# **Prof Dr Peter Knippertz**

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## **HIGHLIGHTS**

- 20 years of research experience at five institutions in three countries
- Broad research portfolio in dynamical meteorology with a focus on the tropics
- 131 peer-reviewed journal publications (~4000 citations, h-index 37\*)
- Experience as leader of large collaborative projects (EU FP7, DFG SFB)
- Prestigous fellowships and awards (e.g. ERC Starting Grant, Emmy Noether)
- Editorial roles for four international journals and one comprehensive book
- More than 50 invited presentations at conferences and institutional seminars
- Supervision of >20 PhD students and 11 Postdocs
- Reviewer of >100 papers and >40 research proposals
- 14 years of successful teaching and student supervision
- 5 years of experience in teaching coordination and curriculum design

## **WORK EXPERIENCE**

since 2013	<b>Professor of Meteorology</b> , Institute of Meteorology and Climate Research, Karlsruhe Institute of Technology, Germany
2012-2013	<b>Professor of Meteorology</b> , School of Earth & Environment, University of Leeds, UK
2011-2012	<b>Reader in Meteorology</b> , School of Earth & Environment, University of Leeds, UK
2009-2011	<b>Lecturer in Dynamical Meteorology</b> , School of Earth & Environment, University of Leeds, UK
2005-2009	<b>Leader of a German Research Foundation (DFG) funded Emmy</b> <b>Noether Independent Junior Research Group</b> , Institute for Atmospheric Physics, University of Mainz, Germany
2005	<b>Researcher</b> , Institute of Geophysics and Meteorology, University of Cologne, Germany
2003-2005	<b>German Research Foundation (DFG) Research Fellow</b> , Department of Atmospheric & Oceanic Sciences, University of Wisconsin–Madison, USA, hosted by Prof Jonathan E. Martin and Prof emer. Stefan L. Hastenrath
1999-2003	<b>Research Assistant</b> , Institute of Geophysics and Meteorology, University of Cologne, Germany (during my PhD studies)

<sup>\*</sup> ISI Web of Science as of 21 June 2019

## EDUCATION

May 2008	<b>Habilitation in Meteorology, University of Mainz, Germany</b> Subject: <i>Tropical–extratropical interactions and their influence on</i> <i>clouds, precipitation, moisture transports and dust emissions</i> Mentor: Prof H. Wernli
1999–2003	<b>PhD studies in Meteorology, Institute of Geophysics and</b> <b>Meteorology, University of Cologne, Germany</b> Subject: <i>Precipitation variability in northwest Africa and the relation to</i> <i>the large-scale atmospheric circulation and to the synoptic activity</i> Supervisor: Prof P. Speth, Mark: "summa cum laude"
May 1999	<b>Diploma in Meteorology, Institute of Geophysics and</b> <b>Meteorology University of Cologne, Germany</b> Subject: <i>Cyclone activity and surface wind over the North Atlantic and</i> <i>Europe in a transient GHG scenario experiment</i> Supervisor: Prof P. Speth, Mark: "sehr gut" (best mark)
1997–1999	Graduate studies in Meteorology, University of Cologne, Germany
1996-1997	<b>Visiting Student</b> , Department of Meteorology, University of Reading, UK
1993-1995	<b>Undergraduate studies in Meteorology</b> , University of Cologne, Germany

# MAIN GRANTS & FELLOWSHIPS

2015-2023	Waves to Weather (W2W), German Research Foundation Collaborative Research Centre 165, speaker for Karlsruhe (~21M€ total funding)
2017-2020	Moisture Transport Pathways and Isotopologues in Water Vapour (MOTIV), German Research Foundation, Co-I (493k€)
2015-2019	Mittelfristige Klimaprognose (MiKlip), German Federal Ministry of Education and Research, Co-I (13 M€ total funding)
2013-2018	Dynamics-Aerosol-Chemistry-Clouds Interactions in West Africa (DACCIWA), EU-FP7 consortium, coordinator (8.75M€ total funding)
2012-2016	<b>Improved Seasonal Prediction of the Onset of the West African</b> <b>Monsoon,</b> UK Natural Environment Research Council (NERC) Open CASE studentship, PI (70k£)
2010-2015	Desert Storms – Towards an Improved Representation of Meteorological Processes in Models of Mineral Dust Emission, European Research Council Starting Grant, PI (1.36M€)
2010-2014	A Seamless Approach to Assessing Model Uncertainties in Climate Projections of Severe European Windstorms (SEAMSEW), AXA Research Fund, PI (450k€)
2008-2012	Upper-Level Extratropical Disturbances over the Low-Latitude North Atlantic: Generation Mechanisms and Predictability, German Research Foundation, PI (95k€)
2005-2010	<b>Tropical–Extratropical Interactions and their Importance for</b> <b>Intraseasonal Variability and Extreme Events in the Tropics and</b> <b>Extratropics</b> , German Research Foundation Emmy Noether Advanced Fellowship, PI (600k€)
2003-2005	Tropical-Extratropical Interactions in Northern Africa: Physical Mechanisms, Climatological Characteristics, and Importance for

#### **the Precipitation Variability in the Tropics and Subtropics,** German Research Foundation Research Fellowship, PI (65k€)

**POSTER AWARDS & TRAVEL GRANTS** 

2018	<b>Outstanding Poster Award</b> , 39th Conference on Hurricanes and Tropical Meteorology, Ponte Vedra, USA, American Meteorological Society, with A. Schlueter, P. Vogel, A. H. Fink and T. Gneiting
2013	<b>Outstanding Poster Award</b> , Annual Meeting of the European Meteorological Society, with J. Owen and T. Trzeciak
2006–2007	SAMUM (SAharan Mineral dUst experiMent) field campaign, University of Mainz Research Fund (22k€)
2006	<b>Poster Award</b> , 27th Conference on Hurricanes and Tropical Meteorology, Monterey, USA, American Meteorological Society, with A. H. Fink
2004	Travel Grant, World Meteorological Organization (500\$)
2004	<b>Travel Grant</b> , African Studies Program, University of Wisconsin, USA (300\$)

#### SUPERVISION OF STUDENTS AND POSTDOCS

Diploma students:

- Esther Hohberger (Sept. 2008)
- Carmen Emmel née Deutscher (Oct. 2008)
- Gregor Gläser (March 2009)
- Florian Berkes (Sept. 2010)

MSc students:

- Adam Burwell (September 2011)
- Joshua Allen (September 2011)
- Ailsa Barrow (September 2012)
- Pila Bossmann (December 2015)
- Lisa Hannak (August 2016)
- Jasmin Hofgärtner (December 2016)
- Kathrin Leydecker (February 2017)
- Marcel Buchholz (February 2017)
- Michael Maier-Gerber (February 2017)
- Anna Neubauer (August 2018)
- Lea Eisenstein (December 2018)
- Florian Becker (March 2019)
- Tanja Sauter (April 2019)
- Tristan Semsch (since November 2018)

#### PhD students

- Florian Meier (2005–2010, thesis not submitted)
- Luise Fröhlich (2006–2011, including maternity leave)
- Lars Wiegand (2008–2011)
- Arwen Twitchett (2009–2012, supervision taken over from Doug Parker)
- Alex Roberts (2010–2014)
- Jennifer Pirret née Owen (2010–2014)
- Sophie Cowie (2010–2014)
- Tim Baker (2010–2015)
- Stephanie Fiedler (2011–2014)
- Rory Fitzpatrick (2012–2016)

- Marlon Maranan (2014–2019)
- Peter Vogel (2015–2019)
- Andreas Schlüter (2015–2019)
- Pila Bossmann (2015–2016, not completed)
- Enrico Di Muzio (2015-2019)
- Joseph Njeri (2015–2019)
- Titike Bahaga (2015–2019)
- Thomas Engel (2015–2016, not completed)
- Philipp Zschenderlein (since 2017)
- Michael Maier-Gerber (since 2017)
- Thomas Kociok (since 2017)
- Georgios Papavasileiou (since 2017)
- Christopher Diekmann (since 2017)
- Elzina Bala (since 2018)
- Jan Wandel (since 2019)
- Lea Eisenstein (since 2019)
- Eva-Maria Walz (since 2019)

#### Postdocs

- Kerstin Schepanski (2009–2013)
- Jenny Davis (2010–2011)
- Tomasz Trzeciak (2010–2014)
- Bernd Heinold (2011–2012)
- Carl Gilkeson (2013)
- Bradley Jemmet-Smith (2013–2015)
- Florian Pantillon (2013–2019)
- Stephanie Fiedler (2014–2015)
- Anke Kniffka (2014–2018)
- Gregor Pante né Gläser (since 2014)
- Roderick van der Linden (since 2018)
- Marlon Maranan (2019)

## **MAIN TEACHING COURSES**

July 2019	Summer School, Kumasi, Ghana
since 2013	Lecture series on <b>Theoretical Meteorology</b> , <b>Tropical Meteorology</b> , <b>Numerical Weather Prediction</b> , <b>Statistics in Meteorology</b> ; seminar series on <b>Climate Change</b> , Karlsruhe Institute of Technology, Germany
2010-2011	Lecture series on <b>Dynamics of Weather Systems</b> , University of Leeds, UK
July 2010	Ewiem Nimdie Summer School, Kumasi, Ghana
2009-2010	Field teaching summer school, Isle of Arran, Scotland, UK
2008–2009	Lecture series on Numerical Methods, Data Assimilation, Predictability & Verification, University of Mainz
2006-2009	Supervision of student seminar presentations, University of Mainz
2006-2008	Lecture series on <b>Tropical–Extratropical Interactions</b> , University of Mainz
2005-2007	Lecture series on <b>Tropical Meteorology</b> , University of Mainz (among top ten evaluated optional lectures of the Department of Physics, Mathematics & Computer Sciences)
2001-2002	Supervision of an ERASMUS exchange student from Portugal, University of Cologne

# **INVITED SCIENTIFIC PRESENTATIONS**

June 2018	International Cooperative for Aerosol Prediction (ICAP) 10 <sup>th</sup> working group meeting, Exeter, UK: <i>The role of moist convection for dust emission</i>
April 2018	BACCHUS final project meeting, Zurich, Switzerland: The DACCIWA Project: Dynamics-Aerosol-Chemistry-Cloud Interactions in West Africa
April 2018	European Geosciences Union General Assembly, Vienna, Austria: <i>The relationship between Warm Conveyor Belts, Tropical Moisture Exports and Atmospheric Rivers</i>
Feb. 2017	IMK-IFU Seminar, Garmisch-Partenkirchen, Germany: The Challenge to observe, model and understand the West African monsoon system
Jan. 2017	97 <sup>th</sup> AMS Annual Meeting, Seattle, USA: <i>The challenge of modeling the meteorology of dust emission: Lessons learned from the Desert Storms project</i>
May 2016	ETH Zurich, Switzerland: <i>The challenge of modeling the meteorology</i> of dust emission: Lessons learned from the Desert Storms project
June 2015	DLR-IPA, Weßling, Germany: <i>Dust storms – The challenge of</i> modelling the meteorology of dust emission using weather and climate models
Dec. 2014	Royal Meteorological Society, Reading, UK: Dust Forecasting
Oct. 2014	Bernhard-Nocht Institute, Hamburg, Germany: Wüstenstürme
July 2014	Leibniz-Institute for Tropospheric Research, Leipzig, Germany: <i>Dust storms – The challenge of modelling the meteorology of dust emission using weather and climate models</i>
May 2014	German Meteorological Society, Offenbach, Germany: Wüstenstürme – Über die Herausforderung die Meteorologie von Staubemission mit Wetter- und Klimamodellen zu erfassen
June 2013	University of Munich, Munich, Germany: Vorhersagen europäischer Sturmsysteme von der Meso- bis zur Klimaskala
March 2013	AXA CATNAT Workshop, London, UK: <i>Can we trust climate models to realistcally represent severe European windstorms?</i>
May 2012	4 <sup>th</sup> International Cooperative in Aerosol Prediction Workshop, Frascati, Italy: <i>Meteorological controls on dust emission and implications for</i> <i>modelling</i>
April 2012	European Geosciences Union General Assembly, Vienna, Austria: Diagnosing the influence of diabatic processes on the explosive deepening of extratropical cyclones over the North Atlantic Ocean
Nov. 2011	University of East Anglia, Norwich, UK: <i>Predicting European wind</i> storms from days to decades
Nov. 2011	Karlsruhe Institute of Technology, Germany: <i>Sturmvorhersagen von der Meso- bis zur Klimaskala</i>
July 2011	Karlsruhe Institute of Technology, Germany: <i>Staubstürme – Eine</i> große Herausforderung auf dem Weg zur Erdsystemmodellierung
July 2011	Financial Services KTN and The Lighthill Risk Network, London, UK: Uncertainties in Climate Projections of Severe European Windstorms
May 2011	University of Reading, UK: <i>Dust storms: A great challenge on the way</i> to Earth system modelling
Nov. 2010	European Centre for Medium-Range Weather Forecasts, Reading, UK: Towards an improved representation of meteorological processes in models of mineral dust emission

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Nov. 2005	Institute for Atmospheric Physics, University of Mainz, Germany: Tropisch-extratropische Wechselwirkungen und extreme Wettersituationen in Westafrika
May 2005	Department of Atmospheric & Oceanic Sciences, University of Wisconsin–Madison, USA: <i>Tropical–extratropical interactions and extreme weather situations in West Africa</i>
March 2005	Department of Atmospheric & Oceanic Sciences, McGill University, Montréal, Canada: Tropical-extratropical interactions and extreme weather situations in West Africa
Feb. 2005	Atmospheric Science Department, University of Alabama in Huntsville, USA: <i>Tropical plumes and extreme precipitation in West Africa</i>
Nov. 2004	Department of Earth and Atmospheric Sciences, State University of New York at Albany, USA: <i>Tropical plumes and extreme precipitation in West Africa</i>
Nov. 2004	Department of Atmospheric Sciences, University of Washington, Seattle, USA: <i>Tropical plumes and extreme precipitation in West</i> <i>Africa: Moisture transport, precipitation generation, and large-scale</i> <i>dynamic and diabatic processes</i>
Oct. 2004	NOAA-CIRES Climate Diagnostics Center, Boulder, USA: <i>Tropical</i> plumes and extreme precipitation in West Africa: Moisture transport, precipitation generation, and large-scale dynamic and diabatic processes
Feb. 2004	Department of Atmospheric & Oceanic Sciences, University of Wisconsin–Madison, USA: Understanding rainfall variability as part of managing water scarcity in northwest Africa
Jan. 2004	African Studies Program, University of Wisconsin–Madison, USA: Understanding rainfall variability as part of managing water scarcity in northwest Africa
Jan. 2004	Institute for Atmospheric Physics, University of Mainz, Germany: Physikalische Mechanismen von extremen Niederschlagsereignissen in Westafrika im Zusammenhang mit tropisch-extratropischen Wechselwirkungen
Jan. 2004	Institute of Geophysics and Meteorology, University of Cologne, Germany: Physikalische Mechanismen von extremen Niederschlagsereignissen in Westafrika im Zusammenhang mit tropisch-extratropischen Wechselwirkungen
Dec. 2003	Department of Earth & Atmospheric Sciences, Purdue University, West Lafayette, USA: <i>Extreme precipitation events in West and northwest Africa in connection with tropical-extratropical interactions</i> and <i>Precipitation in subtropical northwestern Africa: Tropical vs. extratropical influences</i>
Oct. 2003	Department of Atmospheric & Oceanic Sciences, University of Wisconsin–Madison, USA: <i>Precipitation in northwest Africa: Tropical vs. extratropical mechanisms</i>

# **MEMBERSHIPS IN LEARNED SOCIETIES**

since 2009	Royal Meteorological Society (RMetS), Fellow since 2019
since 2006	European Geosciences Union (EGU)
1999-2002	European Geophysical Society (EGS)
since 1999	German Meteorological Society (DMG)

## **EDITORIAL ROLES**

since 2019	Co-editor of Weather and Climate Dynamics
since 2018	Invited guest editor for Atmospheric Chemistry and Physics / Atmospheric Measurement Techniques Special Issue "New observations and related modelling studies of the aerosol-cloud- climate system in the Southeast Atlantic and southern Africa regions"
2012-2014	Lead editor of Springer book <i>Mineral Dust – A Key Player in the Earth System</i> with JB. Stuut (ISBN 978-94-017-8977)
since 2010	Associate editor for <i>Quarterly Journal of the Royal Meteorological</i> Society
2009–2011	Associate editor for Monthly Weather Review
2008-2010	Associate editor for the AMMA Workpackage 2.1 Special Issue in Quarterly Journal of the Royal Meteorological Society

## **ACADEMIC ROLES**

2014-2019	Director of Student Education, Meteorology, Faculty of Physics, Karlsruhe Institute of Technology
2018	External PhD examiner for Winifred Atiah and Jeffrey Aryee, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana
2018	External PhD examiner for Ambrogio Volonté, University of Reading, UK
2013	External PhD examiner for Nick Earl, University of East Anglia, Norwich, UK
2011	Leader of a search committee for a new Lecturer in Meteorology, University of Leeds, UK
2008	Jury member for the PhD defence of Diana Bou Karam, Institut Pierre Simon Laplace, Paris, France
1997-2003	Student representative of the Institute of Geophysics and Meteorology, University of Cologne, Germany

## COMMITTEES AND ADVISORY BOARDS

since 2019	External advisor to University of Leeds Met Office Strategic (LUMOS) Research Group
since 2018	Member of Steering Board, Center for Mathematics in Sciences, Engineering, and Economics (MathSEE), KIT, Karlsruhe, Germany
since 2018	Member of Regional Steering Committee for North Africa - Middle East – Europe of the World Meteorological Organization (WMO) Sand and Dust Storm Warning and Advisory Assessment System (SDS-WAS)
since 2017	Member of World Weather Research Programme (WWRP) HIWeather Steering Group (Processes & Predictability theme)
since 2015	Member of Steering Board, Center for Climate and Environment, KIT, Karlsruhe, Germany
2013-2018	Member of the Advisory Board of the EU-funded "Impact of Biogenic versus Anthropogenic emissions on Clouds and Climate: towards a

Holistic UnderStanding" (BACCHUS) project led by Ulrike Lohmann (ETH Zurich)

- 2011–2014 Member of the Advisory Board of the AXA Research Fund project "Regional Assessment of Climate impact on European WINdstorms" (RACEWIN) project led by David Stephenson (University of Exeter)
- 2010–2013 Member of the steering committee of the *BBC Weather Test*
- 2005–2010 Chair of the Interest Group on "AMMA and aspects of tropical– extratropical interactions" initiated by the THORPEX Working Group on Predictability and Dynamical Processes (WG PDP)

#### **CONFERENCE AND WORKSHOP ORGANISATION**

2017	Organizing committee, Conference on Predictability and Multi-Scale Prediction of High Impact Weather, Landshut, Germany
2012	Main organiser of a workshop on European windstorms at the University of Leeds, Leeds, UK
2012	Co-Organizer of Special Evening Session "75 Years of AEW Research: Historical Perspectives, Recent Advances, and Future Challenges" at 30 <sup>th</sup> Conference on Hurricanes and Tropical Meteorology, American Meteorological Society, Ponte Vedra Beach, FL, USA
2010-2011	Organizing committee for the Annual Meeting of the <i>Royal</i> Meteorological Society
2010	Co-convener of the session <i>Tropical Meteorology and Tropical–</i> <i>Extratropical Interactions</i> and jury member for Poster Award at the German-Austrian-Swiss Meteorology Symposium 2010
since 2008	Convener of the interdivision session <i>Aeolian dust: initiator, player, and recorder of environmental change</i> at the General Assembly of the European Geosciences Union, Vienna, Austria
2007	Co-convener of the session <i>Tropical Meteorology</i> at the German- Austrian-Swiss Meteorology Symposium 2007
2007	Laudation for Prof emer. Stefan Hastenrath on the occasion of the Alfred-Wegener medal award celebration at the German-Austrian-Swiss Meteorology Symposium 2007

## **REVIEWER ROLES**

since 2003 Reviewer<sup>\*</sup> of >100 papers for Science, Nature Climate Change, Nature Communications, Monthly Weather Review, Journal of Climate, Journal of the Atmospheric Sciences, Journal of Geophysical Research: Atmospheres, Geophysical Research Letters, Environmental Research Letters, Quarterly Journal of the Royal Meteorological Society, Climate Dynamics, Atmospheric Research, Atmospheric Chemistry and Physics, Atmospheric Science Letters, Bulletin of the American Meteorological Society, Climate Research, Aeolian Research, International Journal of Climatology, Atmospheric Environment, Journal of Hydrometeorology, Tellus, Weather and Forecasting, EOS, Journal of Hydrology, Meteorology and Atmospheric Physics, Natural Hazards and Earth System Science, Scientific Research and Essays, Space Science

<sup>\*</sup> see https://publons.com/researcher/1371734/peter-knippertz/peer-review/

# *Reviews, The Open Atmospheric Science Journal, Theoretical and Applied Climatology, Climate of the Past*

- since 2005 Reviewer of >40 research proposals for German Research Foundation (DFG), Federal Ministry of Education and Research (BMBF, Germany), Alexander von Humboldt Foundation (AvH, Germany), German Academic Exchange Service (DAAD), National Science Foundation (NSF, USA), National Oceanic & Atmospheric Administration (NOAA, USA), L'Agence Nationale de la Recherche (ANR, France), Natural Environment Research Council (NERC, UK), European Facility for Airborne Research (EUFAR), Dutch Research Council (NOW), Israel Science Foundation (ISF), German Israeli Foundation (GIF), Israeli Ministry of Science, Technology and Space, Chilean Research Foundation (CONICYT), ETH Zurich Postdoctoral Fellowship Program Review panel for the HALO (High Altitude and Long Range Research 2013 Aircraft) Programme, German Research Foundation 2011 Review panel for AXA Research Fund Review panel for Postdoc Research Projects for the Greek Ministry of 2011 Education, Lifelong Learning and Religious Affairs 2010 Review panel Geophysics and Atmospheric Sciences of the Academy of
- Finland

## FIELD WORK

2016	International field campaign of <i>Dynamics-Aerosol-Chemistry-Clouds</i> Interactions in West Africa (DACCIWA), five West African countries
2011-2012	Aircraft campaign of the <i>Diabatic Influences on Mesoscale Structures</i> <i>in Extratropical Storms (DIAMET)</i> project, UK
2008	Second international <i>SAMUM (SAharan Mineral dUst experiMent)</i> field campaign, Cape Verde
2006	First international <i>SAMUM (SAharan Mineral dUst experiMent)</i> field campaign, Morocco
2000-2002	Set-up of a surface station network in southern Morocco as part of the <i>An Integrated Approach to the Efficient Management of Scarce Water Resources in West Africa</i> (IMPETUS) project

## **OUTREACH ACTIVITIES**

2019	Public lecture on "Saharastaub, Feuer, Abgase: Luftverschmutzung in Afrika", Effektvoll am KIT, Karlsruhe, Germany
since 2018	Initiative "Wahrscheinlich Wetter" to foster public understanding of probabilistic forecasts
2018	Contribution to book by Christian Serrer and David Nelles "Kleine Gase – Große Wirkung: Der Klimawandel"
2017	Contribution to book by Stefan Klein "Das All und das Nichts"
since 2005	Interviews and contributions for TV (e.g. SWR, ARD, BBC), radio (e.g. BBC, Radio Regenbogen), newspapers (e.g. Mainzer Rheinzeitung, Badische Neueste Nachrichten) and magazines (e.g. GEO)

# **PROFESSIONAL TRAINING**

2012-2013	Tomorrow's Leaders Programme, University of Leeds, UK
June 2012	Strategies for Successful Change, University of Leeds, UK
June 2010	<i>Effective Research Student Supervision for the Science, Engineering and Medically –Related Disciplines</i> , University of Leeds, Leeds, UK
Feb. 2010	<i>Effective Research Student Supervision: The Role of the Internal Examiner</i> , University of Leeds, Leeds, UK
Nov. 2009	Virtual Learning Environment, University of Leeds, Leeds, UK
July 2008	<i>Applying for European Research Council Starting Grants</i> , German Research Foundation, Bonn, Germany
June 2008	<i>Basic Methods of E-Learning</i> , Institute for Media Pedagogy, University of Mainz, Mainz, Germany
March 2007	<i>Project Management, Communication and Presentation</i> , German College for Administration Science (DHV), Speyer, Germany
Oct. 2006	Career Paths in Science and Research, German Research Foundation, Berlin, Germany
Nov. 2005	<i>Media Skills Training for Scientists</i> , German Research Foundation, Bonn, Germany
Jan. 2005	New Chances for Young Scientists in Germany, German Academic International Network, Chicago, USA
Sept. 2004	<i>Perspectives and Challenges of Higher Education and Science Policy</i> , German Research Foundation & German Academic Exchange Service, Boston, USA