



Vladimir E. FORTOV

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Curriculum vitae

Date and place of birth: January 23, 1946, Noginsk city, Moscow Region, Russia
Marital Status: Married, one daughter

Education

Moscow Institute of Physics and Technology - M.Sc., Physics and Mathematics (1971)
Moscow Institute of Physics and Technology – PhD, Physics and Mathematics (1977)

Academic experience

- Professor of Chemical Physics and Plasma Physics (1982)
- Corresponding Member of the USSR Academy of Sciences (1987)
- Member of Russian Academy of Sciences (Department of Energy, Engineering, Mechanics and Control Processes (1991)

Professional activity:

1971 - 2020 Junior Researcher, Senior Researcher, Head of Laboratory, Head of Department, Scientific Advisor of the Department, Institute of Chemical Physics Problems, Russian Academy of Sciences

1986 - 1992 Head of Laboratory,
Institute for High Temperatures, USSR Academy of Sciences

1990 - 2020 Professor and Head of the Department,

1992 - 2007	Moscow Institute of Physics and Technology Director, Institute for High Energy Density, Russian Academy of Sciences
2007 - 2017	Director, Joint Institute for High Temperatures, Russian Academy of Sciences
2018 – 2020	Scientific Director, Joint Institute for High Temperatures, Russian Academy of Sciences
1993 - 1997	Chairman, Russian Foundation for Basic Research
1996 - 1997	Deputy Prime Minister of the Russian Federation, Chairman, State Committee for Science and Technology
1997 - 1998	Minister, Ministry of Science and Technology of the Russian Federation
1996 - 2001	Vice-President, Russian Academy of Sciences
2002 - 2013	Head of Department, Department for Energy, Engineering, Mechanics and Control Processes, Russian Academy of Sciences
2013 – 2017	President, Russian Academy of Sciences
2017 – 2020	Academician Secretary, Department on Energy, Engineering, Mechanics and Control Processes, Russian Academy of Sciences

Scientific interests

Thermal physics, plasma physics, chemical physics, energy

Scientific-organizational and civil activity

- Chair of the National Commission of the Russian Federation for UNESCO (1998 – 2004)
- Vice-Chair of the National Commission of the Russian Federation for UNESCO
- Member of the Presidential Council for Science and Education
- Member of the Skolkovo Innovation Center Scientific and Advisory Council
- Member of the Scientific and Technical Council of the OJSC RUSNANO Board of Directors
- Presidium member of the ROSATOM Scientific and Technical Council
- Member of the Board of Regents of the Northern (Arctic) Federal University
- Delegate to the Council of the Facility for Antiproton and Ion Research (FAIR) (till 2019)
- Member of the Joint Scientific Council FAIR/GSI (JSC)
- Honorary Member of the Russian section of the Combustion Institute
- Member of the Academic Council, JIHT RAS (Joint Institute for High Temperatures of RAS)
- Chair of the Dissertation Board, JIHT RAS (Joint Institute for High Temperatures of RAS)
- Member of the Academic Council and Dissertation Board, IPCP RAS (Institute for Problems of Chemical Physics of RAS)
- Chair of the Scientific Council for Integrated Problem “Low-Temperature Plasma Physics”

Membership of Academies

- Member of the Academia Europaea (The Academy of Europe), 1998
- Member of Max Planck Society (Germany), 2000
- Foreign Member of the US National Academy of Engineering, 2002
- Foreign Member of the Georgian National Academy of Sciences, 2002
- Member of the Royal Academy of Engineering, UK, 2003
- Member of the Royal Academy of Engineering Sciences, Sweden, 2004
- Member of the Norwegian Scientific Academy for Polar Research, 2009
- Corresponding Member of the Royal Academy of Engineering of Spain, 2013
- Foreign Member of the US National Academy of Sciences, 2014
- Member of the European Academy of Sciences and Arts, 2014
- Foreign Member of the National Academy of Sciences of the Republic of Kazakhstan, 2015

Membership of Universities

- Honorary Member, American Physical Society, 2001
- Honorary Professor, Ben-Gurion University of the Negev, Israel, 2009
- Visiting Professor, Department of Physics, Imperial College, London, 2009 -2013
- Honorary Professor, Goethe University Frankfurt, Germany, 2010
- Honorary Professor, University of Rostock, Germany, 2006
- Doctor Honoris Causa, Moscow Institute for Physics and Technology, 2012
- Doctor Honoris Causa, Peter the Great St.Petersburg Polytechnic University, St. Petersburg, 2012
- Doctor Honoris Causa, Ioffe Institute, St.Petesburg, 2012
- Doctor Honoris Causa, Samara State Aerospace University, 2012
- Doctor Honoris Causa, National Research Tomsk State University, 2012
- Doctor Honoris Causa, Osaka University, Japan, 2015
- Honorary Doctor of Joint Institute for Nuclear Research, Russia, 2015
- Doctor Honoris Causa, Polytechnic University of Valencia, Spain, 2016
- Doctor Honoris Causa, Chubu University, Japan, 2019

Activity in the Editorial Bodies

- Member of the Advisory Editorial Board, Journal “High Temperatures-High Pressures:
- Member of the Editorial Board, Journal “High Pressure Research”
- Member of the Advisory Board, Journal “Contributions to Plasma Physics”
- Member of the International Advisory Board, International Journal “Thermophysics and Aeromechanics”
- Editor-in-Chief, Russian Journal “Teplofizika Visokih Temperatur” (“High Temperature”, Springer)
- Editor-in-Chief, Journal “V Mire Nauki”

- Member of the Advisory Board, “Physics-Uspekhi (Advances in Physical Sciences)”
- Member of the Editorial Board, “Doklady Rossijskoj akademii nauk. Fizika, tekhnicheskie nauki”.

Awards and Recognition

Russian State Awards

- Order of Red Banner, 1986, for investigation in physics and computational mathematics;
- Order “For Merits for Fatherland” of 4th degree, 1996;
- Order “For Merits for Fatherland” of 3rd degree, 1999;
- Order of Honor, 2007;
- Order of Friendship, 2011;
- Order "Engineering Glory", 2014;
- Alexander Nevsky Order, 2014;
- Order “For Merits for Fatherland” of 2^d degree, 2016
- Order “For Merits for Fatherland” of 1st degree, 2017

Russian Awards for Scientific Achievements

- USSR State Award, 1988, in physics and mathematics for protection systems and space impact experiments in international project Vega of Halley Comet experiment exploration
- State Award of Russian Federation, 1997, for investigation of high current Z-pinch and extreme state of matter research;
- Award of the Government of Russian Federation, 1997, 2000, 2003
- Award of the Government of Russian Federation in the field of education, 2010
- A.G. Stoletov Prize in Physics of Russian Academy of Sciences, 2011
- National Award Person of the Year – 2016
- National Non-governmental Demidov Prize, Russia, 2017
- The Alexey Leonov Medal, 2020

International Awards

- A.P. Karpinsky International Scientific Award in Physics and Chemistry, 1997
- P. Bridgeman Prize for Achievements in High Pressure Physics and Chemistry, 1999
- Max-Planck Award in Physics for Pioneering Investigations of Strongly Coupled Plasmas, 2002
- Hannes Alfvén Prize in Plasma Physics for Outstanding Research of High Energy Density Plasmas, 2003
- G. Duvall APS Award in Shock Compression Science for Pioneering Research in High Energy Density Physics, 2005
- A.Einstein’s Gold Medal of UNESCO for Achievements in Science and International Collaboration, 2005
- Order of Merit of the Federal Republic of Germany (Bundesverdienstkreuz) for Achievements in Science, 2006
- Honoured Legion Order, France, 2006
- Glass Memory Award for Achievements in Shock Wave Science, 2009
- International St. Andrew the First-called Prize, 2010

- Queen Victoria Commemorative Medal, for maintaining traditional values of virtue, bravery and integrity, 2011
- Rem Soloukhin Gold Hands Award, 2012
- Socrates International Award, 2012
- “Global Energy” International Prize, 2013
- The Medal “Contribution to the Development of Nanoscience and Nanotechnologies” of UNESCO, 2015
- Big gold medal of National Academy of Sciences of the Republic of Kazakhstan, 2017

V.E. Fortov was a prize winner of the USSR Sailing Championships in the Cruising Yacht division. He has sailed a yacht around the Cape of Good Hope, Cape Horn and crossed the Atlantic Ocean. He has taken part in five international scientific expeditions to the North and South Poles and in scientific expeditions on the deep-sea submersible “Mir” to the bottom of the Baikal and Leman lakes.