

Wanda Andreoni is manager of Computational Biochemistry and Materials Science at the IBM Zurich Research Laboratory. Her career started as a solid state physicist at the University of Rome, Italy, where she had studied Physics. She continued her career as a computational scientist in physics and chemistry at academic and industrial institutions in Italy, France, the U.S.A., and at various institutions in Switzerland. She joined the IBM Zurich Research Laboratory in 1986 as a permanent staff member, and since 1994 she has been leading the computational activities in physics and chemistry. In 1999, she has been elected a member of the IBM Academy of Technology. Since 1999, she also serves as Council member of the IBM Deep Computing Institute. Her research has focused on diverse frontier areas of chemistry and physics: metal and semiconductor clusters and surfaces, fullerenes and fullerene-based materials, organic light-emitting devices, high-k dielectrics for CMOS technology and biologically relevant systems such as metal-activated enzymes and ligand-protein complexes. The ultimate goal of her simulations, which are mainly based on density-functional theory, is the design of novel functional materials for advanced technologies, including pharmaceuticals.