

<b>Sunday, 29 April 2012</b>	
3:00 – 6:00 pm	<i>Early Registration / Check-In</i>
4:00 – 6:00 pm	<i>Horseback Riding / Dinner (Optional social event)</i>
<b>Monday, 30 April 2012</b>	
7:00 – 8:00 am	<i>Registration &amp; Continental Breakfast</i>
7:00 am – 4:00 pm	<i>Registration Open</i>
8:00 – 8:20 am	<b>Introductory Remarks</b> <i>Dr. Claude R. Phipps, Photonic Associates, LLC</i>
8:20 – 8:35 am	<b>Special Remarks by</b> <i>Dr. Donald Pettit, Astronaut</i>
<b>Session 1: Plenary / Keynote</b> <b>Session Chair: Dr. Claude R. Phipps, Photonic Associates, LLC (United States)</b>	
8:35 – 8:40 am	<b>Keynote Speaker Introduction</b> <i>Dr. Claude R. Phipps, Photonic Associates, LLC</i>
8:40 – 9:20 am	<b>Keynote 1</b> <b>Recent Results at the LLNL NIF Facility (provisional title)</b> <i>Dr. Richard Barty, Lawrence Livermore National Laboratory</i>
9:20 – 9:25 am	<b>Keynote Speaker Introduction</b> <i>Dr. Claude R. Phipps, Photonic Associates, LLC</i>
9:25 – 10:05 am	<b>Keynote 2</b> <b>Laser Processing of Materials Based on Microscopic Properties</b> <i>Prof. Richard Haglund, Jr., Vanderbilt University</i>
<b>10:05 – 10:25 am</b>	<b>Refreshment Break</b>
<b>Session 2: Ultrashort Pulse Effects</b> <b>Session Chair: Dr. Klaus Sokolowski-Tinten, University of Duisburg-Essen (Germany)</b>	
10:25 – 10:30 am	<b>Session Segue</b>
10:30 – 10:55 am	<b>Femtosecond Laser Excitation of Dielectric Materials: Optical Properties and Ablation</b> <i>Prof. Peter Balling, Aarhus University</i>
10:55 – 11:20 am	<b>Material and Environmental Parameters Affecting Subpicosecond Dielectric Breakdown</b> <i>Prof. Wolfgang Rudolph, University of New Mexico</i>
11:20 – 11:45 am	<b>High-Performance Laser Processing Using Manipulated Ultrafast Laser Pulses</b> <i>Dr. Koji Sugioka, RIKEN - Advanced Science Institute</i>
11:45 – 12:10 am	<b>Moving Through the Dimensions: Developments in Femtosecond Direct-Write Techniques</b> <i>Dr. Graham Smith, Macquarie University</i>
12:10 – 12:35 pm	<b>Photoionization of Transparent Materials by Ultrashort Laser Pulses: Monochromatic vs. Non-Monochromatic Approximation</b> <i>Prof. Vitaly Gruzdev, University of Missouri</i>
12:35 – 12:50 pm	<b>Ultra-Fast Material Transformation Guided by Temperature and Field Dependent Electron-Phonon Relaxation</b> <i>Dr. Eugene Gamaly, Australian National University</i>
12:50 – 1:15 pm	<b>Seeded Optical Breakdown of Molecular and Noble Gases</b> <i>Dr. Pavel Polynkin, University of Arizona</i>
<b>1:15 – 2:45 pm</b>	<b>Lunch (on your own)</b>

<b>Session 3: Simulations</b> <b>Session Chair: Prof. Leonid Zhigilei, University of Virginia (United States)</b>	
2:45 – 2:50 pm	<b>Session Segue</b>
2:50 – 3:15 pm	<b>The Effect of the Target Structure and Composition on the Ejection of Polymer Molecules and Carbon Nanotubes in Matrix-Assisted Pulsed Laser Evaporation: Molecular Dynamics Simulation Study</b> Prof. Leonid Zhigilei, University of Virginia
3:15 – 3:40 pm	<b>Two-Temperature Thermodynamic and Kinetic Properties of Transition Metals Irradiated by Femtosecond Lasers</b> Dr. Nail Inogamov, Landau Institute for Theoretical Physics, Russian Academy of Sciences
<b>3:40 – 4:00 pm</b>	<b>Refreshment Break</b>
4:00 – 4:15 pm	<b>Electron-Pressure Effects in Femtosecond Laser Ablation of Nickel</b> Dr. Brian Demaske, University of South Florida
4:15 – 4:30 pm	<b>Femtosecond Laser Interactions with Semiconductor and Dielectric Materials</b> Dr. Tatiana Itina, National Center for Scientific Research (CNRS)
4:30 – 4:45 pm	<b>Absorption Dynamics of a Femtosecond Laser Pulse at the Surface of Dielectrics</b> Mr. Maxime Lebugle, Laboratory Lasers, Plasma, and Photonic Methods
4:45 – 5:00 pm	<b>Super-Elastic Response of Metals to Laser-Induced Shock Waves</b> Dr. Vasily Zhakhovsky, University of South Florida
5:00 – 5:25 pm	<b>Physical Characterization of Laser Interaction and Shock Generation in Laser Shock Processing: Coupled Theoretical-Experimental Analysis</b> Prof. José Ocaña, Polytechnic University of Madrid
5:25 – 5:30 pm	<b>Chairman's End of Day Remarks</b>
<b>5:30 pm</b>	<b>Session Adjourn for the Day</b>
5:30 – 7:15 pm	<b>Poster Session (before dinner)</b>

**Monday, 30 April, Poster Session, Chair: Michel Autric, University of the Mediterranean (France)**  
**Poster Titles & Presenters**

Investigation and Improvements of Flatbed Laser Engravers and Cutters	Dr. Joachim Aichinger, Upper Austrian Laser Center
Strength of Metals in Liquid and Solid States at Extremely High Tension Produced by Femtosecond Laser Heating	Dr. Sergei Ashitkov, Joint Institute for High Temperatures, Russian Academy of Sciences
Characterisation of Particules Impact Accelerated by Shock Produced by Laser: Application to Dynamic Fabrication of Coatings	Dr. Laurent Berthe, National Center for Scientific Research (CNRS)
Combinatorial Pulsed Laser Deposition of Indium Zinc Oxide Films for Transparent Electronics Applications	Dr. Valentin Craciun, University of Florida
Optodynamic Monitoring of Pulsed Laser Materials Processing	Dr. Janez Diaci, University of Ljubljana
Laser Shock Waves: A Way to Test and Damage Composite Materials for Aeronautic Applications	Mr. Romain Ecault, National Center for Scientific Research (CNRS)
Laser Cutting of LiNbO <sub>3</sub> Crystal	Dr. Stepan Essaian, Spectralus Corporation
Ultra Short Laser Pulse Ablation of Hard Multilayered Coatings	Dr. Biljana Gakovic, Vinca Institute for Nuclear Physics
Rare-Surface Micro-Defects and Structures Produced by Femtosecond Laser Pulses During Through-Drilling/Cutting of Glass Slides	Dr. Vitaly Gruzdev, University of Missouri
The Development of Powerful Lasers in the USSR	Prof. Victor Gurashvili, Troitsk Institute for Innovation & Fusion Research
Comparative Study of Femtosecond and Nanosecond Laser Ablation for Propulsion Applications	Dr. Andrey Ionin, Lebedev Physical Institute
Acousto-Optical Intra Cavity Control UV Laser for GaN-Sapphire Cut	Dr. Mishik Kazaryan, Lebedev Physical Institute
Wavelength Optimization in Dense Wavelength Division Multiplexing (D.W.D.M) to Enhance Free-Space Optical Communication (F.S.O.)	Mr. Osama Khalil, Egyptian Armed Forces
Self-Limited Ionization of GaAs at High Femtosecond Laser Intensities	Dr. Sergey Kudryashov, Lebedev Physical Institute
Small-Scale Reactor Based on Laser Nuclear Fusion	Dr. Anatoly Nastoyashchiy, Troitsk Institute for Innovation and Fusion Research
Modified Absorption Law and Parabolic Concentrations	Mr. Benjamin Oh, The Ohio State University
Imprinting Local Field Structure of Focused Ultra-short Laser Pulses	Dr. Andrei Rode, Australian National University
In-situ and Ex-situ Ripples Formation on Copper Thin Films Induced by Nano and Picosecond Pulsed Lasers	Dr. Nadjib Semmar, University of Orleans
Laser for Carbon NanoTubes: From the PLD Deposition of the Catalytic Layer to the Thermal Characterization by Nanosecond Pulsed Laser	Dr. Nadjib Semmar, University of Orleans
Laser Micro-Cutting of Wide Band Gap Materials	Dr. Nadjib Semmar, University of Orleans
Synthesis of Oxidation Resistant Lead Nanoparticle Films by Modified Pulsed Laser Ablation	Dr. Eunsung Shin, University of Dayton Research Institute
Ablation of Carious and Non-Carious Dentin with Femtosecond Lasers	Dr. Rui Vilar, Higher Technical Educational Institute
VUV 157nm Laser Ablation of Spherical Particles and Modelling of Resonant Cavity Structures	Dr. Christopher Walton, University of Hull

**Tuesday, 1 May 2012**

7:00 – 8:00 am	Continental Breakfast
7:00 am – 4:00 pm	Registration Open
<b>Session 4: Fundamental Physics of Laser-Materials Interactions</b> <b>Session Chair: Dr. Boris Luk'yanchuk, Data Storage Institute ASTAR (Singapore)</b>	
7:30 – 7:35 am	<b>Session Segue</b>
7:35 – 8:00 am	<b>Plasma Plume Effects in Initiation of the Phase-Explosion Regime of Pulsed Laser Ablation</b> Dr. Alexander Bulgakov, Institute of Theoretical and Applied Mechanics SB RAS
8:00 – 8:25 am	<b>Driving Forces for Self-Organization in Thin Metal Films During Their Partial Ablation with a Cylindrically Focused Laser Beam</b> Dr. Gediminas Raciukaitis, Center for Physical Sciences and Technology
8:25 – 8:40 am	<b>Femtosecond Laser Ablation of Carbon: From Spallation to Formation of Hot Critical Plasma</b> Dr. Sergey Kudryashov, P.N. Lebedev Physical Institute
8:40 – 9:05 am	<b>A Study on Matrix Assisted Pulsed Evaporation (MAPLE) of Organic Materials</b> Prof. Jørgen Schou, Technical University of Denmark, The Department of Photonics Engineering, Risø Campus
9:05 – 9:20 am	<b>High-Order Optical Harmonic Generation as a Process of Single Atom Interaction with Sub-Relativistic Single- and Multicolor Laser Fields</b> Dr. Sergey Stremoukhov, International Laser Center of M.V.Lomonosov, Moscow State University
<b>9:20 – 9:40 am</b>	<b>Refreshment Break</b>
9:40 – 9:55 am	<b>Generation of Point Defects in Femtosecond Laser Interactions with Cr and Ni Targets</b> Dr. Eaman Abdul Karim, University of Virginia
9:55 – 10:10 am	<b>Interferometric Measurement of Melt Depth in Silicon using Femtosecond Infrared Cr:Forsterite Laser</b> Dr. Mikhail Agranat, Joint Institute for High Temperatures of Russian Academy of Sciences
10:10 – 10:35 am	<b>Fundamental Studies of Laser Dielectric Interaction</b> Dr. Stephane Guizard, Laboratory of Irradiated Solids
<b>Session 5: Promising New Laser and Optical Technologies</b> <b>Session Chair: Dr. William Latham, Air Force Research Laboratory (United States)</b>	
10:35 – 10:40 am	<b>Session Segue</b>
10:40 – 11:05 am	<b>Acoustically Driven Liquid Lenses for Structuring Light Fields in Laser Processing and Imaging</b> Prof. Craig Arnold, Princeton University
11:05 – 11:20 am	<b>Two and Three Dimensional Elemental Mapping with fs-Laser</b> Dr. Roland Hergenröder, Leibniz-Institute for Analytical Sciences (ISAS)
11:20 – 11:35 am	<b>Excimer Laser Activation of Ultra-Shallow Junctions in Doped Si: Modeling, Experiments and Real-Time Process Monitoring</b> Dr. Nadjib Semmar, University of Orleans
11:35 am – 12:00 pm	<b>Nonlinear Laser Plasma Interactions in Laser Fusion</b> Dr. Bob Bingham, Rutherford Appleton Laboratory
12:00 – 12:15 pm	<b>Laser Shocks: A Tool for Experimental Simulation of Damage into Materials</b> Dr. Michel Boustie, National Center for Scientific Research (CNRS)

12:15 – 12:40 pm	<b>Dynamic Phenomena and Quality Defects in Laser Cutting</b> Dr. Dieter Schuöcker, Upper Austrian Laser Center
12:40 – 12:55 pm	<b>Advantages of Dual-Laser Ablation in the Growth of Multicomponent Thin Films</b> Dr. Sarath Witanachchi, University of South Florida
<b>12:55 pm – 2:25 pm</b>	<b>Lunch (on your own)</b>
<b>Session 6: PLD, MAPLE and Processing of Advanced Materials</b> <b>Session Chair: Prof. Armando Luches, University of Salento, Department of Physics (Italy)</b>	
2:25 – 2:30 pm	<b>Session Segue</b>
2:30 – 2:55 pm	<b>Nanoparticle and Nanorod Films Deposited by Matrix Assisted Pulsed Laser Evaporation</b> Prof. Armando Luches, University of Salento
2:55 – 3:20 pm	<b>RIR-MAPLE Deposition of Conjugated Polymers and Hybrid Nanocomposites for Application to Optoelectronic Devices</b> Dr. Adrienne Stiff-Roberts, Duke University
3:20 – 3:45 pm	<b>TBD</b>
3:45 – 4:10 pm	<b>Strain Effects of SrRuO<sub>3</sub> Bottom Electrode Thickness on the Nanoscale Switching Characteristics of Multiferroic BiFeO<sub>3</sub> Thin Films</b> Dr. Feng Yan, Drexel University
<b>4:10 – 4:30 pm</b>	<b>Refreshment Break</b>
4:30 – 4:55 pm	<b>Pulsed Laser Deposition of Very Thin and Hard Films and Multilayers</b> Dr. Valentin Craciun, University of Florida
4:55 – 5:10 pm	<b>Laser Direct Printing for Inter-Connectivity and Manufacturing of Organic Electronic Components</b> Dr. Anne-Patricia Alloncle, National Center of Scientific Research France - Laser Plasma and Photonic Processes Laboratory
5:10 – 5:25 pm	<b>Laser Printing of Polymer Based Micro-Transistors</b> Dr. Kamalpreet Kaur, University of Virginia
5:25 – 5:30 pm	<b>Chairman's End of Day Remarks</b>
<b>5:30 pm</b>	<b>Session Adjourn for the Day</b>

**Wednesday, 2 May 2012**

7:00 – 8:00 am	Continental Breakfast		
7:00 am – 4:00 pm	Registration Open		
<b>AM Parallel Sessions</b>			
	<b>Room A</b>		<b>Room B</b>
<b>Time</b>	<b>Session 7: Nanoengineering and Processing on Nanometer Scales Session Chair: Dr. Boris Chichkov, Laser Zentrum Hannover (Germany)</b>	<b>Time</b>	<b>Session 8: Space Debris Remediation Session Chair: Dr. Stephen Libby, Lawrence Livermore National Laboratory (United States)</b>
7:30 – 7:35 am	<b>Session Segue</b>	7:30 – 7:35 am	<b>Session Segue</b>
7:35 – 8:00 am	<b>Ultrafast Laser Control of Dynamical Processes in Material Processing</b> Dr. Thomas Baumert, Institute of Physics and Cinsat, University of Kassel	7:35 – 8:15 am	<b>Keynote 3 Space Flight Safety and Debris Management</b> Dr. Stewart Cameron, Organization TBD
8:00 – 8:25 am	<b>Femtosecond Laser-Induced Periodic Surface Structures</b> Dr. Jörn Bonse BAM Federal Institute for Materials Research and Testing	8:15 – 8:40 am	<b>Space Debris Clearing: Myth and Reality</b> Dr. Willy Bohn, BohnLaser Consult
8:25 – 8:50 am	<b>Laser Nanostructuring of Polymers: Ripples and Applications</b> Dr. Marta Castillejo, Institute of Chemical Physics Rocasolano, CSIC	8:40 – 9:05 am	<b>Laser-Matter Interaction Experiments at the JANUS Laser Facility</b> Dr. Kevin Fournier, Lawrence Livermore National Laboratory
8:50 – 9:15 am	<b>Towards Diffraction-Unlimited Three-Dimensional Laser Lithography</b> Mr. Joachim Fischer, Karlsruhe Institute of Technology (KIT)	9:05 – 9:30 am	<b>Laser System for Space Debris Cleaning</b> Dr. Alexander Rubenchik, Lawrence Livermore National Laboratory
9:15 – 9:40 am	<b>Sub- and Near-Threshold Femtosecond Laser Nanostructuring of Solid Surfaces</b> Dr. Andrey Ionin, Lebedev Physical Institute of Russian Academy of Sciences	9:30 – 9:55 am	<b>Modeling Kessler Syndrome Using Brute Force Approach</b> Dr. Sergei Nikolaev, Lawrence Livermore National Laboratory
9:40 – 10:05 am	<b>Black and Colored Metals and their Applications</b> Prof. Chunlei Guo, University of Rochester	<b>9:55 – 10:15 am</b>	<b>Refreshment Break</b>
<b>10:05 – 10:25 am</b>	<b>Refreshment Break</b>	10:15 – 10:40 am	<b>Removing Orbital Debris with Lasers</b> Dr. Claude Phipps, Photonics Associates, LLC
10:25 – 10:40 am	<b>Semiconductor Quantum Dots by Femtosecond Laser Deposition</b> Mr. Ibrahim Oraiqt, University of Michigan	10:40 – 11:05 am	<b>Orbital Debris Remediation: Technical, Economic and Policy Issues</b> Dr. John Remo, Harvard University
10:40 – 10:55 am	<b>Non-Chemical Influence of the Liquid on the Au Nanoparticles Formation Process under Laser Ablation</b> Dr. Vladimirovich Kazakevich, P.N. Lebedev Physical Institute of Russian Academy of Sciences	11:05 – 11:30 am	<b>LightForce: Orbital Collision Avoidance Using Ground-Based Laser Induced Photon Pressure</b> Dr. Jan Stupl, NASA Ames Research Center
10:55 – 11:20 am	<b>Electronic Excitation Mediated Structuring of Semiconductor Oxides</b> Dr. Andrei Kanaev, National Center for Scientific Research (CNRS)	<b>11:30 am – 1:00 pm</b>	<b>Lunch (on your own)</b>
11:20 – 11:45 am	<b>Three-Dimensional Simulations of Bulk Dielectric Modification and Ablation from Dielectric Surfaces by Femtosecond Laser Pulses</b> Dr. Konstantin Popov, University of Ottawa		
11:45 – 12:00 pm	<b>The Role of Asymmetric Excitation in Self-Organized Nanostructure Formation upon Femtosecond Laser Ablation</b> Dr. Juergen Reif, BTU Cottbus		

12:00 – 1:25 pm	Lunch (on your own)		
<b>PM Parallel Sessions</b>			
	<b>Room A</b>		<b>Room B</b>
<b>Time</b>	<b>Session 9: Frontiers of Materials Characterization</b> <b>Session Chair: Dr. Nigel Browning, Pacific Northwest National Laboratory (United States)</b>	<b>Time</b>	<b>Session 10: Biological Applications</b> <b>Session Chair: Dr. Jack Yoh, Seoul National University (South Korea)</b>
1:25 – 1:30 pm	<b>Session Segue</b>	1:00 – 1:05 pm	<b>Session Segue</b>
1:30 – 1:55 pm	<b>Laser Process Monitoring and Automatic Control at KHz Rates through Inline Coherent Imaging</b> Dr. James Fraser, Queen's University	1:05 – 1:30 pm	<b>A Laser Syringe Aimed at Delivering Drug into the Outer Layer of Human Skin</b> Dr. Jack Yoh, Seoul National University
1:55 – 2:20 pm	<b>Characterization of High Temperature Mechanical Properties Using Laser Ultrasound</b> Dr. David Hurley, Idaho National Laboratory	1:30 – 1:55 pm	<b>Laser-Based Micro- and Nanofabrication for Applications in Photonics and Biomedicine</b> Dr. Boris Chichkov, Laser Zentrum Hannover
2:20 – 2:45 pm	<b>Optimized Thermal Pulsing of Atom Probe Tomography with Ultra-Short-Pulse Lasers</b> Dr. Thomas Kelly, Cameca Instruments, Inc.	1:55 – 2:20 pm	<b>MAPLE Deposited Polymeric Blends Coatings for Controlled Drug Delivery</b> Dr. Maria Dinescu, The National Institute for Laser, Plasma, and Radiation Physics (NILPRP)
2:45 – 3:10 pm	<b>Ultrafast Terahertz/X-Ray Studies of Solids</b> Prof. Aaron Lindenberg, Stanford University	2:20 – 2:35 pm	<b>Biomedical and Biotechnology Applications of a Noncontact Femtosecond Laser Microsurgery of Living Cells</b> Dr. Inna Ilina, Joint Institute for High Temperatures of the RAS
3:10 – 3:35 pm	<b>White-Light Optical Nanoscopy at 50nm Resolution</b> Dr. Zengbo Wang, The University of Manchester	2:35 – 2:50 pm	<b>TBD</b>
3:35 – 3:55 pm	<b>Refreshment Break</b>	<b>Time</b>	<b>Session 11: Microscopic Relaxation Phenomena</b> <b>Session Chair: Dr. Baerbel Rethfeld, University of Kaiserslautern (Germany)</b>
3:55 – 4:10 pm	<b>Invariance of the Dissipative Action at Ultrahigh Strain Rates above the Strong Shock Threshold</b> Dr. Jonathan Crowhurst, Lawrence Livermore National Laboratory	2:50 – 2:55 pm	<b>Session Segue</b>
4:10 – 4:25 pm	<b>Molecular Dynamics Simulations Studies of Laser Ablation in Metals</b> Dr. Johannes Roth, University of Stuttgart	2:55 – 3:20 pm	<b>Electron-Ion Temperature Equilibration in Solid-Density Matter</b> Dr. Dirk Gericke, University of Warwick
<b>Time</b>	<b>Session 12: Miscellaneous New Physics</b> <b>Session Chair: Dr. Andrey Ionin, Lebedev Physical Institute of Russian Academy of Sciences (Russia)</b>	3:20 – 3:45 pm	<b>Modeling Ultrafast Electronic Processes in Solids Excited by Femtosecond VUV-XUV Laser Pulse</b> Dr. Nikita Medvedev, Center for Free-Electron Laser Science at DESY
4:25 – 4:30 pm	<b>Session Segue</b>	3:45 – 4:05 pm	<b>Refreshment Break</b>
4:30 – 4:55 pm	<b>Laser Synthesis of Micro/Nanostructured Carbon Materials</b> Dr. Yongfeng Lu, University of Nebraska-Lincoln	4:05 – 4:30 pm	<b>Molecular Dynamics Based Modeling of Laser Surface Patterning: Thermal vs. Mechanical Damage</b> Dr. Dmitriy Ivanov, Institute for Laser Technologies Fraunhofer
4:55 – 5:10 pm	<b>Time-Resolved Study of FS Laser-Induced Plasma in Bulk <math>\alpha</math>-SiO<sub>2</sub></b> Dr. Alexandre Mermillod-Blondin, Max-Born-Institute, Berlin	4:30 – 4:55 pm	<b>Creation of Warm Dense Matter by Confined FS-Laser Induced Micro-Explosion</b> Dr. Andrei Rode, Australian National University
5:10 – 5:25 pm	<b>Titanium Monoxide Molecular Spectroscopy Following Laser-Induced</b>	4:55 – 5:20 pm	<b>Exploring Warm Dense Matter by Innovative XUV and X-ray Plasma Spectroscopy</b>

	<b>Optical Breakdown</b> <i>Dr. Christian Parigger, University of Tennessee Space Institute</i>		<i>Dr. Ulf Zastra, Institute for Optics and Quantum Electronics, FSU Jena</i>
		5:20 – 5:35 pm	<b>Laser Excited Metals Under Non-Equilibrium Conditions</b> <i>Mr. Benedikt Mueller, Technical University Kaiserslautern</i>
6:00 – 8:00 pm	<b>Group Dinner</b>		

**Thursday, 3 May 2012**

7:00 – 8:00 am	Continental Breakfast
7:00 – 4:00 pm	Registration Open
<b>Session 13: Laser Ablation &amp; Beamed Energy Propulsion</b> <b>Session Chair: Dr. Claude Phipps, Photonics Associates, LLC (United States)</b>	
8:00 – 8:05 am	Session Segue
8:05 – 8:30 am	<b>Laser Ablation Investigations for Future Microthrusters</b> Dr. Hans-Albert Eckel, German Aerospace Center
8:30 – 8:55 am	<b>Molecular Formation in Laser Induced Plasma and its Influence on Laser Ablation Molecular Isotopic Spectrometry (LAMIS)</b> Dr. Inhee Choi, Lawrence Berkeley National Laboratory (UC-Berkeley)
8:55 – 9:10 am	<b>A Multiphase Model for Pulsed Ns-Laser Ablation of Copper in an Ambient Gas</b> Mr. David Autrique, University of Kaiserslautern
9:10 – 9:25 am	<b>Super Long Conductive Channel for Energy Transmission</b> Dr. Victor Apollonov, General Physics Institute of the Russian Academy of Sciences (GPI RAS)
9:25 – 9:45 am	Refreshment Break
9:45 – 10:10 am	<b>High-Power Laser Propulsion</b> Dr. Yuri Rezunkov, Research Institute for Complex Testing of Optic-Electronic Devices
10:10 – 10:25 am	<b>Study Status of Liquid Propellants for Continuous and Pulsed Wave Laser Propulsion</b> Dr. Xiuqian Li, The Academy of Equipment Command & Technology
10:25 – 10:40 am	<b>Nonlinear Optical Properties of Binary and Ternary Silicate Glasses Upon Near-infrared Femtosecond Pulse Laser Irradiation</b> Mr. Moritz Grehn, Berlin Institute of Technology
10:40 – 10:55 am	<b>Deposition of Intermediate (Barrier) Coatings of Silicon and Germanium on Steel, Titanium or Aluminum Substrates Using Laser Ablation</b> Dr. Anatoliy Rodin, Troitsk Institute for Innovation and Fusion Research
10:55 – 11:10 am	<b>Beamed Energy Methods to Reducing the Cost to GEO to \$100/kg</b> Mr. Keith Henson, L5 Society
<b>Session 14: Panel Session</b> <b>Session Chair: Prof. Leonid Zhigilei, University of Virginia (United States)</b>	
11:10 am – 12:20 pm	Panel Discussion (Panelists TBD)
12:20 – 2:20 pm	Lunch (on your own)
<b>Session 15: High Power Lasers, Applications and Diagnostics</b> <b>Session Chair: Mr. Mike Lander, UES (United States)</b>	
2:20 – 2:25 pm	Session Segue
2:25 – 2:50 pm	TBD
2:50 – 3:05 pm	<b>High Energy Laser Diagnostic Sensors</b> Dr. James Luke, The AEGIS Technologies Group
3:05 – 3:30 pm	<b>Energy Gain for Deuteron Beam Fast Ignition of a Pre-Compressed Inertial Confinement Fusion (ICF) Target</b> Dr. George Miley, University of Illinois
3:30 – 3:45 pm	<b>Method of Laser Resonance Fluorescence for Local Measurements of Ion Temperature and Electric Fields</b> Dr. Anatoly Nastoyashchiy, RF RSC Troitsk Institute for Innovation and Fusion Research
3:45 – 4:00 pm	<b>Pulsed CO Laser for Isotope Separation of Uranium</b>

	<i>Dr. Igor Baranov, Baltic State Technical University</i>
<i>4:00 – 4:15 pm</i>	<b><i>Chairman's Closing Remarks</i></b>
<i>4:15 pm</i>	<b><i>Conference Adjourns</i></b>