

Professor Roberto Car - BioSketch

Ralph W. Dornste *31 Professor in Chemistry, Professor of Physics, the Program in Applied and Computational Mathematics, the Princeton Institute for the Science and Technology of Materials, and the Princeton Institute for Computational Science and Engineering (PICSciE) Princeton University, Princeton, NJ 08544-1009 Phone: (609) 258-2534, FAX: (609) 258-6746 E-mail: rcar@princeton.edu URL: www.princeton.edu/chemistry/faculty/profiles/car/

Education and Training undergraduate and graduate studies (1965-1971) at Politecnico di Milano, Milan, Italy, Doctor degree (physics) 1971; postdoctoral training: Physics Dept., University of Milan, Milan, Italy (1973-1974); Physics Dept., Politecnico di Milano, Milan, Italy (1975-1976)

Research and Professional Experience

1999-present Professor in Chemistry and the Princeton Institute for the Science and Technology of Materials, Princeton University; electronic structure theory, classical and quantum simulations in condensed phase, liquid and amorphous states of matter; phase transitions; quantum transport

1991-1999 Professor of Condensed Matter Physics, University of Geneva, Switzerland; Director, IRRMA, EPFL, Lausanne, Switzerland; classical and quantum simulations in condensed phase, nanostructures, phase transitions

1990-1991 Professor, Condensed Matter Physics, SISSA, Trieste, Italy; classical and quantum simulations in condensed phase

1984-1990 Associate Professor, Condensed Matter Physics, SISSA, Trieste, Italy; ab-initio molecular dynamics, studies of liquid and amorphous systems

1981-1983 Visiting fellow, IBM T.J. Watson Research Center, Yorktown Heights, electronic structure of defects in semiconductors

1977-1981 1st Assistant and Lecturer (1980), Dept. of Physics, EPFL, Lausanne, Switzerland, electronic structure and geometry of small metallic clusters

Selected Honors

2016 Elected Member of the National Academy of Sciences

2016 National Award in Theoretical Chemistry of the American Chemical Society

2012 Enrico Fermi Prize of the Italian Physical Society.

2011 Doctor Degree Honoris Causa, EPFL, Lausanne, Switzerland

2010 Berni J. Alder CECAM Prize in Computational Physics

2009 Sidney Fernbach Award of the IEEE Computer Society

2009 Dirac Medal and Prize of the International Centre for Theoretical Physics (ICTP)

2008 Humboldt Research Award for Senior U.S. Scientists

2005 Doctor Degree Honoris Causa, University of Trieste, Italy.

1995 A. Rahman Prize of the American Physical Society

1990 Hewlett-Packard Prize of the European Physical Society

Synergistic Activities

2014- Editor of the Springer Series in Surface Science

2004- Advisory Board of the Fritz Haber Institute of the Max-Planck Society

2009- International Advisory Board of the Psi-k network on electronic structure theory

1989- Advisory Board of the U.S. Workshop on Electronic Structure (ES)