

CURRICULUM VITAE

Prof. Dr.-Ing. habil. Dr. h.c. Jürgen Eckert

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I) Personal: Date of Birth: August 5, 1962 in Bayreuth, Germany

II) Education:

1972 - 1981 High School in Pegnitz, Germany

12/1985 - 10/1986 Diploma Thesis (Dipl.-Ing.), University Erlangen-Nürnberg, Germany

11/1986 - 05/1990 Ph.D. Thesis (Dr.-Ing.) (summa cum laude)

University Erlangen-Nürnberg and Siemens Research Laboratories, Erlangen;

Research Center Jülich, Germany

III) Research and Professional Experience:

06/1990 – 09/1992 Research Fellow, California Institute of Technology, Pasadena, CA, USA

10/1992 – 07/1993 Research Associate, SGL Carbon / Ringsdorff-Werke GmbH, Bonn, Germany

08/1993 – 09/2003 Research Associate / Group Leader / Leading Scientist, Leibniz-Institute for Solid State and Materials Research Dresden (IFW Dresden), Dresden, Germany

09/2002 - 05/2005 Adjunct Professor, Michigan Technological University, Houghton, USA

10/2003 - 08/2006 Full Professor and Chair for "Physical Metallurgy", Darmstadt University of Technology, Dpt. of Materials and Geo Sciences, Darmstadt, Germany

09/2006 - 08/2015 Director of the Institute for Complex Materials at IFW Dresden and Full Chair Professor "Materials Synthesis and Analysis", TU Dresden, Germany

04/2013 - 06/2014 Scientific Director of IFW Dresden, Germany

since 09/2015 Director of the Erich Schmid Institute of Materials Science of the Austrian Academy of Sciences, and Full Professor (Chair "Materials Physics"), Montanuniversität Leoben, Dpt. Materials Science, Leoben, Austria

since 01/2022 Honorary Professor, Shenzhen University, Shenzhen, PR China

since 1997 Supervision of more than 80 Ph.D. students and more than 30 postdocs

IV) Projects ERC Adv. Grant "INTELHYB"; DFG Leibniz Prize; ÖAW, FWF and EU projects

V) Research topics

Metastable metallic materials / Nanostructured high performance materials for functional and structural applications / Metallic glasses and composites / High entropy and chemically complex alloys / Strength and plasticity improvement / Additive manufacturing, etc.

VI) Publications (selected)

1. Yu.P. Ivanov, B. Sarac, S.V. Ketov, J. Eckert, A.L. Greer, "Direct Formation of Hard-Magnetic Tetrataenite in Bulk Alloy Castings", *Adv. Sci.* **10**, 2204315 (2023).
2. F. Spieckermann, D. Šopu, V. Soprunyuk, M.B. Kerber, J. Bednarčík, A. Schökel, A. Rezvan, S. Ketov, B. Sarac, E. Schafler, J. Eckert, "Structure – Dynamics Relationships in Cryogenically Deformed Bulk Metallic Glass", *Nat. Commun.* **13**, 127 (2022).
3. K. Nomoto, A.V. Ceguerra, C. Gammer, B.S. Li, H. Bilal, A. Hohenwarter, B. Gludovatz, J. Eckert, S.P.

Ringer, J.J. Kruzic, "Medium-Range Order Dictates Local Hardness in Bulk Metallic Glasses", *Mater. Today* 44, 48 (2021).

4. N. Chawake, L. Raman, P. Ramasamy, P. Ghosh, F. Spieckermann, C. Gammer, B.S. Murty, R.S. Kottada, J. Eckert, "Composite of Medium Entropy Alloys Synthesized Using Spark Plasma Sintering", *Scr. Mater.* 191, 46 (2021).
5. X.L. Bian, D. Şopu, G. Wang, B.A. Sun, J. Bednarčík, C. Gammer, Q.J. Zhai, J. Eckert, "Signature of Local Stress States in the Deformation Behavior of Metallic Glasses", *NPG Asia Mater.* 12, 59 (2020).

Since 1988: more than 1340 peer reviewed publications in international journals, conference proceedings and book volumes (h-index: 104; more than 55.000 citations (WoSci))

VII) Awards

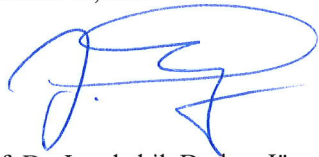
- FEMS Materials Science and Technology Prize 1997
- Georg-Sachs-Prize 1997 of the Austrian Metal Industry
- Hsun Lee Lecture Award, Institute of Metal Research, Chinese Academy of Sciences and Shenyang National Laboratory for Materials Science, Shenyang, China, April 2006
- Gottfried Wilhelm Leibniz-Prize 2009 of the German Research Foundation
- ISMANAM-2012 Senior Scientist Award
- Dr. honoris causa (Dr. h.c.), Slovak Univ. of Technology in Bratislava, Slovak Republic (2012)
- ERC Advanced Grant of the European Research Council (2013)
- DGM-Prize 2014 of the German Materials Research Society
- Corresp. Member, Austrian Academy of Sciences (2017)
- Member of the European Academy of Sciences (EUAS), Belgium (2017)
- Fellow of the Materials Research Society (MRS), USA (2018)
- ERC Proof-of Concept Grant of the European Research Council (2019)
- Honorary Member Indian Institute of Metals (2020)
- Corresp. Member, Saxon Academy of Sciences and Humanities in Leipzig, Germany (2020)
- European Advanced Materials Award, Int. Assoc. of Advanced Materials, Sweden (2021)
- Foreign Fellow of the Indian National Academy of Engineering, India (2021)
- Full Member of Sigma Xi, The Scientific Research Honor Society, USA (2022)
- THERMEC Distinguished Award (2023)
- Foreign Fellow of the National Academy of Sciences, India (NASI) (2023)

VIII) Patents:

Since 1992: 24 German, European and international patents on different topics in the areas of materials science and processing technology.

Topics: Metallic glasses and composites, nanostructured high-strength materials, strength and plasticity improvement, hard magnetic materials, superconducting materials, surface modification, intermetallic compounds, porous bulk materials and hybrid structures

Leoben, March 18, 2025



Univ. Prof. Dr.-Ing. habil. Dr. h.c. Jürgen Eckert

Director, Erich Schmid Institute of Materials Science, Leoben, Austrian Academy of Sciences, Austria and Professor for Materials Physics, Dept. Materials Science, Montanuniversität Leoben, Austria