

Curriculum Vitæ

Ilya Martchenko

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Research interests

Experimental soft condensed matter

Investigation of its structural and dynamic properties via optical, hydrodynamic methods

Colloids, responsive nanoparticles, nanoswimmers, complex fluids, auto-assembly and liquid crystalline systems, foams, films, gels, porous materials, dendrimers, micelles, vesicles

Small angle X-ray scattering (SAXS), VV/VH dynamic light scattering (DLS/DDLS), transmission electron microscopy (TEM), differential dynamic microscopy (DDM), UV/VIS spectrometry, magnetometry, Kerr effect techniques, rheo-optics, (micro)rheology

Education

- 2014** PhD, University of Fribourg, Switzerland
research area: soft matter physics and nanoscience, focus on colloidal model systems with tunable size and interactions
PhD thesis title: Magnetic colloidal ellipsoids
advisor: prof. Peter Schurtenberger
- 2009** Master of Science (condensed matter physics), St Petersburg State University, Russia
M.Sc. thesis title: Electrooptical and dynamic properties of third-generation cylindrical dendrimers in solutions
advisor: prof. Nikolai Tsvetkov
- 2006** B.Sc. (physics), St Petersburg State University, Russia
graduation thesis title: Macromolecules of cylindrical dendrimers based on *L*-aspartic acid in chloroform solutions: electrooptical, optical and hydrodynamic properties
advisor: prof. Nikolai Tsvetkov
- 2002** Akademicheskaya Gimnaziya of St Petersburg State University (secondary school, focus on physics, maths, languages)
graduation research project title: Physical and chemical aspects of Liesegang rings formation
advisor: Anatoly Osadchev (Institute of Macromolecular Compounds, Russian Academy of Sciences)

Publications (soft matter physics)

Journal articles and preprints:

- Hydrodynamic properties of magnetic nanoparticles with tunable shape anisotropy: prediction and experimental verification ([first author](#), with *Hervé Dietsch, Christian Moitzi, Peter Schurtenberger*.) The Journal of Physical Chemistry B, Vol. 115, No. 49, 14838–14845 (2011), [doi:10.1021/jp2078264](https://doi.org/10.1021/jp2078264). **Front cover of the journal**
- Colloidal analogues of spin systems: order and phase transitions in dense suspensions of magnetic ellipsoids ([first author](#), with *Jérôme J. Crassous, Erik Wernersson, Ann Hirt, Chantal Rufier, Andreas Menzel, Hervé Dietsch, Per Linse, Peter Schurtenberger*.) In preparation (2014)
- Nanoengineering of ellipsoids with tunable magnetic cores and tunable capsules ([first author](#), with *Mathias Reufer, Jérôme J. Crassous, Peter Schurtenberger, Hervé Dietsch*.) In preparation (2014)
- Dynamics of crowded ellipsoidal magnetic particles in external magnetic fields: Differential Dynamic Microscopy in the limit of an entirely opaque medium ([first author](#), with *Vincent Martinez, Jérôme J. Crassous, Wilson Poon, Peter Schurtenberger*.) In preparation (2014)
- Order in densely packed, neutrally buoyant hollow silica ellipsoids ([first author](#), with *Sven Dorosz, Jérôme J. Crassous, Tanja Schilling, Peter Schurtenberger*.) In preparation (2014)



- Hydrodynamic shape of nanoparticles in a viscous fluid: evidence for a boundary layer ([first author](#), with Peter Schurtenberger.) In preparation (2014)
- Synthesis and characterization of mini hematite ellipsoids (with Chantal Rufier, Hervé Dietsch, Peter Schurtenberger.) In preliminary preparation (2014)
- Hydrodynamic, optical and electrooptical properties of macromolecules of third-generation cylindrical dendrimers in chloroform and dichloroacetic acid (with [Nikolai Tsvetkov](#), Larisa Andreeva, Sergei Filippov, Stanislav Bushin, Marina Bezrukova, Irina Strelina, Victoria Alyab'eva, Nina Girbasova, Alexander Bilibin.) Polymer Science Series A, Vol. 52, No. 1, 8–18 (2010), doi: 10.1134/S0965545X10010025
- Third-generation cylindrical dendrimers based on L-aspartic acid in solutions: hydrodynamic and electrooptical properties ([first author](#), with [Nikolai Tsvetkov](#).) Proceedings of MIPT, Vol. 2, No. 2, 28–34 (2010), arXiv: 0809.3907v1
- Maxwell and Kerr effects in solutions of macromolecules with dendrons in side groups (with [Nikolai Tsvetkov](#), Larisa Andreeva, Irina Strelina, Tatyana Dmitrieva, Nina Girbasova, Alexander Bilibin.) Proc. 4th Kargin Conf., Vol. 3, 65 (2007), arXiv: 0905.0153v1

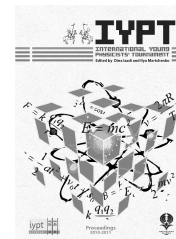
Conference contributions:

- Colloidal analogues of spin systems: Order and phase transitions in dense suspensions of magnetic ellipsoids (with [Peter Schurtenberger](#), Jérôme J. Crassous.) Abstr. American Physical Society March Meeting 2014, Vol. 59, No. 1 (Denver, March 3–7, 2014), **Talk** by Peter Schurtenberger
- Tunable magnetic ellipsoids: Dynamics, order, and magnetic properties across the isotropic-nematic transition ([first author](#), with Jérôme J. Crassous, Mathias Reufer, Chantal Rufier, Hervé Dietsch, Peter Schurtenberger.) Abstr. SoftComp Annual meeting 2012 (heraklion, May 28–June 1, 2012), **Talk**
- Dynamics and ordering of ellipsoidal magnetic nanoparticles probed with light and X-rays ([first author](#), with Jérôme J. Crassous, Chantal Rufier, Hervé Dietsch, Mathias Reufer, Peter Schurtenberger.) Abstr. 9th Nordic Workshop on Scattering from Soft Matter (Chalmers U. Tech., Gothenburg, Jan. 18–19, 2012), p. O-4. **Talk**
- Dynamics and ordering of ellipsoidal nanoparticles: from low to high volume fractions ([first author](#), with Jérôme J. Crassous, Chantal Rufier, Hervé Dietsch, Mathias Reufer, Peter Schurtenberger.) Abstr. Swiss Soft Days 6 and Annual Meeting of the Swiss Group of Rheology (ETH Zürich, Oct. 28, 2011), p. 37. Poster
- Structural and dynamic properties of concentrated suspensions of ellipsoids ([first author](#), with Chantal Rufier, Jérôme J. Crassous, Hervé Dietsch, Peter Schurtenberger.) Abstr. 8th Liquid Matter Conf. (Univ. of Vienna, Sept. 6–10, 2011), p. O5-11. **Talk**
- Variation in the properties of humic acids in buried soils (with [Alexander Ryumin](#), Irina Kechaikina, in Russian.) Proc. Int'l Conf. Resource Potential of Soils (St Petersburg State Univ., Mar. 1–4, 2011), pp. 455–458. **Talk** by Alexander Ryumin
- Hydrodynamic properties of core-shell nanoparticles with tunable shape anisotropy ([first author](#), with Hervé Dietsch, Christian Moitzi, Peter Schurtenberger.) Proc. Int'l Soft Matter Conf. 2010 (Univ. of Granada, July 5–8, 2010), p. 356. Poster
- Macromolecules with side dendrons based on L-aspartic acid: properties and conformational analysis ([single author](#), in Russian.) Abstr. Physics and Progress 2008 (St Petersburg State Univ., Nov. 19–21, 2008), p. 111. **Talk**
- Hydrodynamic, optical and electrooptical properties of hyper-branched macromolecules with side dendrons based on L-aspartic acid (with [Stanislav Bushin](#), [Nikolai Tsvetkov](#), Vera Ivanova, Larisa Andreeva, Nina Girbasova, Victoria Alyabyeva, Alexander Bilibin.) Abstr. 6th Int'l Symposium Molecular Order and Mobility in Polymer Systems (St Petersburg, Russia, June 6–8, 2008), p. 98. Poster
- Electrooptical and hydrodynamic properties of the macromolecules of third-generation cylindrical dendrimers with dendrons based on L-aspartic acid ([first author](#), with [Nikolai Tsvetkov](#), Larisa Andreeva, Stanislav Bushin.) Proc. 4th Modern Problems of Polymer Science (Inst. of Macromolecular Compounds, Russian Acad. Sci., Apr. 15–17, 2008), p. 2-P-68. Poster
- Third-generation cylindrical dendrimers (based on L-aspartic acid) in solutions: hydrodynamic and electrooptical properties ([first author](#), with [Nikolai Tsvetkov](#), in Russian.) Proc. 50th Scientific Conf. of Moscow Inst. of Physics and Technology (Moscow, Dolgoprudny, Nov. 23–26, 2007), pp. 98–99. **Talk**
- Macromolecules of third-generation cylindrical dendrimers based on L-aspartic acid in chloroform solutions: electrooptical, optical and hydrodynamic properties ([first author](#), with [Nikolai Tsvetkov](#).) Abstr. 3rd Modern Problems of Polymer Science (Inst. of Macromolecular Compounds, Russian Acad. Sci., Apr. 17–19, 2007), p. 220. Poster
- Third-generation cylindrical polymers based on L-aspartic acid in chloroform solutions: electrooptical, optical and hydrodynamic properties. Proc. Physics and Progress 2006 ([single author](#), St Petersburg State Univ., Oct. 25–27, 2006), p. 184–186. **Talk**
- Formation of Liesegang rings: the physical aspects for the cases of translational and radial diffusion. Proc. Physics and Progress 2005 ([single author](#), St Petersburg State Univ., Nov. 1–3, 2005), pp. 9–11. **Talk**
- Physical models for Liesegang rings formation at translational and radial diffusion (in Russian.) Abstr. Modern Problems of Polymer Science ([single author](#), Inst. of Macromolecular Compounds, Russian Acad. Sci., Feb. 1–3, 2005), part 2, p. 59. Poster

Selected other refereed publications

Physics education and physics outreach:

- International young Physicists' Tournament: Proceedings 2010–2011 (**Editor**, with *Dina Izadi*, IYPT Archive-AYIMI, 2012), ISBN 978-600-91420-3-3
 - coordinated work between 25 reviewers with in total 98 reviews, 32 selected papers
- Annual auxiliary materials for participants of young Physicists' Tournaments, bibliography indexes, sets of advices, open ended guidelines, tutorials (in English, Russian, since 2002)
- International Young Physicists' Tournament. World Gifted, Vol. 29, No. 1, 13–15 (2010)
- IYPT Archive: a glimpse into the history, development, and educational expertise of the IYPT. IYPT Magazine, Vol. 1, 20–34 (2013)
- Detailed history of early International Young Physicists' Tournaments in 1988–1993 (*IYPT Archive* preprint, 2011)
- A physicist uses Wikipedia: is it reliable and what are the benefits? Proc. *Physics and Progress 2007* (St Petersburg State Univ., Nov. 14–16, 2007), p. 148
- A ball lifts in a rotating vessel: observations and explanation. Proc. *Physics and Progress 2007* (St Petersburg State Univ., Nov. 14–16, 2007), p. 149
- Internal structure and elastic properties of aqueous foams evolving in time: a computer simulation, microscopic photography and acoustic study (first author, with *Dmitry Martchenko*.) Proc. *Physics and Progress 2006* (St Petersburg State Univ., Oct. 25–27, 2006), pp. 226–229. **Talk**
- The qualitative study of Devaux's phenomenon. Abstr. *Physics and Progress 2005* (single author, St Petersburg State Univ., Nov. 1–3, 2005), p. M-07. **Talk**
- Analogies between electric current and fluid flow (in Russian.) Abstr. *Universitetskaya Gimnaziya 2002* (St Petersburg State Univ., Mar. 25–29, 2002), pp. 83–86
- A quantitative analysis of physical and chemical processes in burning out of filaments in incandescent light bulbs (in Russian.) Proc. 25th *All-Russian Scientific and Practical Chemistry Conf.* (St Petersburg State Univ., Mar. 20–Apr. 1, 2001)



Content-based second language acquisition:

- Content-based textual criticism applied to a modern scientific discourse: restoring the problems for the early IYPTs. In preparation (2014)
- Interactive exercises in teaching skills of Slavic languages of science and technology (first author, with *Jakub Olech*, *Tymofii Nikolaienko*, in Russian.) Proc. 39th Int'l Philological Conf. (St Petersburg State Univ., Mar. 15–20, 2010.) **Talk**
- Instant messaging with native speaker as a language learning strategy (first author, with *Jakub Olech*, in Russian.) Proc. 38th Int'l Philological Conf. (St Petersburg State Univ., Mar. 16–21, 2009.) **Talk**
- Use of internet encyclopedia Wikipedia in learning languages of science and technology and in scientific/technical translation (single author, in Russian.) Proc. 37th Int'l Philological Conf. (St Petersburg State Univ., Mar. 11–15, 2008.) **Talk**
- French and English in university communication: a work and teaching experience (with *Dmitry Lisachenko*, in French.) Submitted in Nov. 2007 to *French and English in contact in situations of learning: sociolinguistic and didactical perspectives* (ed. Gilles Forlot, Éditions l'harmattan, Collection *Espaces Discursifs*)
- Understanding scientific and technical texts in an unfamiliar language: role of background knowledge, motivation and comparative analysis (first author, with *Dmitry Lisachenko*, in Russian.) Proc. 36th Int'l Philological Conf. (St Petersburg State Univ., Mar. 12–17, 2007.) **Talk**
- Methods of statistical physics used to describe the internal structure of human languages: simple models, analogies and discussion. Abstr. *Physics and Progress 2006* (single author, St Petersburg State Univ., Oct. 25–27, 2006), p. 91. **Talk**
- Acquisition of a foreign language as a language of professional communication: error analysis (with *Dmitry Lisachenko*, *Maria Sorkina*, *Irina Kravchenko*, in Russian.) Proc. 35th Int'l Philological Conf. (St Petersburg State Univ., Mar. 13–18, 2006.) **Talk** by Dmitry Lisachenko

Selected talks, seminars

- *Networking meeting for Svenska IYPT*, Nationellt resurscentrum för fysik, Lund Univ. (Aug. 21, 2012)
- *From cases to examples: hints and tips about the IYPT*, Belarusian State Univ. (Mar. 4, 2012)
- *A few perspectives on the IYPT*, Svenska IYPT, Malmö Borgarskola (Feb. 12, 2012)
- *International Young Physicists' Tournament: overview*, Fysikbro, Univ. of Gothenburg, Chalmers U. Tech. (Oct. 12, 2011)
- *Presentation and overview of the IYPT Archive*, IYPT, Int'l Organizing Committee Meeting, Isfahan (July 30, 2011)
- *Presentation of the IYPT Archive*, AyPT, Univ. of Leoben (May 5, 2011)
- *how to join the Brownian Movement in three easy steps*, Belarusian State Univ. (Mar. 5, 2011)
- *Predicting rotational and translational mobility of model nanoellipsoids*, Lund Univ. (Mar. 2, 2011)
- *Phase diagrams, structure, and dynamics of anisotropic colloids*, Lund Univ. (Oct. 22, 2010)
- *Dynamics of silica-coated hematite anisotropic particles*, Bombannes, Inst. Laue-Langevin (June 14, 2010)
- *Hydrodynamic properties of anisotropic particles*, Adolphe Merkle Inst., Univ. of Fribourg (May 21, 2010)
- *A comment on 3D Brownian diffusion of submicron-sized particle clusters*, Adolphe Merkle Inst. (Mar. 28, 2010)
- *Elongated model nanoparticles: combination of TEM, DLS, and DDLS studies*, Adolphe Merkle Inst. (Nov. 30, 2009)
- *Controlled partial dissolution of hematite cores in core-shell nanoparticles*, Adolphe Merkle Inst. (Nov. 20, 2009)
- *Size distributions [...] in nanoengineered hollow silica-shell ellipsoidal particles*, Adolphe Merkle Inst., (Oct. 26, 2009)

- *Notes on computational linguistics and language learning*, Philology and Arts, St Petersburg State Univ. (Mar. 1, 2009)
- *Electrooptical and dynamic properties of 3G cylindrical dendrimers in solutions*, Adolphe Merkle Inst. (Feb. 5, 2009)
- *Thermodynamic and hydrodynamic properties of [...] polystyrenes*, Inst. of Physics, St Petersburg State Univ. (Oct. 1, 2008)
- *Why learn languages: experience and curious examples*, Philology and Arts, St Petersburg State Univ. (Sept. 1, 2008)
- *Spherical dendrimers [...] as light-harvesting antennas*, Inst. of Physics, St Petersburg State Univ. (May 7, 2008)
- *holding a Physics Fight in English language. Role of the Review stage at the TyuF GSR*. Tyuf GSR launch round table, Russian Foundation for Education Support (Apr. 17, 2008)
- *Multilingual Wikipedia as a language aid for a physicist* (talk). *Neutrality in Wikipedia* (round table). *Interaction between Wikipedia and scientific community* (round table). 1st Russian Wikiconference, St Petersburg (Oct. 27–28, 2007)
- *What is common in human languages: a physicists' approach*, Dept of Physics, St Petersburg State Univ. (Feb. 16, 2007)
- *Physics of foams*, Russian-Polish Physics School, Dept of Physics, St Petersburg State Univ. (Feb. 13, 2007)
- *Science Museum in the 21st Century*, Dynasty Foundation's round table, St Petersburg (Nov. 27, 2006)

Workshops, schools

- *Organizing Molecular Matter* Annual Meeting, Lund Univ. and Swedish Chem. Soc. (Aug. 29, 2012)
- 10th Annual Surface and Colloid Symposium *Molecular Processes at Solid Surfaces*, Lund Univ. and Swedish Chem. Soc. (Nov. 24–26, 2010)
- 23rd Annual User Meeting, *MAX-lab* laboratory, Swedish Research Council and Lund Univ. (Nov. 8–10, 2010)
- *2nd Swiss Soft Days*, École Polytechnique Fédérale de Lausanne (June 23, 2010)
- 10th European School on *Scattering Methods Applied to Soft Condensed Matter* in Bombannes, Inst. Laue-Langevin (June 12–19, 2010)
- *Natotech Day Fribourg*, Adolphe Merkle Inst., Univ. of Fribourg (Oct. 1, 2009)
- *Sun Tech Days*, Sun Microsystems, St Petersburg (2009, 2007)
- *Fedorovskie chteniya*, Faculty of Philology and Arts, St Petersburg State Univ. (2008, 2007, 2006, 2005), research and practical talks and lectures in written translation and interpretation, workshops on consecutive, simultaneous interpreting
- *Polymerization Mechanism and Polymer Synthesis* laboratory, Inst. of Macromolecular Compounds, Russian Acad. Sci., research practice in physical chemistry (June 2001)

Computer skills

Win / Mac / Linux

LaTeX, html, CSS, office and graphics software, web CMSs, web 2.0 services

Origin, ImageJ, EasyPlot, SASfit, sansview, ImageTool, (basic) MATLAB, and other data processing environments

digital archiving and efficient retrieval of gray literature

TRADOS

Languages

- Russian, native speaker
- English, fluent
- French, fluent
- Polish, Belarusian, fluent; other Slavic languages, strong written and oral comprehension and communication skills
- German, basic; Spanish, Italian, Portuguese (and other Romance languages), basic
 - interests in comparative Indo-European linguistics and Second Language Acquisition studies; peer-reviewed papers, including co-authored with linguists (L2 acquisition for special purposes)
 - experienced interpreter, translator, copy editor, and language tutor with an emphasis on L2 for special purposes
 - long-term professional experience in multilingual environment, e.g. teaching a French-language semester physics exercise course, media relations and interpretation for the international physics events, on-air experience with Polish Radio (2008), Russian Channel 5 (2005–2008), Télévision Suisse Romande (2010)
 - personal editor for award-winning Russian-language poet Elena Shostak
 - independent and collaborative commercial translation and interpretation for *Envirolyte France & Afrique*, *NPO Izumrud Russia*, St Petersburg Oncological Coloproctology Centre; *NPO Ecos Russia* with manuals from *Analytik Jena*; *St Petersburg Technical Translations* with manuals, advertisement from *Rexam plc*, *Avaya Inc.*, *Mettler Toledo*, *Loyola Enterprises Inc.* (since 2003)

Awards

Professional honors and scholarships:

- Int'l Commission on Physics Education Medal for 2013, Int'l Union of Pure and Applied Physics (IUPAP), as part of the IYPT Executive Committee (2013)
- Adolphe Merkle Foundation, Swiss National Science Foundation, PhD scholarship (2009–2012)

- Moscow Inst. of Physics and Technology, conference silver award for a best talk on *Hydrodynamic and electrooptical properties of third-generation cylindrical dendrimers in solutions* (2007)
- Ukrainian Physicists' Tournament for University Students, Kyiv National Univ., team captain of the gold co-winning St Petersburg State University team, gold winner in personal score (2007)
- Moscow State Univ., *InnoCentive* All-Russian Chemistry Olympiad for PhD and master students, bronze winner (2003)
- *Physics and Progress* conferences, St Petersburg State Univ., distinctions for research excellence (2005–2008)
- *Scientific Inquiry* Olympiad for physics undergrads, Dept of Physics, St Petersburg State Univ., gold winner (2006, 2005)

Education, teaching, and undergraduate research:

- International Young Physicists' Tournament, team leader and supervisor (2006, 2005, 2004 n/a) of bronze-winning Russian national teams (2006, 2004), team member (2001) with a group distinction for the most balanced team
- Austrian Young Physicists' Tournament, team leader and supervisor (2008, 2007) of silver-winning Russian national teams
- All-Russian Young Physicists' Tournament, team leader and supervisor of gold (2006, 2005, 2004), silver (2008, 2007), bronze (2003) winning teams, silver winner (2002, 2001) in team score, gold winner (2002, 2001) in personal ranking, team captain (2002)
- Local Young Physicists' Tournament, team leader and supervisor of top rank teams (since 2003), gold (2002, 2001) winner in team score and in personal ratings
- Dean's shortlist of top undergrads at the Dept of Physics, St Petersburg State Univ. (2002–2006)
- *First Step to Nobel Prize in Physics*, Inst. of Physics, Polish Acad. Sci., participation with *The effect of optical rectification as a sensitive method of investigation of defective structure of organic films* (2002)
- Distinctions for undergraduate research projects presented at plenary talks at 5+ pre-university research conferences, science fairs at Moscow State Univ. and St Petersburg State Univ. (2002, 2001)
- St Petersburg Chemistry Olympiad, silver (2002, 2000), bronze (2001) winner
- St Petersburg Physics Olympiad, gold (1999, 1998), bronze (2002) winner

Teaching experience

- Faculty of Science, Univ. of Fribourg, taught undergraduate exercise course in electricity, magnetism, and optics (*Physique-II*) as a teaching assistant to Prof. Christian Bernhard, led weekly seminars for a group of ca. 20 students, organized tests and examination, co-authored weekly tutorials for students and teaching assistants (2010)
- Taught, advised and co-supervised teams of secondary school students preparing to international and national Young Physicists' Tournaments (led weekly seminars, lab sessions, discussion groups with about 5...10 students in a group, made talks and presentations, assisted students with research-based problems via long-term correspondence) since 2002
- Taught English for Special Purposes to members of Russian national teams at IYPTs and AyPTs
- University science fairs, physics popularization talks and demos
- Seminars on the usage of Origin, arXiv.org, LaTeX, Wikipedia
- Freelance private tutor (2003–2009)

Service, fellowship

- Faculty of Science, Univ. of Fribourg, teaching assistant (2010–2012), research assistant (2011–2014)
- Adolphe Merkle Inst. and Fribourg Center for Nanomaterials, Univ. of Fribourg, research assistant (2009–2011)
- Division of *Physical Chemistry 1*, Faculty of Science, Lund Univ., guest researcher (since 2010)
- International Young Physicists' Tournament, EPS, treasurer (2012–2016), jury chairman (2013, 2012, 2011), committee chair for problem selection (2013, 2012), problem author and contributor (2009–2013), archivist and historical researcher (since 2007) with *IYPT Archive* project (since 2011)
- *Igra Uma* TV show, Russian Channel 5, author and presenter of regular ca. biweekly physics questions and demonstrations, aired nationwide in Russia (2005–2008)
- International Young Naturalists' Tournament, co-organizer, IOC member, jury chairman (2013)
- Austrian Young Physicists' Tournament (Univ. of Leoben), jury chairman (2013, 2012, 2011, 2010), juror (2009, 2008)
- Swedish Young Physicists' Tournament (Lund Univ., Malmö Borgarskola), jury chairman (2014, 2013), juror, speaker (2012), observer (2011)
- Swiss Young Physicists' Tournament (Naturwissenschaftliches Inst., MNG Rämibühl Zürich), jury chairman (2010)
- Belarusian Republican Young Physicists' Tournament (Belarusian State Univ.), juror, speaker (2012, 2011, 2010)
- Polish National Young Physicists' Tournament (Inst. of Physics, Polish Acad. Sci.), juror (2010, 2009)
- Slovak Young Physicists' Tournament (Slovak Acad. Sci., Slovak youth Inst.), keynote speaker (2010)
- International, Ukrainian, and All-Russian *Physicists' Tournaments* for University Students (Kyiv National Univ., Moscow Inst. of Physics and Technology), problem author, member of the problem selecting community (2011, 2010, 2009, 2008)
- Centre du Français Scientifique, St Petersburg State Univ., activist and researcher (since 2002)
- POISK Centre, St Petersburg State Univ., among three founding members in 2004, responsible for preparation of teams representing Russia at IYPTs, AyPTs, responsible for language programs, seminars, keynote and warm-up meetings, news releases, communication, infrastructure, event organization, IT coordination (since 2004); speaker, host, juror, jury chairman and member of LOCs (since 2004) at POISK Centre's events, at Local Young Physicists' Tournament (since 2003)

- *Scientific Inquiry* Olympiad for undergraduate students (Dept of Physics, St Petersburg State Univ.), juror (2007)

References

- Prof. Peter Schurtenberger, Lund Univ., Sweden
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Personal and contact details

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- sometimes spelled *Marchenko* due to Russian transliteration variances

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