

Brief Biosketch of Robert Meißner

Dr.-Ing. Robert Meißner is currently a professor at the Hamburg University of Technology (TUHH). He is affiliated with the Institute of Polymers and Composites at the TUHH and the Institute of Surface Science at the Helmholtz-Zentrum Geesthacht (HZG). He received his diploma in physics from the University of Bremen and his doctorate from the same university in the group of Prof. Lucio Colombi Ciacchi. However, he conducted his research at the Fraunhofer Institute for Manufacturing Technology and Applied Materials Research (IFAM) in Bremen, where he also was a postdoctoral research associate. During his time at IFAM, he completed courses to become a certified European Adhesives Specialist and a Fiber Reinforced Plastic Specialist. When he felt that the time had come for a professional change, he moved to Switzerland and worked in Prof. Michele Ceriotti's group at the École polytechnique fédérale de Lausanne (EPFL). Shortly after joining Michele Ceriotti's group, he received an appointment to a tenure-track junior professorship in soft matter simulations at TUHH. He is a long-standing member of the German Physical Society (DPG) and a deputy representative for the TUHH in the Topic Selection and Evaluation Committee of the Helmholtz Graduate School for the Structure of Matter (DASHH). His research focuses mainly on the application and development of advanced molecular dynamics simulation techniques to study interfaces between (bio)polymers as well as aqueous electrolytes and ionic liquids to inorganic surfaces such as amorphous carbons or ceramics. At the same time, he is interested in a fundamental atomistic understanding of magnesium corrosion processes, for which he is conducting research with colleagues at the Magnesium Innovation Center using machine learning methods and quantum chemical calculations based on ab initio approaches.

