

Aleksey V. Smirnov

630 Dow ESE Building, 1400 Townsend Drive
Department of Geological and Mining Engineering and Sciences
Michigan Technological University (MTU), Houghton, MI 49931
Phone: 906-487-2365 E-mail: asmirnov@mtu.edu

Education

2002 Ph.D., Geophysics, University of Rochester, New York, USA
1991 Candidate of Sciences, Physics/Mathematics, Saint-Petersburg State University, Russia
1987 B.S., Geophysics, Saint-Petersburg State University, Russia

Research and Professional Appointments

2017-present **Michigan Technological University** Houghton, MI, USA
Department of Geological and Mining Engineering and Sciences
Professor of Geophysics
Affiliated Professor – Department of Physics

2012-2017 **Michigan Technological University** Houghton, MI, USA
Department of Geological and Mining Engineering and Sciences
Associate Professor of Geophysics
Affiliated Associate Professor – Department of Physics

2007-2012 **Michigan Technological University** Houghton, MI, USA
Department of Geological and Mining Engineering and Sciences
Assistant Professor of Geophysics
Adjunct Assistant Professor – Department of Physics (2011-2012)

2005-2007 **Yale University** New Haven, CT, USA
Department of Geology and Geophysics
Research Scientist

2003-2005 **University of Rochester** Rochester, NY, USA
Department of Earth and Environmental Sciences
Research Scientist

2002-2003 **University of Rochester** Rochester, NY, USA
Department of Earth and Environmental Sciences
Postdoctoral Fellow

1993-1997 **Saint-Petersburg State University** Saint-Petersburg, Russia
Department of Earth Physics
Assistant Professor

1991-1993 **Saint-Petersburg State University** Saint-Petersburg, Russia
Department of Earth Physics
Research Scientist/Lecturer

Teaching, Advising, and Mentoring

Michigan Technological University

2012-present	Fundamentals of Applied and Environmental Geophysics (GE3040, Undergraduate)
2008-present	Plate Tectonics and Global Geophysics (GE4500/5400, Undergraduate/Graduate)
2011-present	Planetary Geology and Geophysics (GE4530/5430, Undergraduate/Graduate) (<i>Developed and implemented the first planetary geology course offered at the university</i>)
2008-2011	Computational Geosciences (GE3250, Undergraduate)
2011-2012 2017-2018	Special Topics in Geophysics (GE4933, Undergraduate)
2012-2013, 2014-2016	Special Topics in Geophysics (GE5950, Graduate)
2016	Special Topics in Mining Engineering (GE5960, Graduate)
2009	Special Topics in Mineralogy (GE4932, Undergraduate)

The University of Rochester

2002-2004	Geographic Information Systems: Earth Science Applications (EES254/454, Undergraduate/Graduate) (<i>a new course</i>)
2001	Seminar in Paleomagnetism (EES259), a graduate teaching assistant
1998-2000	Introduction to Physical Geology (EES101), a graduate teaching assistant

Saint-Petersburg State University

1993-1997	Gravitational and Magnetic Fields of Earth (Undergraduate)
1993-1997	Computer Applications in Earth Sciences (Undergraduate) (<i>a new course</i>)
1993-1997	Methods of Paleomagnetism (Undergraduate/Graduate)
1991-1993	Fourth Year Field Practicum in Applied Geophysics (Undergraduate)
1991-1993	First and Second Year Laboratory in Experimental Physics (Undergraduate)

Graduate Advisor/Graduate Committee Chair

Current: 2 Ph.D. candidates, 1 M.S. candidate

Former: 3 Ph.D., 8 M.S., 5 D.Sp (D.Sp= *Diploma of Specialist at Saint-Petersburg State University*)

Graduate Committee Member

4 Ph.D., 5 M.S.

Undergraduate Research Advisor and Mentor: 20 students

Other Mentoring Activities

- Faculty Adviser for Lambda Chi Alpha, MTU Chapter (2015-present)

Selected Activities and Service

Michigan Technological University

- Promotion and Tenure Committee, College of Engineering (2013-2015, 2015-Chair, 2017-present)
- Member of the Research and Innovation in STEM Education Institute, RISE (2015-present)
- Member of the Earth, Planetary, and Space Sciences Institute, EPSSI (2010-present)
- Faculty Fellow with the Vice-President for Research Office (2015-2016)

External Service

- Review and Advisory Committee, Institute for Rock Magnetism, U. of Minnesota (2013-2017)
- Science Evaluation Panel of the International Ocean Discovery Program (2009-2012, 2015)
- US National Science Foundation, Geophysics Program Panel

Editorship

- Associate Editor, Journal of Geophysical Research – Solid Earth (2005-present)
- Member of the Editorial Board for LatinMag Letters (2011-present)
- Guest Editor, Journal of Geophysical Research – Solid Earth (2006)

Reviewer

- National Science Foundation (USA) - Earth Science/Geophysics
- National Science Foundation (USA) – Petrology and Geochemistry
- National Science Foundation (USA) - Earth Science/Instrumentation and Facilities (EAR/IF)
- Natural Environment Research Council (UK)
- National Research Council (Canada)
- Journals: Science; Journal of Geophysical Research; Earth and Planetary Science Letters; Geophysical Journal International; Geochemistry, Geophysics, and Geosystems (G-cubed); Physics of the Earth and Planetary Interiors; Gondwana Research; Precambrian Research; Canadian Journal of Earth Science; Geological Society of America – Special Publication; American Journal of Science; Earth, Planets and Space; Revista Mexicana de Ciencias Geologicas

Convener

- American Geophysical Union (AGU), annual meeting: 14 sessions convened and presided
- International Union of Geodesy and Geophysics (IUGG), General Assembly: 3 sessions
- Biennial International Santa Fe Conference on Rock Magnetism: 3 sessions

Professional Societies

- American Geophysical Union (AGU)
- European Geophysical Union (EGU)
- Geological Society of America (GSA, Fellow)

Research Funding

- Externally Funded Grants (in US dollars): \$2,262,889 (NSF, PRF)
- Internally Funded Grants: \$50,012 (MTU)

Awards, Honors, and Fellowships

- Fellow of the Geological Society of America (elected in 2017)
- Ivar Giæver Visiting Program Fellow, Centre for Earth Evolution and Dynamics, University of Oslo, Norway (2017)
- Editor's Citation for Excellence in Refereeing, American Geophysical Union (2010)
- Visiting Fellow, Institute of Rock Magnetism, University of Minnesota (1999, 2000, 2002, 2005)
- Outstanding Student Paper Award, American Geophysical Union (2001)
- Visiting Fellowship, the Council of Ministers of the Northern Countries, University of Aarhus, Denmark (1997)
- Honorary Diploma & Stipend of Heidelberg University and the Rotary Club "Heidelberg Castle" (1996)

Publications

51 peer-reviewed publications including 6 book chapters (eight with MTU student co-authors. 85 abstracts published/presented (15 invited; 42 with MTU student co-authors).

Citizenship

US Citizen