

Curriculum Vitae
Prof. Dr. rer. nat. habil. Gert Heinrich

Univ.-Prof. Dr. rer. nat. habil. Gert Heinrich
Leibniz-Institut für Polymerforschung Dresden e.V.
und
TU Dresden / Fakultät Maschinenwesen / Institut für Textilmaschinen und Textile
Hochleistungswerkstofftechnik

Hohe Str. 6
D-01069 Dresden
Tel.: ++49 (0)351- 4658-485
Fax: ++49 (0)351- 4658-362
E-Mail: gheinrich@ipfdd.de

Born: 13. December 1950 in Plauen/Vogtland (Germany)

1969 : Craft Certificate as Bricklayer

1969 - 1973

Study of Physics at Friedrich-Schiller-University, Jena, Germany

1973

Masters Degree (Diplom-Physiker) in Theoretical Physics

topic: "Multi-photon scattering processes in strong electromagnetic quantum fields"

1973 -1978

Research Assistant at University of Technology (TH) Leuna-Merseburg, Department
of Polymer Physics, group Theoretical Physics

The former TH Merseburg has been integrated in 1993 into Martin-Luther-University
Halle-Wittenberg (Germany)

1977

Ph.D. in Polymer Physics (Dr. rer. nat.)

topic: "Mechanical properties of polymer networks and statistical-mechanical
approaches"

1979 -1986

Assistant Professor (Oberassistent) at University of Technology (TH) Leuna-
Merseburg, Department of Polymer Physics

1980 - 1990

Lectures in Polymer Physics, Experimental Physics and Theoretical Physics at TH
Leuna-Merseburg

1984

"Facultas docendi" for German Universities (qualification to lecture like full professor)

1986

Habilitation in Theoretical Physics

topic: "Theory of polymer networks and topological constraints of network chains"

1987 – 02/1990

Associate Professor for Theoretical Physics

Member of the Faculty for Natural Sciences at University of Technology (TH) Leuna-Merseburg

1987

Visiting Professor at the Institute of Polymer Physics, Charles University of Prague (Czech Republic)

02/1990 – 12/2002

Continental AG, Hannover; Senior Research Scientist; Head of Materials Research in Tire Research and in Strategic Technology

1991 - 1996

Guest-Lecturer for "Physics and Technology of Polymers" at University Hannover (Germany), Institute of Macromolecular Chemistry

2002 - 2005

Guest-Lecturer for "Elastomer Materials and Testing" within the International Master Education Program "Applied Polymer Science" at the Martin-Luther-University Halle-Wittenberg in Halle (Germany)

01/2003 – 09/2016

Full Professor (W3) for "*Polymer Materials and Rubber Technology*" at Technische Universität (TU) Dresden, Institute of Materials Science; and, additionally till 04/2017, Director of the Institute of Polymer Materials at the Leibniz Institute of Polymer Research Dresden (IPF)

Member of the Faculty Mechanical Engineering (TU Dresden)

2009

Call to a professorship at Martin-Luther-University Halle-Wittenberg (Department Chemistry) together with a director position at Fraunhofer-Institute of Materials Mechanics, Halle/Saale (G). Call was declined.

Since 04/2017

Senior-Professor at TU Dresden / Faculty Mechanical Engineering

Present and past memberships:

- Elected Member of the Scientific Council of the German National Science Foundation (Deutsche Forschungsgemeinschaft, DFG), Polymer Research (2005-2012)
- Member of the Scientific Board of the Fraunhofer-Institute for Electronbeam- and Plasmatechnology (FEP), Dresden (Germany)
- Member of the Academy "Akademie Mitteldeutsche Kunststoffinnovationen" (AMK)

● Member of Scientific Alliance of University Professors of Polymer Technology (WAK)

● Associate of the Physical Society Germany

● Associate of the Rubber Society Germany

● Initiator, organizer and spokesperson of the German DFG-Research Network

“Statistical Mechanics and Fracture Mechanics of Rubbers” (FOR 597).

● Organization of international conferences/workshops since 2005, with relationships to polymer networks, rubbers, tires:

- 2005-2015: biannual Dresden Tire Workshop at IPF Dresden
- 2007: 11th Dresden Polymer Discussion: Polymer Network Structures
- 2008: Euromech Conference “Fracture Mechanics and Statistical Mechanics of Reinforced Elastomers”
- 2009: Workshop Advanced Rubber Composites
- 2009: Discussion Forum on Roughness Aspects in Wetting and Adhesion
- 2009: VI. European Conference on Constitutive Models for Rubbers (ECCMR)
- 2010: Polymer Network Group Conference, Goslar (Germany)
- 2012: Euro-Filler Conference in Dresden
- 2017: Frontiers in Rubber Science and Technology (Dresden, Germany)

Hitherto: Acting as reviewer for science foundations, governmental forms, etc. in Germany, Austria, Switzerland, Luxemburg, Poland and EU.

Hitherto: Reviewer for ~ 10 scientific journals

Hitherto: Reviewer for PhD projects in Germany, Austria, Netherland, India

Awards (since 2010):

- Colwyn Medal of Institute of Materials, Minerals and Mining (IOM³), London/UK, 2015
- George Stafford Whitby Award (American Chemical Soc., Rubber Division (USA), 2015)
- Carl-Dietrich-Harries-Medaille (German Rubber Society, 2015)
- Lifetime Achievement Award (Tire Industry and *Tire Technology International*, 02/2017)