

Prof. Dr.-Ing. Karsten Stahl

born March 11th, 1969

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Professional Career

Since 2011	Full Professor, Institute for Machine Elements, Technical University of Munich Director Gear Research Center (FZG)
2009 – 2010	Head of Advanced Engineering and Innovation Management, Powertrain and Driving Dynamic Systems, BMW Group, Munich
2007 – 2009	Head of Validation Driving Dynamics and Powertrain, BMW Group, Oxford, UK
2006 – 2007	Head of Quality and QMT MINI Transmission, MINI Plant, BMW Group, Oxford, UK
2003 – 2006	Head of Prototyping, Gear Technology and Methods, BMW Group, Dingolfing
2001 – 2003	Development Engineer in Gear Production, BMW Group, Dingolfing
1994 – 2000	Scientific Research Assistant (PhD candidate) at Gear Research Center (FZG), TUM

Academic Education and Degrees

2001	Doctorate at TUM, topic: <i>Pitting Resistance of carburized Spur- and Helical Gears</i> Final Degree: PhD / Dr.-Ing. (passed with distinction “summa cum laude”)
1989 – 1994	Studies of Mechanical Engineering with focus on Design and Development at Technical University Munich (TUM), Final Degree: Dipl.-Ing. (passed with distinction)

Professional Activities

Since 2021	convenor NA 060-34-15 „Zahnradtragfähigkeitsberechnung“
Since 2021	DGMK, District Group Bavaria, Chair
Since 2020	DFG Review Board 402-01, Member
2016–18, 2022	AiF Review Board 4: Member
Since 2017	BAPT Member Scientific Advisory Board
Since 2016	ISO TC 60 / SC 2 / WG 6, Convenor
Since 2016	VDI-GPP FB8 Advisory Board “Getriebe und Maschinenelemente”, Member
Since 2016	LAMCoS / INSA Lyon: Member International Advisory Board
Since 2016	WiGeP Scientific Association for Product Development, Member of the Board (2018 – 2021: Speaker of the Board)
Since 2015	RWTH Center for Mobile Propulsion (CMP), Member International Advisory Board
Since 2014	IFTtoMM TC Gearing and Transmissions, Member
2003 – 2010	FVA Scientific Advisory Board, Member and Representative of BMW Group

Honors and Awards

2021	Honorary Certificate of the TUM for Excellence in Teaching
2015 – 2021	5x Student Lecture Award “Goldene Lehre”, best lecture course, Bach. Mech. Eng.
2020 – 2021	2x Student Lecture Award “Goldene Lehre” in Master Mech. Eng.
2019	VDMA Faculty Teaching Concept Award, “Bestes Maschinenhaus”
2005	VDI Ring of Honors Award
1992	FAG Kugelfischer Award

Conferences

Since 2018	VDI: Fachkonferenz Hochleistungs-Kunststoffzahnräder, President
Since 2016	VDI: International Conference on Gears, President
Since 2015	VDI: International Conference High Performance Plastic Gears, President
Since 2015	VDI: International Conference Gears Production, President
Since 2015	JSME: Int. Conference on Motion and Power Transmissions, Advisory Member
Since 2014	Vereinigte Fachverlage: antriebstechnik, Member Academic Advisory Board
Since 2012	VDI: Schwingungen in Antrieben, Member Program Committee
Since 2012	VDI: Kupplungen, Member Program Committee
Since 2014	INSA International Gear Conference, Member Scientific Committee
Since 2011	VDI: Dritev / Getriebe in Fahrzeugen, Member Program Committee
Since 2011	bayern innovativ: Conf. on Future Automot. Technology, Member Program Committee

Editorial Activities

Springer-Nature:	Journal Forschung im Ingenieurwesen / Engineering Research, Editor in Chief
ASME:	Journal of Vibration and Acoustics (JVA), Associate Editor
Inderscience:	International Journal of Powertrains (IJPT), Member of the Editorial Board
EDP Sciences:	International Journal of Mechanics & Industry, Editor
Tecniche Nuove:	Organi di Trasmissione, Member of the Scientific and Technical Committee
IJSAE:	International Journal of Automotive Engineering, Member of the Advisory Board
Springer-VDI:	Konstruktion, journal, Member of the Academic Advisory Board
VDI:	Getriebe aktuell, journal, Member of the Board of Editors
Springer-Vieweg:	ATZ, journal, Member of the Scientific Panel of Experts
Mashine Science	Journal Mashine Science, Member of the Editorial Board
MDPI:	Lubricants, Member of the Editorial Board
VFV:	antriebstechnik, Academic Advisory Board, Member
AzTU:	Machine Science, Editorial Board, Member

Teaching Activities

Bachelor	Machine Elements (Mech. Eng.), 15 ECTS Machine Elements - Basics, Manufacturing and Application, 7 ECTS
Master	System Engineering for Vehicle Drive Lines, 5 ECTS Geared Transmissions - Rolling Contacts and its Tribology, 5 ECTS Geared Transmission - Design and shifting elements, 5 ECTS Bevel and Hypoid Gears for Vehicles, 3 ECTS System technology of high performance gear drives, 3 ECTS
External	Politecnico Milano, Advanced Design of Machine Elements, Visiting Professor Beijing Institute for Technology, Guest Lecturer Chongqing University, SKLMT, Guest Lecturer LaMCoS / INSA, Lyon, Guest Lecturer