

Dreizler, Andreas

Born 27.03.1966 in Freiburg/Br., married, 4 children



University Education

2002	Habilitation, Mechanical Engineering, TU Darmstadt, <i>venia legendi Combustion Technology</i>
1992 – 1995	Dissertation (Dr. rer. nat.), Dept. of Physical Chemistry at University of Heidelberg, DAAD scholar at University of Oxford, UK
1986 – 1992	Study of Physics (Diploma) at the Universities of Kiel and Heidelberg

Professional Experience

2008 –	Full Professor (W3) Reactive Flows and Diagnostics, TU Darmstadt
1999 – 2008	Deputy Director and Group Leader at Institute for Energy and Power Plant Technology, TU Darmstadt
1997 – 1999	Group Leader at Institute of Technical Combustion, University of Stuttgart
1996 – 1997	Consultant at VDI Technologiezentrum, Düsseldorf
1992 – 1995	Research Assistant at Dept. of Physical Chemistry at University of Heidelberg

Professional Activities

Number of PhD thesis supervised: 54 completed, 31 to be completed

Main Research Fields

- Chemically reactive flows
- Turbulent and two-phase flows
- Advanced laser diagnostics
- Research Gate: <https://www.researchgate.net/lab/Reactive-Flows-and-Diagnostics-RSM-Andreas-Dreizler>

Activities in Scientific Organizations

2020	Editorial Board Member of Fuels (new open access journal)
2019 – 2020	Chair of Fellow Selection Committee of the Combustion Institute
2019 –	Elected Member of the Board of Directors of the Combustion Institute, German Section
2019 –	Spokes Person of the DFG-Collaborative Research Center TRR 150
2018 –	Elected Member of the Board of Directors of the Combustion Institute, international, non-profit, educational and scientific society
2018 –	Deputy Spokes Person of the DFG-Collaborative Research Center TRR 129
2017 – 2020	Member of the Fellow Selection Committee of the Combustion Institute
2016	Member of the Gold Medal Nomination Committee of the Combustion Institute
2014 –	Editor of International Journal Flow Turbulence and Combustion (Springer)
2014	Member of the Gold Medal Selection Committee
2013 – 2015	Authorised Representative of the Senate of Technical University Darmstadt
2011 –	Associate Editor Experiments in Fluids (Springer)
2008 – 2012	Editorial Board Member Proceedings of the Combustion Institute
2006 – 2014	Advisory Editor of International Journal Flow Turbulence and Combustion (Springer)
2005	Chair of the Lippincott Award Committee (OSA)
2004 –	Member of the Lippincott Award Committee (OSA)

2002 –	Member of the Organizational Board of the International Workshop on Turbulent Non-premixed Flames
1999 –	Member of the Optical Society of America (OSA)
1997 –	Member of the Combustion Institute (German Section)
1995 –	Member of the Deutsche Bunsengesellschaft
1995 –	Reviewer for >20 Intl. Journals and Funding Agencies all over the world

Awards, Honours and Offers

2019	Award Winner – Sensors and Sensing Systems, Measurement Science and Technology
2018	Elected Fellow of the Combustion Institute
2016	Distinguished Paper Award at the 36 th Intl. Combustion Symposium
2014	Laureate of the Gottfried Wilhelm Leibniz Prize
2014	Distinguished Paper Award at the 35 th Intl. Combustion Symposium
2012	Laureate of the Faudi Stiftung
2008	Two Distinguished Paper Awards at the 33 rd Intl. Combustion Symposium
2008	Offer for full professorship at TU Darmstadt (accepted)
2008	Offer for full professorship at RWTH Aachen (declined)
2007	Offer for full professorship at Universität Hannover (declined)
2002	Laureate of the Adolf-Messer Award
1992 – 1995	DAAD scholar for research visits at University of Oxford, UK

Publications (peer reviewed)

Total number of publications: >320 peer reviewed international journals and conference proceedings, 8 contributions to textbooks, 1 book, h-index (Google Scholar): 49, h-index (WoS): 37, <https://orcid.org/0000-0001-5803-7947>

Organisation of International Conferences and Workshops

2020	Chair of the Intl. Combustion Summer School Near-Wall Reactive Flows, Germany
2020	Chair of the Intl. Workshop on Oxy-fuel Combustion, Germany
2019	Chair of the Intl. Workshop on Clean Combustion: Principles and Applications, Germany
2016	Colloquium Chair in Diagnostics, 36 th Intl. Combustion Symposium
2016	Chair of the Intl. Combustion Summer School Near-Wall Reactive Flows, Germany
2012	Chair of the International Workshop on Measurements and Computation of Turbulent Flames (TNF), Germany
2011	Chair of the Gordon Research Conference Laser Diagnostics in Combustion, USA
2010	Co-Chair of International Workshop Near Wall Reactive Flows, Germany
2009	Vice-Chair of the Gordon Research Conference Laser Diagnostics in Combustion, USA
2006	Chair of the OSA-Conference Laser Applications to Chemical, Security and Environmental Analysis, Optical Society of America, USA

Invited Presentations (Selection of > 60)

2020	Plenary at 10 th Intl. Symposium on Turbulence, Heat and Mass Transfer (St. Petersburg, Russia)
2014	Plenary at 35 th International Symposium on Combustion (San Francisco, USA)
2013	Invited Lecture at 17 th Gordon Research Conference on Laser Diagnostics in Combustion Research (Waterville Valley, USA)
2012	Plenary at 9 th International ERCOFTAC Symposium on Engineering Turbulence Modelling and Measurements (Thessaloniki, Greece)
2011	Plenary at 32 nd Annual Combustion Research Conference – US Dept. of Energy (Warrenton, Virginia, USA)

2010	Plenary at 15 th International Symposium on Applications of Laser Techniques to Fluid Mechanics (Lisbon, Portugal)
2009	Plenary at 6 th International Symposium on Turbulence, Heat and Mass Transfer (Rome, Italy)
2008	Invited Lecture at International Conference on LES for Internal Combustion Engine Flows (IFP, Rueil-Malmaison, France)
2008	Plenary at 5 th European Thermal-Science Conference (Eindhoven, Netherlands)
2007	Invited Lecture at 14 th Gordon Research Conference on Laser Diagnostics in Combustion Research (Oxford University, UK)

International Teaching Activities

2019	Invited Lecturer, Intl. Combustion Summer School, Tsinghua University, China
2017	Invited Lecturer, Intl. Combustion Summer School, Princeton University, USA
2016	Invited Lecturer at the Global Initiative of Academic Networks (GIAN), IIT Madras, India
2016	Invited Lecturer, Intl. Combustion Winter School, TU Eindhoven, The Netherlands
2015	Invited Lecturer, Intl. Combustion Winter School, IIT Madras, India
2015	Invited Lecturer, Intl. Combustion Summer School, University of Sao Paulo, Brazil
2011	Invited Lecturer ERCOFTAC-Course Flame Stabilization for Industrial Burners, Munich, Germany
2010, 2008	Invited Lecturer at French École de Combustion, Turbulent Combustion, Corsica and Fréjus, France
2007 –	Invited Lecturer at Von Karman Institute, biannual Lecture Series Turbulent Combustion, Belgium
2005 – 2019	Guest Lectureship at University of Stuttgart, Faculty of Aerospace Engineering, Quantum Mechanics and Spectroscopy

Major Contributions to Early Careers of Excellent Researchers

Supervised PhD theses (completed): 54

Student thesis awards/distinguished paper awards from supervised theses: 8

Previous Postdoctoral Researchers with intl. academic careers and PhD awards:

1. Dr. Nader Karimi: Lecturer in Dept. of Mech. Eng., University of Glasgow, UK
2. Dr. Robert Gordon: Senior Lecturer in Dept. of Mech. Eng., University of Melbourne, Australia
3. Dr. Brian Peterson: Lecturer in School of Engineering, University of Edinburgh, UK
4. Prof. Dr.-Ing. Dirk Geyer: Professor, Dept. of Mech. Eng., University of Applied Science, Darmstadt, Germany
5. Promotion of Dr. S. Wagner during his Post-Doc, winning a UNICO-Research Group (by TU Darmstadt, up to €880.000, start-up)
6. Promotion of Dr.-Ing. J. Brübach during his PhD, winning the Wilhelm-Jost-Award (German Section of the Combustion Institute)
7. Promotion of Dr.-Ing. B. Böhm during his PhD, winning the Wilhelm-Jost-Award and the ERCOFTAC da Vinci Competition Silvermedal

Cooperation with Industry

Since 2008	Rolls-Royce Deutschland
Since 2009	Bosch GmbH
2009 – 2011	BMW AG
Since 2010	LaVision GmbH
Since 2012	Daimler AG
Since 2016	Porsche AG
Since 2017	Umicore AG