

Prof. Dr.-Ing. Karsten Stahl

born 11. März 1969

Technical University of Munich (TUM)
Institute of Machine Elements
Gear Research Centre (FZG)
Boltzmannstrasse 15
85748 Garching
Germany

Tel.: +49 89-289 15807

E-Mail: stahl@fzg.mw.tum.de



Professional Career

Since 2011	Full Professor, Institute for Machine Elements, Technical University of Munich Director Gear Research Centre (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 Centre (FZG), TUM

Academic Education and Degrees

2001	Doctorate at TUM, topic: <i>Pitting Resistance of carburized Spur- and Helical Gears</i> Final Degree: Dr.-Ing.
1989 – 1994	Studies of Mechanical Engineering with focus on design and development at Technical University of Munich (TUM), Final Degree: Dipl.-Ing.

Professional Activities

Since 2020	DFG: Member of Review Board 402
2016-2018	AiF: Member of Review Board 4
Since 2017	BAPT: Member Scientific Advisory Board
Since 2016	ISO: TC 60 / SC 2 / WG 6&15, Convenor
Since 2016	VDI-GPP FB8: Advisory Board "Getriebe und Maschinenelemente", Member
Since 2016	LAMCoS / INSA Lyon: Member International Advisory Board
Since 2016	Scientific Association for Product Development (WiGeP): Member of the Board (since 2018: Speaker of the Board)
Since 2015	RWTH: Center for Mobile Propulsion (CMP), Member International Advisory Board
Since 2014	IFTtoMM: Member TC Gearing and Transmissions
2003-2010	FVA Scientific Advisory Board, Member and Representative of BMW Group

Honors and Awards

2019	VDMA Faculty Teaching Concept Award, "Bestes Maschinenhaus"
2019	Student Award "Goldene Lehre", Best course of lectures in MW-Bachelor
2018	Student Award "Goldene Lehre", Best course of lectures in MW-Bachelor
2016	Student Award "Goldene Lehre", Best course of lectures in MW-Bachelor
2015	Student Award "Goldene Lehre", 2 nd best course of lectures in MW-Bachelor
2005	VDI Ring of Honors Award
1992	FAG Kugelfischer Award

Conferences

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: Getriebe in Fahrzeugen, Member Program Committee
Since 2011	bayern innovativ: Conf. on Future Automot. Technology, Member Program Committee

Editorial Activities

Springer-Nature:	Forschung im Ingenieurwesen, journal, Editor in Chief
ASME:	Journal of Vibration and Acoustics (JVA), Associate Editor
Inderscience:	International Journal of Powertrains (IJPT), Member of the Editorial Board
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

Teaching Activities

Bachelor	Machine Elements, 15 ECTS
Master	Automotive Driveline Systems, 5 ECTS Synchronizers and Wet Clutches, 3 ECTS Cylindrical Gears, 3 ECTS Pairing of Sliding/Rolling Elements, 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