CURRICULUM VITAE

Prof. Dr.-Ing. Ellen Ivers-Tiffée



born: Sept. 24, 1951 in Frankfurt/Main, Germany spouse: Dr.-Ing. Thomas Ivers-Tiffée child: Anna (1985)

Affiliation

KIT Distinguished Senior Fellow, Karlsruhe Institute of Technology (KIT)

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University Education and Professional Experience

Study of Mineralogy/Crystallography (DiplMin.) at Philipps-Universität Marburg/Germany
Ph.D. thesis (DrIng.) at Friedrich-Alexander-Universität Erlangen/Germany
Siemens AG, Corporate Research and Technology, Center of Applied Materials Research, Fields of Research & Development: Functional Ceramics for Electronic Devices and Electrochemical Devices
Full Professorship for Electrical Engineering and Information Technology and Head of the Institute for Applied Materials – Materials for Electrical and Electronic Engineering (IAM-WET), Karlsruhe Institute of Technology (KIT) (until 2009: Universität Karlsruhe (TH))

since 2019 KIT Distinguished Senior Fellow

Research Areas

Electrochemical energy conversion (solid electrolyte and polymer fuel cells) and storage (lithium-ion and all-solid-state-batteries):

- electrical/electrochemical reaction and transport processes at surfaces and interfaces
- electrical/electrochemical measurement and evaluation procedures
- electrochemical modelling, model-based material development and simulation, 3D-analysis of porous media (tomography)
- model-based in-situ diagnosis and lifetime prediction

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Honors and Awarded Memberships

- Member of acatech the German Academy of Science and Engineering (since 2007)
- Member of the German Academy of Sciences Leopoldina (Engineering Sciences) (since 2005)
- Fellow of The Electrochemical Society (ECS) (since 2015)
- Fellow of the School of Engineering, The University of Tokyo, Japan (since 2015)
- Christian Friedrich Schönbein medal in gold, European Fuel Cell Forum (2014)
- Academician of the World Academy of Ceramics, Faenza/Italy (since 2009)
- Swiss Society for Thermal Analysis and Calorimetry (STK) Award for Applied Chemical Thermodynamics (1996)

Honorary Positions

1996 – 1998	Member of the Senate of Universität Karlsruhe (TH)
1998 – 2002	Vice-President of Studies and Teaching, Universität Karlsruhe (TH)
1999 – 2002	Member of the Research Council of the State of Baden-Württemberg
2001 – 2007	Member of the Senate of the Helmholtz Association of the National Research Centers (HGF), Bonn/Germany
2003 – 2007	Member of the Board of Directors of the International Society for Solid State Ionics
2006 – 2011	Member of the Senate of the Karlsruhe Institute of Technology (KIT) (until 2009: Universität Karlsruhe (TH))
2007 – 2010	Member of the Innovation Think-Tank of the State Government of Baden-Württemberg, Germany
2010 – 2020	Working group member of the "World Premier International Research Center (WPI) Initiative" of the Japan Society for the Promotion of Science (JSPS)
2012 – 2014	Member of the Review Board "Materials Science" of the German Research Foundation ("Deutsche Forschungsgemeinschaft", DFG)
2014 – 2016	Member of the Council for Innovation and Competitiveness ("Rat für Innovation und Wettbewerbsfähigkeit") of the Baden-Württemberg State Ministry of Finance and Economy, Germany
since 2014	Member of the Senate of the German Research Foundation ("Deutsche Forschungsgemeinschaft", DFG)

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Further Professional Activities

1986 – 1996	Head of Technical Committee on "Continuing Education" within the German Ceramic Society (DKG)
1991 – 1994	Teaching assignment (Dept. of Geosciences), Philipps-Universität Marburg/ Germany
1996 – 1998	Member of the Review Board BMBF-NMT, Project Management Jülich (PTJ), Germany
1996 – 2002	Liaison Officer for the Foundation of German Business ("Stiftung der deutschen Wirtschaft"), Klaus Murmann Fellowship Programme
1997 – 2000	Member of the Board of Trustees of the Academy for Technology Assessment in the State of Baden-Württemberg
1997 – 2000	Member of the Selection Committee of the "Margarethe von Wrangell" Habilitation Program for Female Scientists, Baden-Württemberg
1999 – 2004	Member of the Selection Committee for the State Research Prize of Baden- Württemberg
1999 – 2006	Member of the Scientific Advisory Board of the Leibniz Institute for Solid State and Materials Research (IFW) Dresden/Germany
2000	Visiting Professor at Oita University, Japan
2001 – 2014	Member of the Coordination Board of the DFG-Center for Functional Nanostructures (CFN), Karlsruhe Institute of Technology (KIT) (until 2009: Universität Karlsruhe (TH)) and Spokesperson for Research Area F ("Nano-Energy")
2002 – 2008	Member of the Scientific Advisory Board of the Fraunhofer Institute for Silicate Research (ISC) Würzburg/Germany
2004	Member of the Perspective Committee of Forschungszentrum Jülich/Germany
2004 – 2006	Member of the Search Committee "Technical Sciences" of the Körber European Science Award
2008 – 2018	Member of the Board of Trustees of the Institut für Mikroelektronik Stuttgart/Germany (IMS CHIPS)
since 2013	Member of the Executive Board, KIT-Freundeskreis und Fördergesellschaft e.V. (KFG, friends of KIT)
2014 – 2020	Member of the Board of Trustees, "Friedrich und Elisabeth Boysen-Stiftung"
2016 – 2018	Scientific Member, "Senate Committee on Strategic Planning" of the German Research Foundation ("Deutsche Forschungsgemeinschaft", DFG)
2016 – 2020	Member of the KIT Sounding Board for the German "Excellence Strategy"
since 2019	Member of the Foundation Board of the "Hanse-Wissenschaftskolleg" (Institute for Advanced Study, HWK)

Publications

Author or co-author of more than 400 papers in refereed journals, books & book chapters and conference proceedings as well as 26 patents granted or pending; *h*-index: 52 (Web of Science)

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Organization of International Symposia, Workshops and Conferences

2005	"International Conference on Solid State Ionics (SSI-15)", in cooperation with Prof. Dr. J. Maier (Max Planck Institute for Solid State Research, Stuttgart/ Germany), Baden-Baden/Germany, July 17-22, 2005
2009	2 nd Indo-German Workshop on "Fuel Cells & Hydrogen Energy", in cooperation with Prof. Dr. D. Stöver (FZ Jülich/Germany), at Universität Karlsruhe (TH), Karls- ruhe/Germany, March 16-19, 2009
2010	Symposium on "Materials for Fuel Cells", in cooperation with Dr. W. J. Quadakkers (FZ Jülich/Germany), in the framework of the "DECHEMA 1 st International Conference on Materials for Energy", Karlsruhe/Germany, July 4-8, 2010
2010	"Functional nanostructures applied in energy storage and energy conversion systems" – CFN Workshop for graduate students as part of the "DECHEMA 1 st International Conference on Materials for Energy", Karlsruhe/Germany, July 6-7, 2010
2012	CFN Summer School 2012 on "Nano-Energy (Solar Cells, Fuel Cells, and Membranes)", Bad Herrenalb/Germany, September 14-17, 2012
2015	Symposium I05 "Solid-Gas Electrochemical Interfaces", in cooperation with Prof. Dr. M. Mogensen (DTU, Roskilde/Denmark), Prof. Dr. T. Kawada (Tohoku University, Japan), Prof. Dr. S. B. Adler (University of Washington, USA), Prof. Dr. P. J. Kulesza (University of Warsaw, Poland) and Prof. Dr. S. Mukerjee (Northeastern University, USA), in the framework of the 227 th Meeting of The Electrochemical Society (ECS), Chicago IL/USA, May 24-28, 2015
2018	Conference Chair of the 13 th "European Fuel Cell Forum", in cooperation with Dr. André Weber (KIT), Lucerne/Switzerland, July 3-6, 2018
2018	German-Japanese Joint Workshop on "Advanced Secondary Battery Technologies", in cooperation with Prof. Dr. Jens Tübke (Fraunhofer Institute Chemical Technology (ICT), Pfinztal/Germany), Karlsruhe, September 19-21, 2018

Current Memberships in Scientific Committees and Professional Societies

- Senate of the German Research Foundation ("Deutsche Forschungsgemeinschaft", DFG)
- Advisory Board, CIMTEC International Ceramics Congress
- DGM Deutsche Gesellschaft für Materialkunde (German Society for Materials Science)
- ECS The Electrochemical Society
- MRS Materials Research Society