

## Prof. Dr.-Ing. Peter Stephan

born 25.03.1963 in Karlsruhe  
married, 2 children



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### Academic Education and Degrees

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- 1983 – 1988 Studies in Mechanical Engineering, Technische Universität München  
1988 Dipl.-Ing., Mechanical Engineering / Major in Energy and Power Plant Engineering
- 1989 – 1992 Doctoral student, Joint Research Centre of the European Commission, Ispra/Italy  
1992 Dr.-Ing., Faculty of Energy Engineering, Universität Stuttgart

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### Professional Career

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- 1989 – 1992 Marie-Curie-Fellow, Joint Research Centre of the European Commission, Ispra/Italy
- 1992 – 1997 Development Engineer and Research Associate at Daimler-Benz Group  
1992-1994 Research Associate, Central Research, Stuttgart/Ulm  
1994-1996 Project Manager, Process Development, Sindelfingen  
1996-1997 Team Leader, Technology Transfer, Sindelfingen
- since 1997 Full Professor (C4/W3), Technische Universität Darmstadt, Director Institute for Technical Thermodynamics, Department of Mechanical Engineering  
2007-2009 Dean Department of Mechanical Engineering  
2007-2014 Speaker Excellence Cluster “Smart Interfaces – Understanding & Designing Fluid Boundaries” (together with C. Tropea)  
2010-2020 Speaker Profile Area “Thermo-Fluids & Interfaces”  
since 2016 Speaker Collaborative Research Center 1194 “Interaction between Transport and Wetting Processes”  
2021 Speaker Research Field “Energy & Environment”  
2021-2022 Vice President for Research & Early Careers of TU Darmstadt

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### Activities in Scientific and Administrative Organizations

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- since 1998 VDI/Dechema Working Group Heat and Mass Transfer, 2006-2018 Chairman  
since 2002 Eurotherm-Committee, German representative  
since 2002 International Centre for Heat and Mass Transfer, 2006-2018 Member Executive Committee, since 2019 Vice President
- since 2002 VDI/Dechema Working Group Thermodynamics  
since 2002 Editorial Board VDI-Heat Atlas, since 2007 Editor-in-Chief  
2003 – 2011 Scientific Advisory Board Institute for Micro Technology Mainz  
since 2004 Editorial Board Journal of Heat and Mass Transfer, Springer  
since 2005 Editorial Board Journal of Experimental Heat Transfer, Taylor & Francis  
since 2009 Editorial Board Journal of Experimental Thermal and Fluid Science, Elsevier  
2009 – 2018 Jury Member Adolf-Messer-Preis, TU Darmstadt  
2010 – 2014 Advisory Board Research-Oriented Gender Equality, TU Darmstadt  
since 2010 Editorial Board Journal of Heat Pipe Science and Technology, Begell  
2011 – 2021 Member University Assembly, TU Darmstadt  
2011 – 2017, 2019 – 2021 Member Senate, TU Darmstadt  
2012 – 2016 Advisory Board Quality Management, TU Darmstadt  
2020 – 2021 Scientific Advisory Council, TU Darmstadt

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## Main Research Interests

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Experimental, theoretical, and numerical studies in the following areas:

Heat Transfer in Multiphase Systems, Film and Spray Cooling, Interfacial Heat and Mass Transfer, Heat Pipes and High Performance Heat Exchangers, Heat Transfer in Microgravity, Thermal Analyses of Coupled Energy Conversion Systems.

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## Award and Honors

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1988	Scholarship of the Loschge Foundation, TU Munich (5/88-10/88)
1989	Marie Curie Fellowship of the European Commission (1/89 - 6/92)
1995	Sadi Carnot Award for Thermodynamics, International Institute of Refrigeration
1997	Offer C4-Professorship for Technical Thermodynamics, TU Darmstadt, accepted
2002	SFT - Prize for Excellence in Heat Transfer Research, Société Française Thermique
2003	Offer C4-Professorship in Thermodynamics, University of Hannover, declined
2004	Offer C4-Professorship for Heat and Mass Transfer, RWTH Aachen, declined
2005	Team Achievement Award, European Space Agency
2008	ASME Outstanding Researcher Award, American Society of Mechanical Engineers
2008	ASME Outstanding Reviewer Award, American Society of Mechanical Engineers
2012	Nukiyama Memorial Award, Heat Transfer Society of Japan
2013	JSPS Fellowship Award, Japanese Society for the Promotion of Science
2016	Athene Award for Good Teaching, Giersch Foundation at TU Darmstadt
2016	ICHMT Fellowship Award, International Centre for Heat and Mass Transfer
2018	VDI Medal of Honor, Association of German Engineers
2020	ASME Fellow, American Society of Mechanical Engineers
2022	Micro Flow and Interfacial Phenomena ( $\mu$ FIP) Leadership Award

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## Publications

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3 books and 9 chapters in books (some with several editions),  
> 150 peer reviewed papers in international journals,  
> 140 peer reviewed papers in conference proceedings

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## Thesis Supervision

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> 250 Master theses and 57 PhD theses completed as main supervisor, 21 PhD theses in progress