


Personal Information

Full name	Thomas W. Michely	
Current position	Professor for experimental physics	
Organization	II. Physikalisches Institut, University of Cologne	
Country	Germany	

Short Biography

Thomas Michely was born in 1961, studied physics and philosophy at the University Bonn. He received his diploma in physics in 1988, for which he developed a combination of field ion and scanning tunneling microscope. At the Research Center Jülich he developed the first variable temperature scanning tunneling microscope, with which he started to investigate the temperature dependence of the sputtering morphology of metal surfaces, and received his PhD with George Comsa in 1991. He continued as a scientist in Jülich in the institute of George Comsa and investigated in the subsequent years homepitaxial growth with a variety of deposition methods, erosion processes, adsorption phenomena and surface reactions. In 1994 he received a Feodor-Lynen Fellowship and joined the group of Ruud Tromp at IBM T.J. Watson Research Center conducting low energy electron microscopy of epitaxial growth and surface reactions on Si surfaces. In 1996 he submitted his habilitation and became a Heisenberg Fellow from 1997 to 2001. During that time he moved to RWTH, where he became a professor in 2003, and continued to investigate growth and erosion processes as well as pattern formation. Jointly with Joachim Krug he published in 2004 a monography on crystal growth far from equilibrium. In 2006 he became full professor at the University of Cologne.

His current research interests are graphene hybrid materials and cluster superlattices, 2D layer materials, growth and epitaxy (oxides, metals, organics), pattern formation, interaction of energetic particles with surfaces; atomic scale investigations of surface reactions, electronic and magnetic surface structure, as well as adsorption on surfaces (water, organic molecules). Key methods of his research are scanning tunneling microscopy and -spectroscopy, as well as a variety of synchrotron based electron spectroscopies.

Thomas Michely has won the Wayne B. Nottingham Prize as well as the Günther-Leibfried Preis in 1992, and the Gaede Prize of the German Vacuum Society in 2000. In 2007 he has been visiting Professor at Zhejiang University. He is author of more than 140 publications, holds 2 patents and has given more than 95 invited talks at international conferences.