

Curriculum Vitae  
Prof. Dr. Dr. h.c. Wolfgang Schmickler

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date of birth: Sept. 11, 1946

### Education

**University education** from Sept. 1, 1965 till Sept. 1, 1973 studies of physics, mathematics und chemistry at the universities of Bonn, Heidelberg and Imperial College, London.

**first degree** diploma in physics, April 1972, at the der University of Bonn.

**doctorate** Doctor of Science (with summa cum laude) in August 1973 at the Institute of Physical Chemistry of the University of Bonn; supervisor: Prof. Dr. W. Vielstich.

**habilitation** in Dec. 1978 at the Institute of Physical Chemistry of the University of Bonn.

### Positions

1973 - 74	Scientific coworker, Institute of Physical Chemistry, University of Bonn
1976 - 80	Scientific Assistant, University of Bonn
1980 - 85	Lecturer at the University of Düsseldorf
1985 - 91	Temporary Professor at the University of Bonn
1990 - 92	Associate Professor, Department of Physics, Utah State University, Logan, Utah, USA
1992 . 2014	Professor, Institute of Theoretical Chemistry, Ulm University

since Oct. 2014      Senior Professor, Institute of Theoretical Chemistry,  
Ulm University

### **Fellowships**

1974 - 76              Liebig-Scholarship of the Confederation of the Ger-  
man Chemical Industry

1980 - 85              Heisenberg-Fellowship of the Deutsche Forschungs-  
gemeinschaft

1989 - 90              Fellowship of the Max Kade Gesellschaft for a research  
visit at the State University of New York, Stony Brook

### **Awards**

- Award of the Gesellschaft der Freunde und Förderer der Rheinischen Friedrich Wilhelm Universität zu Bonn (1973) .
- Bodenstein Preis der Deutschen Bunsengesellschaft für Physikalische Chemie (1985).
- Fellow of the International Society of Electrochemistry, since 2009
- Corresponding scientist of CONICET, Argentina; since 2009.
- Alexander Kuznetsov Prize, International Society of Electrochemistry, 2011.
- Doctor honoris causa of the National University of Córdoba, Argentina, May 2013.
- f-cell award for science, f-cell Messe Stuttgart, 2013 (with Dr. E. Santos)

### **Positions in Scientific Organizations**

- Chairman of the Division Fundamental Electrochemistry of the International Society of Electrochemistry, 1988 - 1990
- Founding member and member of the board of directors of the Arbeitsgemeinschaft elektrochemischer Forschungsinstitutionen (AGEF), 1986 - 1990

## Areas of Research

- Electrocatalysis for fuel cells
- Metal deposition and dissolution
- Structure of solid/liquid interfaces
- Theory of in situ spectroscopies of solid/liquid interfaces
- Foundations of electrochemical nanotechnology

## Long standing cooperations

- Dr. Elizabeth Santos, Universidad Nacional de Córdoba, FAMAF  
various grants since 1995: Volkswagenstiftung, DAAD-CECYT, BMBF-CECYT
- Dr. Ezequiel Leiva, Universidad Nacional de Córdoba, Unidad de Matemática y Física, Humboldt Fellowship, DAAD grants
- Dr. Valentina Lazarescu,  
Institute of Physical Chemistry *Ilie Murgulescu*  
Bucarest, Romania  
various grants since 2002: DAAD, DFG
- Prof. Dr. Renat Nazmutdinov, Department of Inorganic Chemistry, Kazan State Technological University, various grants of DAAD and DFG.
- Prof. Harald Ibach, Forschungszentrum Jülich, IBN-4, D-52425 Jülich, Germany
- Dr. Paola Quaino, PRELINE, Universidad Nacional del Litoral, Santa Fé, Argentina, various grants from DFG, DAAD-MINCYT

## Teaching Experience

- two-year course in Physical Chemistry
- quantum mechanics for chemists
- mathematics for chemists
- solid state physics (graduate course in physics)
- statistical mechanics (graduate course in physics)

- several courses on theoretical aspects of electrochemistry: reaction rate theory, stochastic processes, Anderson-Newns theory, electron transfer theory, chemical bonding
- four international courses on the theory of electrocatalysis in various universities.

### Research visits

March - April 1974	Chemistry Department, Technical University of Denmark
March - Sept. 1979	A.N. Frumkin Institute of the Soviet Academy of Sciences, Moscow, USSR
Nov. 1981 - April 1982	Laboratoire d'Electrochimie Interfaciale du C.N.R.S. Meudon, France
Nov. 1983 - March 1984	IBM Research Laboratory, San Jose, California, USA
March - April 1987	Visiting Professor at the University of Florence, Italy
March 1989 - Feb. 1990	Visiting Professor at the State University of New York at Stony Brook
Juni - Juli 1990	Visiting Scientist at the Brookhaven National Laboratory, Upton, New York, USA
March - April *1991	Visiting Professor at the University of Florence, Italy
Juli - August 1991	Visiting Scientist at the University of Düsseldorf, Germany
Juli - August 1992	Visiting Scientist at the Institute for Energieverfahrenstechnik, KFA Jülich , Germany
Sept. 1996 - Feb. 1997	Visiting Scientist at the University of Porto, Portugal
March - Sept. 2002	Visiting Professor at the University of Florence, Italy

### Publications

- More than 280 papers in journals and monographs
- Five textbooks
- Editor of three special issues of journals