

Curriculum Vitae of Alexey I. Soldatov

	Personal Data	
	Name	Alexey Igorovich Soldatov (Алексей Игоревич Солдатов)
	Nationality	Russian Federation
	Post address	3930 NW Witham Hill Dr. #154, Corvallis, OR 97330, USA
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	DOB:	August 11, 1980
	E-mail:	Alexey.Soldatov@gmail.com
	Languages:	Russian, English
Education		
2006- 2009	Ph.D. on Nuclear Engineering, Oregon State University, OR, USA “Design and analysis of a nuclear reactor core for innovative small light water reactors” GPA 3.87 (of 4.0 maximum)	
2002 - 2004	M.S. on Technical Nuclear Physics Moscow Engineering Physics Institute (MEPhI) Master thesis on “Innovative Nuclear fuel Cycle technologies analysis and evaluation, using criteria of IAEA INPRO project”, (“Diploma with excellence”, Average 5.0 points)	
1997 – 2002	B.S. on Nuclear Engineering Moscow Engineering Physics Institute (MEPhI) BS thesis on “Utilization of weapon grade plutonium in commercial WWER – 1000 reactors”, (“Diploma with excellence”, Average 4.9 points (of 5 maximum))	
1999 – 2000	Oregon State University. Nuclear Engineering and Language practice sponsored by Russian President’s scholarships program.	
Additional Education / Fellowships		
June 2008	Use of SSP Tools (CASMO, Simulate) for NuScale core analysis and design. (NuScale Office, Corvallis, OR)	
July – Aug. 2007	Use of SSP Tools (CASMO, Simulate) for Small LWR core analysis and design (Studsvik Scandpower office, Idaho Falls, ID)	
July – Aug. 2005	Summer Institute of World Nuclear University, sponsored by US DOE and IAEA	
Sept. – Nov. 2003	Educational courses on Monterey Institute of International Studies. (Monterey, CA)	
July 2002	International summer school “Nuit Boréales – Public relations in nuclear sector”	
August 2002	Summer Course “Russian Nuclear Reactor Technologies” (8 of Russian NPPs, Russia)	
March 2000	Simulator Training on “Start up and Safety procedures”, WNP-2 NPP, Washington, USA,	
August 1999	“Review of Russian-German joint projects” (Visit of Nuclear R&D facilities in Germany)	
October 1998	Technical Tour “Nuclear Fuel Cycle in France” (trough all French nuclear facilities)	
Work Experience (12 years of work experience in a nuclear sector)		
June 2009 to present	Oregon State University (OSU), Nuclear Engineering and Radiation Health Physics Dept. Assistant Professor, Research Associate, Innovative Reactor Core Design and Analysis	
April – June 2009	OSU, Nuclear Engineering and Radiation Health Physics Dept. Post-doctorate program, Innovative Reactor Core Design and Analysis	
June – Dec. 2008	OSU, Research Grant for NuScale, “Small Modular LWR core design options study”	
2004 - 2006	TACIS Joint Management Unit, Moscow. Consultancy for Rosatom and European Commission for TACIS Nuclear Safety program projects.	
Nov 2003 – May 2004	Minatom of Russia, Department of international collaborations and communications with IAEA / Internship for the preparation of a M.S. Degree Thesis	
July – Sept. 2003	Internship in DS&S headquarters in Reston, VA. Proposal preparation work for Novovoronezh-5 TACIS project, and analysis for Finland-5 tender.	
Sept. 2000 – – June 2002	Internships in Joint burrow of ROSENERGOATOM – Electricité de France. Project evaluation and management.	
Summer 1998, Summer 1997	Siemens A.G. & HGW Ing.; Germany «Creation of data base of components of Nuclear and Thermal Power Plants», «Creation of Computer Based lectures for NPP operators Training »	

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Research Work / Publications

2006- to present	Design and analysis of a nuclear reactor core for innovative nuclear reactors, Co-author for more than 10 conference reports for ANS National and Student conferences
2004	Performance improvement and life-time management on Russian NPPs.
2004	Application of Real-time computer based models for comparison analysis of Innovative Nuclear Power Plant designs and concepts.
2002 – 2004	Analysis of Russian and International activities on innovative nuclear technologies development, from the nuclear non-proliferation prospective.
2002 – 2004	Application of WASP-IV code to the strategic analysis in nuclear sector
2001 – 2003	Efficiency Improvement of heat production on nuclear power plants through the application of thermal pumps
2001 – 2002	Utilization of weapon grade plutonium in commercial WWER – 1000 reactors. (Research project for BS degree)
2000 – 2001	Implication of thermodynamics principals to the effective power and heat production on nuclear power plants
1999	Utilization of thermal releases of NPP–creation of energy-biological complex
1998	The System approach for Solution of NPP heat releases monitoring task
1997	The influence of thermal pollution caused by NPP & CPP on the environment

Computer Literacy

General:	IBM PC User. Windows 95, 98, 2000, XP & Windows NT, MS Office
Graphics:	Corel 5.0 – 8.0 (Draw, Move, Photopaint) Adobe Photoshop, AutoCAD
Programming:	Turbo Pascal 7.0, MS Fortran Power Station.
Math Soft	Mathcad 8.0 Professional Edition
Specific programs	Studsvik Scandpower CMS Tools (CASMO-4, CASMO-4E, SIMULATE-3) WASP-IV Code (IAEA planning package), GETERA Code (Neutron-Physics calculations) Toolbook 4.0 – (computer lectures, and educational programs builder)

Organization Skills (Experience)

1998 – 2007	Co-Chairman of organizing committee of annual international student’s scientific conference «Polar Lights» (Held in cooperation with US DOE, IAEA and Rosatom)
1999 – 2006	Member of Central Committee of Russian Nuclear Society as a Student’s branch leader.
1999 – 2006	President of student’s branch of Russian Nuclear Society in Moscow State Engineering Physics Institute
Summer 2000	Head of Students delegation and organizing committee on summer school Kola-2000 on «Kolskaya NPP»
Summer 1999	Head of Students delegation and member of organizing committee on informational visit - «Germany for Russia» (students have visited German nuclear firms and facilities)

An extensive experience of cooperation with management of Russian Ministry of Atomic Energy, Utility “Rosenergoatom”, Research Centers and Universities.

Awards

2009	ANS Mark Mills Award – for a best article based on the result of doctoral Ph.D. dissertation research.
2007	Medal of Kurchatov, IV degree – For a contribution to the nuclear safety and education.
2005	Medal 50 years of Nuclear Energy – For a contribution to the nuclear safety and education.

Interests (Social and Cultural)

General Aviation Aircraft Piloting (Student Pilot Certificate, endorsed for solo),
Scale models, Traveling, World History, Music (guitar player), Cars, Formula-1 Racing.