committee of the German Research Aircraft HALO (“High-Altitude Long-Range Aircraft”), since 2010

Coordinator of the Research Network “Climate Change and Air Quality”, part of the German Climate Initiative “REKLIM” (“Regional Climate Change”), 2011-2014

Member (elected) of the “Comité d’Utilisateurs” of the French Synchrotron SOLEIL, 2005-2008

Scientific Committees, Advisory Boards, Community Service (selected)

Member of the Scientific Council of CNRS (France), since 2018

Member of WMO’s Inter-Programme Expert Team on the Observing System Design and Evolution (IPET-OSDE), since 2018

Scientific Expert and Jury Member for the Robert Bosch Foundation, Stuttgart, Germany, since 2017

Mission Advisory Group for EUMETSAT’s “Meteosat Third Generation (MTG) Infrared Sounder (IRS)”, since 2017

Scientific Spokesman of the KIT German-French Initiative (KIT-DeFI), since 2012

Member of the KIT Senate, since 2011

Scientific Expert for the Alexander-von-Humboldt Foundation, Bonn, Germany, since 2011

Scientific Expert for the French Research Agencies ANR (incl. EQUIPEX), AERES/HCERES, since 2005

Scientific Committee of the "High-Resolution Molecular Spectroscopy" Conferences Series, since 2003

Scientific Advisory Council of the European Centre for Medium-Range Weather Forecasts, 2011-2018

Member of the German Delegation for ESA’s Earth Observation Envelope Programme IV Review, 2016

Member of the International Radiation Commission (IRC), 2009-2016

Scientific Advisory Board of the Leibniz-Institute for Atmospheric Physics, Kühlungsborn, 2013-2016

Scientific Advisory Board of the Leibniz-Institute for Tropospheric Research, Leipzig, 2009-2016

Member of the International Advisory Board of the Spectroscopic HITRAN database, 2005-2016

Scientific Spokesman of the KIT Centre „Climate and Environment“, 2011-2015

President of the AEQES Committee (Belgium) for “Physics, Chemistry, Geosciences”, 2014-2015

Vice-President of EUCOR (Association of European Universities in the Upper Rhine), 2014-2015

Chair of the ACSO (“Absorption Cross Sections of Ozone”) activity of the WMO, 2009-2015

ESA’s Mission Advisory Group for the satellite PREMIER (Earth Explorer 7 Candidate), 2009-2013

EUMETSAT’s Review Board for the Meteosat Third Generation (MTG) System Review, 2011

Vice-Chair of the COSPAR Commission A1 (Atmosphere, Meteorology, Climate), 2004-2012

Member of the “Conseil National Universitaire” (CNU), France, Section 30 (Atomic and Molecular Physics, Optics, and Spectroscopy), 2006-2009

Steering Board of the French “Programme National Chimie Atmosphérique” (PNCA), 2005-2009

Member of the “Bureau National” of the Société Française de Physique (SFP), 2005-2009

Member of the “Conseil d’Administration” of the Société Française de Physique (SFP), 2003-2005