

Rusnanotech 2011 program

- Plenary session of the IV International Nanotechnology Forum Rusnanotech 2011
- Innovative Programs of Major Industrial Companies
- Nanotechnology in Healthcare and Pharma
- Development of Hi-tech Technology in the Construction Industry
- Nanotechnology in Organic and Printed Electronics
- Nanotechnology in Engineering
- Rising Opportunities - Solar Russia 2011
- LED Industry: Russian Market Potential and Competitive Challenges
- Financial Instruments for Hi-tech Projects
- Nanocenters: Opportunities to Commercialize Scientific Research and Find Technological Solutions
- Conditions for the Development of Innovative Business in the Constituent Entities of the Russian Federation
- Cooperation with Compatriots Abroad: Problems and Opportunities
- Innovative Technology in Transportation Infrastructure
- Round Table «Silicon Microelectronics – a Basis for Innovation in Russia»
- Round table «Application of High-Tech Construction Materials in the Oil-and-Gas Industry»

Section: “Plenary session of the IV International Nanotechnology Forum Rusnanotech 2011”

Moderator: [Sergey Brilev](#) Deputy Director and Anchor TV Channel "Russia"

The first day, 26 October

🕒 10:00 – 13:00, [Grand Hall](#)

Plenary session of the IV International Nanotechnology Forum Rusnanotech 2011

- [Video](#) Dmitry Medvedev speech
- 10.30 – 10.40 **Opening of the Forum**
[Sergey Ivanov](#), Deputy Prime Minister of the Russian Federation
 - [Video](#)
- 10.40 – 12.40 **Topic of the plenary session: Demand for innovations**
[Anatoly Chubais](#), CEO, RUSNANO, Russia
[Viktor Vekselberg](#), President, Skolkovo Foundation, Russia
[Sergey Brilev](#), Deputy Director and Anchor, TV Channel "Russia"
[Mikhail Pogosyan](#), Chairman of the Board of Directors, Company "Sukhoi"
[Douglas Leone](#), Partner, Sequoia Capital
[Edward Crawley](#), President, Skolkovo Institute of Science and Technology Founding
 - [Video](#)
- 12.40 – 13.00 **Eric Drexler**
[Eric Drexler](#), American scientist and popularizer of nanotechnology
 - [Video](#)

Section: “Innovative Programs of Major Industrial Companies ”

Top managers from companies in the sector will provide market participants with a program for the introduction of innovative products and solutions in manufacturing processes.

The presentations will highlight opportunities for manufacturers of innovative products to participate in the implementation of innovative development programs at large enterprises.

The first day, 26 October

🕒 15:00 – 18:25, [Hall D](#)

Presentations

Moderator: [Kondrashov Alexander](#) Managing Director RUSNANO Russia

- 15.10 – 15.40 **“Transfer to High-Tech Development of Russian Corporations”**
[Dan Medovnikov](#), Deputy Director, Higher School of Economics, Russia
 - [Video](#)
- 15.40 – 16.00 **“Secure Intellectual City”**
[Igor Temirov](#), Deputy CEO, RTI-Technology, Russia
 - [Video](#)
- 16.00 – 16.25 **“Rostelecom 2011-2015: Contribution to the High-Tech Potential Development of the Country”**
[Aleksey Nashchekin](#), Vice President on Innovative Development, Rostelecom, Russia

- [Video](#)
- 16.25 – 16.40 **“Innovative Development Program until 2015 with the prospect of up to 2020”**
Andrey Kulakov, Head of the Direction, INTER RAO UES, Russia
- [Video](#)
- 16.40 – 17.00 **“Innovative Development Program of "Russian Railways" up to 2015 "**
Valentin Gapanovich, Senior Vice President, Russian Railways, Russia
- [Video](#)
- 17.00 – 17.20 **“Innovation Development of Russian Technologies State Corporation”**
Alexander Kashirin, Head of Department of Innovations and Strategic Development, Russian Technologies State Corporation, Russia
- 17.20 – 17.40 **“Business innovations: the Sources and Driving Force”**
Andrey Dubovskov, President, MTS, Russia
- [Video](#)
- 17.40 – 18.00 **“Innovative Development Program of “RusHydro”**
Oleg Kalinko , Head of Direction of Innovative Developmet, RusHydro, Russia
- [Video](#)
- 18.00 – 18.25 **“Innovative Development Program of FGC UES”**
Roman Berdnikov, Deputy Chairman of the Board, Federal Grid Company of Unified Energy System, Russia
- [Video](#)

Section: “Nanotechnology in Healthcare and Pharma”

Moderator: [Konstantin Skryabin](#) RAS Academician, Director Center «Bioengineering» RAS Russia
Moderator: [Olga Shpichko](#) Managing Director Investment Department (Medical Programs), «RUSNANO» Russia

The first day, 26 October

 15:00 – 18:00, Hall F

Plenary session «Pharma: Knowledge – Networking – Business»

Moderator: [Shulyak Sergey](#) CEO DSM Group Russia

- 15.00 – 15.30 **Welcoming speech**
[Marat Sakaev](#), Department director, Ministry of Health and Social Development, Russia
- 15.30 – 16.00 **«Pharma – 2020: launching stage results»**
[Viktor Dmitriev](#), General Director, Association of Russian pharmaceutical manufactures, Russia
- [Video](#)
- 16.00 – 16.30 **«A Decade on the Russian Market – a Story of Success»**
[Alexei Repik](#), Chairman Board of Directors, R-Farm, Russia
[Mikhail Samsonov](#), Medicine director, R-Farm , Russia
- [Video](#)
- 16.30 – 17.00 **«Innovations in Pharma: Strategy of Partnerships»**
[Nenad Pavletic](#), CEO, AstraZeneca Russia , Russia
- [Video](#)
- 17.00 – 17.30 **«Choosing a Strategy: 360° overview of top areas»**
[Dorman Followill](#), Partner and Director, VP Healthcare, Frost & Sullivan, USA

- [Video](#)

- 17.30 – 18.00 **«Venture investing in the life sciences: opportunities, trends and challenges»**

[Brian Dovey](#), Partner, Domain Associates, USA

- [Video](#)

The second day, 27 October

🕒 09:30 – 13:30, Congress center, 2nd floor (next to Hall H)

Open day for curious kids. Laboratory workshop «Kits for kids»

Workshop 1.

09:30-10:45 «DNA isolation: genes in the open»

Workshop 2.

11:00-12:15 «ELISA analysis to track spread of disease»

12:15-12:30 Coffee break

Workshop 3.

12:30-13:30 «Exclusion gel-chromatography».

🕒 10:00 – 13:45, Hall H

Open day for curious kids. Session: «XXI Century Medicine»

Moderator: [Shepelev Gennady](#) Director of the Department Targeted Federal Programs and Projects at the Ministry of Education and Science Russia

- 10.00 – 10.15 **Welcoming speech**

[Gennady Shepelev](#), Director of the Department, Targeted Federal Programs and Projects at the Ministry of Education and Science, Russia

[Elena Soboleva](#), Director of the Department on Educational Programs, RUSNANO, Russia

- [Video](#) (Shepelev)

- [Video](#) (Soboleva)

- 10.15 – 11.15 **«Genomics and cancer»**

[Yevgeniy Sverdlov](#), RAS Academic, Professor, Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, RAS, Russia

- [Video](#)

- 11.15 – 12.15 **«Ideal molecular carrier»**

[Konstantin Severinov](#), Laboratory Director, RAS Institute of Molecular Genetics, Professor, Rutgers University, USA

- [Video](#)

- 12.15 – 12.30 **Coffee Break**

- 13.15 – 14.15 **«Language and the brain: how we think and speak»**

[Sergei Shumskiy](#), Chairman of the Board, IQ'men, Russia

- [Video](#)

🕒 10:00 – 14:00, Hall A

Session «Regenerative medicine – stem cells», part 1

Moderator: [Enikolopov Grigori](#) Professor Cold Spring Harbor Laboratory USA

- 10.00 – 10.30 **«Cardio myocyte stem cells and heart regeneration»**

[Kenneth Chien](#), Professor, Massachusetts General Hospital/Harvard Medical School, USA

- 10.30 – 11.00 **«3D Visualization of Transplanted Stem Cell in Infarcted Rat Heart by High-Resolution X-ray Microtomography»**

Franco Rustichelli, Professor, Polytechnic University of Marche , Italy

• [Video](#)

- 11.00 – 11.45 **«Allogeneic Stem Cell Transplantation»**

Jonas Mattson, Professor, Karolinska University, Sweden
Michael Uhlin, Professor, Karolinska University, Sweden
Markus Maeurer, Professor, Karolinska University, Sweden

• [Video](#)

- 11.45 – 12.00 **Coffee Break**
- 12.00 – 12.30 **«MIMS for studying stem cells and tissue regeneration»**
Claude Leuchene, Professor, Harvard Medical School, USA

• [Video](#)

- 12.30 – 13.00 **«Adult neural stem cells»**
Grigori Enikolopov, Professor, Cold Spring Harbor Laboratory, USA
- 13.00 – 13.30 **«Hematopoietic stem cells»**
Alexander Belyavskiy, Professor, RAS Engelhardt Institute of Molecular Biology, Russia

• [Video](#)

- 13.30 – 14.00 **«Application of genetically reprogrammed stem cells in regenerative medicine»**
Sergey Kiselev, Professor, National Research Centre «Kurchatov Institute», Russia

 10:00 – 13:50, Hall F

Session «Nanotechnology Systems to Transform Pharmaceutical Development», part 1

Moderator: [Hoffman Robert](#) President AntiCancer USA

- 10.00 – 10.55 **Key report: «Polymeric Nanoparticles: On the Verge of a Medical Revolution»**
Omid Farokhzad, Professor, Director of the Laboratory, Harvard Medical School, USA

• [Video](#)

- 10.55 – 11.45 **«Targeted therapeutic nanoparticles: From discovery to 1st in human clinical trials»**
Scott Minick, President and CEO, BIND Biosciences, USA
- 11.40 – 12.00 **Coffee Break**
- 12.00 – 12.50 **Key report: «Novel visual drug targets imaged at the sub-cellular level in living animals»**
Robert Hoffman, President, AntiCancer, USA


• [Video](#)

- 12.50 – 13.10 **«REG1: A Groundbreaking Anticoagulant System for Acute Care Cardiovascular Interventions»**
David Mazzo, President and CEO, Regado Biosciences, USA

• [Video](#)

- 13.10 – 13.30 **Building a Differentiated Biotech Company In the Current Environment**
Peter Kash, President, Two Rivers Group, USA
- 13.30 – 13.50 **«Nanotargeting for Wound Healing and Inflammation»**
Bradford Duft, President and CEO, CoDa Therapeutics, USA

• [Video](#)

 13:45 - 15:00 **Lunch**

 15:00 – 17:00, Hall A

Session «Regenerative medicine – stem cells», part 2

Moderator: [Enikolopov Grigori](#) Professor Cold Spring Harbor Laboratory USA

- 15.00 – 15.30 **Stem cells and tissue equivalents as the basis for a new bioengineering**
[Ekaterina Vorotelyak](#), RAS Koltzov Institute of developmental biology, Russia
 - [Video](#)
- 15.30 – 16.00 **«Limbal stem cell therapy and corneal regeneration»**
[Michele de Luca](#), Professor, University of Modena and Reggio Emilia, Italy
 - [Video](#)
- 16.00 – 16.45 **Round table discussion: «Accomplishments, roadblocks, and challenges on the path to stem cell-based therapy»**
[Grigori Enikolopov](#), Professor, Cold Spring Harbor Laboratory, USA
 - [Video](#)
- 16.45 – 17.00 **Coffee Break**

 15:00 – 17:30, Hall D

Round Table discussion «Key aspects of running clinical trials in Russia»

Moderator: [Selivra Eugene](#) CEO Global Clinical Trials USA

- [Video](#)
- 15.00 – 15.10 **Welcome note**
[Eugene Selivra](#), CEO, Global Clinical Trials, USA
- 15.10 – 15.30 **«What is Clinical Trials? World view and regional differences»**
[Eugene Selivra](#), CEO, Global Clinical Trials, USA
 - [Video](#)
- 15.30 – 15.50 **«Clinical Trials in Russia: speed, cost, quality»**
[Igor Stephanov](#), CEO, Synergy Research Group, Russia
 - [Video](#)
- 15.50 – 16.10 **«Clinical Trials in Russia as a part of drug registration process»**
[Elena Kabaeva](#), Chief Medical Officer, Raifarm, Russia
 - [Video](#)
- 16.10 – 16.30 **«An Outside Look at Clinical Trials in Russia»**
[Edward Schnipper](#), Chief Medical Officer, BIND Biosciences, USA
 - [Video](#)
- 16.30 – 17.30 **Round-table discussions with Q&A audience involvement**

 15:00 – 18:35, Hall F

Session «Nanotechnology Systems to Transform Pharmaceutical Development», part 2

Moderator: [Petrov Ram](#) RAS and RAMS academician, Head of department M.M. Shemyakin and Yu.A. Ovchinnikov Institute of bioorganic chemistry of the RAS Russia

Moderator: [Narodickiy Boris](#) Deputy director Gamaleya RSI of Epidemiology and Microbiology Russia

- 15.00 – 15.20 **«A Novel Treatment for Macular Degeneration»**
[Ben Bronstein](#), CEO, Neuron Systems, USA
 - [Video](#)

- 15.20 – 15.40 **«Clinical Advances in the Application of Epigenetic Therapy to Target Resistance Pathways in Solid Tumors»**

Peter Ordentlich, Executive Director, Syndax Pharmaceuticals, USA

- [Video](#)

- 15.40 – 16.00 **«Novel Nano-scale Delivery Systems for Fixed-Ratio Drug Combinations: from Promising Research to Improved Clinical Outcomes»**

Lawrence Mayer, Founder, President & Head of Research, Celator Pharmaceuticals, USA

- [Video](#)

- 16.00 – 16.20 **«Synbio» project»**

Petr Kruglyakov, Research and development director, Human Stem Cells Institute, Russia

- [Video](#)

- 16.20 – 16.40 **«Sonexa Therapeutics: Meeting the Challenge of Alzheimer's Disease»**

Eckard Weber, CEO, Sonexa Therapeutics, USA

- 16.40 – 16.55 **Coffee Break**

- 16.55 – 17.25 **«NTpharma: novel nanotechnologies for vaccine development»**

Maxim Shmarov, Head of research group, NTpharma, Russia

- [Video](#)

- 17.25 – 17.55 **«Tumor-specific gene vectors for gene therapy and molecular genetic imaging of cancer»**

Victor Krasnykh, Anderson Cancer Center, University of Texas, USA

- [Video](#)

- 17.55 – 18.15 **«Novel Nanoparticle Stabilizers: Resurrecting the Development of Insoluble Pharmaceutical Drugs»**

Ken Shaw, Senior R&D Vice-president, Marinus Pharmaceuticals, USA

- [Video](#)

- 18.15 – 18.35 **«Investigation of Si nanoparticles antiviral properties»**

Mussa Khaitov, Head of Laboratory, Immunology Institute of Federal medical and biological Agency, Russia

- [Video](#)

 17:00 – 18:30, Hall A

Session «Nanotechnologies – breakthrough in genomics»

Moderator: Skryabin Konstantin RAS Academician, Director Center «Bioengineering» RAS Russia

Moderator: Prokhorchuk Egor Head of department Center «Bioengineering» RAS Russia

- 17.00 – 17.30 **«Semiconductor Sequencing with Microspheres»**

Armin Winands, R&D Director, DNA Electronics, USA

- 17.30 – 18.00 **«Advanced Genomic Solutions»**

Stevan Jovanovich, CEO, IntegenX, USA

- [Video](#)

- 18.00 – 18.30 **Roche 454 Sequencing Advances into Personalized Healthcare and the Next Next-Generation Sequencing**

William La Rochelle, Head of Healthcare Business Development, Roche 454 Life Sciences, USA

- [Video](#)

 17:30 – 19:40, Hall D

Seminar «Analytic workshop: databases and intelligence tools for pharmaceutical companies and investors»

Moderator: Borisenko Grigory Associate Investment Department (Medicine Programs) «RUSNANO» Russia

- 17.30 – 17.40 **Welcome note**

Grigory Borisenko, Associate, Investment Department (Medicine Programs) «RUSNANO», Russia

- 17.40 – 19.40 **«Consistent Decision Support For Both Research and Business Professionals»**

Gavin Coney, Director of Strategic Markets, Thomson Reuters, USA

Julia Dray, Territory Manager, IP & Science, Thomson Reuters, USA

This presentation will look at the key trends and decision support tools available within the global pharmaceutical industry R&D and investment communities that can help to accelerate early stage drug discovery, to reduce business risk and maximise investment potential.

Section: “Development of Hi-tech Technology in the Construction Industry”

More and more companies, when faced with a need for capital construction, search for effective innovative solutions to reduce construction and operating costs for buildings.

In response to demands from consumers, materials with unique properties are already entering the market. For example, composite armour, low-e glass, non-flammable thermal and sound insulation materials, membrane systems for water and air purification, LED lighting and many others.

Consequently, the complexity of the challenges facing construction companies increases annually, and today, in order to comply with the high technological and safety standards that modern society and business demands from its buildings, construction companies must use innovative building materials.

What can generate interest among building owners to widely use innovative building materials in construction and engineering infrastructure? What innovative building materials are already on the market? Where to find highly qualified personnel to design and build modern, technologically advanced facilities? How to overcome administrative barriers to the use of new materials in large-scale construction?

The section program includes:

- Presentation and discussion of results of branch-scale technological research "On development of nanotechnologies in construction branch"
- Open discussion of topics of most urgent relevance the branch community is concerned about.
- "Stories of Success": experience in application of high-tech construction materials during new construction and capital repair.
- Presentation of companies manufacturing nanotechnological construction products.

Moderator: **Leonid Kazinets** Chairman of the Board Barkley Russia

The first day, 26 October

🕒 15:00 – 15:05, **Hall B**

Welcoming speech

Leonid Kazinets, Chairman of the Board, Barkley, Russia

🕒 15:05 – 15:25, **Hall B**

Nanotechnology in the Russian Market of Construction Materials

Alexander Jorov, Project Director, Booz &Co, USA

- [Video](#)

🕒 15:25 – 16:55, **Hall B**

Panel discussion «Developing Nanotechnology in Construction»

Dmitry Shapoval, Director, Department of Architecture, Building and Urban Policy, Russia

Peter Bartos, Professor, Queen's University Belfast, United Kingdom

Alex de Valukhoff, General Director, Lafarge Cement, Russia

Vladimir Yakovlev, President, The Russian Union of Builders, Russia

Dmitriy Sulin, Chairman of the Board, STIS, Russia

Sergey Vetlov, General Director, BASF Construction Chemicals, Russia

Alexander Mondrus, Chief Executive Officer, MC Bauchemie, Russia

Larisa Barinova, Chairman, Technical Committee on Standardization 465 "Construction", Russia

- [Video](#)

🕒 16:55 – 17:10, **Hall B**

Coffee break

🕒 17:10 – 18:30, Hall B

Presentations «Experience of Using Innovative Construction Materials»

- 17.10 – 17.35 **«RUSNANO activity in the construction industry»**
Dmitriy Lisenkov, Managing Director, RUSNANO, Russia
 - [Video](#)
- 17.35 – 17.50 **Problems of Waterproofing. Experience in Dealing with Application of High-Tech Materials Dorflex and Rauflex**
Dmitry Rautkin, Technical Director, Innovative Technology, Russia
 - [Video](#)
- 17.50 – 18.10 **Application of high-tech materials in construction of residential buildings**
Ivan Turkin, CEO, NABAD Design, Russia
 - [Video](#)
- 18.10 – 18.30 **«Using High-Tech Materials and Equipment in the Construction of Low-Rise Buildings – Test Case: Ekodole Project in Orenburg Region»**
Valeriy Kazeykin, Vice-President, NAMIX, Russia
 - [Video](#)

🕒 18:30 – 19:25, Hall B

Presentations «Developing Nanotechnology in Some Types of Construction Materials»

- 18.30 – 18.50 **«Use of innovative automated fire extinguishers during construction and reconstruction of facilities»**
Andrey Mitin, Trade Department Director, PiroKhimika Trade House, Russia
 - [Video](#)
- 18.50 – 19.05 **«Galen nanostructured composite materials»**
Valeriy Nikolaev, General Director, Galen, Russia
 - [Video](#)
- 19.05 – 19.25 **«Use of nano-modified PET fibers»**
Alexander Bykov, General Director, Vladpolitex, Russia
 - [Video](#)

Section: “Nanotechnology in Organic and Printed Electronics”

Creation of new technologies in the field of organic and printed electronics creates new horizons for development of electronic devices. These are flexible displays that can replace paper, cheap materials for production of light diodes, solar panels, chip RFID tags replacing ordinary bar codes which store information about shelf life and producer. Can Russia become the leader of the emerging industry? When the market will see the new devices? What opportunities are created by the new technology for the mass consumer?

The program of the section includes:

- Presentation of new technologies and key materials, used in organic electronics
- Discussion of new functional opportunities and promising devices on the basis of printed electronics. Perspective markets
- Presentations of specialists in the field of venture financing and legal advisors, specializing on intellectual property protection
- Discussion about the future of nanotechnologies in consumer electronics

The second day, 27 October

🕒 10:00 – 11:45, Hall E

Organic&Printed electronics: to business...

Moderator: [Kirchmeyer Stephan](#) Head of Production and Technology Heraeus Clevios GmbH Germany

- 10.00 – 10.20 **Organic and printed electronics: Status, Opportunities and Challenges**

[Stephan Kirchmeyer](#), Head of Production and Technology, Heraeus Clevis GmbH, Germany

- [Video](#)

- 10.20 – 10.40 **Opportunities in low cost, high-volume electronics**

[Heinz Kundert](#), Vice-President, SEMI International

- [Video](#)

- 10.40 – 11.00 **Organic flexible displays**

[Peter Fischer](#), Plastic Logic, Germany

- [Video](#)

- 11.00 – 11.15 **Things Alive. Applying printed electronics and other sensing technologies to create interactive product solutions and experiences**

[Jani-Mikael Kuusisto](#), Chief Business Development Officer, Ynvisible, Portugal

- [Video](#)

- 11.15 – 11.30 **Thin Film fully printed rewritable memory**

[Davor Sutija](#), CEO, Thin Film Electronics, Norway

- [Video](#)

- 11.30 – 11.45 **Scale up process for printed electronics**

[Thomas Kolbusch](#), Vice President, Coatema Coating Machinery, Germany

- [Video](#)

- 11.45 – 12.00 **Coffee break**

 12:00 – 13:20, Hall E

Organic&Printed Electronics:..from science

- 12.00 – 12.20 **R&D in organic and printed electronics: results of Russian research centers**

[Michael Alfimov](#), Director, Photochemistry Center, Russia

[Vladimir Razumov](#), Professor, RAS corresponding member; Deputy Director, Institute of chemical physics problems of the RAS, Russia

- [Video \(Alfimov\)](#)

- 12.20 – 12.20 **Liquid crystal e-paper**

[Vladimir Chigrinov](#), Professor, Hong Kong University of Science and Technology, China

- [Video](#)

- 12.40 – 13.00 **Organic photovoltaics; Research through Manufacturing**

[James Buntaine](#), Executive Vice president, Konarka Technologies, USA

- [Video](#)

- 13.00 – 13.20 **Flexible and printed electronics: Building an ecosystem for commercial success**

[Janos Veres](#), Manager, Parc, USA

- [Video](#)

 13:20 – 13:45, Hall E


New types of electronics: opportunities for investors

Moderator: [Kirchmeyer Stephan](#) Head of Production and Technology Heraeus Clevis GmbH Germany

- 13.20 – 13.45 **Legal aspects of deal support in the field of new types of electronics. Case analysis**

Maria Baeva, Hogan Lovells, Russia
Ksenia Andreeva, lawyer, Hogan Lovells, Russia

- [Video](#) (Andreeva)
- [Video](#) (Baeva)

 13:45 - 15:00 **Lunch**

 15:00 – 16:30, **Hall E**

New types of electronics: opportunities for investors

Stephan Kirchmeyer, Head of Production and Technology, Heraeus Clevios GmbH, Germany

- 15.00 – 15.20 **Venture investing and Nanotechnologies**

Pavel Bogdanov, Partner, Almaz Capital Partners, Russia

- [Video](#)

- 15.20 – 15.40 **New applications of electronics for energy efficiency**

Alexey Belyakov, Partner, I2BF, Russia
Ilya Golubovich, Partner, I2BF, Russia

- 15.40 – 16.00 **Virtual and real world: new opportunities**

Oleg Kurchin, BoD member, Troika Ventures, Russia

- [Video](#)

- 16.00 – 16.30 **RUSNANO approach to investments in new types of electronics**

Georgy Kolpachev, Managing Director, RUSNANO, Russia

- [Video](#)

Section: “Nanotechnology in Engineering”

Nanotechnology not only occupies a significant niche in the machine building industry, but is also emerging as one of the driving forces in ensuring the competitive strength of the Russian machine building industry on the international market.

This section will include the results of RUSNANO JSC’s research on the industry, which was conducted in order to identify innovative machine building technologies that are attractive to investors. The world leaders in the industry will present the best examples of international efforts to develop and produce innovative machine building products. The participants in this section will discuss approaches to building a friendly macroenvironment for the development of innovative machine building technologies.

Moderator: [Vladislav Putilin](#) Chairman of the Board of Directors RUSNANO Russia

The second day, 27 October

 15:00 – 15:10, **Hall H**

«Introductory Remarks by the Moderator of the Section»

Vladislav Putilin, Chairman of the Board of Directors, RUSNANO, Russia

 15:10 – 15:25, **Hall H**

«Nanomaterials and nanotechnologies in aircraft industry»

Evgeny Kablov, General Director, Federal Unitary of VIAM State Science Center of the Russian Federation, Russia

- [Video](#)

 15:25 – 16:00, **Hall H**

“Business Oriented Trends in the Development of Nanotechnology in Machine Building”

- 15.25 – 15.40 «**The results of RUSNANO JSC’s research on the industry, which was conducted in order to identify innovative machine building technologies that are attractive to investors**»

Alexander Jorov, Project Director, Booz &Co, USA

- 15.40 – 16.00 **Panel Discussion: Topic: “The Development of Nanotechnology in Machine Building”**

Alexei Dub, General Director, State Science Center of the Russian Federation, JSC, Scientific Development and Production Center “Cniitmash”, Russia

Sergei Nedroslev, Chairman of the Board of Directors, Kaskol Llc. Mangement Company, Russia

Natalia Orlova, Director of Strategic Planning, United Machine Building Factories, Russia

Sergei Fiveiskiy, Managing Director, Kirov Factory, Russia

🕒 16:00 – 18:30, Hall H

“The Application of Nanotechnology in Machine Building: offerings, development, demand”

- 16.15 – 16.30 **“Nanotechnology- from the automobile industry to mass consumption”**

Dr. Matthias Muller, Corporate Sector Research and Advance Engineering, Applied Research 1, Advanced Functional Materials and Microsystems, Robert Bosch GmbH, Germany

- [Video](#)

- 16.30 – 16.45 **RUSNANO&KAMAZ: partnership for innovation development**

Irek Gumerov, Deputy General Director of Kamaz JSC, Director of Development, Kamaz JSC, Russia

- [Video](#)

- 16.45 – 17.00 **Coffee Break**

- 17.00 – 17.20 **“Nanostructures for Reducing Gas Emissions, the Energy and Transportation of the Future”**

Deniz Yigit, Materials Manufacturing and Processing WPC & Zentallium®, Germany

- [Video](#)

- 17.40 – 18.00 **Nanotechnology Solutions for the Modernization of Traditioanl Branches of Industry and the Public Sector of Finland**

Dr. Mika Koskenvuori, Program Director, Helsinki Nanotechnology Center, Finland

- [Video](#)

- 18.00 – 18.30 **“Examples of Successful Innovative Solutions in Russian Machine Building, (Russia)”**

Konstantin Dmitrievich Demetriu, Managing Director, RUSNANO, Russia

Representative, Virial Company

Alexander Zaitsev, ECM, Russia

Efim Pikov, Microbor-Nanotech, Russia

Vladimir Kutergin, General Director, NPC Springs, Russia

Danil Chelapkin, General Director, Ecto-Vaccum, Russia

- [Video \(Shavryn\)](#)
- [Video\(Demetriu\)](#)
- [Video\(Zaitsev\)](#)
- [Video\(Pikov\)](#)
- [Video\(Rumyantsev\)](#)

🕒 18:30 – 19:00, Hall H

III. Partnership between science, education and business as the basis for the creation of innovative machine-building enterprises

- 18.30 – 18.45 **Stimulating sector innovation through the effective coordination of science, education and business using the experience of Moscow State Technical University (MSTU) STANKIN as a test case**

Marina Alexandrovna Volosova, Vice-Rector for Science, FGBOU VPO MSTU STANKIN, Russia

- [Video](#)

- 18.45 – 19.00 **Wrap-up**

Section: "Rising Opportunities - Solar Russia 2011"

The second day, 27 October

🕒 10:00 – 10:15, Hall C

Introduction to the Conference

- 10.00 – 10.10 **Welcome by the Chairman of the High Level Committee**

[Zhores Alferov](#), , Nobel Prize Laureate, IOFFE , Physico-Technical Institute St. Petersburg, Russia

- [Video](#)

- 10.10 – 10.15 **Introduction of the Conference's problematic**

[Tomasz Slusarz](#), CEO of Solar PV Consulting, Belgium

- [Video](#)

🕒 10:15 – 11:45, Hall C

Session 1: International Market and Policy Session

Moderator: [Schaefer Olivier](#) Policy Director at Sunpower, Chairman of Policy Working Group of EPIA (European Photovoltaic Industry Association) former Policy Director at EREC (European Renewable Energy Council)

- 10.15 – 10.30 **Solar PV markets and industry today and tomorrow - Global Vision**

[Daniela Schreiber](#), Director, EuPD Research, Germany

- [Video](#)

- 10.30 – 10.45 **PV Observatory recommendations for sustainable support scheme and introduction to the EPIA IRR and FiT design model**

[Oliver Schaefer](#), Policy director at Sunpower, Chairman of Policy Working Group EPIA

- [Video](#)

- 10.45 – 11.00 **Support scheme as a tool for building a sustainable market. Experience of the Italian market.**

[Paolo Rocco Viscontini](#), President, Enerpoint, Italy

- [Video](#)

- 11.00 – 11.15 **Experience of Bulgaria. How can Bulgarian and Russian companies cooperate in the solar business?**

[Nikola Gazdov](#), Chairman, BPVA, Bulgaria

- [Video](#)

- 11.15 – 11.30 **Experience of Ukraine**

[Vitaliy Daviy](#), President , Association of alternative fuel and energy market participants of Ukraine (APEU), Ukraine

- 11.30 – 11.45 **Towards a Mediterranean Solar Plan. Market perspectives in the Sunbelt countries.**

[Emanuela Menichetti](#), Senior Analyst, Expert on Renewable Energies, Observatoire Méditerranéen de l'Energie (OME), France

- [Video](#)

🕒 11:45 – 12:00,

Coffee Break

🕒 12:00 – 13:55, Hall C

Session 2: Russian Session: «Building sustainable solar PV market in the country, competitiveness of the Russian industry.»

Moderator: [Usachev Anton](#) Coordinator PV RUSSIA (Russian Solar Energy Association)

- 12.00 – 12.10 **Introduction to the Russian Session**

[Andrei Zabrodsky](#), Director of IOFFE Physico-Technical Institute St. Peterburg, Russia

- [Video](#)

- 12.10 – 12.40 **Russia and its solar PV market perspectives. Shaping of the new Renewable Energy Law in the country.**

[Oleg Shutkin](#), Deputy CEO, Hevel Solar

- 12.40 – 13.00 **Status and perspectives of R&D in Solar PV Russia**

[Andrei Zabrodsky](#), Director of IOFFE Physico-Technical Institute St. Peterburg, Russia

- 13.00 – 13.15 **Recommendations for the Russian Market from the Industry Perspective. Contributing to the country market.**

[Enrico Carniato](#), Europe Sales Director at Upsolar, Italy

- [Video](#)

- 13.15 – 13.55 **Executive Panel discussion: «How to build a sustainable market and industry in Russia?»**

[Vitaliy Daviy](#), President, Association of alternative fuel and energy market participants of Ukraine (APEU), Ukraine

[Enrico Carniato](#), Europe Sales Director at Upsolar, Italy

[Olivier Schaefer](#), Policy Director at Sunpower, Chairman of Policy Working Group of EPIA (European Photovoltaic Industry Association), former Policy Director at EREC (European Renewable Energy Council)

[Daniela Schreiber](#), Director, EuPD Research, Germany

[Paolo Rocco Viscontini](#), President, Enerpoint, Italy


[Nikola Gazdov](#), Chairman, BPVA, Bulgaria

[Ivan Egorov](#), CEO, AEnergy, PV Russia (Russian Solar Energy Association), Russia

[Andrei Zabrodsky](#), Director of IOFFE Physico-Technical Institute St. Peterburg, Russia

[Oleg Shutkin](#), Deputy CEO, Hevel Solar

- [Video](#)

 13:45 - 15:00 **Lunch**

 15:00 – 16:40, Hall C

Session 3: Investor and financial session: Investing in solar PV technology

Moderator: [Chernishev Anton](#) IFC, International Finance Corporation, a member of World Bank Group

- [Video](#)

- 15.00 – 15.15 **Analysis of opportunities and perspectives for investing in solar PV technology within the value chain. Financing new business models in solar PV.**

[Guido Agostinelli](#), Managing Partner (Former Senior Associate at Good Energies), Syntegra Solar, Switzerland

- [Video](#)

- 15.15 – 15.30 **Financing structures in the solar PV market. Experience of major financial actor in financing of downstream solar PV projects in Europe.**

[Simona Apostol-Siegl](#), Global Key Account Manager, Unicredit Leasing, Austria

- [Video](#)

- 15.45 – 16.00 **Fjord perspective on solar: challenging mainstream vs. opportunities in value chain**

[Ivan Zyuzin](#), Portfolio Manager, Fjord Capital Partners, UK

- [Video](#)

- 16.00 – 16.15 **Investing in innovation**

[Yaroslav Kuznetsov](#), CEO, NAVI Capital Management a member of the Renova Group

- [Video](#)

- 16.15 – 16.40 **Panel discussion: «Opportunities for investing in solar PV technology. Is solar PV a good investment and why? Which investments within the value chain will have the biggest ROI rate in the future?»**

[Sergey Polikarpov](#), Managing Director, RUSNANO

[Simona Apostol-Siegl](#), Global Key Account Manager, Unicredit Leasing, Austria
[Guido Agostinelli](#), Managing Partner (Former Senior Associate at Good Energies), Syntegra Solar, Switzerland
[Anton Chernishev](#), IFC, International Finance Corporation, a member of World Bank Group
[Yaroslav Kuznetsov](#), CEO, NAVI Capital Management a member of the Renova Group
[Tomasz Slusarz](#), CEO of Solar PV Consulting, Belgium
[Ivan Zyuzin](#), Portfolio Manager, Fjord Capital Partners, UK
[Steven Levecke](#), Investment manager, Capricorn Venture Partners, Belgium
[Krasen Karamanov](#), Director, Solar PV Invest, Bulgaria

- [Video](#)

🕒 16:45 – 17:00,

Coffee Break

🕒 17:00 – 19:00, Hall C

Session 4: Innovation and technology session: The power of technology roadmaps and alliances

Moderator: [Kundert Heinz](#) Vice-President SEMI International

- 17.00 – 17.10 [RUSNANO Solar Innovation Award 2011 Ceremony](#)

- [Video](#)

- 17.10 – 17.30 [Technology Roadmap and alliances](#)

[Heinz Kundert](#), Vice-President, SEMI International

- [Video](#)

- 17.30 – 17.45 [Technology and innovation outlook for crystalline cells/ modules](#)

[Alexandr Lebedev](#), CEO, Swiss Wafers, Switzerland

- [Video](#)

- 17.45 – 18.00 [Technology and innovation outlook for thin film](#)

[Dirk Sinerius](#), Dr. Senior Manager, Head of Sales Northern Europe and Russia, Oerlikon, Switzerland

- [Video](#)

- 18.00 – 18.15 [Technology and innovation outlook for "Nouvel technologies"](#)

[Frank Schaefer](#), Sales director, New Products

- [Video](#)

- 18.15 – 18.30 [Technology and innovation outlook for CPV](#)

[Viacheslav Andreev](#), Prof., Head of Photovoltaics Laboratory, IOFFE Physico-Technical Institute

- [Video](#)

- 18.30 – 19.00 [Panel discussion: Technology and innovation as drivers for efficiency increase and cost reduction](#)

[James Buntaine](#), Executive Vice president, Konarka Technologies, USA
[Viacheslav Andreev](#), Prof., Head of Photovoltaics Laboratory, IOFFE Physico-Technical Institute
[Konstantin Tuzovskiy](#), CEO, Quinttech, Russia
[Robert de Francieu](#), C.Y.Ma, CEO, Solar Applied Materials Technology Corp, Apollon Solar,, France
[Helmut Frankenberger](#), CEO, Oerlikon Solar
[Winner of RUSNANO's Solar Innovation Award](#)
[Alexandr Lebedev](#), CEO, Swiss Wafers, Switzerland
[Ralf Leutz](#), CEO, Concentrator optics, Germany
[Arkady Pickman](#), General manager, LLC Innovation Company Accept Technologies
[Hein van der Zeeuw](#), Chief Executive Officer, ODERSUN AG, Germany

- [Video](#)

- 19.00 – 19.00 [Summary of the conference by the Chairman](#)

[Heinz Kundert](#), Vice-President, SEMI International

Section: “Nanoelectronics and Nanophotonics”

Within the framework of the section will pass four sessions devoted to the advanced researches and studies in the field of nanoelectronics, optoelectronics, nanophotonics, quantum nanostructures, MEMS&NEMS technology, organic and polymer based devices. Leading world experts will discuss latest achievements in these areas and their application in innovational industry. Experts of «Silicon Valley», large transnational innovative companies and leading Russian researchers will share their research experience. Reports will be delivered by 20 recognized leaders in the field from eight countries; also, a poster session will be held.

Co-chairmen:

- **Alexander Aseev**, Professor, RAS member; Director, A.V. Rzhanov Institute of Semiconductor Physics Siberian Department of Russian Academy of Science (Russia);
- **Alexander Orlikovsky**, Professor, RAS member; Director, Physics and Technologies Institute RAS (Russia);
- **Sergey Bagaev, Professor**, RAS member; Director, Institute of Laser Physics RAS (Russia);
- **Anatoliy Dvurechenskii**, Professor, RAS corresponding member; Deputy Director, A.V. Rzhanov Institute of Semiconductor Physics Siberian Department of Russian Academy of Science (Russia);
- **Vladimir Razumov**, Professor, RAS corresponding member; Deputy Director, Institute of Chemical Physics Problems RAS (Russia);
- **Yu Jinzhong**, Professor Semiconductor Institute of Chinese Science Academy (China).

The first day, 26 October

🕒 15:00 – 18:30, Hall J

Section 1 «Nanoelectronics, quantum nanostructures»

Moderator: **Dvurechenskiy Anatoliy** Professor, RAS corresponding member; Deputy Director A.V. Rzhanov Institute of Semiconductor Physics Siberian Department of Russian Academy of Science Russia

- 15.00 – 15.30 **“Silicon Economics: View from Silicon Valley - last 10 years and beyond”**

Viktor Boksha, Managing Director, BG Partners, USA

• [Video](#)

- 15.30 – 16.00 **“SOI based waveguide devices”**

Yu Jinzhong, Professor, Semiconductor Institute of Chinese Science Academy, China

• [Video](#)

- 16.00 – 16.30 **“Selectable Multi Band UV- IR sensing with Nanostructures”**

Perera Unil, Professor, Georgia State University, USA

• [Video](#)

- 16.45 – 17.00 **Coffee break**

- 17.00 – 17.30 **“Ultra Low Dielectric Constant Materials for 22 nm Technology Node and Beyond”**

Mikhail Baklanov, Principal Researcher, Interuniversity Microelectronics Center (IMEC), Belgium

• [Video](#)

- 17.30 – 18.00 **“IBM SiGe Solutions for the broad THz range”**

David Bernstein, Program Manager of CEE Collaboration, IBM Haifa Research Lab, Israel

• [Video](#)

- 18.00 – 18.30 **“Sensors and filters on silicon based nano- and microchannel membranes for biomedical technologies”**

Sergey Romanov, Senior Associate, A.V. Rzhanov Institute of Semiconductor Physics Siberian Department of Russian Academy of Science, Russia

• [Video](#)

The second day, 27 October

🕒 10:00 – 13:00, Hall J

Section 2 «Optoelectronics and nanophotonics»

- 10.00 – 10.30 **“Silicon Photonics”**

[Wim Bogaerts](#), Professor, Interuniversity Microelectronics Center (IMEC) – Ghent University, Belgium

- [Video](#)

- 10.30 – 11.00 **“Organic emitted devices with colloidal quantum dots”**

[Aleksy Vitukhnovsky](#), Professor, Head of the Department of Luminescence, Lebedev Physical Institute RAS , Russia

- [Video](#)

- 11.00 – 11.30 **“Photonic structures as optical nanoantennas”**

[Sergey Tikhodeev](#), Professor, Prokhorov Institute of General Physics RAS , Russia

- [Video](#)

- 11.45 – 12.00 **Coffee break**

- 12.00 – 12.30 **“New methods of highly efficient controlled generation of radiation by liquid crystal nanostructures in a wide spectral range including the THz one”**


[Sergey Trashkeev](#), Professor, Senior Associate, Institute of Laser Physics SB RAS , Russia

- [Video](#)

- 12.30 – 13.00 **“Single-molecule spectromicroscopy: tool for nanodiagnostics of solids”**

[Andrey Naumov](#), Deputy Director and Head of the Department of Molecular Spectroscopy, Institute of Spectroscopy RAS, Russia

- [Video](#)

 13:45 - 15:00 **Lunch**

 15:00 – 18:00, Hall J

Section 3 «New devices and facilities in nanoelectronics and nanophotonics»

Moderator: [Orlikovsky Alexander](#) Professor, RAS member; Director Physics and Technologies Institute of the RAS Russia

- 15.00 – 15.30 **“NEMS for sensing the world”**

[Jean-Philippe Polizzi](#), Professor, Microsystems Program Manager, CEA-LETI/DIHS, France

- [Video](#)

- 15.30 – 16.00 **“Development of emerging non-volatile memories and NVM technology transfer to production Fabs”**

[Yakov Roizin](#), Professor, Director, TowerJazz, Israel

- [Video](#)

- 16.00 – 16.30 **“Nanotransistors with ultrathin silicon and graphene channels”**

[Vladimir Viurkov](#), Senior Associate, Physics and Technologies Institute RAS, Russia

- [Video](#)

- 16.45 – 17.00 **Coffee break**

- 17.00 – 17.30 **“Tunnel resonance devices and super high-speed IS on their base”**

[Alexander Gorbatceвич](#), Professor, Main Researcher, Lebedev Physical Institute RAS, Russia

- [Video](#)

- 17.30 – 18.00 **“Heteroepitaxial structures CdHgTe on GaAs and Si substrate for IR and terahertz detectors”**

[Maxim Yakushev](#), Senior Associate, A.V. Rzhzanov Institute of Semiconductor Physics Siberian Department of Russian Academy of Science, Russia

- [Video](#)

The third day, 28 October

🕒 10:00 – 12:40, Hall J

Section 4 «New materials and technologies in electronics and photonics, including organic and polymeric materials»

Moderator: [Razumov Vladimir](#) Professor, RAS corresponding member; Deputy Director Institute of chemical physics problems of the RAS Russia

- 10.00 – 10.30 **“New trends and problems of organic light-emitting diodes (OLEDs)”**

[Karl Leo](#), Professor, Institute of Applied PhotoPhysics, Dresden, Germany

- [Video](#)

- 10.30 – 11.00 **“Polytronics of wideband materials”**

[Aleksy Lachinov](#), Professor, Laboratory Chief, Institute of Molecule and Crystal Physics of Ufa Scientific Centre RAS, Russia

- [Video](#)

- 11.00 – 11.30 **“New strategies in the material design for organic solar cells and field effect transistors”**

[Pavel Troshin](#), Professor, Institute of Chemical Physics RAS, Russia

- [Video](#)

- 11.45 – 12.00 **Coffee break**

- 12.00 – 12.30 **“Ultra-violet lasers based on nanobars of zinc oxide”**

[Alexander Gruzintcev](#), Professor, Laboratory Chief, Institute of Microelectronics Technology and High Purity Materials RAS, Russia

- [Video](#)

- 12.30 – 12.40 **IV-th Annual Professor E.I.Tochitsky Award’2011 to Moscow State University and Moscow State Institute of Electronics and Mathematics**

[Viktor Boksha](#), Managing Director, BG Partners, USA
[Alexander Ryjov](#), BG Partners Group, Russia

- [Video](#)(Viktor Boksha)

- [Video](#)(Alexander Ryjov)

Section: “Nanomaterials”

The section will include three sessions devoted to the advanced research and development studies in the field of materials science, spintronics and new nanostructures. Leading world experts will discuss the latest achievements in these areas and their application in innovative products and technology development. Experts of key material science laboratories of the world, large transnational innovative companies and distinguished Russian scientists will share their research experience. Experts from seven countries will deliver nineteen reports, and a poster session will also be held.

Co-chairmen:

- **Mikhail Alfimov**, RAS member, Director, Photochemistry Centre RAS (Russia);
- **Sergey Aldoshin**, RAS member, Vice President RAS; Director, Institute of chemical physics problems RAS (Russia);
- **Igor Eremenko**, RAS member, Professor, Kurnakov Institute of General and Inorganic Chemistry RAS (Russia);
- **Jan Genzer**, Professor, North Carolina State University, Chemical and Biomolecular Engineering Department (USA).

The first day, 26 October

🕒 15:00 – 19:00, Hall I

Session 1 «Organic, inorganic and carbonic nanostructures»

Moderator: [Suzdalev Igor](#) Professor, Faculty of Materials Science, M.V. Lomonosov Moscow State University; Laboratory Chief N.N. Semenov Institute of Chemical Physics RAS Russia

Moderator: [Liz-Marzan Luis](#) Professor Faculty of Chemical Physics, Unidad Asociada CSIC- University of Vigo Spain

- 15.00 – 15.30 **«Engineering metal nanoparticles for plasmonic sensing systems basing on plasmonic phenomena resonance»**

[Luis Liz-Marzan](#), Professor, Faculty of Chemical Physics, Unidad Asociada CSIC- University of Vigo, Spain

- [Video](#)

- 15.30 – 16.00 **«Spintronics - Implications for Energy, Information and Medical Technologies»**

[Samuel Bader](#), Professor, Chief Scientist, Center for Nanoscale Materials, Argonne National Laboratory, USA

- [Video](#)

- 16.00 – 16.30 **«Supramolecular photoactive nanostructures»**

[Sergey Gromov](#), Professor, Laboratory Chief, Photochemistry Centre RAS, Russia

- [Video](#)

- 16.45 – 17.00 **Coffee break**

- 17.00 – 17.30 **«Electrical and magnetic transitions in nanoclusters and nanostructures»**

[Igor Suzdalev](#), Professor, Faculty of Materials Science, M.V. Lomonosov Moscow State University; Laboratory Chief, N.N. Semenov Institute of Chemical Physics RAS, Russia

- [Video](#)

- 17.30 – 18.00 **«Detonation Nanodiamonds. Control of Surface Properties and Applications»**

[Alexander Vul](#), Professor, Ioffe Physical Technical Institute RAS, Russia

- [Video](#)

- 18.00 – 18.30 **«Nanostructure Chemical Design»**

[Eugene Gudilin](#), Deputy Dean, Faculty of Materials Science, M.V. Lomonosov Moscow State University, Russia

- [Video](#)

- 18.30 – 19.00 **«Conformal metallization by thermal and plasma-enhanced atomic layer deposition»**

[Juhana Kostamo](#), Исполнительный директор, Picosun, Финляндия

- [Video](#)

The second day, 27 October

 10:00 – 13:30, Hall I

Session 2 «Functional nanomaterials (membranes, catalysts, optical ceramics)»

Moderator: [Parmon Valentin](#) RAS member, Director Boreskov Institute of Catalysis SB RAS Russia

Moderator: [Osiko Vyacheslav](#) RAS member, Director Laser Materials and Technology Research Center (Prokhorov General Physics Institute RAS) Russia

- 10.00 – 10.30 **«TEM Analysis of Rare Earth Dopant Distribution in YAG Optical Ceramics»**

[Georges Boulon](#), Professor, Physical Chemistry of Luminescent Materials Department, Lyon University, France

- [Video](#)

- 10.30 – 11.00 **«Optical connection of laser nanoceramics and yttrium-aluminum garnet crystals»**

[Valery Kravchenko](#), Professor, Head of Laboratory, Kotelnikov Institute of Radio Engineering and Electronics RAS, Russia


- [Video](#)

- 11.00 – 11.30 **«Fluoride optical nanoceramics»**

[Pavel Fedorov](#), Professor, Prokhorov General Physics Institute RAS, Russia

- [Video](#)

- 11.45 – 12.00 **Coffee break**
- 12.00 – 12.30 **«Spectroscopy and generation of fluoride laser ceramics»**
Maxim Doroshenko, Professor, Prokhorov General Physics Institute RAS, Russia
 - [Video](#)
- 12.30 – 13.00 **«Thin film microbatteries - fabrication and electrochemical performance»**
Li Lu, Professor, Mechanical Engineering Department, National University of Singapore, Singapore
 - [Video](#)
- 13.00 – 13.30 **«Materials design from computational experiment: Bridging size and time scale»**
Viktor Milman, Senior Researcher, Accelrys, UK
 - [Video](#)

 13:45 - 15:00 **Lunch**

 15:00 – 18:30, Hall I

Session 3 «Composite nanomaterials»

Moderator: [Khokhlov Aleksey](#) RAS member Pro-rector, Moscow State University; Professor Physical department of Moscow State University Russia

Moderator: [Genzer Jan](#) Professor, Associate Department Head North Carolina State University USA

- 15.00 – 15.30 **“Dispersion of Nanoparticles and Proteins in Surface-Bound Polymer Assemblies”**
[Jan Genzer](#), Professor, Associate Department Head, North Carolina State University, USA
 - [Video](#)
- 15.30 – 16.00 **“Nanotechnology and Organic Electronics: Precise Applications from Solar Cells to Early Detection of Cancer”**
[Levon Kalle](#), Professor, New York University, USA
 - [Video](#)
- 16.00 – 16.30 **“Using Topological Interlocking to Produce Hybrid Nanostructured Materials”**,
[Yuri Estrin](#), Professor, Monash University, Melbourne, Australia
 - [Video](#)
- 16.45 – 17.00 **Coffee break**
- 17.00 – 17.30 **“New approach for creation of nanocomposite with polymeric matrix”**
[Alexander Volynsky](#), RAS corresponding member, Professor, Chemistry Faculty, M.V.Lomonosov Moscow State University, Russia
 - [Video](#)
- 17.30 – 18.00 **“Macromolecular nanoobjects and polymeric composites on their base”**
[Aziz Muzafarov](#), Professor, Polymer Mechanics and Composite Materials Laboratory Chief, Institute of Macromolecular Compounds RAS, Russia
- 18.00 – 18.30 **“Polymeric composites from micro to nano”**
[Vladimir Udin](#), Professor, Polymer Mechanics and Composite Materials Laboratory Chief, Institute of Macromolecular Compounds RAS, Russia
 - [Video](#)

Within the framework of the section will pass a session devoted to the advanced researches and studies in the field of solar, thermal and gas energetics. Leading world experts will discuss latest achievements in these areas and their application in innovational industry. Experts of key worldwide universities, the large transnational innovative companies and leading Russian scientists will share their research experience. Within the program of the section the speech of the professor of University of Madrid Antonio Luque will take place. Reports will be delivered by 6 recognized leaders in the field from five countries; also, a poster session will be held.

Co-chairmen:

Vladimir Fortov, RAS member, Director, Thermal Physics of extreme conditions Institute of Institute for High Temperatures RAS (Russia);

Antonio Luque, Professor, Universidad Politécnica de Madrid, Electronic Technology Department (Spain)

The third day, 28 October

🕒 10:00 – 13:30, Hall I

Nanotechnology and Green Energy

- 10.00 – 10.30 **“Towards higher efficiency through nanotechnology: the quantum dot intermediate band solar cell”**
Antonio Luque, Professor, Polytechnical University of Madrid, Electronic Technology Department, Spain
 - [Video](#)
- 10.30 – 11.00 **“The present energy situation and possible sustainable energy paths to the future”**
Noam Lior, Professor, Pennsylvania University, USA
 - [Video](#)
- 11.00 – 11.30 **“Nanotechnology and Microfluidics in Catalysis for Biorenewables to Liquid Fuels”**
Michael Ladish, Professor, Purdue University, USA
 - [Video](#)
- 11.45 – 12.00 **Coffee break**
- 12.00 – 12.30 **“Thermal storage to integrate a high share of energy from Wind and PV into the electricity supply”**
John Sievers, Professor, University of Kassel, Germany
 - [Video](#)
- 12.30 – 13.00 **“Storages of energy in supercapacitors”**
Eduard Son, Deputy Director, Institute of High Temperature, Russia
Sunwook Kim, Chief Executive Officer, Nesscap Energy, Korea Republic
 - [Video \(Son\)](#)
 - [Video \(Kim\)](#)
- 13.00 – 13.30 **“Nanotechnologies in Nuclear energy”**
Kim Moo Hwan, Professor, Pohang University of Science and Technology, Korea Republic
 - [Video](#)

Section: “Russian-German workshop for young researchers: “Perspective directions in nanotechnology collaboration of Russia and Germany”. ”

Section: “LED Industry: Russian Market Potential and Competitive Challenges”

Main issues:

- Overview of Russian and global markets for LED products.
- What are Russia's chances of establishing an LED industry?

- Experience of installing LED solutions: business and infrastructure.
- Initiatives to regulate the sector.

Moderator: [Yevgeniy Dolin](#) President Noncommercial partnership of LED production

The first day, 26 October

🕒 15:00 – 16:15, Hall C

Overview of Russian and global markets for LED products. Growth potential and business opportunities

- 15.00 – 15.10 **Russian LED market**

[Aleksandr Petrov](#), General Director, Industrial Information Agency

- [Video](#)

- 15.10 – 15.20 **Changes in consumers' attitude to LED solutions"**

[Aleksander Karev](#), Technical Director, International Group of Companies "Lighting Technologies", Russia

- [Video](#)

- 15.20 – 15.30 **Global market development trends**

[Markus Zeiler](#), General Manager Global Sales and Marketing, Optogan GmbH

- [Video](#)

- 15.30 – 15.50 **What are Russia's chances of establishing an LED industry?**

[Peter van Berkel](#), General Manager, Lighting RCA, Philips

- [Video](#)

- 15.50 – 16.05 **System development based on LED**

[Leonard Livschitz](#), CEO, Luxera Corporation

- [Video](#)

- 16.05 – 16.15 **Recent trends in outdoor and industrial lighting**

[Alexander Romanovsky](#), Marketing Department Director, TD FOKUS

- [Video](#)

🕒 16:15 – 17:45, Hall C

Experience of installing LED solutions

- 16.15 – 16.25 **Business case study. Successful experience of installing LED solutions**

[Representative](#), Deputy Director, Russian Railways Technical Policy Department

[Leonid Shergin](#), Innovation Director, Sibur, Russia

- [Video](#)

- 16.25 – 16.35 **Russia and India: experience of energy saving programs in India. Opportunities for cooperation.**

[Deepak Loomba](#), MD&CEO, De Core Nanosemiconductors

- [Video](#)

- 16.35 – 16.45 **«High Level COB Packaging of High Bright White LED and Its Lighting Applications»**

[Astushi Okuno](#), Chief Executive Officer, SANYU REC Co.,Ltd , Japan

- [Video](#)

- 16.45 – 17.00 **Coffee break**

- 17.00 – 17.45 **Infrastructural case study. Successful experience of installing LED solutions**

[Michael Balabanov](#) , Deputy Director, Moscow Fuel and Energy Department

[Artem Zdunov](#) , Deputy Economics Minister Republic of Tatarstan, Program to improve energy efficiency in the Republic of Tatarstan

[Alexander Tatarnikov](#), Deputy Director, Moscow Fuel and Energy Department, Program to improve energy efficiency in Moscow
[Fedor Valentinovich Boyarkov](#), Chief of the Group of Advisors to General Director of JSC "Ruselectronics", General Director of JSC "Novye Tekhnologii Sveta", Experience of adoption of LED illumination in the Perm Territory Arrangement of regional assembly productions of JSC "NTS" and participation in implementation of actions on regional energy saving programs"

[Vladimir Filatov](#), Chairman of the Development Committee of the real sector of economy of Tomsk Oblast Administration, Russia
Speaker to be determined, "Energy efficiency program of Bashkortostan"

- [Video \(Tatarnikov Aleksandr\)](#)

- [Video \(Filatov Vladimir\)](#)

 17:45 – 18:00, Hall C

Signature of an agreement between the Government of the Republic of Bashkortostan and JSC "Optogan"

[Maxim Odnoblyudov](#), General Director, Optogan, Russia

[Marat Mulukov](#), Deputy Prime Minister of the Government of the Republic of Bashkortostan

 17:45 – 18:30, Hall C

Panel discussion: The LED industry. What is needed to set it up?

[Andrey Kovsh](#), Optogan

[Vyacheslav Potanin](#), CEO, NF-Group

[Vasiliy Basov](#), Director of Sales, Osram (Russia and CIS) The opportunity for Western companies to receive a share of the growing Russian market

[Vladimir Kuzenko](#), Chairman of the board of directors, Intesso, Russia

[Vladislav Bugrov](#), Executive Vice President , Group of Companies "Optogan"

[Sergey Koyonov](#), Deputy director general, BOOS Lighting Group

[Alexey Mohnatkin](#), CEO, Svetlana optoelectronics, Russia

[Elena Syabrenko](#), Strategy and Business Development Director Philips Russia, Belarus, Ukraine and Central Asia

[Natalia Zhernovaya](#), commercial director, Avante-center energy saving technologies

[Vladimir Salamatov](#), The Ministry of Industry and Trade of the Russian Federation (Minpromtorg of Russia)

- [Video](#)

 18:30 – 19:20, Hall C

Initiatives to regulate the sector. A range of regulatory documents for the production and use of LED products in Russia

- 18.20 – 18.25 **On metrological support and a regional laboratory network to test LED products**

[Viktor Sapritskiy](#), Department Director, All-Russian Scientific Research Institute , Russia

- [Video](#)

- 18.25 – 18.30 **Standardization of products in new sectors**

[Yuriy Tkachuk](#), Head of Standardization Directorate, RUSNANO

- [Video](#)

- 18.30 – 18.40 **Human impact study of LED light sources in regular and vocational educational institutes. Levels of installation.**

[Lubov Teksheva](#), Director, Hygienic Standardization and Assessment Department

- [Video](#)

- 18.45 – 19.00 **Panel discussion**

[Anna Shakhparunyants](#), General Director, Doctor of Technical Science, Vavilov All-Russian Lighting Scientific Research Institute (VNISI), Russia

Section: "Financial Instruments for Hi-tech Projects"

The second day, 27 October

 10:00 – 14:20, Hall B

Presentations

- 10.00 – 10.05 **Opening remarks by co-moderators**
[George Rizhinashvili](#), Deputy Chairman of the Management Board, RusHydro, Russia
[Yury Udaltsov](#), Director for Innovative Development, RUSNANO, Russia
- 10.05 – 10.20 **EADS: smart funding of R&D**
[Jean Botti](#), Chief Technical Director, European Aeronautic Defence and Space Company (EADS), France
 - [Video](#)
- 10.20 – 10.25 **Questions**
- 10.25 – 10.40 **New opportunities with the Russian Direct Investment Fund**
[Kirill Dmitriev](#), General Director, Russian Direct Investment Fund, Russia
 - [Video](#)
- 10.40 – 10.45 **Questions**
- 10.45 – 11.00 **Venture capital investments in aerospace industry**
[Uli Fricke](#), Managing General Partner, Triangle Venture Capital Group Management GmbH, Austria
 - [Video](#)
- 11.00 – 11.05 **Questions**
- 11.05 – 11.20 **Challenges in financing of innovative projects**
[Alexander Lupachev](#), Investment Director, Skolkovo Fund, Russia
 - [Video](#)
- 11.20 – 11.25 **Questions**
- 11.25 – 11.40 **Raising funds by shares issue**
[Gennady Margolit](#), Vice-President, MICEX, Russia
 - [Video](#)
- 11.40 – 11.45 **Questions**
- 11.45 – 12.00 **Coffee break**
- 12.00 – 12.15 **Private investments in innovative projects of the Russian nuclear sector**
[Kirill Komarov](#), Deputy General Director for development and international business, Rosatom, Russia
 - [Video](#)
- 12.15 – 12.20 **Questions**
- 12.20 – 12.35 **Investments in innovation**
[Ute Spring](#), Assoc. R&D Director, Dow Formulated Systems, The Dow Chemical Company
 - [Video](#)
- 12.35 – 12.40 **Questions**
- 12.40 – 12.55 **Forms of financing of renewable energy projects**
[George Rizhinashvili](#), Deputy Chairman of the Management Board, RusHydro, Russia
 - [Video](#)
- 12.55 – 13.00 **Questions**
- 13.00 – 13.10 **RVC industrial funds**
[Yan Ryazancev](#), Director of Investment and Expertise Department, Russian venture company, Russia

- [Video](#)
- 13.10 – 13.15 **Questions**
- 13.15 – 13.25 **Bank participation in financing of hi-tech projects**
[Alexey Fedotkin](#), executive board member, Senior Vice President – Corporate Unit Director, OJSC Promsvyazbank
- [Video](#)
- 13.25 – 13.30 **Questions**
- 13.30 – 13.40 **Foreign venture capital financing in the Russian region**
[Marco Beckmann](#), General Director, Nanostart AG, Germany
- [Video](#)
- 13.40 – 13.45 **Questions**
- 13.45 – 13.55 **Russian Business-Angels**
[Konstantin Fokin](#), President, National Business-Angels Association, Russia
- [Video](#)
- 13.55 – 14.00 **Questions**
- 14.00 – 14.10 **«Making venture capital deals in crisis»**
[Alexey Konov](#), Director of Investment in Biotechnology, Bioprocess Capital Ventures, Russia
- [Video](#)
- 14.10 – 14.15 **Questions**
- 14.15 – 14.20 **Closing remarks from the co-moderators of the presentation section**

Section: “Nanocenters: Opportunities to Commercialize Scientific Research and Find Technological Solutions”

At the initiative of RUSNANO, 10 nanotechnology centers will be launched in Russia by the end of 2011.

The RUSNANO nanotechnology centers, or Nanocenters, are special organizations: ‘engines’ for the production of businesses, which will create all the conditions for the launch and comfortable development of high-tech private business at the earliest stages of commercialization of innovative projects. These also contain modern research equipment, special economic and financial conditions for start-up projects. Is there an understanding in the scientific and business communities of the primary role and utility of the Nanocenters being set up? Will the creation of Nanocenters in Russia allow for the formation of market commercialization for scientific developments that corresponds with international standards? Are there enough projects in Russia to attract into the new Nanocenters?

In the section:

- Presentation of RUSNANO initiatives in establishing nanocenters and their role in supporting the commercialization of technological developments in Russia.
- Specialization of RUSNANO nanocenters in terms of the capabilities of equipment offered for use, and the range of business and technology services.
- Nanocenters – resolving technological problems for large and medium-sized industrial companies.
- Opportunities and conditions for the commercialization of R&D through RUSNANO nanocenters.
- Examples of successful international nanocenters.

Moderator: [Evgeniy Evdokimov](#) Managing Director Infrastructure project Department, RUSNANO Russia

The first day, 26 October

🕒 15:10 – 17:35, Hall E

Presentations

- 15.10 – 15.30 **“RUSNANO Nanocenters – key element of the innovation infrastructure for Russian nanotechnology”**
[Evgeniy Evdokimov](#), Managing Director, Infrastructure project Department, RUSNANO, Russia
- [Video](#)
- 15.30 – 15.45 **“Recommended Process Flow for Technology Management”**

[Page Heller](#), Director, Center for Technology Commercialization National University of Science & Technology MISiS, Russia

• [Video](#)

- 15.45 – 16.00 **“Transferring University Nanotechnologies to Startups/Companies and Capitalizing Their Development”**
[Daryl Boudreaux](#), Principal, Boudreaux & Associates LLC, USA

• [Video](#)

- 16.00 – 16.15 **“Zelenograd Nanotechnology Centre – a basis for the creation and development of high-tech start-ups based on a research university”**
[Anatoly Kovalev](#), General Director, Nanotechnology center Nano- and Microsystem Technology, Russia

• [Video](#)

- 16.15 – 16.30 **“Nanotechnology Center of Composites – source of the technology development of new composite materials”**
[Mikhail Stolyarov](#), Business Development Director, Nanotechnology Center of Composites, Russia

• [Video](#)

- 17.00 – 17.35 **“Mechanisms for interaction between Nanocenters and Early-Stage Investment Funds”**
[Vadim Kulikov](#), Partner, Bright-Capital, Russia

• [Video](#)

🕒 16:30 – 17:00, Hall E

Coffee break

🕒 17:35 – 18:45, Hall E

Panel discussion

[Evgeniy Evdokimov](#), Managing Director, Infrastructure project Department, RUSNANO, Russia
[Anatoly Kovalev](#), General Director, Nanotechnology center Nano- and Microsystem Technology, Russia
[Mikhail Stolyarov](#), Business Development Director, Nanotechnology Center of Composites, Russia
[Igor Lensky](#), General Director, International Innovation Nanotechnology Center Dubna, Russia
[Levan Tatumashvili](#), Vice President, Multidisciplinary Nanotechnology Center "Sygma", Russia
[Sergey Yushko](#), General Director, Nanotechnology Center Idea, Russia
[Andrey Redkin](#), General Director, Ulyanovsk Nanotechnology Center, Russia
[Page Heller](#), Director, Center for Technology Commercialization National University of Science & Technology MISiS, Russia
[Daryl Boudreaux](#), Principal, Boudreaux & Associates LLC, USA
[Vadim Kulikov](#), Partner, Bright-Capital, Russia

• [Video](#)

Section: “Conditions for the Development of Innovative Business in the Constituent Entities of the Russian Federation”

Factors influencing the choice of site for implementing innovative business. The role and possibilities of regional authorities in attracting and implementing innovative projects. Regional innovative opportunities – untapped potential.

Experts:

- **Artem Shadrin**, Director of Strategic Management (software) and Budgeting, Ministry of Economic Development of the Russian Federation, Russia
- **Yury Osintsev**, Deputy Minister, Ministry of Regional Development of the Russian Federation, Russia
- **Oleg Kostin**, General Director, Special Economic Zones, Russia
- **Albina Nikkonen**, Executive director, Russian Venture Capital Association, Russia
- **Alexey Prazdnichnykh**, Partner, Strategy Partners Group, Russia
- **Sergey Prikhodko**, Executive Director, Gaidar Institute for Economic Policy, Russia
- **Yury Koropachinsky**, Chairman of the Board, Sigma innovations, Russia
- **Pavel Kadochnikov**, Prorector for Research, Russian Foreign Trade Academy, Russia
- **Moisey Furshchik**, Managing Partner, FOK, Russia
- **Nicholas Fournier**, президент, Lafarge Vostok
- **Alex de Valukhoff**, General Director, Lafarge Cement, Russia
- **Alexander Frolov**, General Director, Rusnano-Info, Russia
- **Yury Udaltsov**, Director for Innovative Development, RUSNANO, Russia

The second day, 27 October

🕒 10:00 – 10:10, Hall D

Welcoming speech

[Anatoly Chubais](#), CEO, RUSNANO, Russia

🕒 10:10 – 11:45, Hall D

Panel discussion “What should a region of the Russian Federation do to become attractive to innovative business?”

[Valery Gaevskiy](#), Governor of Stavropol Region, Russia
[Anatoly Artamonov](#), Governor of Kaluga Region, Russia
[Andrey Sharonov](#), Moscow Deputy Mayor for economic policy issues in the Moscow Government, Russia
[Igor Agamirzian](#), Director General, OJSC Russian Venture Company, Russia
[Dmitry Bergelson](#), CEO & Board Director, Nanoprom OJSC, Russia
[Leonid Melamed](#), General Director, Kompozit, Russia
[Nikolay Pryanishnikov](#), President, Microsoft, Russia
[Victor Kress](#), Governor of Tomsk Region, Russia

• [Video](#)

🕒 11:30 – 11:45, Hall D

Summing up the panel discussion

🕒 11:45 – 12:00, Hall D

Coffee break

🕒 12:00 – 13:35, Hall D

Panel discussion “How to provide an innovative breakthrough in the regional economy”

[Rustem Khamitov](#), President of the Republic of Bashkortostan, Russia
[Alexander Misharin](#), Governor of Sverdlovsk Region, Russia
[Sergey Vakhrukov](#), Governor of Yaroslavl Region, Russia
[Nikolai Tsukanov](#), Governor of Kaliningrad Region, Russia
[Ruben Aganbegyan](#), President, MICEX, Russia
[Maxim Odnoblyudov](#), General Director, Optogan, Russia
[Victor Bykov](#), General Director, NT-MDT, Russia
[Ivan Bortnik](#), Executive Director, Association for Economic Cooperation between Regions of the Russian Federation, Association of Innovative Russian Regions, Russia
[Mihail Abyzov](#), Chairman of the Board of Directors, RU-COM, Russia
[Oleg Korolev](#), Governor of the Lipetsk Region, Russia
[Mikhail Ignatiev](#), Head of the Chuvash Republic, Russia

• [Video](#)

🕒 13:35 – 13:40, Hall D

Summing up the panel discussion

🕒 13:40 – 13:50, Hall D

Summing up the section. Adopting concluding document (resolutions, references)

Section: “Cooperation with Compatriots Abroad: Problems and Opportunities”

Russian researchers and businessmen living and working abroad are poised to share their experience (both positive and negative) interacting with Russian development institutes and discuss the outlook for their possible participation in the foundation of Russia's nanoindustry. Particular attention will be devoted to technology transfer, the implementation of joint projects, and expert participation by Russian experts in the innovative projects being launched in Russia, as well as their recruitment and training of personnel for Russian

high-tech production operations.

Moderator: [Sergey Mikhailov](#) Director Creepservices Sarl Switzerland

Moderator: [Alexey Sitnikov](#) Director of International Development Department Skolkovo Fund Russia

Moderator: [Leonid Gozman](#) Director of Humanitarian Projects RUSNANO Russia

The third day, 28 October

🕒 10:00 – 11:45, Hall A

Panel discussion "The cooperation of compatriots with RUSNANO and other institutions for development in Russia: the positive and / or negative experience"

[Alexey Andreev](#), Executive Vice President, Harris & Harris, USA

[Yevgeniy Zaitsev](#), Partner, Helix Ventures, USA

[Vyacheslav Safarov](#), President, Russian-Speaking Academic Science Association: RASA, France

[Mikhail Drozdov](#), Chairman, Coordination Council for Cooperation with China, Russia

[Dmitry Akhanov](#), Director for Cooperation with U.S. and Canadian companies, RUSNANO, Russia

[Igor Agamirzian](#), Director General, OJSC Russian Venture Company, Russia

• [Video](#)

🕒 11:45 – 12:00, Hall A

Coffee break

🕒 12:00 – 13:45, Hall A

Panel discussion "Promising areas of compatriots' participation in the creation of nanoindustry in Russia (technology transfer, implementation of joint projects, scientific and technical expertise, training and selection of specialists, and other areas)"

[Vladimir Chigrinov](#), Professor, Hong Kong University of Science and Technology, China

[Sergey Belousov](#), Senior Partner, Runa Capital, Russia

[Yolanta Strikitsa](#), Managing Director, Strikitsa Consulting Ltd, Great Britain

[Vladimir Bogin](#), President and General Director, Cromos Pharma, USA

[Nikolai Ledentsov](#), General Director, VI Systems GmbH, Germany

[Konstantin Severinov](#), Laboratory Director, RAS Institute of Molecular Genetics, Professor, Rutgers University, USA

[Svetlana Afanaseva](#), Deputy General Director, RTI-Technology, Russia

• [Video](#)

Section: "Innovative Technology in Transportation Infrastructure"

Main topics:

1. Demonstration of applied industrial use of composite materials;
2. Demonstration of applied industrial use of LED technology;
3. Demonstration of applied industrial use of RFID solutions;
4. Promising areas of development of rail infrastructure;
5. Promising areas of development of highway infrastructure;
6. R&D plan supported by Technological Platform participants;
7. Goals and objectives of Technological Platform in 2012.

Moderator: [Artem Shadrin](#) Director of Strategic Management (software) and Budgeting Ministry of Economic Development of the Russian Federation Russia

The third day, 28 October

🕒 10:00 – 10:10, Hall B

"Welcoming speech "Mechanisms of Governmental Support for Technological Platforms"

[Artem Shadrin](#), Director of Strategic Management (software) and Budgeting, Ministry of Economic Development of the Russian Federation, Russia

🕒 10:10 – 10:30, Hall B

Priority Research and Development for the Technological Platform "Application of Innovative Technologies for the Increasing the Efficiency of the Construction, Upkeep and Safety of Motorways and Railroads"

[Alexander Morozov](#), Director of Programs of Demand Stimulation Department, RUSNANO, Russia

🕒 10:30 – 10:50, Hall B

“The Demand for Innovation in Railroad Infrastructure”

Alexander Korchagin, Director, Russian Railways Innovative Development Center, Russia

• [Video](#)

🕒 10:50 – 11:10, Hall B

“The Demand for Innovation in Road Infrastructure”

Nikolai Bystrov, Deputy Director, Federal Road Agency, Ministry of Transport, Russia

• [Video](#)

🕒 11:10 – 11:25, Hall B

Coffee Break

🕒 11:25 – 11:45, Hall B

“The Development of System of Standard Support for the Application of Innovative Solutions in Road Infrastructure”

Andrey Timochkin, Deputy Head of Projects Development Department, Russian Ministry of Transport, Russia

• [Video](#)

🕒 11:45 – 11:55, Hall B

“The Results of Research and Development in the Application of Light Emitting Diodes in Road Infrastructure”

Alexander Bogdanov, Deputy General Director, Svetlana Optoelectronics, Russia

• [Video](#)

🕒 11:55 – 12:05, Hall B

“The Application of Modern Composite Materials in Road Infrastructure”

Evgeniy Nikolaev, Commercial Director, Galen Ltd., Russia

• [Video](#)

🕒 12:05 – 12:15, Hall B

Coffee Break

🕒 12:15 – 12:35, Hall B

“The Automobiles of the Future and New Demands on Road Infrastructure”

Alexey Rakhmanov, Director of the Department of the Automobile Industry and Agricultural Machine Building, Ministry of Industry and Commerce of the Russian Federation

• [Video](#)

🕒 12:35 – 12:50, Hall B

“The Problem of Integrated Transportation Solutions in Road Infrastructure”

Rolf Epstein, Director of Management of Integrated Transportation Solutions, Siemens, Russia

• [Video](#)

🕒 12:50 – 13:00, Hall B

“Promising Trends in the Development of Road Construction Technology”

Konstantin Mogilny, General Director, Federal State Unitary Enterprise ROSDORNII, Russia

• [Video](#)

🕒 13:00 – 13:10, Hall B

“Transportation Information Systems and Railroad Safety”

Efim Rozenberg, First Deputy General Director, NIIAS, Russia

🕒 13:10 – 13:20, Hall B

“Potential use of RFID technology in transport”

Sergey Dudnikov, General Director, RST-Invent, Russia

• [Video](#)

🕒 13:20 – 13:30, Hall B

Break

🕒 13:30 – 13:35, Hall B

Organizational Structure of the “Application of Innovative Technologies for Increasing Construction Effectiveness, Maintenance and Safety of Roads and Railroads” Technological Platform

Andrey Leskinen, Head of department of working with corporations, RUSNANO, Russia

• [Video](#)

🕒 13:35 – 13:40, Hall B

“Presentation of the Decision of the General Meeting of the Participants in the Technological Platform ‘Application of Innovative Technologies for the Increasing the Efficiency of the Construction, Upkeep and Safety of Motorways and Railroads’

Alexander Morozov, Director of Programs of Demand Stimulation Department, RUSNANO, Russia

• [Video](#)

🕒 13:40 – 13:45, Hall B

Closing of the general meeting of participants of the platform

Artem Shadrin, Director of Strategic Management (software) and Budgeting, Ministry of Economic Development of the Russian Federation, Russia

• [Video](#)

Section: “Round Table «Silicon Microelectronics – a Basis for Innovation in Russia»”

The first day, 26 October

🕒 15:00 – 16:45, Hall A

Part 1. “Russian semiconductor market - what key targets shall be achieved”

Alexey Likhachev, Deputy Minister Ministry of Economic Development of the Russian Federation, Russia
Yuri Borisov, Deputy Head of Military-industrial Committee of the Government of the Russian Federation, Russia
Alexander Orlikovsky, Professor, RAS member; Director, Physics and Technologies Institute of the RAS, Russia
Gennady Krasnikov, Academician at RAS, Head of SITRONICS Microelectronics, Russia
Alain Astier, Group Vice-president, Front-End Technology & Manufacturing of STMicroelectronics, France
Heinz Kundert, Vice-President, SEMI International
Alexey Tabolkin, Deputy director general JSC «Angstrom», Russia
Ekaterina Gaika, Deputy director of Cluster for IT & computer technologies, Skolkovo Foundation, Russia

Silicon microelectronics or the classical one is the basis for 90% of global innovations. The success in the sphere guarantees the economic and political prosperity of the government. Russia has a great history in microelectronics and in observing the future its ambitions in semiconductors are getting strong. What way shall we turn the future development? What do we mean by mentioning the word “development” and “developed economy”, what are the exact numbers we are seeking for?

The views of Russian and foreign experts will be presented in the course of discussion, numbers and facts will be provided. The participants express their opinion, explaining the following issues:

- The demand stimulation activities and consumers support in microelectronics. The production development of electronic devices and its localization till the level of technological conversion and the systems development.
- The State policy in intellectual property protection and its joint usage, the foreign experience and Russian prospects.
- The transfer of technologies, the search for “golden mean” within own technologies development and licensing (transfer) of technologies.
- The global map of microelectronics, is there a place for Russian producers?



Video

🕒 16:45 – 17:00,

Coffee Break

🕒 17:00 – 18:45, **Hall A**

Part 2. “Who could boost microelectronics ecosystem in Zelenograd”

Moderator: [Erlikh Alexander](#) The Senior Editor of Zelenograd.ru Russia

[Karina Abagyan](#), marketing director of JSC «Mikron», Russia

[Alain Astier](#), Group Vice-president, Front-End Technology & Manufacturing of STMicroelectronics, France

[Andrei Vasiliev](#), Professor, RAS Koltzov Institute of developmental biology , Russia

[Victor Bykov](#), General Director, NT-MDT, Russia

[Representatives of the Moscow Government, National Research University of Electronic Technology \(MIET\) and Rusnano](#)

In the nearest two or three years the fate of the microelectronics cluster of Zelenograd will be determined. Will the educational, scientific, R&D, industrials, service organizations, government and local authority structures be able to move to a next level of cooperation providing qualitative breakthrough and multiple increase of volume of manufactured innovative products? Or will be realized the script of interconnections inexistence of Zelenograd cluster’s participants while existing world clusters will go forward in the technological and commercial development? What is the main reason that blocks the cluster development? What should each cluster member do to not to miss the chance of Zelenograd?

Participants of the panel will discuss the following topics:

- Speed up or die: speed as the main factor of survival, where and how we can and must to accelerate.
- Achieve a critical mass: why there are a few of new projects in the cluster.
- The government support is not a panacea: which problems private industry can solve by itself.
- Environment: problem issues of urban infrastructure as the main constraining factor.
- Personnel are decisive: how to eliminate the imbalance between supply and demand for qualified and skilled workers.

• [Video](#)

Section: “Round table «Application of High-Tech Construction Materials in the Oil-and-Gas Industry»”

A review of the competitive advantages of new technology and materials for well cementing. Factors influencing Client and Service Company decisions when selecting innovative materials and technology.

The role and possibilities of technical regulation in developing innovative technologies.

Moderator: [Wade Herguth](#) General Director of the Well Cement Division Lafarge Group USA

The third day, 28 October

🕒 10:00 – 10:30, **Hall C**

Opening speech

[Dmitry Lisenkov](#), Managing Director, RUSNANO, Russia

🕒 10:30 – 11:05, Hall C

Use of high-tech materials in the oil and gas industry.

[Wade Herguth](#), General Director of the Well Cement Division, Lafarge Group, USA

[Ronald Crook](#), Well Technical Consultant, Lafarge Cement, Russia

- [Video](#) (Herguth Wade)

🕒 11:05 – 11:40,

Coffee Break

🕒 11:40 – 13:10, Hall C

Use of high-tech materials in the oil and gas industry.

[Mikhail Popov](#), Technical Director of Well Cementing Department, Schlumberger, Russia and Central Asia

[Eldar Shakhbazov](#), Professor, Doctor of Technical Science, Director, SOCAR Nanotechnology scientific-production center, Azerbaijan

🕒 13:10 – 13:15, Hall C

Review of discussion topics