

Manfred Weck

Studies:

- 1959-1961 **mechanical engineering**, branch: **production engineering** at the public **school for mechanical engineering** "Staatliche Ingenieurschule für Maschinenwesen" in **Iserlohn**
scholarship of the "Köpchen-Studienstiftung"
grade: excellent, adjudging the A-Level
- 1963-1966 **mechanical engineering**, branch: **production engineering** at the **Technical University Aachen** (RWTH) scholarship of the "Studienstiftung des Deutschen Volkes" diploma of the 26th July 1966
grade: excellent

Professional Activities:

- 1955-1958 **toolmaker apprenticeship** skilled toolmaker
certificate of the 24th March 1958
grade: passed with distinction
- 1958-1959 **skilled worker activities and practical studies**
in galvanotechnics and foundry
- 1962-1963 **engineer activities as a technical designer** at
Bremshey & Co., Hilden
- 1963-1964 **student part-time assistant** at the chair of wheel gear
and the chair of machine design,
Technische Universität Aachen
- 1966-1969 **research assistant** at the Laboratory for Machine
Tools and Production Engineering (Prof. Opitz) of the
Technical University Aachen (RWTH Aachen)
- 27.6.1969 **doctor's degree** subject: analysis of linear systems by
means of spectral density measurements and its
application for machine tool investigations under process
conditions
reporting committee: Prof. Dr.-Ing. Dres. h.c. H. Opitz
reporting committee: Prof. Dr. phil. nat O. Schäfer
grade: first-class honours with the Borchers-Badge
- Award
- 1969-1971 Chief **engineer** of the "Technical Design of Machine
Tools" department of the Laboratory for Machine Tools
and Production Engineering of the RWTH Aachen head of the
institute:
Prof. Dr.-Ing. Drs. h.c. H. Opitz
responsible for the research activities:
static, dynamic, kinematic and thermal
investigation and calculations of machine tools
and machine tool components, investigations and

- dimensioning of gearwheels and gearboxes,
investigations into the acoustic emission, gearwheel
manufacturing processes
- 4.12.1971 **Habilitation** at the RWTH Aachen subject: Dynamic
behaviour of cutting machine tools. Influencing
variables valuation techniques, measuring techniques
reporting committee: Prof. Dr.-Ing. Dres. h.c. H. Opitz,
Prof. Dr phil.nat. O Schäfer, Prof. Dr.-Ing. G. Spur
- 1971-1973 **technical manager** of the company Wolf-Geräte
GmbH, Betzdorf; responsible for development, design
and production agricultural equipment and machines
- 1973-2004 **professor** at the Technical University "Rheinisch-
Westfälischen Technischen Hochschule Aachen",
Chair of Machine Tools (succession of Prof. Opitz)
and **co-director** of the Laboratory of Machine Tools
and Production Engineering (**WZL**)
- 1980-2004 **member of the board of directors** of the
"Fraunhofer-Institut für
Produktionstechnologie" (**IP**T) in Aachen and head of
the department for production machines

Awards:

Borchers-Medal of the RWTH-Aachen 1969
Taylor-Medal of CIRP 1974
Award of SME for education in 1982
Honorary Doctor (Dr.-Ing. E.h.) of the Technical University Hannover in 1992
FORD Research AWARD: for gear design 1994
Rockwell contribution within a supportive aid 1994
Award of Jakob Wallenberg by the Royal Swedish Academy of Engineering Science 1995
Herwart-Opitz-Medal VDI 1997
Ernst-Blickle Price, SEW Eurodrive-Stiftung 1997
Life Time Achievement Award, European Society for Precision Engineering and Nanotechnology, **euspen,** 2003
Georg-Schlesinger-Award by the Senate of Berlin 2003
Honorary Doctor (Dr.-Ing. E.h.) of the Technical University Dresden 2005

General Tasks:

Dean of the Faculty for Mechanical Engineering of the RWTH Aachen from 1991 to 1992
Expert of the "**Deutsche Forschungsgemeinschaft**" (**DFG**) since 1973
Chairman of the **DFG-expert board** from 1984 to 1989
Expert of the "Arbeitsgemeinschaft Industrieller Forschungsvereinigungen" (**AIF**) since 1977, chairman of the expert group IV: design and manufacturing from 1990 to 1996
Chairman of the DFG committee of experts from 1996 to 2000
Chairman of the board of Liebherr Verzahntechnik
Expert of the **BMW Research Program „INNONET“**; **Chairman** of the **Jury** 1999 - 2006
Member of the boards of Hüller Hille Thyssen AG, Liebherr and DS Technologie
General industrial consulting

Memberships:

SME, The American Society of Manufacturing Engineers
VDI, Verein Deutscher Ingenieure
ASME, The American Society of Mechanical Engineers
 German Academic Society for Production Engineering **WGP** since 1974, chairman from 1988 to 1989
CIRP, Institution for Production Engineering Research
Academy of Science of the country **Northrhine-Westfalia** since 1983
 Member of the **curatorium** of the Fraunhofer Institut **IPK-Berlin** since 1987
Chairman of the Board of the research council "**Ultra Precision Engineering**" since 1988
Academia Scientiarum et Artium Europaea, Innsbruck since 1993
Koninklijke Academie Voor Wetenschappen, Letteren En Schone Kunsten, Belgien since 1994
acatech, Konvent für Technikwissenschaften der Union der deutschen Akademien der Wissenschaften, München since 2001