## Prof. Dr.-Ing. Gerhard Poll

Director

Institute for Machine Design and Tribology

Leibniz University Hannover

Date of birth: February 5, 1954 in Schweinfurt, Germany

## professional career

since 1996	Professor (C4, since 2016: W3) for Machine Elements and Engineering Design (successor of Prof. Paland) und director of the Institute for Machine Design and Tribology of Leibniz University Hannover, Garbsen, Germany Primary areas of research:  Nano, micro- and bio-tribology Rheology of lubricants and EHL lubrication Rolling element bearings and their lubrication Dynamic seals Synchronisers in shiftable automotive gears Continuously variable transmissions (CVT) for automotive applications High speed automotive electric drive systems Dynamics and wear of railway vehicles
1992-1996	Head of research and product development for sealed bearing units and bearing seals at CR-Industries in Elgin (Illinois), USA (part of the SKF group).  Worked on projects related to truck hub units, water pump units for truck diesel engines as well as to paper mill dryer cylinders and other industrial applications.
1987-1992	Project leader at SKF-Engineering and Research Centre in Nieuwegein (Netherlands) in the fields of tribology and seals.  Worked on projects related to rolling element bearing lubrication, contamination induced fatigue, sealed bearing units and sealed bearing housings (pillow blocks), with applications ranging from car wheel bearings to sealed spherical roller bearings in continuous casting plants.
1984-1987	Team leader for rolling element bearing applications in electric drive systems and vehicles at the central engineering department of SKF-Kugellagerfabriken, Schweinfurt (Germany)
1977-1983	Scientific assistant of Prof. DrIng. Krause in the field of tribology at the Institute for Railway Vehicles and Materials Handling of RWTH Aachen University, PhD (DrIng.) in mechanical engineering in 1983 with a thesis on traction in rolling contacts
1972-1977	Mechanical engineering studies at RWTH Aachen University, finished with Diplom- Ingenieur degree 1977
1964-1972	Secondary school in Aachen and Schweinfurt, Germany
1960-1964	Primary school in Cologne and Aachen

## professional activities

Member of the German Scientific Society for Product Development (WiGeP)

Member of the Association of German Engineers (VDI) and board member of the Hannover Section

Board member of the German Society of Tribology (GfT)

Member of the Association for Railway Vehicle Technology Hannover (FSH)

Member of the editorial board, European Railway Review

Member of the editorial board, Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology

Member of the Strategic Board of the Austrian Center of Competence for Tribology