



Career & Professional Development

Dr. Laschet studied „Mechanical Engineering“ at the **University of Technology in Aachen** (Germany).

From 1980 to 1985 he was employed as a research engineer at the „Institute of Machine Elements“ at the Aachen University in order to work at his thesis "*Development of a method for the computer supported simulation of torsional vibrations in drive systems*". In 1988 his work has been published in a Springer book „**Simulation of the Dynamic Behavior of Drive Systems**“ (in German language; book also available as an E-book). He was one of the first engineers who carefully studied CAE methods and simulation algorithms to generate vibration models of complete drivelines.

From 1985 to 1990 he worked in the German engineering company **MEC**, and from 1990 to 2016 he worked at **ARLA**, which is a family owned company also involved in machine tool building. 2017 he started his engineering and consulting office “**LASCHET CONSULTING**“ primarily specialized in engineering services, torsional vibrations analyses, and rotordynamic studies. This office moved in January 2025 and now operates under the name “**Dr.-Ing. Andreas Laschet – Engineering Service & Technical Consulting**”.

Dr. Andreas Laschet offers highly professional engineering services and technical consulting in many industrial areas, such as:

- rotating machinery in general to optimize complete drivelines concerning the dynamic behavior
- troubleshooting and expert reports in close cooperation with customers, suppliers, external specialists (providing measurements, field services, extended numerical analyses)

He published more than 60 technical papers on the following subjects:

- *simulation of drive systems in rotating machinery to minimize torsional vibrations*
- *studies of the linear and nonlinear characteristics of drive elements in drivelines*
- *condition monitoring and machine diagnosis supported by suitable CAE methods*
- *configuration of drivelines with reference to the selection of couplings, universal shafts, gear systems, etc. always with respect to the dynamic behavior*
- *applying extended CAE methods to minimize the model generation efforts (in particular of torsional vibration models)*
- *special NVH analysis dedicated to complete drive systems in automotive applications (cars, trucks, special vehicles), but also in construction machines and ship drivelines*

Curriculum Vitae

Personal Data

Name	Andreas Laschet
University Degree:	Dr.-Ing.
Born:	July 8, 1955 in Essen (Germany)
Marital Status:	married
Communication:	Ph: +49 2268 901650 / E-mail: info@laschet.com / Internet: www.laschet.com

Education and Studies

1962 - 1966	Primary school "Stiftsschule", Essen-Rellinghausen, Germany
1966 - 1974	High school "Stadtwald-Gymnasium", Essen-Stadtwald, Germany final examination dated June 15, 1974
1974 - 1980	Study "Mechanical Engineering", RWTH Aachen University (University of Technology) Subject area: "Manufacturing Technology" Degree: Dipl.-Ing. , certificate dated February 12, 1980
1975 - 1979	Studies supported by the German National Academic Foundation: Studienstiftung des deutschen Volkes e.V. , Bonn - Bad Godesberg (Germany)

Professional Experiences and Doctorate

1980	Research engineer at the Institute of Machine Elements (IME), RWTH Aachen University (Director: Prof. Dr.-Ing. Heinz Peeken)
1981 - 1982	Doctorate (thesis) supported by the German National Academic Foundation
1982 - 1985	Head of the research group "Simulation of Drive Systems" at the IME
1983 - 1985	Research employee at the IME
1984	Member of the admission committee of the German National Academic Foundation to admit highly talented and gifted students to the foundation
1988	Completion of the doctoral thesis on the subject: "Development of a method for the computer supported simulation of torsional vibrations in drive systems" (supervisor: Prof. Dr.-Ing. Christoph Troeder) Published as a book (in German language): "Simulation of the Dynamic Behavior of Drive Systems" Springer-Verlag, Berlin, New York (Softcover: ISBN 978-3-540-19464-4 / eBook: ISBN 978-3-642-83531-5) - Updates Degree: Dr.-Ing. , certificate dated August 30, 1988 ("summa cum laude") Award: Borcher's Badge
1988 - 1990	Course of lectures on "Dynamics in Drive Systems" at the RWTH Aachen University in cooperation with Prof. Dr.-Ing. Christoph Troeder
1985 - 1990	Head of the department "Computer Simulation" of the engineering and consulting company MEC Maschinenbau Entwicklung Consulting GmbH, Alsdorf, Germany
1990 - 2016	Managing partner and chief engineer of ARLA Maschinentchnik GmbH, Wipperfuerth, Germany <i>Subjects:</i> Machine Tool Development + Dynamics in Rotating Machinery



2017-2024	Managing partner and chief engineer of Laschet Consulting GmbH, Bergisch Gladbach, Germany
From 2025	Office Dr.-Ing. Andreas Laschet – Engineering Service & Technical Consulting, Kuerten, Germany / www.laschet.com <u>Subjects:</u> - Dynamics in Rotating Machinery (Compressors, Pumps, Turbomachinery) - Rotordynamics / Training Courses / International Seminars - NVH Behavior of Vehicle Powertrains (including test stand optimization) - Customer Engineering Services and Consulting - Customer trainings and seminar contributions Consultancy activities optionally in close cooperation with external international engineering partners (like <i>Concepts NREC, US</i>)

You can download the **list of the most important publications** following the links:

a) in **GERMAN** language

<https://www.laschet.com/de/engineering/veroeffentlichungen/>

b) in **ENGLISH** language

<https://www.laschet.com/en/engineering/publications/>

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