

Curriculum vitae

Branko Gumhalter

I was born in 1947 in Zagreb where I attended the elementary and high school. In autumn 1966 I enrolled in Faculty of Science of the University of Zagreb where I acquired the B.Sci. degree in theoretical physics in spring 1971. After completing the army service and spending one year as intern at the "Institut R. Bošković" I continued my postgraduate studies at Imperial College in London under the supervision of Dr. D.M. Newns. I acquired the Ph.D. degree in 1976 with the thesis "*Calculations of the Dynamic Screening Effects in the Electronic Spectra of Adsorbates*" with Prof. D.C. Langreth [Rutgers University (New Jersey, USA) & NORDITA] as external examiner.

Since autumn 1976 I have been permanently employed at the Institute of Physics of the Zagreb University where I have continued the research in surface science. Throughout that period I have lead research projects at the Institute and supervised a number of diploma, M.Sci. and Ph. D. theses in the field of surface science. I served as the president of the Scientific Council of the Institute during two mandates and of the Executive Council in one mandate.

The results of my research activities have been published in over 100 scientific papers in internationally refereed journals. I have also published as author or coauthor four scientific monographs and/or books dealing with the subject of interactions of atomic particles and radiation with surfaces and adsorbates. Since 1979 I have delivered around twenty invited/plenary talks at various international scientific conferences and have served as a member of the advisory boards at a number of international conferences and congresses.

I have served as a member of the *Executive Committee of the Surface Science Division of the International Union of Vacuum Science, Technology and Applications*, and currently am a member of the *Board of Surfaces and Interfaces Section of the Condensed Matter Division of the European Physical Society*. In the period 1998-2004 I was a member of the *International Advisory Board* of the journal *Surface Science*. In the past twenty years I have been serving as a regular referee for the journals *Physical Review B*, *Physical Review Letters* and *Surface Science*.

Since the beginning of my work at the Institute of Physics in Zagreb I have spent longer and shorter periods as a visiting scientist or professor at many renowned research institutions worldwide: University of Waterloo (Canada), Fritz-Haber-Institut der MPG (Berlin), Università di Genova (Italy), Rutgers University (New Jersey, USA), Donostia International Physics Center (San Sebastian, Spain), Universidad Autónoma de Madrid (Spain), Universität Bonn (Germany), Technische Universität München (Germany), Università di Modena (Italy), Max-Planck-Institut für Strömungsforschung (Göttingen, Germany), Catalysis Research Center (Hokkaido University, Japan), and the International Centre for Theoretical Physics (Trieste, Italy), where I was appointed as Visiting Scientist or Research Leader. In that capacity I organized in 1992 the international conference "Inelastic energy transfer in interactions with surfaces and adsorbates".

| In the past I have led several international and bilateral research projects with the International Atomic Energy Agency (Vienna), National Science Foundation (Washington, USA), Forschungszentrum KFA Jülich (Germany), European Science Foundation (Strasbourg), Universidad Autónoma de Madrid (Spain), Ruhr-Universität Bochum (Germany), and Bavarian Office for Scientific Collaboration (München, Germany).

In 1996 I was awarded by the International Centre for Theoretical Physics in Trieste with the *Senior Research Associate Award*.

In 2002 I was awarded by the *State Award for Science* of the Croatian Parliament.