



Fraunhofer

IPA

FRAUNHOFER INSTITUTE FOR MANUFACTURING ENGINEERING AND AUTOMATION IPA

CURRICULUM VITAE



Prof. Dr.-Ing. Dr.-Ing. E. h. Dr. h. c. Dr. h. c. Fritz Klocke

Executive Director of Fraunhofer IPA
Responsible for the commercial area (Administration and Business Development)
Responsible for the divisions »Surface Engineering and Material Technology« and »Manufacturing and Process Engineering«

PERSONAL INFORMATION

Birth	October 10, 1950, in Vlotho
Address	Fraunhofer Institute for Manufacturing Engineering and Automation IPA Nobelst. 12 70569 Stuttgart phone +49 711 970-1700 fritz.klocke@ipa.fraunhofer.de

EDUCATION

1965 – 1969	Apprenticeship and employment as toolmaker with Albert Stübbe KG; attendance of vocational prep school in Detmold
1969 – 1970	Technical College in Detmold
1970 – 1976	Studies: Production Engineering at the Fachhochschule / University of Applied Sciences Lippe in Lemgo and Technical University of Berlin / TU Berlin

PROFESSIONAL CAREER

1977 – 1981	Research Assistant at the Institute for Machine Tools and Production Engineering, TU Berlin
1981 – 1984	Chief Engineer at Department of Production Engineering and Institute for Machine Tools and Production Engineering, TU Berlin
1982	Doctorate in Engineering »Dr.-Ing«, TU Berlin
1984 – 1994	Ernst Winter & Sohn in Norderstedt/Hamburg, Head of Process Monitoring from September 1985: Technical Director

1995 – 2017	University Professor and Director of the Chair »Manufacturing Technology« / Institute for Machine Tools and Production Engineering WZL/ RWTH Aachen
1995 – 2017	Head of Fraunhofer Institute for Production Technology IPT in Aachen
2001 – 2002	Dean of the Faculty of Mechanical Engineering at RWTH Aachen
2007 – 2008	President of the International Academy for Production Engineering (CIRP)
since July 2018	Head of Fraunhofer Institute for Manufacturing Engineering and Automation IPA in Stuttgart (temp.)

FUNCTIONS AND FELLOWSHIPS

until 2012	Member of the Executive Board of the National Academy of Science and Technology (acatech)
2000 – 2008	Chairman of Expert Committee and Chairman of Review Board Production Engineering of the DFG
until 2008	Deputy Chairman of Scientific Board of German Federation of Industrial Research Associations (AiF)
until 2008	Member of the Board of Directors of AiF
	Head of Fraunhofer Production Alliance and Executive Committee Member of the Fraunhofer-Gesellschaft
2000 – 2007	Board Member of Fraunhofer USA
2000 – 2003	German Member of Council of the International Academy for Production Technology (CIRP)
2007 – 2009	German Member of Council of the International Academy for Production Technology (CIRP); Head of Council 2008-2009
	Personal Tutor / Trustee of DFG for RWTH Aachen
	Head of BMBF Initiative »Forschung für die Produktion 2000plus«
2007	Head of EU Initiative »EnginEurope«
	Member of Steering Committee of Manufacturing Research Centers (IMRC), Cranfield, UK
	Expert and Reviewer for DFG and AiF
since 2000	Deputy Chairman of SEW Eurodrive Foundation
since 1999	Member of Advisory Board of Mühlhoff Foundation
	Member of BBAW (Berlin Brandenburgische Akademie der Wissenschaften)
	Fellow of International Academy for Production Engineering (CIRP)
	Member of German Academic Association for Production Technology (WGP)
	Member of Scientific Association for Laser Technology (WLT)

Member of »Arbeitsgemeinschaft Umformtechnik«

Member of »Forschungsvereinigung Werkzeugmaschinen«

Member of »Vereinigung Stahlverformung«

Member of BMBF strategy group for the research program
»Forschung für die Produktion von morgen«

Member of Board of Trustees »Georg Schlesinger Preis« of »Senatsverwaltung
für Wissenschaft, Forschung und Kultur«, Berlin

AWARDS

1985	Otto Kienzle Medal from the university's Production Engineering Group
2006	Honorary Ph.D./ Dr.-Ing. E.h. from University of Hannover
2009	Honorary Ph.D./ Dr. h.c. from University of Thessaloniki
2010	Honorary Ph.D./ Dr. h.c. from Keio University Tokio
2010	Fraunhofer Medal
2012	Fellow of Society of Manufacturing Engineers (SME)
2014	Fellow of RWTH Aachen
2014	Eli Whitney Productivity Award of the Society of Manufacturing Engineers
2017	Fraunhofer Coin

SCIENTIFIC FOCUS

Turning, Milling, Drilling, Grinding, Honing, Lapping, Abrasion, Generating,
Laser Material Processing, Autonomous Production