

Prof. Dr.-Ing. habil. Volker Schulze

Institut für Produktionstechnik (wbk) and
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Curriculum Vitae

Personal Data

- 20.4.1965 born in Ludwigshafen/Rhein/Germany as son of Dr. med. Gernot Schulze and his wife Ingrid Schulze, née Kienitz
- 6.9.1990 Marriage with Christine Schulze, née Poppe
- 1.7.1997 Birth of daughter Isabel
- 29.11.2000 Birth of son Laurin

Actual Position

Member of the cooperative directions of the Institut für Produktionstechnik (wbk) (*Institute for Production Science*) and the Institut für Werkstoffkunde I (IWK I) (*Institute for Materials Science and Engineering I*), Head of Section "Manufacturing Technology" at wbk
On leave as „Akademischer Oberrat“ (*Academic Senior Councillor*) at IWK I

Career

- 1971-75 Elementary School Bretten, from 1972 Elementary School Sulzfeld
- 1975-84 Gymnasium Eppingen
- 22.5.1984 Higher Education entrance qualification
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- 1984-85 Basic military service at Air Force Music Corps II
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- 1985-90 Studies of Mechanical Engineering at University of Karlsruhe (TH)
- 26.1.1990 Diploma main examination (predicate: „excellent“)

- 1987 Grashof-Prize of department of Mechanical Engineering at University of Karlsruhe (TH)
- 1990 Redtenbacher-Prize of department of Mechanical Engineering at University of Karlsruhe (TH)
- 1990 Höfler-Prize of department of Mechanical Engineering at University of Karlsruhe (TH)
- 1.4.1990- Scientific employee at Institut für Werkstoffkunde I (*Institute of Material*
31.12.1994 *Science and Engineering I*) of University of Karlsruhe (TH)
- 1.7.1993 Take over of the duties of Akademischer Rat (*Academic Councillor*) at the Institute for Materials Science and Engineering I of University of Karlsruhe (TH)
- 15.7.1993 Doctorate Examination at department of Mechanical Engineering at University of Karlsruhe (TH) with the thesis „Effects of shot peened surface layers on the quasistatic and one- or twostep cyclic deformation behaviour of quenched and tempered AISI4140“ (Prof. Dr. rer.nat. O. Vöhringer, Prof. Dr. rer.nat. Dr.Ing. E.h. mult. E. Macherauch; predicate: „excellent“)
- 1994 Junior Scientists Prize of Deutsche Gesellschaft für Materialkunde (DGM; German Association of Materials Sciences)
- 1.1.1995 Head of the Laboratory of Materials Strength at the Institute for Materials Science and Engineering I of University of Karlsruhe (TH) and appointment as “Akademischer Rat z. A.“ (*Academic Councillor*)
- 1.1.1996 Appointment as “Akademischer Rat a. L.” (*Academic Councillor*)
- 1.4.2000 Appointment as responsible for the job shops of the department of Mechanical Engineering at the University of Karlsruhe (TH)
- 1.7.2000- Head of the committee „Deformation and Fracture“ of the Deutsche Gesell-
31.12.2004 schaft für Materialkunde (DGM)
- 1.7.2000 Deputy of the department of Mechanical Engineering in the project group „Controlling“ of the rectorate of University of Karlsruhe (TH)
- 20.9.2002 Appointment in the International Scientific Committee on Shot Peening and take over of its chairmanship

- 1.4.2003 Member of the scientific advisory Board of the „Arbeitsgemeinschaft Wärmebehandlung und Werkstofftechnik e.V. (AWT)“ (*Consortium for heat treatments and materials technique*)
- 1.11.2003 Appointment as “Akademischer Oberrat” (*Academic Senior Councillor*)
- 1.4.2004 Head of the Section „Production Processes and Component Behaviour“ at the Institute of Materials Science and Engineering I of University of Karlsruhe (TH)
- 19.5.2004 Habilitation at the department of Mechanical Engineering at the University of Karlsruhe (TH) in the topic „Mechanical Engineering“ with the thesis „Stability of surface layer states in mechanically surface treated metallic materials and its effects at thermal and mechanical loadings “ (referees: Prof. Dr.-Ing. D. Löhe, Prof. Dr.rer.nat. O. Vöhringer, Prof. Dr.-Ing. J. Fleischer, Prof. Dr.-Ing.habil. B. Scholtes)
- 16.11.2004 Head of the committee „Mechanical Surface Treatments“ of Deutsche Gesellschaft für Materialkunde (DGM)
- 6.-9.9.2005 Chairman of the Int. Conf. on Shot Peening 9 in Paris
- 8.9.2005 Vice-Chairman of the Int. Scientific Committee on Shot Peening
- 15.11.2006 Chairman of the „2nd joint French-German Meeting on Mechanical Surface Treatments“ in Karlsruhe
- 20.7.2007 Appointment as „außerplanmäßiger Professor“ (*extraordinary professor*) at the department of Mechanical Engineering at the University of Karlsruhe (TH)
- 15.4.2008 Appointment as representative of Prof. Fleischer as Head of the Institut für Produktionstechnik (wbk) (*Institute for Production Science*) of University of Karlsruhe (TH), member of cooperative direction of the Institut für Produktionstechnik; Head of Section Manufacturing Technology
- 1.10.2008 Member of the cooperative direction of the Institut für Werkstoffkunde I (*Institute for Materials Science and Engineering I*)

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Scientific Career – Areas of interest

Teaching:

- Werkstoffkunde I / II für Wirtschaftsingenieure (*Materials Science and Engineering I/II for industrial engineers*; 2 SWS each in WS (winter term) and SS (summer term))
 - WS 1993/94 and SS 1994
 - WS 1994/95 and SS 1995
 - WS 1995/96 and SS 1996
- Materials Science and Engineering I / II (in English, 4 SWS lecture + 3 SWS exercises in WS and 3 SWS lecture + 1 SWS exercises in SS)
 - WS 1998/99 and SS 1999
 - WS 2000/01 and SS 2001
 - WS 2002/03 and SS 2003
 - WS 2004/05 and SS 2005
 - WS 2006/07 and SS 2007
- Experimental Welding Laboratory (3 SWS in WS)
 - since 1994 minimum once a year as block laboratory
- Fertigungsstrategien für optimiertes Bauteilverhalten (*Production Strategies for Optimized Component Behaviour*) (2 SWS in SS)
 - 2004 to 2007 annually
- Technologie der Stahlbauteile (Technology of Steel Components) (2 SWS in SS)
 - since 2008 annually
- Fertigungstechnik (*Manufacturing Technology*) (4SWS in WS)
 - since 2008 annually
- Methoden der Produktentstehung (*Methods of Product Development*) (2SWS in SS)
 - since 2009 annually

Continued Education:

- Seminar “Development, Determination and Evaluation of Residual Stresses“ of the Deutsche Gesellschaft für Materialkunde e.V. (annual contribution since 1998 with 2 presentations)
- Seminar „Mechanical Surface Treatments for the Improvement of Component Properties“ of the Deutsche Gesellschaft für Materialkunde e.V. (new development and organisation 2006 in collaboration with Prof. L. Wagner, TU Clausthal, 3-5 presentations, annually since 2006)

Research Fields:

- Manufacturing and Materials Processes: Process development, process integration and process chains for Chip Forming, Electro Discharge Machining, Ablation treatments, Heat treatments of steels, Joining processes, Mechanical surface treatments
- Simulation of Production Processes: Process Planning, process chains, Interaction of processes and machines
- Production induced Component Behavior: Correlations between Production Processes, Resulting Component States and Component Properties