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EDUCATION

School: Moscow State University, <http://www.msu.ru/en/>

Degree:

- B.S.: Physics,
- M.S.: Physics of Sea and Inland Waters

Location: Moscow, Russian Federation

Duration: 09/1999 - 01/2005

EMPLOYMENT HISTORY

Employer: Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami. www.rsmas.miami.edu

Title: Graduate Assistant, Ph.D. Candidate.

Location: Miami, FL, USA.

Duration: 04/2005 - present

Job Duties:

- Laboratory research on ocean wind-wave energy input and dissipation.
- Experiment automation including data acquisition, digital vision and motion control.
- Ph.D. Thesis preparation.

Employer: Institute for Problems in Mechanics, Russian Academy of Sciences.

<http://lfm-ipm.ipmnet.ru>

Title: Engineer

Location: Moscow, Russian Federation

Duration: 09/2002 - 01/2005

Job Duties:

- Experimental research on stratified flows over obstacles.
- High precision continuum imperfections visualization.
- M.S. Thesis preparation.

Employer: Environmental Network International, Inc. <http://www.eni-net.com>

Title: Intern

Location: Edenton, NC, USA.

Duration: 07/2003 - 09/2003

Job Duties:

- Visual Basic Script and SQL programming.
- Analysis and reconfiguration of large scale databases.

PUBLICATIONS

- “Air flow pressure fluctuations induced by surface waves: laboratory study and numerical model”, **Ivan Savelyev** et al, 2007, *writing in progress*.
- “Breaking of nonlinear two-dimensional waves in deep water”, Alexander Babanin, Dmitry Chalikov, Ian Young, **Ivan Savelyev**, 2007, *submitted*.
- “Validation of a three-dimensional numerical model for use with deep-water spilling breakers”, Jennifer L. Regis, Donald N. Slinn, **Ivan Savelyev**, Brian Haus, Mark A. Donelan, 2007, *in review*.
- “Fueling hurricanes: The first measurements of enthalpy supply”, Brian K. Haus, Dahai Jeong, Jun A. Zhang, Jeffrey R. French, Mark A. Donelan, William M. Drennan, **Ivan Savelyev** & Peter G. Black, 2007, *in review*.
- “Predicting the Breaking Onset of Surface Water Waves” Alexander Babanin, Dmitry Chalikov, Ian Young, **Ivan Savelyev**, 2007, GEOPHYSICAL RESEARCH LETTERS, VOL. 34, L07605, doi:10.1029/2006GL029135.
- “Experimental investigation of stratified flows over 3D obstacles”, **Ivan Savelyev**, M.S. Thesis, Moscow State University, Russia, 2005 (*in Russian*).
- “Stratified flow pattern over bluff bodies”, **Ivan Savelyev**, 2003, Proceedings of 4th All-Russian Scientific Youth School (*in Russian*).

PRESENTATIONS

- “Air-sea momentum transfer in hurricane conditions: laboratory experiments”, presentation scheduled for upcoming 2008 Ocean Science Meeting, Orlando, FL.
- “Laboratory study of surface-gravity wave energy input”, poster presentation at AGU 2006 Fall Meeting, San-Francisco, CA.
- “Experimental research on surface-gravity wave energy dissipation”, oral presentation at EXTROP Miami Workshop, 2006, Miami, FL.
- “Experimental investigation of stratified flows over 3D obstacles” M.S. Thesis presentation, 2004, Moscow State University, Russia.
- “Stratified flow pattern over bluff bodies” presented at 1) 4th All-Russian Scientific Youth School, 2003, Moscow, 2) 2004 Lomonosov Readings, Moscow.
- Multiple presentations at student seminars 2003-2007

SKILLS AND ABILITIES

Software: MATLAB – data analysis; NI Labview – custom made automatic control systems; SQL – data base query; MathCAD, Mathematica – analytical mathematics, Adobe Premiere – film editing; Adobe Photoshop – photo editing, MS Office, MS Windows.

Hardware: National Instruments: PXI, Vision and DAQ; Galil: digital motion control; Dantec Dynamics: Particle Image Velocimetry (PIV); TSI: turbulence and temperature measurements; Shadow method flow visualization; others.

Research skills: Experimental and theoretical research on fluid mechanics and physics of ocean and inland waters.

On-board experience: CTD, ADCP, XBT, buoy deployments. Total sea time - 27 days.

Languages: - English, Russian. US Permanent Resident since 2001.

HONORS AND ACTIVITIES

- Marine Science Graduate Student Organization Representative 2006-2007,
- Outstanding Student Paper Award winner at AGU 2006 fall meeting,
- The Royal Caribbean/Ocean Fund Fellowship for fall 2005,
- American Geophysical Union member since 2002,
- Letters of appreciation at Moscow Mathematical Olympiad in 1997 and 1998,
- Certificates of Honor for 2nd and 3d places at Moscow District Physics Olympiad in 1997 and 1999,
- Winner Diploma at MIPT Olympiad in Physics and Mathematics in 1998.

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