

YURIY GORBACHEV

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In 1976 graduated from the Leningrad State University, Department of Mathematics and Mechanics, specialising in Physics of Fluids.

In 1982 got a degree of Candidate of science in physics and mathematics. Leningrad State University, Leningrad, major: Mechanics of fluids, gas and plasmas.

In 1988 got a degree of Senior Research Fellow.

In 2000 got a degree of Doctor of science in physics and mathematics. St. Petersburg State Polytechnic University, major: Mechanics of fluids, gas and plasmas.

RESEARCH CAREER

1976 - 1996: Research Assistant, Junior Research Fellow, Senior Research Fellow at A.F. Ioffe Physical Technical Institute of Russian Academy of Science (USSR Academy of Science until 1992) Theoretical Department, St. Petersburg

Activities: Development of gas-dynamic and kinetic approaches to multicomponent flow systems. Development of quasiclassical approaches to molecule-molecule collisions and molecule-surface interaction.

1996 - 2001: Deputy Director at Institute for High Performance Computing and Data Bases, St. Petersburg.

Activities: Simulation of film growth process. Computational methods for evaluation of the processes in rarefied gas flows. Nucleation process investigation. Administration.

2001 – 2004: Deputy Director at Institute for High Performance Computing and Data Bases of the St. Petersburg State Polytechnical University.

Activities: Simulation of film growth processes and PECVD devices. Nucleation process investigation. Administration.

2004 – 2008: Professor of the Chair of Physical Chemistry, Faculty of Materials Research and Technology, St. Petersburg State Polytechnical University.

Activities: Simulation of film growth processes and PECVD devices. Making research in nucleation and in kinetic theory of reactive gas mixtures. Lecturing.

2005 – present: consultant, Head of the Research Department (since 2006) at Geolink Technologies, St. Petersburg.

Activities: Simulation of film growth and other processes for semiconductor and solar industry. Development of the kinetic theory for the reactive gas mixtures. Management.

EDITORIAL BOARDS

Member of the program committee of the ICCS since 2003 (head of the program committee in 2003)

Co-organizer of Workshops on Simulation of Multiphysics Multiscale Systems as a satellite events on ICCS 2004 – 2012

Member of the program committee of the ICCSA since 2005

Member of the local organizing committee of the RGD25 (2006)

Reviewer of the “International Journal of Modelling and Simulation”, ISSN: 0228-6203

Reviewer of the “International Journal for Multiscale Computational Engineering”

Reviewer of the “Procedia Computer Science”

Reviewer of the “Journal of Microfluidics and Nanofluidics”

Reviewer of the Journal “Thermo physics of High Temperatures”

Editorial Board Member of the “Modern Applied Science”

Publication List: <http://www.geolink-technologies.com/downloads/gorbachev-pubs.pdf>