

OLEG FEYGENSON

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TRIZ Consultant and Facilitator

HIGHLIGHTS

- Level 4 certified TRIZ expert by International TRIZ Association (MATRIZ)
- PhD degree in Applied Physics
- Innovative researcher with proven ability to identify and solve complex technical problems
- Experimental physicist with broad experience in technology development and process engineering
- Excellent interpersonal, communication and project management skills. Years-long experience of working in international atmosphere

PROFESSIONAL EXPERIENCE

Algorithm Technology Research Center (Saint Petersburg, Russia)

(Subsidiary of Gen3 Partners, Boston, USA)

Head of Training Support Department

11.2007 – Present

Project Leader

05.2006 – 10.2007

Responsible for scientific and technical support of TRIZ trainings and mentorship sessions:

- Lectured parts of GEN3 Partners' TRIZ course for the corporate clients such as General Electric; Wrigley; Fuel Cell Energy, Inc. and others
- Developed a content and new case studies for TRIZ training courses
- Conducted mentorship sessions. Analyzed problems and provided solutions together with client's teams
- Participated in the development of advanced TRIZ tools: Forecasting, Resource Analysis, Flow Analysis

Archimedes Technology Group, Inc. (San Diego, USA)

Plasma Physicist

10.2005 – 04.2006

Consultant (part time)

09.2001 – 09.2005

Guided research and development efforts in the area of plasma processing and vaporization of materials:

- Developed a nanoparticle production technology by evaporation of micron sized precursors in an inductively coupled plasma torch
- Developed a method for vaporizing micro powders by a laser beam. Such method allows evaporation of refractory materials without significant gas throughput which is impossible to achieve by using plasma torches (developed method is patented)
- Lead conceptual and technical design and construction of a vacuum test facility
- Conducted live equipment tests, developed and maintained diagnostics, analyzed experimental data, presented findings for peer review

Applied Physics, Ltd. (Saint Petersburg, Russia)**Engineer****09.2004 - 09.2005**

Responsible for communications with international clients: Archimedes Technology Group, Inc. (San Diego, USA), Sifraco (Paris, France). Guided research in the waste treatment area:

- Developed a nebulizer for injection of slurry droplets into a plasma reactor at low pressure and atmospheric pressure
- Managed several international projects: report preparation, planning and executing activities of international working teams

Algorithm Technology Research Center (Saint Petersburg, Russia)

(Subsidiary of Gen3 Partners, Boston, USA)

Project Leader**09.2003 – 08.2004****Researcher****02.2003 – 09.2003**

Successfully performed 13 innovative consulting projects for corporate clients such as Chiquita, Clorox, Navistar and others. Worked as a Project Leader on 10 of them.

- Worked with corporate clients to identify technical problems and provide solutions using proprietary TRIZ methodology
- Lead conceptual design, technical design and construction of an industrial prototype of a machine for separating banana clusters into separate bananas (developed method is patented)
- Planned and executed activities of international teams of TRIZ experts, scientists and engineers

Saint Petersburg State Polytechnical University (Saint Petersburg, Russia)**Professor's assistant****09.2001 – 06.2003****Graduate Research Associate****04.1999 – 05.2002**

- Performed analytical studies of plasma reactor technology for powder treatment
- Developed novel radio frequency technology for plasma processing and spheroidization of micro powders
- Designed, constructed and operated plasma reactor prototypes for a commercial powder treatment process (Sifraco Co., France)
- Taught graduate-level classroom and laboratory courses in plasma applications. Courses: "Plasma-technology", "Electro-technology", "Low temperature plasma application"

EDUCATION**Ph.D.**, Applied Physics, 05.2002**St. Petersburg State Polytechnic University** (Saint Petersburg, Russia)

Thesis: "Development and investigation of radio frequency plasma torch and test bench for industrial waste treatment"

M.S., Applied Physics, 02.1999**St. Petersburg State Polytechnic University** (Saint Petersburg, Russia)

Thesis: "MgO powder spheroidization in low temperature plasmas"

TRIZ EDUCATION

Personal knowledge transfer sessions with TRIZ Masters: S.Litvin, S.Ikovenko, A.Lyubomirskiy, M.Rubin, N.Feygenson	2006 - Present
TRIZ seminars conducted by S.Litvin, A.Lyubomirskiy, S.Ikovenko, A.Kudryavtcev and others	2002 - 2006
TRIZ course at Saint Petersburg TRIZ University lectured by A.Kislov, N.Feygenson, O.Gerasimov and others (120 hours)	1998
TRIZ course at Komsomolsk-na-Amure State University, Russia (42 hours)	1996
Self-education by reading TRIZ books of G.Altshuller, G.Ivanov, B.Zlotin	1994
MATRIZ Conference in Petrozavodsk, Russia. Listened Genrich Altshuller as a key note speaker. Participated tutorials from TRIZ Masters: B.Zlotin, Z.Royzen, M.Rubin and others	1991

LIST OF PUBLICATIONS (fragment)

1. Oleg Feygenson, Maria Urusova. Function Approach for Resource Analysis. Proceedings of European Conference TRIZ-Future 2008 "Synthesis of Innovation". Enschede, The Netherlands. November 5-7, 2008
2. Ksenofontova Marina, Feygenson Oleg. Innovative improvement of consumer products. Proceedings of European Conference TRIZ-Future 2007. Frankfurt, Germany. November 6-8, 2007
3. Oleg Feygenson. Solving problem with Algorithm for Inventive Problem Solving (ARIZ) – 85. Evaporation of refractory ceramic rods with laser beam. Published at <http://www.metodolog.ru/01509/01509.html> 10.10.2008 (in Russian)
4. R.Khorenyan, O.Feygenson. About practical tools for evaluating main function parameters of a product. Proceedings of the International Conference TRIZ – Fest 2007, Moscow. Russia. July 9-11, 2007 (in Russian)
5. M. Ksenofontova, O.Feygenson. Choosing of technical parameters for synthesizing new consumer products. Proceedings of the International Conference TRIZ – Fest 2007, Moscow. Russia. July 9-11, 2007 (in Russian)
6. J. Amouroux, S. Dresvin, D. Morvan, O. Feigenson Calculation of silicon particles dynamics, heat and mass transfers in thermal plasmas. Effect of particles vaporization. / High Temperature Material Processes (An International Quarterly of High-Technology Plasma Processes) An International Journal, Vol. 7'2003
7. S. Dresvin, O. Feygenson, S. Zverev, J. Amouroux, Velocity and Temperature Evolution of Plasma Jet With the Increasing of SiO₂ Particles Concentration. / Proc. of the 15th International Symposium on Plasma Chemistry, Orlean, 2001, V. VI, P. 2539-2544.
8. S.G. Zverev, O.N. Feygenson Calculation of movement dynamic and heating of fine particles in RF plasma jet. 29 week of science SPSTU, Saint Petersburg, 2001, p. 91-93 (in Russian)
9. O.N. Feygenson, S.G. Zverev. Experimental research of spheroidization of SiO₂ powder in RF plasma. 29 week of science SPSTU, Saint Petersburg, 2001, p. 93-95 (in Russian)
10. Putvinski, S.; Agnew, A. F.; Cluggish, B. P.; Ohkawa, T.; Feygenson, O. N et al, Archimedes Mass Filter Vaporizer / American Physical Society, 43rd Annual Meeting of the

APS Division of Plasma Physics October 29 - November 2, 2001 Long Beach, California, abstract #KP1.053

11. Putvinski, S.; Agnew, S. F.; Chamberlain, F.; Freeman, R. L.; Meekins, M.; Feygenson, O.; Evaporation of Molten Salts by Plasma Torch / American Physical Society, 45th Annual Meeting of the Division of Plasma Physics, October 27-31, 2003, Albuquerque, New Mexico, MEETING ID: DPP03, abstract #LP1.113
12. O.N. Feygenson, S.G. Zverev, D.V. Ivanov, S.V. Dresvin. Development of plasma vaporizer for nuclear waste. Proc. of scientific and technical conference "Young scientists for industry of North-West", Saint Petersburg, 2002 (in Russian).
13. S.G. Zverev, O.N. Feygenson, S.V. Dresvin. Plasma plant for production of ultra fine spherical SiO₂ powders. 30 week of science SPSTU, Saint Petersburg, 2002, p. 47-48 (in Russian)
14. O.N. Feygenson, S.G. Zverev, D.V. Ivanov, S.V. Dresvin. Development of plasma vaporizer for chemical industry waste. 30 week of science SPSTU, Saint Petersburg, 2002, p. 51-52 (in Russian)
15. S.Litvin, N.Feygenson, O.Feygenson. Advanced Function Approach. Proceedings of European Conference TRIZ-Future 2010 (in press)

PATENT and APPLICATIONS

1. United States Patent Application 20070172601. System and method for vaporizing powders. Putvinski Sergei; Meekins Michael P.; Feygenson Oleg; Umstadter Karl R.; July 26, 2007
2. US 7,487,719. Method for Separating Banana Clusters into Separate Bananas. Fernandez Raul; Marquez Gonzalo; Bakhrakh Mark; Feigenson Oleg; Ilyin Ilya; Yaess Yuriy et al.
3. WO07005685A1. Method for Separating Banana Clusters into Separate Bananas. Fernandez Raul; Marquez Gonzalo; Bakhrakh Mark; Feigenson Oleg; Ilyin Ilya; Yaess Yuriy et al.

PERSONAL INFORMATION

Date of birth: April 16, 1976

Marital status: married

Children: a 8 years old daughter, a 3 months old son