NGC2017 Program (oral sessions)

September 18, Monday, Morning

Summer school: Tutorials I Chairs: Grigory Dunaevskiy and William Petuskey

| 9:00 am – | Stephen Goodnick, Arizona State University, Tempe, Arizona, USA, Nanotechnology |
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| 9:45 am | Pathways to Next-Generation Photovoltaics |
| 10:00 am – | Yoshiro Hirayama, Tohoku University, Sendai, Japan, Nuclear Spin Related |
| 10:45 am | Measurements for Semiconductor Quantum Systems |
| 11:00 am – | Robert Nemanich, Arizona State University, Phoenix, Arizona, USA |
| 11:45 pm | Diamond: a Brilliant Wide Bandgap Semiconductor |
| 12:00 am – 12:45 pm | Vladimir Yakubov, National Research Tomsk State University, Tomsk, Russia, Theory and Technology of Wave Vision |
| 13:00 pm – 2:00 pm | Lunch and Networking |

September 18, Monday, Afternoon

Summer school: Tutorials II Chairs: Yoshiro Hirayama and Bjorn Lussem

| 2:00 pm – 2:45 pm | Francis Balestra, Grenoble Institute of Technology, Grenoble, France, NanoCMOS and Tunnel FETs for the end of the Roadmap (online presentation) |
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| 3:00 pm – 3:45 pm | Victor Bykov, NT-MDT, Zelenograd, Russia, Scanning Probe Technology for Surface Structures Characterizations: High resolution in Microscopy and Spectroscopy |
| 4:00 pm – 4:45 pm | David Gilmer, Nantero, Austin, Texas, USA, Fundamentals of Oxide Resistive Random Access Memories (RRAM) |
| 5:00 pm - 5:45 pm | Roman Kezerashvili, The City University of New York, New York, USA, Superfluidity and Bose-Einstein Condensation in Two-dimensional Nanomaterials |

September 19, Tuesday, Morning

Summer school: Tutorials IIIChairs: Stephen Goodnick and Robert Nemanich

| 9:00 am – 10:00 am | Marco Buongiorno Nardelli, University of North Texas, Denton, Texas, USA, High- throughput Materials Discovery and Development: Breakthroughs and Challenges in the Mapping of the Materials Genome (online presentation) |
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| 10:00 am – 10:45 am | Dominic Gervasio, University of Arizona, Tucson, Arizona, USA, Science and Technology Challenges in Solar Energy Generation and Energy Storage |
| 11:00 am – 11:45 pm | Vladimiro Mujica, Arizona State University, Tempe, Arizona, USA, Quantum Confinement Effects in Nanoelectronic Materials |
| | Nanotechnology in Space I Chairs: Victor Bykov and Anatoli Korkin |
| 9:00 am – 9:30 am | Victor Bykov, NT-MDT, Zelenograd, Russia, Space Technologies and Analytical Systems |
| 9:30 am – 10:00 am | Mikhail Mikhailov, Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia, Nanotechnology Application for Spacecraft Smart Coatings |
| 10:00 am – 10:30 am | Anton Tyazhev, National Research Tomsk State University, Tomsk, Russia, Gamma Ray Detectors for Terrestrial and Space Applications |
| 10:30 am - 11:00 am | Coffee Break and Networking |
| 11:00 am – 11:30 am | Roman Kezerashvili, The City University of New York, New York, USA, Solar Sail Acceleration by Thermal Desorption and Temperature Restriction on Heliocentric Orbits |
| 11:30 am – 12:00 pm | Pavel Ananyev, GUN, Ltd, Moscow, Russia, Electro-Magnetic Cold Drilling for Lunar Mining |
| 12:00 pm - 2:00 pm | Lunch and Networking |
| | September 19, Tuesday, Afternoon |
| | Summer school: Tutorials IV Chairs: Roman Kezerashvili and Valentin Suslyaev |
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Mikhail Baklanov, North China University of Technology, Beijing, China, Interconnect

Challenges of ULSI Devices Beyond 10 nm Technology Nodes (online presentation)

Tina Ng, University of California San Diego, San Diego, California, USA, Additively

printed Electronics for Sensing

2:00 pm -

3:00 pm - 3:45 pm

2:45 pm

| 4:00 pm - | Björn Lüssem, Kent State University, Kent, Ohio, USA, Minority and Majority Currents in |
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| 4:45 pm | Organic Field-Effect Transistors |
| 5:00 pm – 5:45 pm | Fred Roozeboom, Technische Universiteit Eindhoven, Eindhoven, Netherlands, Atomic Layer Processing: Basics, Materials, Processes and Applications (online presentation) |
| | Nanotechnology in Space II Chair: Victor Bykov |
| 2:00 pm – 2:20 pm | Alexander Shalumov, Research Institute ASONIKA, Moscow, Russia, Computational Modeling of External Impact on Electronic Devices |
| 2:20 pm – 2:40 pm | Alexander Vorozhtsov, National research Tomsk state university, Tomsk, Russia, Nanoparticles for Applications in High Energy Materials and Light Alloys |
| 2:40 pm – 3:00 | Aliya Prokofieva, Galaktika, Moscow, Russia, TBD |
| 3:00 pm – 3:30 pm | Coffee Break and Networking |
| 3:30 pm – 6:00 pm | Round Table Discussions |
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| | September 20, Wednesday, Morning |
| | September 20, Wednesday, Morning Optoelectronics, Photonics, and Plasmonics I Chairs: Albert Nasibulin and Elena Semouchkina |
| 9:00 am – 9:30 am | Optoelectronics, Photonics, and Plasmonics I |
| | Optoelectronics, Photonics, and Plasmonics I Chairs: Albert Nasibulin and Elena Semouchkina Ken-Ichi Ueda, Osaka University, Osaka, Japan, Thermal-Lens-Free Heat Capacitive |
| 9:30 am 9:30 am - | Optoelectronics, Photonics, and Plasmonics I Chairs: Albert Nasibulin and Elena Semouchkina Ken-Ichi Ueda, Osaka University, Osaka, Japan, Thermal-Lens-Free Heat Capacitive Active Mirror Elena Semouchkina, Michigan Tech, Houghton, Michigan, USA, From Microwaves to |
| 9:30 am - 9:30 am - 10:00 am - | Optoelectronics, Photonics, and Plasmonics I Chairs: Albert Nasibulin and Elena Semouchkina Ken-Ichi Ueda, Osaka University, Osaka, Japan, Thermal-Lens-Free Heat Capacitive Active Mirror Elena Semouchkina, Michigan Tech, Houghton, Michigan, USA, From Microwaves to Optics: All Dielectric Solutions for Coordinate Transformation-Based Devices Kodo Kawase, Nagoya University, Nagoya, Japan |
| 9:30 am 9:30 am – 10:00 am 10:00 am – 10:30 am – | Optoelectronics, Photonics, and Plasmonics I Chairs: Albert Nasibulin and Elena Semouchkina Ken-Ichi Ueda, Osaka University, Osaka, Japan, Thermal-Lens-Free Heat Capacitive Active Mirror Elena Semouchkina, Michigan Tech, Houghton, Michigan, USA, From Microwaves to Optics: All Dielectric Solutions for Coordinate Transformation-Based Devices Kodo Kawase, Nagoya University, Nagoya, Japan THz Spectroscopic Imaging Using Optical Parametric Generator |

Magnetic Materials and Devices Chairs: Igor Shvets and Victor Tugushev

| 9:00 am – 9:30 am | Patrick Lenahan, Pennsylvania State University, University Park, Pennsylvania, USA Spin Dependent Variable Range Hopping and Spin Dependent Charge Pumping in Metal-Insulator-Semiconductor Systems (online presentation) |
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| 9:30 am – 10:00 am | Joerg Debus, Technical University of Dortmund, Dortmund, Germany, Magneto-optical Effects of Nitrogen-vacancy Centers in Diamond Crystals |
| 10:00 am - 10:30 am | Victor Tugushev, National Research Center "Kurchatov Insgitute", Moscow, Russia, Anomalous Hall Conductivity in 3D Magnetic Topological Insulator Based Nanostructures |
| 10:30 am – 11:00 am | Coffee Break and Networking |
| 11:00 am – 11:30 am | Flavio Abreu Araujo, University Paris-Sud, Orsay Cedex, France, Dynamical Neuromorphic Computing with Nanoscale Magnetic Oscillators |
| 11:30 am – 11:45 pm | Geliia Karlova, Tomsk State University of Control Systems and Radioelectronics (TUSUR), Tomsk, Russia, Development of Phased Array Antenna Element for Active Magnetic Positioning System Based on Semiconductor Hall-Effect Sensors |
| 11:45 pm – 12:00 pm | Igor Shvets, Tomsk State University, Tomsk, Russia, Intrinsic Spin Hall Response in Three-Dimensional Topological Insulator/Normal Insulator Heterostructures |
| 12:00 pm – 3:00 pm | Excursion and Lunch |

September 20, Wednesday, Afternoon

Optoelectronics, Photonics, and Plasmonics II Chairs: Pavle Radovanovic and Ken-Ichi Ueda

| 3:00 pm – 3:30 pm | Sergey Maksimenko, Belarusian State University, Minsk, Belarus, Propagation and Generation of Electromagnetic Waves in Carbon Nanotubes and Graphene |
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| 3:30 pm - 4:00 pm | Yuriy Gladush, Skolkovo Institute of Science and Technology, Moscow, Russia, Polymer-free Films of Single-walled Carbon Nanotubes as a Saturable Absorbers for Fiber Lasers |
| 4:00 pm - 4:30 pm | Pavle Radovanovic, University of Waterloo, Waterloo, Ontario, Canada, Tuning Plasmon Resonance of In_2O_3 Nanocrystals Throughout Mid-Infrared: Dopant, Phase, and Electronic Structure Dependence |
| 4:30 pm – 5:00 pm | Coffee Break and Networking |
| 5:00 pm – 5:30 pm | Alexei Popov, Pushkov Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation, Troitsk, Russia, Parametric resonance and theory of Bragg waveguides |

| | 5:30 pm – 6:00 pm | Raul Rordriguez, Tomsk Polytechnic University, Tomsk, Russia, Optical Absorption at the Nanoscale |
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| | 6:00 pm - 6:15 pm | Dzmitry Bychanok, Belarusian State University, Minsk, Belarus, Design of Carbon Nanotube-based Broadband Radar Absorber for Ka-band Frequency Range |
| | 6:15 pm - 6:30 pm | Alexander Plekhanov, Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia, Compact Planar Electrooptical Modulators based on Poled Chromophore-doped Polyimides |
| | 6:30 pm – 6:45 pm | Olga Sedelnikova, NIkolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia, Effect of Interlayer Coupling on Plasmonic Properties of Twisted Bilayer Graphene |
| | 6:45 pm – 7:00 pm | Steponas Asmontas, Center for Physical Sciences and Technology, Vilnius, Lithuania, Pecularities of Photovoltage Formation Across SI and GAAS p-n Junction under Illumination of Laser Radiation |
| Modeling and simulation Chairs: Vladimiro Mujica and Vladimir Skripnyak | | |
| | 3:00 pm – 3:30 pm | Vladimir Burtman, University of Utah, Salt Lake City, Utah, USA, Generalized Charge Transfer (GCT) Model for Analysis of Transport Phenomena in Molecular and DNA stacks (online presentation) |
| | 3:30 pm - 4:00 pm | Vladimiro Mujica, Arizona State University, Tempe, Arizona, USA, Chirality Effects in Molecular Electronics |
| | 4:00 pm – 4:30 pm | Sergey Beznosyuk, Altai State University, Barnaul, Russia, Quantum Mechanical Approaches to Computer Simulation Graphene-Metal Nanosystems |
| | 4:30 pm - 5:00 pm | Coffee Break and Networking |
| | 5:00 pm - 5:30 pm | Giacomo Giorgi, University of Perugia, Perugia, Italy, Hybrid Organic-Inorganic Halide Perovskites: Dimensionality vs. Applicability. A Theoretical Standpoint |
| | 5:30 pm – 6:00 pm | Alexander Kvashnin, Skolkovo Institute of Science and Technology, Moscow, Russia Computational materials discovery in various dimensionalities |
| | 6:00 pm – 6:15 pm | Roman Kezerashvili, The City University of New York, New York, USA, Trions in TMDC Monolayers: Faddeev equations and Hyperspherical Harmonics Approaches |
| | 6:15 pm – 6:30 pm | Olga Maslova, Altai State University, Barnaul, Russia, Computer Simulation of Graphene-Molybdenum Nanosized Sensor of Carbon Monoxide Molecules |

September 21, Thursday, Morning

Energy Transformation and Storage Chairs: Dominic Gervasio and Koichi Yamashita

| 9:00 am – 9:30 am | Stephen Goodnick, Arizona State University, Tempe, Arizona, USA, Nonequilibrium Electron and Phonon Dynamics in Advanced Concept Solar Cells |
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| 9:30 am – 10:00 am | Koichi Yamashita, University of Tokyo, Tokyo, Japan, Theoretical Study on Energy Conversion Processes of Perovskite Solar Cells |
| 10:00 am – 10:30 am | Dominic Gervasio, University of Arizona, Tucson, Arizona, USA, Chemical Processing in Molten Salts |
| 10:30 am – 11:00 am | Coffee Break and Networking |
| 11:00 am – 11:15 am | Artem Kabanov, Samara University, Samara, Russia, Methods for Prediction of New Perspective Materials for the Electrochemical Systems of Energy Storage |
| 11:15 am – 11:30 am | Alex Laikhtman, Holon Institute of Technology, Holon, Israel, Tungsten Disulfide Nanoparticles as a Medium for Hydrogen Storage: Comparison of Hydrogenation Methods and Determination of Chemical Configuration |
| 11:30 am – 11:45 pm | Lyubov Bulusheva, Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia, Li-ion Capacity of Coupled Graphene and Molybdenum Sulfide Materials |
| 11:45 am – 12:00 pm | Sergii Sergiienko, National University of Science and Technology (MISi), Moscow, Russia, Structure and Transport Properties of the Spark Plasma Sintered Barium Cerate Based Proton Conductor |

Non-volatile Memory Devices Chairs: David Gilmer and Vladimir Gritsenko

| 9:00 am – 9:30 am | Yakov Roizin, TowerJazz, Migdal Haemek, Israel, Nonvolatile memories for IoT applications |
|------------------------|--|
| 9:30 am – 10:00 am | David Gilmer, Nantero, Austin, Texas, USA, NRAM: A Disruptive Carbon-Nanotube Resistance-Change Memory |
| 10:00 am - 10:30 am | Vladimir Gritsenko, Rzanov Institute of Semiconductor Physics, Novosibirsk, Russia The Charge Transport Mechanism and the Nature of Traps in Charge Trap Flash, ReRAM and FeRAM Devices |
| 10:30 am – 11:00 am | Coffee Break and Networking |
| 11:00 am – 11:30 am | Sergei Koveshnikov, Institute of Microelectronics Technology Russian Academy of Sciences, Chernogolovka, Russia, Fundamental Properties of Cross-bar Non-volatile RRAM Elements and their Integration for Low Energy System-on-chip Applications |
| 11:30 am – 12:00 pm | Konstantin Egorov, Moscow Institute of Physics and Technology, Moscow, Russia, Plasma-Enhanced Atomic Layer Deposition of Oxygen Deficient TaOx Thin Films for Resistive Switching Memory Applications |

Discovery Session: Interaction of Radiation with Matter and Image Recognition I Chairs: Igor Dorofeev and Olga Kharapudchenko

| 9:00 am – 9:15 am | Rakhaf M.H. Douhan, Tomsk State University, Tomsk, Russia, Parameters of Photodetectors with Ge-Si Quantum Dots |
|------------------------|--|
| 9:15 am – 9:30 am | Sherin Berdybaeva, Tomsk State University, Tomsk, Russia, Fluorescence Sensing of Nitroaromatic Compounds |
| 9:30 am – 9:45 am | Valentin Rodionov, Tomsk State University, Tomsk, Russia, Simulation of Spin Configuration Changes in Nano-sized Manganese-Zinc Ferrite and Magnetite |
| 9:45 am – 10:00 am | Anastassiya Lozinskaya, Tomsk State University, Tomsk, Russia, Charge Carrier Lifetime Determination in GaAs:Cr under Near-Surface Illumination |
| 10:00 am – 10:15 am | Alexandra Pavlova, Tomsk State University, Tomsk, Russia, Dielectric Properties of Essential Oils at THz Frequency Range |
| 10:15 am – 10:30 am | Anastasiya Kachusova, Tomsk State University, Tomsk, Russia, A Comparison of the Results of Measuring Permittivity Achievable with Coaxial and Cavity Perturbation Methods |
| 10:30 am – 11:00 am | Coffee Break and Networking |
| 11:00 am – 11:15 am | Bair Tarbaev, Tomsk State University, Tomsk, Russia, Finding an Object in the Video Stream. |
| 11:15 am – 11:30 am | Semen Kasatkin, Tomsk State University, Tomsk, Russia, The Methods of Pattern Recognition. |
| 11:30 am – 11:45 am | Evgeniy Vayman, Tomsk State University, Tomsk, Russia, The Diffraction Hyperbole of the Skin Layer |
| 12:00 pm – 2:00 pm | Lunch and Networking |

September 21, Thursday, Afternoon

Carbon Based Materials in Electronics and Photonics Chairs: Sergey Maksimenko and Vladimir Popov

| 2:00 pm – 2:30 pm | Albert Nasibulin, Skolkovo Institute of Science and Technology, Moscow, Russia Single-walled Carbon Nanotubes: from Synthesis to Applications |
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| 2:30 pm – 3:00 pm | Robert Nemanich, Arizona State University, Phoenix, Arizona, USA, Defect Control in Diamond Epitaxy for High Temperature Electronics |

| 3:00 pm - | Georgy Fedorov, Moscow Institute of Physcis and Technology, Moscow, Russia |
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| 3:30 pm | Graphene Based Nanostructures for Detecting Terahertz Radiation |
| 3:30 pm – 4:00 pm | Coffee Break and Networking |
| 4:00 pm – | Elena Obraztsova, A.M. Prokhorov General Physics Institute of RAS, Moscow, Russia, |
| 4:30 pm | New Materials Based on Filled Single-Wall Carbon Nanotubes |
| 4:30 pm – | Yutaka Ohno, Nagoya University, Nagoya, Japan |
| 5:00 pm | Flexible Bio-electronics Based on Carbon Nanotube Thin Films |
| 5:00 pm – 5:30 pm | Vladimir Popov, Rzhanov Institute of Semiconductor Physics, Novosibirsk, Russia, Diamond-Graphite-Diamond Heterostructures Produced by Implantation and HPHT Annealing for Lift-off Transfer and New Devices |
| 5:30 pm - 6:00 pm | Sergey Makarov, Altai State University, Barnaul, Russia, Diamond-like Carbon Films |

Electronics Structure and Charge Transport Chairs: Steffen Duhm and Evgeny Gousev

| 1:30 pm – 2:00 pm | Luca Larcher, University of Modena, Modena, Italy, Multiscale Modeling of Memristor Devices for Novel Memory and Logic System Architectures (online presenation) |
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| 2:00 pm - 2:30 pm | Hiroaki Benten, Nara Institute of Science and Technology, Nara, Japan, Nanoscale Mapping of Charge Transport Properties of Conjugated Polymer Films by Conducting Atomic Force Microscopy |
| 2:30 pm – 3:00 pm | Satoshi Kera, Institute for Molecular Science, Okazaki, Japan, Tracking Charge Transport of Organic Semiconductor Material by Electronic Structure Measurement |
| 3:00 pm – 3:30 pm | Oleg Tolbanov, National Research Tomsk State University, Tomsk, Russia, Electronics Properties of GaAs Crystals Containing Deep Nanoclusters |
| 3:30 pm – 4:00 pm | Coffee Break and Networking |
| 4:00 pm – 4:30 pm | Steffen Duhm, Soochow University, Suzhou, China, Vertical Adsorption Distances Impact Energetics at Organic-Metal Interfaces |
| 4:30 pm – 5:00 pm | Axel Fischer, Technical University Dresden, Dresden, Germany, A Vertical Organic |
| - | Transistor with Areal Current Densities in the kA/cm ² Regime |

| 2:00 pm – 2:15 pm | Aleksey Odod, Tomsk State University, Tomsk, Russia, OLED's Based Novel Metal- Organic Complexes with Berillium and Zink |
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| 2:15 pm – 2:30 pm | Kulshara Burumbaeva, Tomsk State University, Tomsk, Russia, Transition to the State of Free Excitons near the Fundamental Absorption Edge |
| 2:30 pm – 2:45 pm | Viktor Shpilnoy, Tomsk State University, Tomsk, Russia, The Two-Channel Device for Study of Microwave Properties |
| 2:45 pm – 3:300 pm | Mariya Didenko, Tomsk State University, Tomsk, Russia, The Decomposition Products of Atmospheric Pressure Plasma of Repetitive Pulsed Discharge in Apokamp |
| 3:00 pm - 3:15 pm | Maksim Sokolov, Tomsk State University, Tomsk, Russia, Influence of Gradient Magnetic Fields on Dynamics of Human Brain |

September 22, Friday, Morning

Fabrication of Nanostructured Materials and Devices I Chairs: Damir Islamov and Alexey Kovalgin

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Technology Innovations I Chairs: Olga Babkina and Konstantin Belyakov

| 9:00 am – 9:30 am | Innovations at the Tomsk State University, Tomsk, Russia, Ecosystem of |
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| 9:30 am – 10:00 am | Evgeni Gousev, Qualcomm, San Jose, California, USA, Overcoming the High Power and High Cost of Computer Vision |

| 10:00 am – 10:30 am | Alexander Fertman, Skolkovo Foundation, Moscow, Russia, Advanced Manufacturing: Trends and Ideas for Small and Middle Size Business |
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| 10:30 am – 11:00 am | Coffee Break and Networking |
| 11:00 am - 11:30 am | William Petuskey, Arizona State University, Tempe, Arizona, USA, Accelerating Materials Innovation and Implementation: What Strategies can be |
| 11:30 am – 12:00 pm | Yuri Tkachenko, IP-Management, Nizhny Novgorod, Russia, Development, Management and Licensing Intellectual Property: There are more Money than Good Proposals (online presentation) |

Discovery Session: Interaction of Radiation with Matter and Image Recognition III Chairs: Grigoriy Kuleshov, Elena Krasilova

| 9:00 am – | Tvardovskiy Aleksandr, Tomsk State University, Tomsk, Russia, Timed Finite State |
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| 9:15 am | Machines Test Derivation |
| 9:15 am – 9:30 am | Maksim Gromov, Tomsk State University, Tomsk, Russia, Toward Digital Expert |
| 9:30 am – | Aleksandr Kireev, Tomsk State University, Tomsk, Russia, Anthropomorphic |
| 9:45 am | Manipulator |
| 9:45 am – 10:00 am | Nikolaj Yudin, Tomsk State University, Tomsk, Russia, The Copper-vapor Laser with a Pump efficiency of $\sim 3\%$ for Medicine |
| 10:00 am - | Andrey Laputenko, Tomsk State University, Tomsk, Russia, Testing Microcontroller |
| 10:15 am | Based Cyber Physical Systems Using Timed Automata |
| 10:15 am – | Olesya Kuchinskaya, Tomsk State University, Tomsk, Russia, Position Control of Laser |
| 10:30 am | Beams Multiple Filamentation on the Atmospheric Path |
| 10:30 am - 11:00 am | Coffee Break and Networking |

September 22, Friday, Afternoon

Fabrication of Nanostructured Materials and Devices II Chairs: Alexey Kovalgin and Tatyana Kopylova

| 2:00 pm - | William Petuskey, Arizona State University, Tempe, Arizona, USA, Morphology, Low- |
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| 2:30 pm | Temperature Fabrication of nano-Ceramics with New Functionality |
| 2:30 pm – 3:00 pm | Damir Islamov, Institute of Semiconductor Physics, Novosibirsk, Russia, Influence of ALD Synthesis Conditions on the Trap Density in Thin Films of Hafnium Oxide |

| 3:00 pm – 3:30 pm | Vyacheslav Timofeev, Rzhanov Institute of Semiconductor Physics, Novosibirsk, Russia, Morphology, Structure and Optical Properties of Semiconductor Films with GeSiSn Nanoislands and Strained Layers |
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| 3:30 pm - 4:00 pm | Coffee Break and Networking |
| 4:00 pm - 4:30 pm | Emine Guneri, Erciyes University, Kayseri, Turkey The Structural, Optical and Electrical Properties of SnO2 Nano thin Films Deposited By Spin Coating |
| 4:30 pm – 5:00 pm | Felipe Perez Rodriguez, Benemerita Universidad Autonoma de Puebla, Puebla, Mexico, Magnetic Response of Fe and Ni Nanoparticles Embedded in Artificial SiO2 Opals |
| 5:00 pm – 5:30 pm | Arturo Rodríguez-Gómez, Universidad Nacional Autonoma de Mexico, Mexico, The auto-formation of silicon quantum dots embedded in a silicon nitride matrix on the |
| | Technology Innovations II Chairs: Olga Babkina and Konstantin Belyakov |
| 2:00 pm – 2:15 pm | Nikolay Evseev, Tomsk State University, Tomsk, Russia, Technology of High-purity Aluminum Nitride Production by Self-propagating High-temperature Synthesis |
| 2:15 pm - 2:30 pm | Ruslan Gadirov, Tomsk State University, Tomsk, Russia, Inkjet Printing of Organic Materials and Devices |
| 2:30 pm – 2:45 pm | Grigoriy Kuleshov, Tomsk State University, Tomsk, Russia, Broadband Protective Coating to Reduce the Level of Electromagnetic Radiation of the Gigahertz Range Supplimentary materials |
| 2:45 pm – 3:300 pm | Roman Malakhov, ZOOM, Tomsk, Russia, Distributed Road Traffic Monitoring Network |
| 3:00 pm – 3:15 pm | Rail Satarov, Tomsk State University, Tomsk, Russia, Positioning for People Behind Barriers in Real Time with System «DOZOR-400» |
| 3:15 pm – 3:30 pm | Vladimir Yurin, Tomsk State University, Tomsk, Russia, Multiwave Laser Cutting of Thin Glasses |
| 3:30 pm – 4:00 pm | Coffee Break and Networking |
| 4:00 pm - 6:00 pm | Round Table on Technology Innovations Commercialization |