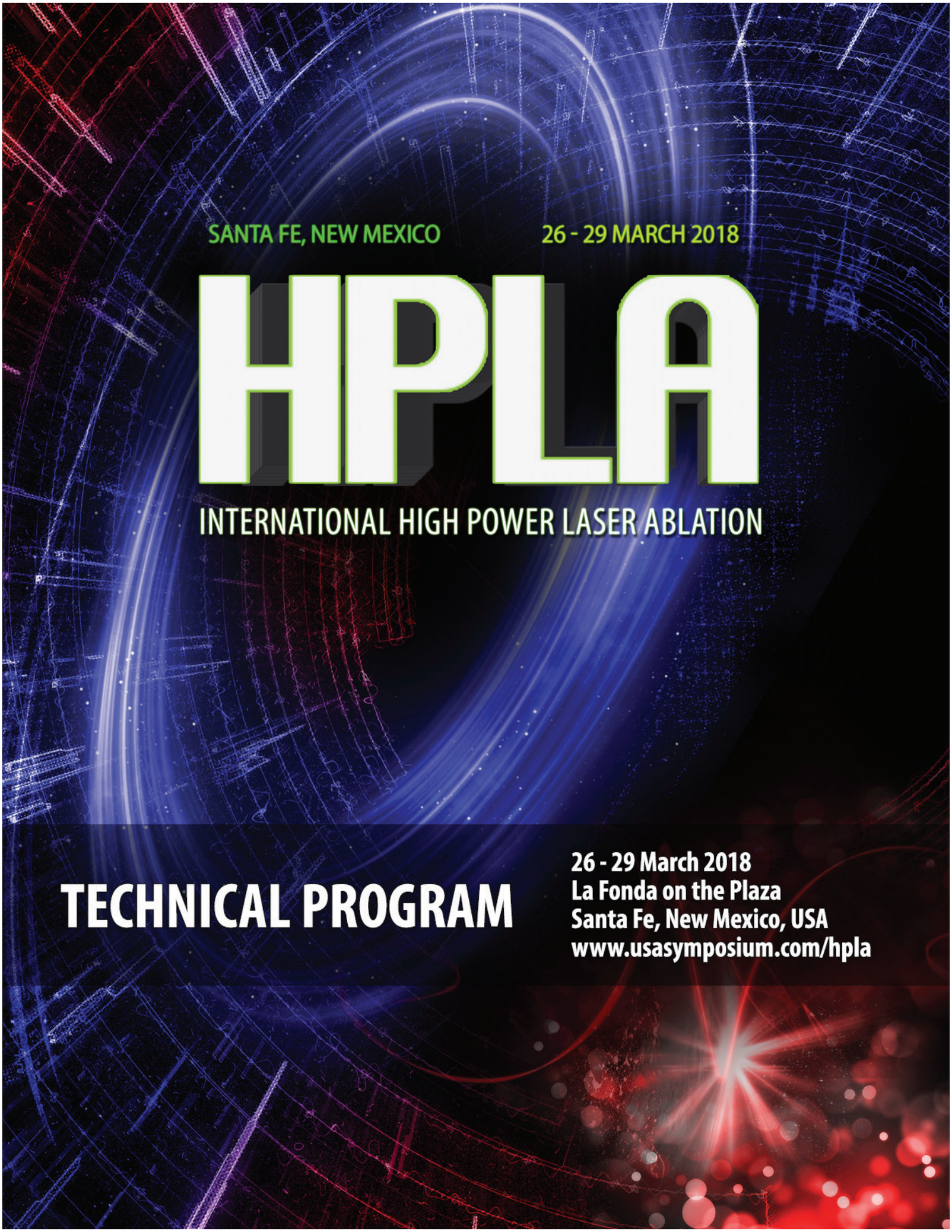

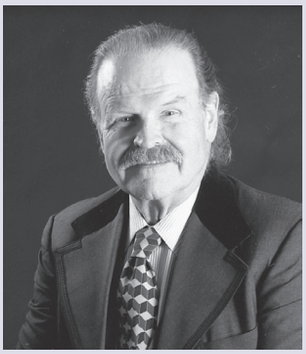

Conference Chair

Dr. Claude R. Phipps
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Santa Fe, NM (USA)

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Conference Attire

Attire for the HPLA Conference is business casual.

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Prof. Takashi Yabe, Tokyo Institute of Technology (Japan)

Prof. Leonid Zhigilei, University of Virginia (USA)

Dr. Fred Zutavern, Sandia National Laboratory (USA)

Agenda | At-A-Glance

Sun, 25 March 2018

1400 – 1530 | **Santa Fe - A Sense of Place Walking Tour**

1500 – 1800
Early Check-In & Badging

Location Key:

Registration is located in the Mezzanine

Table-Top Exhibits are located in the Mezzanine

Technical Sessions are located in Lumpkins Ballrooms

Posters are located in the New Mexico Room

Wednesday's Dinner will be held in La Terraza and the Garden Patio

Welcome Reception is located in the New Mexico Room

Mon, 26 March 2018

0700 – 0800 | Light Continental Breakfast

0700 – 1730 | Registration Open

1615 – 1730 | Posters & Exhibits Open

0800 – 0815 | Welcome & Administrative Announcements

0815 – 0900 | **Keynote: Mr. Frédéric Masson, CNES**

0905 – 1025/1000
Track One: **Laser Modification of Surface Microstructure and Morphology**
Track Two: **Next Generation Beamed Energy Propulsion**

1025/1000 -1050 | Break

1050 – 1215
Track One & Two: **Continued**

1215 – 1345 | Lunch Break

1345 – 1505
Track One: **Laser Induced Shock Applications**
Track Two: **Femtosecond Repetitive Action on Materials**

1505 – 1530 | Break

1530 – 1600/1615
Track One & Two: **Continued**

1615 – 1730 | **Welcome Reception & Poster and Exhibit Technical Interchange**

Tue, 27 March 2018

0700 – 0800 | Light Continental Breakfast

0700 – 1715 | Registration Open

0700 – 1125 | Exhibits & Posters Open & 1300 - 1715

0800 – 0810 | Administrative Announcements

0810 – 0850 | **Keynote: Prof. Thomas Lippert, Paul Scherrer Institut**

0855 – 1010
Track One: **Ultrafast Materials Processing**
Track Two: **Space Debris Removal and Asteroid Impact Mitigation Strategies**

1010 – 1040 | Break

1040 - 1125 | **Keynote: Dr. Antonio Lucianetti, HiLASE Centre**

1125 – 1300 | Lunch Break

1300 – 1445/1450
Track One: **Theory and Simulation**
Track Two: **Post-Deadline Session**

1445/1450 – 1515 | Break

1515 – 1715
Track One: **Continued**
Track Two: **Panel: The Business Side of High Power Beam Applications**

Wed, 28 March 2018

0700 – 0800 | Light Continental Breakfast

0700 – 1730 | Registration Open

0700 – 1155 | Exhibits & Posters Open & 1330 - 1730

0800 – 0810 | Administrative Announcements

0810 – 0850 | **Keynote: Dr. David Moore, Los Alamos National Laboratory**

0855 – 1015/1035
Track One: **Laser Materials Interactions in a Liquid Environment**
Track Two: **New Results in High Power Lasers and Their Applications**

1015/1035 – 1110 | Break

1110 – 1155 | **Keynote: Mr. Mark Neice, Directed Energy Professional Society**

1155 – 1330 | Lunch Break

1330 – 1505
Track One: **Ultra High Intensity Lasers: From Earth to Cosmos**
Track Two: **Ultrashort Pulse Effects**

1505– 1525 | Break & Final Poster Voting

Wed, 28 March 2018, cont.

1525 – 1635
Track One: **Plasmonics and Metamaterials**
Track Two: **Continued**

1635- 1730
Track One: **Very High Power CW Lasers**
Track Two: **Continued**

1830 - 2130 | **Dinner & Awards Program**

Thu, 29 March 2018

0700 – 0800 | Light Continental Breakfast

0700 – 1220 | Registration Open

0800 – 0805 | Administrative Announcements

0805 – 0855/0925
Track One: **Biological Applications**
Track Two: **Laser Direct Writing**

0855/0925 – 0940 | Break

0940 – 1205/1220
Track One: **Thermal and Mechanical Coupling for Ultrashort Pulses**
Track Two: **MAPLE and Materials Processing**

1800 --> | **Dinner at El Farol,** must RSVP at HPLA Registration Desk (cost on your own)

2018 HPLA Dedication

We dedicate the Conference to our friend, colleague, and Programming Committee Member Jordin T. Kare. Jordin was a physicist and aerospace engineer known for his research on laser propulsion and had a significant impact on beamed power propulsion. In particular, he was responsible for his HX microwave powered rocket; the Mockingbird, a conceptual design for an extremely small (75 kg dry mass) reusable launch vehicle; and was involved in the Clementine lunar mapping mission. Jordin was also known as developer of the Sailbeam interstellar propulsion concept and, in the science fiction fan community, as a composer, performer and recording artist of filk music. Jordin passed away in July and he will be greatly missed.
(October 24, 1956 – July 19, 2017)

Exhibit & Poster Session Hours

Please take time to view the technical posters and table-top exhibits. Posters are located in the New Mexico Room and the table-top exhibits are in the Mezzanine across from the technical sessions. Exhibit & poster hours include:

Monday, 26 March 2018:
1615 – 1730 Welcome Reception & Poster and Exhibit Technical Interchange (Exhibits will be co-located with posters for this.)

Tuesday, 27 March 2018:
0700 – 1125 Exhibits & Posters Open
1300 – 1715 Exhibits & Posters Open

Wednesday, 28 March 2018:
0700 – 1155 Exhibits & Posters Open
1330 – 1730 Exhibits & Posters Open
(Final Poster Voting for Best Poster Ends at 1525)

Table-Top Exhibitors

Amplitude Laser Group - *http://www.amplitude-laser.com*
Amplitude is a leading manufacturer of ultrafast lasers for scientific, medical and industrial applications. From ultrafast industrial fiber lasers to petawatt-class high intensity lasers, Amplitude is focused on helping its customers with advanced solutions. Amplitude offers a unique and distinct product portfolio: diode-pumped ultrafast solid-state lasers, ultra-high energy Ti:Sapphire ultrafast lasers, and a full line of high energy solid state laser products. The group consists of three manufacturing locations in Bordeaux and Paris, France, and San Jose, CA U.S.A., and has an extensive network of support offices in Europe, Asia and North America.

IDIL Fibres Optiques - *http://www.idil.fr*
IDIL is an engineering company specialized in the design, development, manufacturing of fibered systems and optoelectronic solutions: fiber optics, passive and active optical components, fiber lasers, seeder laser source, fiber optic sensors, and Photonic doppler velocimeter (PDV).

Poster Papers

- **Pulse Shaping Femtosecond Laser Beams for Rapid Drilling of High Aspect Ratio Features,** Dr. Michael Abere, Sandia National Laboratory
- **Doping Inclusion in Nanoparticles Using Pulsed Laser Ablation in Liquid,** Dr. David Amans, Université Claude Bernard Lyon 1, CNRS, Institut Lumière Matière
- **High Power High Repetition Rate Pulse-Periodical Lasers,** Prof. Victor Apollonov, GPI RAS
- **Numerical Simulation of Femtosecond Laser Pulse Propagation in Dielectric Materials: Evaluation of the Energy Deposition,** Mr. Romain Beuton, CELIA
- **Electron-Ion Temperature Relaxation in Warm Dense Hydrogen: Interplay Between Quantum Electrons and Coupled Ions,** Prof. Jiayu Dai, National University of Defense
- **Novel Biointerfacing Composite Coatings Obtained by MAPLE for Modulating the Osteoblast Response,** Dr. Valentina Dinca, National Institute for Laser, Plasma and Radiation Physics
- **Laser-Induced Correlative SHG and Fluorescence in a Silver-Containing Phosphate Glass under a Train of Femtosecond Laser Pulses,** Dr. Guillaume Duchateau, CELIA/CEA
- **Collisional-Radiative Modeling of Laser-Induced Aluminum Plasma,** Mr. Eugen Eisfeld, University of Stuttgart
- **Coatings with High Damage Threshold Prepared by Laser Ablation,** Dr. Mihaela Filipescu, National Institute for Laser, Plasma and Radiation Physics
- **Simulations and Experiments on Laser-Induced Phase Transformation and Generation of Crystal Defects in Silicon,** Mr. Miao He, University of Virginia
- **Study of Nano-Composite Formation by Laser Irradiation of Colloidal Suspensions: from Aggregates to Alloys and Core-Shells,** Prof. Tatiana Itina, Laboratoire Hubert Curien, UMR CNRS 5516/Univ. Lyon/UJM and ITMO University
- **Liquid-Liquid Phase Transition of Dense Hydrogen,** Dr. DongDong Kang, National University of Defense Technology

Poster Papers, cont.

- **Linking the Properties of Surface Plasmon Polaritons and the Quality of Laser-Induced Periodic Surface Structures,** Dr. Yoann Levy, HiLASE Centre
- **Numerical Simulation of Short and Ultrashort Pulsed Laser Processing for Industrial Micromachining Applications,** Dr. Zhibin Lin, Electro Scientific Industries
- **Laser-Based Space Debris Removal – Laser-Induced Momentum Generation on True Scale Debris-Like Targets,** Dr. Raoul-Amadeus Lorbeer, German Aerospace Center - Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)
- **Shock Wave Enhanced Ablation,** Dr. Sonny Ly, Lawrence Livermore National Laboratory
- **Dissolution of Secondary Phases by Excimer Laser Processing for Improved Corrosion Resistance of the Mg Alloy AZ31B,** Mr. Michael Melia, University of Virginia
- **Improved Corrosion Resistance of Biodegradable Mg Alloy by Excimer Laser Processing and Pulsed Laser Deposited (PLD) Coatings,** Mr. Michael Melia, University of Virginia
- **Single-Crystalline, Single-Domain Epitaxial Growth of $La_5Ca_9Cu_{24}O_{42}$ Thin Films by Pulsed Laser Deposition,** Dr. Nicolae Mihailescu, National Institute for Laser, Plasma and Radiation Physics
- **Mechanism of Comb-Shape Plasma Filament Formation in Atmospheric Millimeter-Wave Discharge,** Mr. Yusuke Nakamura, The University of Tokyo
- **Effect of the Background Gas Pressure on the Laser-Induced Material Removal from a High-Aspect-Ratio Cavity,** Mr. Austin Palya, University of Alabama
- **Time of Flight Velocity Distributions from UV Ablation of Titanium in He and Ar,** Dr. Glenn Perram, Air Force Institute of Technology
- **Laser Fabrication of Dual-Function Antireflective and Phase Shifting Structures for the THz Spectral Range,** Dr. Gediminas Raciukaitis, Center of Physical Sciences and Technology
- **Cation Doping and Epitaxial Strain Dependence of Functional Properties in Perovskite Thin Films Obtained by Laser Techniques,** Dr. Nicu Doinel Scarisoreanu, National Institute for Laser, Plasma and Radiation Physics
- **Functional Properties of Ferroelectric Lead-Free Perovskites Thin Films,** Dr. Nicu Doinel Scarisoreanu, National Institute for Laser, Plasma and Radiation Physics
- **From Keldysh-Drude Model to Keldysh-Vinogradov Model: Fixing of Some Fundamental Issues,** Dr. Olga Sergaeva, University of Missouri
- **Tamped Impulse Studies,** Dr. Andy Sibley, AWE
- **Picosecond Acoustic Waves in Laser-Excited Metal-Semiconductor Heterostructures Studied by Ultrafast X-Ray Diffraction,** Dr. Klaus Sokolowski-Tinten, University of Duisburg-Essen
- **Substrate Thermal Conductivity Controls Ability to Manufacture Microstructures via Laser-Induced Direct Write,** Mr. John Tomko, University of Virginia
- **Visible Emission Spectra from Mid Infrared Pulsed Ablation of Al and Ti in Air,** Mr. Todd Van Woerkom, Air Force Institute of Technology
- **Mid-IR Femtosecond Ablation of InSb,** Mr. Kevin Werner, The Ohio State University
- **Laser Amplification in Excited Dielectrics (LADIE),** Mr. Thomas Winkler, University of Kassel, Institute of Physics and CINSaT

Networking Opportunities

Sunday, 25 March 2018, 1400-1530
Santa Fe - A Sense of Place Walking Tour
Depart from the La Fonda on the Plaza Lobby
Guests Welcome
Cost: $15 per person, Non-Refundable, Advance Reservations Required

Please join experienced Santa Fe tour guide, Tom Gallegos to explore the cultural vibrancy of the Nation's oldest and highest Capital City. Learn why the cities unique culture, architecture, history and Native/Spanish heritage have resulted in Santa Fe receiving the "World Legacy Award" by the National Geographic Traveler. Tom will share some of his favorite places and ways you can each enjoy your special time here. The tour will last approximately 1.5 hours.

Monday, 26 March 2018, 1615 - 1730
Welcome Reception & Poster and Exhibit Technical Interchange
Location: La Fonda on the Plaza, New Mexico Room
Attendee Only Function

Please plan to join your colleagues for beer, wine, and light appetizers after the technical sessions on Monday. This event provides a dedicated time to look at the outstanding posters in this year's program. Exhibits will be co-located with the posters for this event only, and then can be found upstairs in the Mezzanine across from the technical sessions the remainder of the week.

Wednesday, 28 March 2018, 1830 - 2130
HPLA Dinner & Awards Program
Location: La Fonda on the Plaza, La Terraza and Garden Patio
Guests Welcome (Guest tickets must be purchased in advance at the registration desk.)
Tickets for attendees are included in the registration fee.

Please plan to join your colleagues for dinner and entertainment on Wednesday, 28 March in the beautiful La Terraza. The event will include an Awards Ceremony, dinner, entertainment, and dancing. Dinner tickets are included with the registration fee. Guest tickets can be purchased for $70 in advance. Entertainment will be provided by Wayne Wesley Johnson and the Roger Burns Quartet.

Thursday, 29 March 2018, 1600
Group Dinner at El Farol
Reservations must be made in advance. See HPLA registration desk.
Guests Welcome
Cost: On Your Own
Located at 808 Canyon Rd., Santa Fe, NM 87501

Hailed as Santa Fe's most historic and iconic restaurant and bar, El Farol has provided locals and visitors over a century of memorable experiences. The restaurant features traditional Spanish tapas, small plates that pack big flavor, as well as paella, steaks and daily specials. Patrons enjoy dinner shows featuring the musicians and dancers of the renowned National Institute of Flamenco. The bar, once referred to as, "...one of the best bars on earth!" by The New York Times, features classic margaritas, sangria, signature cocktails, and live music. The walls are graced with murals painted by famous artists, including Alfred Morang. Treat yourself to a truly authentic Santa Fe dining experience at El Farol and dine with your colleagues one final time before heading home.

Detailed Agenda

SUN

Sunday, 25 March 2018

1400 - 1530	**Group Tour - Santa Fe - A Sense of Place Walking Tour** (Meet in La Fonda on the Plaza Lobby. Reservation required.)
1500 - 1800	**Early Check-In** (Mezzanine)

SUN

Monday, 26 March 2018

MONDAY

0700 - 0800	**Light Continental Breakfast** (Mezzanine)		
0700 - 1730	**Registration Open** (Mezzanine)		
1100 - 1530	**Poster & Table-Top Exhibit Set-Up** (New Mexico Room & Mezzanine)		
1615 - 1730	**Posters & Exhibits Open** **Welcome Reception & Poster and Exhibit Technical Interchange** (New Mexico Room)		
	Welcome & Keynote ***Lumpkins Ballroom North***		
0800 - 0815	**Welcome & Administrative Announcements** Conference Chair, Dr. Claude Phipps, Photonic Associates, LLC		
0815 - 0820	**Keynote Introduction** Prof. Leonid Zhigilei, University of Virginia		
0820 - 0900	**Keynote: Advanced Concepts for Space Transportation at CNES** Mr. Frédéric Masson, CNES (Invited)		
0900 - 0905	**Transition to Parallel Sessions**		
	Track One ***Lumpkins Ballroom North*** **Laser Modification of Surface Microstructure and Morphology**		**Track Two** ***Lumpkins Ballroom South*** **Next Generation Beamed Energy Propulsion**
0905 - 0910	**Announcements & Session Introduction** Session Chair: Prof. Leonid Zhigilei, University of Virginia	0905 - 0910	**Announcements & Session Introduction** Session Chair: Dr. Hans-Albert Eckel, German Aerospace Center - DLR, Institute of Technical Physics
0910 - 0935	**Ultrafast Mixing in the Vapor Dome** Prof. Steve Yalisove, University of Michigan (Invited)	0910 - 0935	**Computational Studies for Improving Flight Performance of a Beamed Energy Propulsion** Dr. Masayuki Takahashi, Tohoku University (Invited)
0935 - 1000	**Ultrafast Dynamics of Complete Laser-Induced Structural Transformation** Prof. Chunlei Guo, University of Rochester & CIOMP (Invited)	0935 - 1000	**Implementation of Laser Ablative Microthrusters using MEMS-Scanner and Liquid Lens Systems** Dr. Raoul-Amadeus Lorbeer, German Aerospace Center - Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)
1000 - 1025	**Ultrafast Laser-Induced Periodic Nanostructure Formation and Lattice Defects in Ni Single Crystals** Dr. Jean-Philippe Colombier, Laboratoire Hubert Curien (Invited)		
1025/1000 - 1050	**Break** (Mezzanine)		
1050 - 1115	**Effect of Thermal Diffusion on Precision of the Laser Beam Interference Ablation by Femto-, Pico-, and Nanosecond Pulses in Silicon** Dr. Gediminas Raciukaitis, Center of Physical Sciences and Technology (Invited)	1050 - 1115	**Microwave Rocket Development Status at the University of Tokyo** Mr. Yusuke Nakamura, The University of Tokyo (Invited)
1115 - 1130	**Thermo-Elasto-Plastic Modeling of Femtosecond Laser-Induced Micro-Structures in Fused Silica** Mr. Romain Beuton, CELIA	1115 - 1130	**Pulsed Laser Rockets for Launching Small Payloads into Low Earth Orbit and Interplanetary Space** Dr. Claude Phipps, Photonic Associates, LLC
1130 - 1145	**Laser-Induced Periodic Surface Structure Formation: Numerical Investigation of the Temperature Dynamics in Metals and Dielectrics and Subsequent Stress Build-Up Estimations** Dr. Yoann Levy, HiLASE Centre	1130 - 1145	**Numerical Modeling for Propagation of Subcritical Discharge Observed in a Microwave Rocket** Mr. Kanta Hamasaki, Tohoku University
1145 - 1200	**3D Scanning Electron Microscopy of Mound-Like, Microscale Structures Produced by Femtosecond Laser Surface Processing on Silver** Dr. Edwin Peng, University of Nebraska - Lincoln	1145 - 1200	**Interferometric Method for Isp Determination** Dr. Carlos Rinaldi, Comisión Nacional de Energía Atómica (CNEA); Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)
1200 - 1215	**Ceria Hierarchical Nanostructures Grown by Laser Ablation** Dr. Mihaela Filipescu, National Institute for Laser, Plasma and Radiation Physics	1200 - 1215	**Directed Energy to Enable the First Interstellar Missions - NASA Starlight and Breakthrough Starshot** Prof. Philip Lubin, University of California, Santa Barbara
1215 - 1345	**Lunch Break** - On Your Own		
	Track One ***Lumpkins Ballroom North*** **Laser Induced Shock Applications**		**Track Two** ***Lumpkins Ballroom South*** **Femtosecond Repetitive Action on Materials**
1345 - 1350	**Announcements & Session Introduction** Session Chair: Dr. Laurent Berthe, CNRS/PIMM	1345 - 1350	**Announcements & Session Introduction** Session Chair: Dr. Andrei Kanaev, LSPM - CNRS

MONDAY

Detailed Agenda *(cont.)*

MONDAY

1350 - 1415	**Laser-Generated Magmas and Evolutions** Dr. Toshimori Sekine, HPSTAR (Center for High Pressure Science and Technology Advanced Research) (Invited)	1350 - 1415	**Periodic Structure Formation on Dielectrics After Irradiation with Ultrashort Pulsed Lasers** Dr. George Tsibidis, Insitute of Electronic Structure and Laser-FORTH (Invited)
1415 - 1440	**New Advances on Adhesion Test using Shock Produced by Plasma Laser: Applications for Carbon Fiber Reinforced Polymer Stacks** Dr. Laurent Berthe, CNRS/PMM (Invited)	1415 - 1440	**Surface Structuring of Rutile TiO2 Monocrystal in the Regime of High-Density Electronic Excitation** Dr. Andrei Kanaev, LSPM - CNRS (Invited)
1440 - 1505	**Unconventional Ablation** Dr. Alexander Rubenchik, Lawrence Livermore National Laboratory (Invited)	1440 - 1505	**Multi-Laser Processed Silicon Solar Cell with IR Efficiency** Prof. Thierry Sarnet, LP3 - CNRS - AMU (Invited)
1505 - 1530	**Break** (Mezzanine)		
1530 - 1545	**Deformation and Fragmentation of Liquid Metal Microdroplets upon Intense Pulses of Ti:Sapphire Laser** Mr. Bogdan Lakatosh, Moscow Insitute of Physics and Technology	1530- 1545	**Optimizing Femtosecond Laser Machining of Microscale Specimens for High Throughput Mechanical Testing** Dr. Daniel Magagnosc, U.S. Army Research Laboratory
1545 - 1600	**Characterization of Ablation Pressure on the Metal Surface Irradiated by Short Laser Pulses** Dr. Konstantin Khishchenko, Joint Institute for High Temperatures of the Russian Academy of Sciences	1545 - 1600	**Experimental Study of EUV Mirror Radiation Damage Resistance under Longterm Free-Electron Laser Exposures Below the Single-Shot Damage Threshold** Dr. Igor Makhotkin, MESA+ Institute for Nanotechnology, University of Twente
		1600 - 1615	**Refractive Index Modification of Silicon by Femtosecond Laser Pulses** Prof. Ying Tsui, University of Alberta
1615 - 1730	**Welcome Reception & Poster and Exhibit Technical Interchange** (New Mexico Room)		

MONDAY

TUESDAY

Tuesday, 27 March 2018

0700 - 0800	**Light Continental Breakfast** (New Mexico Room)		
0700 - 1125 & 1300 - 1715	**Exhibits & Posters Open** (New Mexico Room)		
0700 - 1715	**Registration Open** (Mezzanine)		
1730 - 1830	**Program Committee Meeting** (Santa Fe Room)		
	Welcome & Keynote ***Lumpkins Ballroom North***		
0800 - 0810	**Announcements & Keynote Introduction** Dr. Claude Phipps, Photonics Associates, LLC		
0810 - 0850	**Keynote: Pulsed Laser Deposition (PLD): Back to the Basics** Prof. Thomas Lippert, Paul Scherrer Institut (Invited)		
0850 - 0855	**Transition to Parallel Sessions**		
	Track One ***Lumpkins Ballroom North***		**Track Two** ***Lumpkins Ballroom South***
	Ultrafast Materials Processing		**Space Debris Removal and Asteroid Impact Mitigation Strategies**
0855 - 0900	**Announcements & Session Introduction** Session Chair: Prof. Richard Haglund, Vanderbilt University	0855 - 0900	**Announcements & Session Introduction** Session Chair: Dr. Hans-Albert Eckel, German Aerospace Center - DLR, Institute of Technical Physics
0900 - 0925	**Multiscale Periodic Surface Structures Generated by Short and Ultrashort Pulse Laser Filaments at Different Wavelengths** Dr. Anthony Valenzuela, U.S. Army Research Laboratory (Invited)	0900 - 0925	**Propulsion System Aspects to Comply with Debris Mitigation Rules – Deorbiting with LAP?** Mr. Markus Peukert, OHB System (Invited)
0925 - 0940	**Computational Study of Short Pulse Laser Induced Generation of Crystal Defects in Ni and Ni-Based Single Phase Binary Alloys** Mr. Miao He, University of Virginia	0925 - 0940	**Momentum Predictability and Heat Accumulation in Laser-Based Space Debris Removal** Dr. Stefan Scharring, German Aerospace Center (DLR), Institute of Technical Physics
0940 - 0955	**Mechanisms of Surface Damage in Ablation Cutting of Thin Glass Sheets with Picosecond Laser Pulses** Dr. Mingying Sun, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences	0940 - 0955	**Impulse Generated by Irradiating Linear-Polarized Nanosecond Laser Pulses on Aluminum Target at Oblique Incidence** Dr. Bin Wang & Mr. Hongbin Zhu, Key Lab of Microsatellites, Chinese Academy of Sciences
0955 - 1010	**Energy Relaxation and Dissipation in Laser-Excited Nanoscale Films** Dr. Klaus Sokolowski-Tinten, University of Duisburg-Essen	0955 - 1010	**Space Defense of Earth - First Experiment** Prof. Vladimir Gorev, Kurchatov Institute

TUESDAY

Detailed Agenda *(cont.)*

TUESDAY

1010 - 1040	**Break** (New Mexico Room)		
1040 - 1045	**Keynote Introduction** (Lumpkins Ballroom North) Dr. Claude Phipps, Photonics Associates, LLC		
1045 - 1125	**Keynote: Overview of HiLASE Laser Programme: Status and Prospects** (Lumpkins Ballroom North) Dr. Antonio Lucianetti, HiLASE Centre (Invited)		
1125 - 1300	**Lunch Break** - On Your Own		
	Track One ***Lumpkins Ballroom North***		**Track Two** ***Lumpkins Ballroom South***
	Theory and Simulation		**Post-Deadline Session**
1300 - 1305	**Announcements & Session Introduction** Session Chair: Prof. Nadezhda Bulgakova, Institute of Physics of the ASCR, HiLASE Centre	1300 - 1305	**Announcements & Session Introduction** Session Chair: Prof. Thierry Sarnet, CNRS - Aix Marseille University
1305 - 1330	**Unified Model of Plasma Formation, Bubble Generation, and Shock Wave Emission in Water for Femtosecond to Nanosecond Laser Pulses** Dr. Xiaoxuan Liang, Institute of Biomedical Optics, University of Lübeck (Invited)	1305 - 1320	**Nanosecond Pulsed Laser for Micro-Magnet Synthesis** Dr. Frédéric Dumas-Bouchiat, Université de Limoges - CNRS - IRCER
		1320 - 1335	**Visualizing the Heterogeneous to Homogeneous Melting Transition with Ultrafast Electron Diffraction** Dr. Mianzhen Mo, SLAC National Accelerator Laboratory
1330 - 1355	**First-Principles Calculations of Energy Transfer from Light to Electrons in Solids** Dr. Shunsuke Sato, Max Planck Institute for the Structure and Dynamics of Matter (Invited)	1335 - 1350	**Self-Organized Micro/Nanostructure Formation on Silver and Copper using Dual-Pulse Femtosecond Laser Surface Processing** Dr. Craig Zuhlke, University of Nebraska-Lincoln
		1350 - 1405	**Laser-Induced Ablation Modeling with Integrated Melt Flow and Plasma Dynamics** Dr. Kaushik Iyer, The Johns Hopkins University Applied Physics Laboratory
1355 - 1420	**Band-Structure Modification of Wide-Band-Gap Crystals by Laser-Driven Bloch Oscillations of Electrons: Monochromatic vs Non-Monochromatic Effects** Dr. Vitaly Gruzdev, University of Missouri (Invited)	1405 - 1420	**Laser Vaporization Cluster Source Combined to a Pulsed Laser Deposition Process - Microstructure Roles on VO_2 Thin Film/Cluster Stack Properties** Dr. Corinne Champeaux, Université de Limoges - CNRS - IRCER
1420 - 1445	**Electron-Ion Temperature Relaxation in Warm Dense Hydrogen: Interplay Between Quantum Electrons and Coupled Ions** Prof. Jiayu Dai, National University of Defense Technology (Invited)	1420 - 1435	**Wavelength-Specific Gold Nanoparticle Mediated Rupture of Polymersomes under Single-Pulse Irradiation** Dr. Sean O'Malley, Rutgers University
		1435 - 1450	**Nanoscale Eutectic Microstructure in Al-Cu Thin Films by Scanning Laser Melting** Mr. Eli Sullivan, University of Virginia
1445/1450 - 1515	**Break** (New Mexico Room)		
	Track One ***Lumpkins Ballroom North***		**Track Two** ***Lumpkins Ballroom South***
	Theory and Simulation, cont.		**Panel: The Business Side of High Power Beam Applications**
1515 - 1520	**Announcements**	1515 - 1520	**Announcements & Panel Moderation** Panel Chair: Ms. Julie Mikula, NASA Ames Research Center Co-Chair: Dr. Sergio Carbajo, SLAC National Accelerator Laboratory
1520 - 1545	**Kinetic Modeling of Plasma Plume Expansion and Plasma Shielding in Short Pulse Laser Processing of Metal Targets: Effects of the Background Gas and Spatial Confinement** Dr. Alexey Volkov, University of Alabama (Invited)	1520 - 1715	▸ **Dr. Kevin Felch**, Communications and Power Industries (Invited) ▸ **Dr. John Lohr**, General Atomics (Invited) ▸ **Mr. Iouri Pigulevsk**i, DLTECH Institute (Invited) ▸ **Dr. Sami Tanawai**, Stanford University (Invited) ▸ **Ms. LaNetra Tate**, NASA PE for Game Changing Development (Invtied) ▸ **Dr. S. Pete Worden**, Breakthrough Initiatives (Invited) ▸ **Mr. Pete Zell**, NASA Ames High Power Laser Facilities (Invited)
1545 - 1610	**Interatomic Potential of Ultrafast Laser Excited Non-Equilibrium Warm Dense Gold** Dr. Zhijiang Chen, SLAC National Accelerator Laboratory (Invited)		
1610 - 1635	**Mechanism of the Single-Pulse Ablative Generation of Laser Induced Periodic Surface Structures in Vacuum and Liquid Environment** Mr. Maxim Shugaev, University of Virginia (Invited)		
1635 - 1700	**Modeling of the Electron Dynamics in Realistic Dielectric Materials Induced by Short Laser Pulses** Dr. Guillaume Duchateau, CELIA/CEA (Invited)		

TUESDAY

Detailed Agenda *(cont.)*

TUE

1700 - 1715	**Simulations of Damage of Ru Thin Films Induced by Single-Shot fs EUV FEL Pulses** Mr. Igor Milov, MESA+ Institute for Nanotechnology, University of Twente		Panel, cont.

TUE

Wednesday, 28 March 2018

WEDNESDAY

0700 - 0800	**Light Continental Breakfast** (New Mexico Room)		
0700 - 1155 & 1330 - 1730	**Exhibits & Posters Open** (New Mexico Room)		
0700 - 1730	**Registration Open** (Mezzanine)		
1730 - 1815	**Poster & Table-Top Exhibit Tear-Down**		
1830 - 2130	**Dinner & Awards Program** (La Terraza Room) *Entertainment Provided by Wayne Wesley Johnson and the Roger Burns Quartet*		
	Welcome & Keynote ***Lumpkins Ballroom North***		
0800 - 0810	**Announcements & Keynote Introduction** Dr. Claude Phipps, Photonics Associates, LLC		
0810 - 0850	**Keynote: Shock Physics at the Nanoscale** Dr. David Moore, Los Alamos National Laboratory (Invited)		
0850 - 0855	**Transition to Parallel Sessions**		
	Track One ***Lumpkins Ballroom North*** **Laser Materials Interactions in a Liquid Environment**		**Track Two** ***Lumpkins Ballroom South*** **New Results in High Power Lasers and Their Applications**
0855 - 0900	**Announcements & Session Introduction** Session Chair: Prof. Dr. Wolfgang Kautek, University of Vienna	0855 - 0900	**Announcements & Session Introduction** Session Chair: Dr. Craig Siders, Lawrence Livermore National Laboratory
0900 - 0925	**Mechanisms of the Generation of Nanoparticles and Surface Modification in Short Pulse Laser Ablation of Metal Targets in Liquids** Dr. Leonid Zhigilei, University of Virginia (Invited)	0900 - 0925	**Pushing Energetic High Peak Power Lasers Beyond the Kilowatt Barrier** Dr. Craig Siders, Lawrence Livermore National Laboratory (Invited)
0925 - 0950	**Origin of the Nano-Carbon Allotropes in Pulsed Laser Ablation in Liquids Synthesis** Dr. David Amans, Université Claude Bernard Lyon 1, CNRS, Institut Lumière Matière (Invited)	0925 - 0950	**Standoff Applications of Ultrashort-Pulse Lasers** Dr. Pavel Polynkin, University of Arizona (Invited)
0950 - 1015	**Light Scattering Dynamics during Pulsed Laser Irradiation of Metals in Water: Effects on Laser-Induced Damage Thresholds** Prof. Alexander Bulgakov, HiLASE Centre, Institute of Physics AS CR (Invited)	0950 - 1005	**Coherent Beam Combining of Femtosecond Fiber Amplifiers: A Path Towards High Peak and Average Power Lasers** Dr. Jean-Christophe Chanteloup, Ecole Polytechnique
		1005 - 1020	**Acceleration and Forces Induced by High Power Laser Illumination of Absorbing Particles** Dr. Joey Talghader, University of Minnesota
		1020 - 1035	**High Power High Rep.Rate P-P Lasers and New Applications** Prof. Victor Apollonov, GPI RAS
1015/1035 - 1110	**Break and Dedicated Poster Session** (New Mexico Room)		
1110 - 1115	**Keynote Introduction** (Lumpkins Ballroom North) Dr. Claude Phipps, Photonics Associates, LLC		
1115 - 1155	**Keynote: The Directed Energy Professional Society Educational Outreach Campaign** (Lumpkins Ballroom North) Mr. Mark Neice, Directed Energy Professional Society (Invited)		
1155 - 1330	**Lunch Break** - On Your Own		
	Track One ***Lumpkins Ballroom North*** **Ultra High Intensity Lasers: From Earth to Cosmos**		**Track Two** ***Lumpkins Ballroom South*** **Ultrashort Pulse Effects**
1330 - 1335	**Announcements & Session Introduction** Session Chair: Prof. Gérard Mourou, École Polytechnique	1330 - 1335	**Announcements & Session Introduction** Session Chair: Dr. Klaus Sokolowski-Tinten, University of Duisburg-Essen

WEDNESDAY

Detailed Agenda *(cont.)*

WEDNESDAY

1335 - 1400	**Focused, Laser-Driven Ion Beams as a Tool for Laboratory Astrophysics** Prof. Dr. Markus Roth, Technische Universität Darmstadt (Invited)	1335 - 1400	**Ultrafast Mega-Electron-Volt Electron Diffraction/Microscopy at SLAC National Accelerator Laboratory** Dr. Xiaozhe Shen, Stanford Linear Accelerator Center (Invited)
1400 - 1425	**Efficient Mo Kα X-Ray Source Produced by Laser Solid Interaction in the Relativistic Regime** Dr. Marc Sentis, CNRS, Aix Marseille University, LP3 (Invited)	1400 - 1425	**Probing Ultrafast Heat Transport in Thin Metallic Bi-Layer Structures** Dr. Vasily Temnov, CNRS - University Le Mans (Invited)
1425 - 1440	**Extreme Light Compression Toward the Single-Cycle Limit** Dr. Jonathan Wheeler, Ecole Polytechnique and Institute for Nuclear Physics and Engineering - Horia Hulubei, Extreme Light Infrastructure - Nuclear Physics	1425 - 1440	**Sub-30-fs Laser Ablation of Dielectrics: Mechanisms and Outcomes** Dr. Nicolas Sanner, Aix-Marseille Univ, LP3 CNRS
1440 - 1505	**Generation and Applications of Femtosecond Relativistic-Intensity Structured Light** Dr. Sergio Carbajo, SLAC National Accelerator Laboratory (Invited)	1440 - 1505	**Time-Resolved Transmission Electron Microscopy: Probing Ultrafast Nanoscale Dynamics** Dr. Sascha Schäfer, University of Oldenburg (Invited)
1505 - 1525	**Break & Final Poster Voting** (New Mexico Room)		
	Track One ***Lumpkins Ballroom North*** **Plasmonics and Metamaterials**		**Track Two** ***Lumpkins Ballroom South*** **Ultrashort Pulse Effects, cont.**
1525 - 1530	**Announcements & Session Introduction** Session Chair: Prof. Leonid Zhigilei, University of Virginia	1525 - 1530	**Announcements**
1530 - 1555	**Self-Organized Growth of Metallic Nanoparticles upon cw and fs Laser Writing: Mechanisms and Application** Prof. Nathalie Destouches, University of Lyon (Invited)	1530 - 1555	**Ultrafast X-Ray Studies on the Dynamics of Structural Transitions in Geophysical Materials** Dr. Arianna Gleason, LANL/Stanford University (Invited)
1555 - 1620	**Meta-Diffractive Sailcraft for Beamed Energy Propulsion** Prof. Grover Swartzlander, Rochester Institute of Technology (Invited)	1555 - 1620	**Ultrafast X-Ray Probes for Nanoscale Samples at the Solid-to-Plasma Transition** Dr. Tais Gorkhover, Stanford/SLAC (Panofsky Fellow) (Invited)
1620 - 1635	**From Extraordinary Diffusion to Periodic Surface Morphologies: Initiation and Formation of HSFL in Semiconductors** Dr. Ben Torralva, University of Michigan	1620 - 1645	**Interaction of High-Intensity X-Ray Pulses with Matter** Dr. Stefan Hau-Riege, Lawrence Livermore National Laboratory (Invited)
	Track One ***Lumpkins Ballroom North*** **Very High Power CW Lasers**	1645 - 1700	**Laser Amplification in Excited Dielectrics (LADIE)** Mr. Thomas Winkler, University of Kassel, Institute of Physics and CINSaT
1635 - 1640	**Announcements & Session Introduction** Session Chair: Dr. Claude Phipps, Photonic Associates, LLC	1700 - 1715	**Time-Resolved XANES Spectroscopy on Non-Equilibrium Warm Dense Copper** Ms. Noémie Jourdain, CEA DAM-DIF, CELIA
1640 - 1705	**Free-Electron Laser Based Very High Average and Peak Power Radiation Sources** Prof. Pietro Musumeci, University of California, Los Angeles, Department of Physics and Astronomy (Invited)		
1705 - 1730	**High Power Fiber Lasers for Industrial Applications** Mr. Scott Christensen, IPG Photonics (Invited)	1715 - 1730	**Energy Confinement and Thermal Boundary Conductance Effects on Short-Pulsed Thermal Ablation Thresholds in Thin Films** Mr. John Tomko, University of Virginia
1730 - 1815	**Poster & Exhibit Table-Top Tear-Down**		
1830 - 2130	**Dinner & Awards Program** (La Terraza Room) *Entertainment Provided by Wayne Wesley Johnson and the Roger Burns Quartet*		

WEDNESDAY

Detailed Agenda *(cont.)*

THURSDAY

Thursday, 29 March 2018

0700 - 0800	**Light Continental Breakfast** (Mezzanine)		
0700 - 1220	**Registration Open** (Mezzanine)		
	Track One ***Lumpkins Ballroom North*** **Biological Applications**		**Track Two** ***Lumpkins Ballroom South*** **Laser Direct Writing**
0800 - 0805	**Announcements & Session Introduction** Session Chair: Dr. Tatiana Itina, Hubert Curien Lab CNRS/UJM	0800 - 0805	**Announcements & Session Introduction** Session Chair: Dr. Alexandra Palla Papavlu, National Institute for Laser, Plasma and Radiation Physics
0805 - 0830	**Impact of Laser Processed Micro-Structured Topographies on Screening Mammalian Cells Response towards the Development of Multifunctional Biointerfaces and Scaffolds** Dr. Valentina Dinca, National Institute for Laser, Plasma and Radiation Physics (Invited)	0805 - 0830	**Smart Flexible Sensor via Laser Transfer** Dr. Alexandra Palla Papavlu, National Institute for Laser, Plasma and Radiation Physics (Invited)
0830 - 0855	**Laser Based Methods for the Fabrication of Multifunctional Implants** Dr. Maria Dinescu, National Institute for Laser, Plasma and Radiation Physics (Invited)	0830 - 0855	**Post-Mortem Characterization of Short-Pulse Laser Induced Damage in Metals** Dr. Laurent Berthe, CNRS/PIMM (Invited)
		0855 - 0910	**Enhancement of Nanosecond Laser Ablation of Silicon by Axial Magnetic Field** Dr. Hamid Farrokhi, Wellman Center for Photomedicine, Massachusetts General Hospital and Harvard Medical School
		0910 - 0925	**Ultrashort Pulsed Laser Processing of Glass Materials and Application for Microorganisms Study** Dr. Inam Mirza, HiLASE Centre
0855/0925 - 0940	**Break** (Mezzanine)		
	Track One ***Lumpkins Ballroom North*** **Thermal and Mechanical Coupling for Ultrashort Pulses**		**Track Two** ***Lumpkins Ballroom South*** **MAPLE and Materials Processing**
0940 - 0945	**Announcements & Session Introduction** Session Chair: Dr. Stefan Scharring, German Aerospace Center (DLR), Institute of Technical Physics	0940 - 0945	**Announcements & Session Introduction** Session Chair: Dr. Enikö György, CSIC-ICMAB
0945 - 1010	**Mechanical and Thermal Coupling of Ultrashort Laser Pulses with Solids** Prof. Dr. Wolfgang Kautek, University of Vienna (Invited)	0945 - 1010	**Bottom-Up Laser Ablation Synthesis of Nanomaterials - A "Building Block" Approach** Prof. David Geohegan, Oak Ridge National Laboratory (Invited)
1010 - 1035	**New Insights on Mechanical Coupling from Molecular Dynamics Simulations using Highly Dynamic Material Properties** Dr. Johannes Roth, University of Stuttgart (Invited)	1010 - 1035	**Laser Processing of Atomic Layer Films** Prof. Costas Grigoropoulos, University of California (Invited)
1035 - 1100	**Temporal Characterization of Short-Pulse Laser Absorption in Metals** Dr. Laurent Videau, CEA, DAM, DIF (Invited)	1035 - 1100	**Laser Processing of Nanocarbon-Based Materials** Dr. Angel Perez Del Pino, Consejo Superior de Investigaciones Científicas, Instituto de Ciencia de Materiales de Barcelona (CSIC-ICMAB) (Invited)
1100 - 1125	**Ultra-Short Laser Structuring of Optical Materials in Volume** Prof. Tatiana Itina, Laboratoire Hubert Curien, UMR CNRS 5516/Univ. Lyon/UJM and ITMO University (Invited)	1100 - 1125	**Tuning Morphology and Melting Temperature in Polyethylene Films by MAPLE** Dr. Rodney Priestley, Princeton University (Invited)
1125 - 1150	**Implications of Thermal and Mechanical Coupling for Laser Nano- and Micromachining of Semiconductors and Insulators** Prof. Dr. Nadezhda Bulgakova, Institute of Physics of the ASCR, HiLASE Centre (Invited)	1125 - 1150	**Thin Films for Solar Cells Produced by Pulsed Laser Deposition** Dr. Jørgen Schou, DTU Fotonik, Technical University of Denmark (Invited)
1150 - 1205	**Kinetic and Hydrodynamic Simulations of Laser-Induced Plasma Plume Expansion under Conditions of Double-Pulse Irradiation** Mr. Omid Ranjbar, University of Alabama	1150 - 1205	**Photoactive Nano-Carbon Based Composite Materials Obtained by Matrix Assisted Pulsed Laser Evaporation** Dr. Enikö György, Instituto de Ciencia de Materiales de Barcelona
		1205 - 1220	**Laser Ablation of Metals using Periodically Modulated Intensity** Mr. Wes Keller, Lawrence Livermore National Laboratory
1220	**Conference Adjourns**		
1800	**Group Dinner at El Farol** *Reservations Required: See HPLA Registration Desk* *Cost: On Your Own*		

THURSDAY

Lunch & Dinner Suggestions

Geronimo
724 Canyon Rd., 505-982-1500
Website: http://chrismharvey.wix.com/geronimo

The Compound Restaurant
653 Canyon Rd., 505-982-4353
Website: www.compoundrestaurant.com/

Galisteo Bistro
227 Galisteo Street, 505-982-3700
Website: http://galisteobistro.com

Jinja Asian Café
North DeVargas Mall Across from Albertson's 510 N. Guadalupe St. , 505-982-4321
Website: http://jinjabistro.com/index.html

The Burrito Company
111 Washington Ave
http://www.burritocompanysf.com/

Old House Restaurant
309 West San Francisco St., 505-995-4530
Website: http://www.eldoradohotel.com/old_house_restaurant/

Cleopatra Café
418 Cerrillos Road, 505-820-7381
http://www.cleopatrasantefe.com

Bumble Bee's Baja Grill
301 Jefferson, 505-820-2862
Website: http://www.bumblebeesbajagrill.com/

The Pantry Restaurant
1820 Cerrillos Rd., 505-986-0022
Website: http://www.pantrysantafe.com/

Marisco's Costa Azul
2875 Cerrillos Rd., 505-473-4594
Website: http://www.mariscoscostaazul.com/

Cowgirl BBQ
319 S Guadalupe, 505-982-2565
Website: http://www.cowgirlsantafe.com/menus

L'Olivier
4229 Galisteo, 505-989-1919
Website: http://www.loliviersantafe.com

Realburger
2641 1/2 Cerrillos Road, 505-474-7325
Website: http://www.realburger.org

Plaza Café
54 Lincoln Ave
https://www.plazacafesantafe.com/

Whole Hog Café
320 S Guadalupe St
https://wholehogcafenm.com/

HPLA Conference Chair Special Mentions:

- **Pranzo Italian Grill** (http://www.pranzosantafe.com/) $$ and good food, almost always available
- **SantaCafé** (http://santacafe.com/) $$$ but worth it, delicious food
- **La Casa Sena** (http://www.lacasasena.com/) $$$ but worth it, sit outside under huge trees next to a fountain, or listen to Broadway songs sung by your singing waiter inside
- **The Shed** (http://sfshed.com/home.html) $$ right downtown close to La Fonda for that chili fix
- **Pink Adobe** (http://www.thepinkadobe.com/) $$$ close to La Fonda, great indoor/outdoor place, local Spanish food
- **Rio Chama Steakhouse** (http://www.riochamasteakhouse.com/) $$$ close to La Fonda, get the steak, buffalo or venison fix
- **Los Magueyes Mexican Restaurant** (http://los-magueyes.letseat.at/) $$ At the end of Burro Alley, real Mexican food, Charles Tichenor entertains with his piano Friday night at 6
- **The Teahouse** (http://www.teahousesantafe.com) $$ Just past El Farol on the left. Yes, a whole menu of rare teas, but also great food, wine and beer.

Notes & Contacts

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See you in 2020!