Tuesday, 6/9/2026
R1T1 – Miroprocessing Processing of Silicon and Silicon Carbid

13:30, R1_T1_1. Ultrashort pulse laser processing of narrow-bandgap semiconductors (Invited Presentation) Stefan Nolte, Friedrich Schiller University Jena, Institute of Applied Physics; Fraunhofer Institute for Applied Optics and Precision Engineering IOF
14:00, R1_T1_2. Shape Control of Internal Modification in Silicon by Femtosecond and Microsecond Double-Pulse Laser Irradiation (Oral Presentation) Soma Wakabayashi, Department of Mechanical Engineering, School of Engineering, The University of Tokyo
14:20, R1_T1_3. Simulation of UV/Visible Laser-Induced Melting and Amorphization in Silicon (Oral Presentation) Farzad Jamaatisomarin, Department of Industrial and Manufacturing Systems Engineering, Kansas State University, Manhattan, KS 66506, USA
14:40 - 15:00, R1_T1_4. Enhancing ablation efficiency and drilling speed in Si and 4H-SiC using femtosecond laser burst mode (Invited Presentation) Bogusz Stępak, Fluence Technology

Tuesday, 6/9/2026

R1T2 – Miroprocessing Processing of Silicon and Silicon Carbid

15:30, R1_T2_1. Comparative Study of IR and Green Femtosecond Laser LIPSS on Silicon and Silicon Carbide: Surface Morphology and Wetting Transition (Oral Presentation) Hsuan-Kai Lin, National Pingtung University of Science and Technology
16:00 - 16:20, R1_T2_2. Influence of Repetition Rate on Structure Evolution and Recast Dynamics in Femtosecond Self-organized Laser Functionalization of Silicon (Oral Presentation) Rahul Rajan, University of Nebraska-Lincoln

Tuesday, 6/9/2026
R2T1 – Laser drilling, cutting, and forming

13:30, R2_T1_1. Ultrahigh-speed drilling of glass through-holes by fs Bessel pulses in GHz burst mode (Invited Presentation) Koji Sugioka, RIKEN Center for Advanced Photonics
14:00, R2_T1_2. Bottom-up femtosecond laser drilling of high-aspect-ratio channels in fused silica (Oral Presentation) Paulius Gecys, Center for Physical Sciences and Technology (FTMC)
14:20, R2_T1_3. High-throughput ultrafast laser drilling of through-glass VIAs enabled by motion-optimized trajectory control and synchronized laser triggering (Oral Presentation) Matthew Price, PI (Physik Instrumente) L.P.. USA
14:40 - 15:00, R2_T1_4. Ultrashort-Pulsed Laser Microfabrication Toolkit for Advanced Materials High-Fidelity Microholes, Laser-First Lamella Preforms, and Wettability-Engineered Glass Surfaces (Oral Presentation) Pouya Tavousi, Tescan and UConn

Tuesday, 6/9/2026
R2T2 – Laser drilling, cutting, and forming

15:30, R2_T2_1. Ultrashort Pulsed Laser Processing in Liquids and with Burst Modes (Invited Presentation) Andreas Ostendorf, Ruhr University Bochum
16:00, R2_T2_2. Optimization of Scanning Strategies for High-Quality Femtosecond Laser Drilling of PCB Materials (Oral Presentation) Xin Zhao, Clemson University
16:20-16:40 ,R2_T2_3. Numerical Investigation of Mechanical Properties of Additively Manufactured 316L Stainless Steel (Oral Presentation) Shunyu Liu, Clemson University

Tuesday, 6/9/2026

R3T1 – Laser processing for battery, fuel-cell, electrolyzer, fusion energy, and other energy devices

13:30, R3_T1_1. Laser-based manufacturing for battery fabrication (Invited Presentation) Alessandro Fortunato, University of Bologna
14:00, R3_T1_2. Analysis of challenges and process fidelity of projection two-photon polymerization for inertial fusion energy target fabrication (Oral Presentation) Fabian Christ, Technical University Darmstadt
14:20, R3_T1_3. Challenges in rapid laser reactive sintering of stainless steel-supported protonic ceramic fuel cells (Oral Presentation) Jacob Conrad, Clemson University
14:40, R3_T1_4. Two-photon polymerization of multi-scale wetted foam targets for inertial fusion energy (Oral Presentation) Elias Hamel, Technical University of Darmstadt, Focused Energy GmbH
15:00 - 15:20, R3_T1_5. Picosecond laser-enabled scalable interface engineering for protonic ceramic electrochemical cells (Oral Presentation) Tianyi Zhou, Clemson University

Wednesday, 6/10/2026
R1W1 – Glass, ceramic, and other transparent materials processing

08:30, R1_W1_1. Ultrafast Laser Processing at Corning Incorporated: Innovations, and Opportunities (Invited Presentation) Craig Ungaro, Corning Incorporated
09:00, R1_W1_2. Direct femtosecond laser figuring of freeform optics (Oral Presentation) Jie Qiao, Rochester Institute of Technology
09:20, R1_W1_3. Slicing of N-type 4H-SiC Wafers Using MHz Burst-Mode Femtosecond Laser (Oral Presentation) Chung-Wei Cheng, National Yang Ming Chiao Tung University
09:40 - 10:00, R1_W1_4. Femtosecond-laser direct figuring and polishing of fused silica optics (Oral Presentation) Jie Qiao, Rochester Institute of Technology

Wednesday, 6/10/2026
R1W2 – Glass, ceramic, and other transparent materials processing

10:30, R1_W2_1. Ultrafast laser structuring and modification of glasses (Invited Presentation) S. K. Sundaram, Inamori School of Engineering, The New York State College of Ceramics
11:00, R1_W2_2. Overview of the state-of-the-art 50 fs micromachining of transparent materials (Oral Presentation) Kilian Fritsch, n2-Photonics GmbH
11:20, R1_W2_3. Challenges and opportunities in glass processing with MHz/GHz burst mode femtosecond (Oral Presentation) Lukas Rimgaila, Ekspla
11:40 - 12:00, R1_W2_4. Ablation of transparent materials using 515 nm and 80 fs pulses (Oral Presentation) Kilian Fritsch, n2-Photonics GmbH

Wednesday, 6/10/2026
R1W3 – Laser-based direct writing

13:30, R1_W3_1. Recent advances in ultrafast laser nanostructuring of transparent materials: From fundamentals to applications (Invited Presentation) peter kazansky, SPhotonix Inc
14:00, R1_W3_2. High-index polymer photonic wire interconnection toward scalable co-packaged optics (Oral Presentation) Lixin XIANG, Institute of Science tokyo
14:20, R1_W3_3. Femtosecond laser inscription of waveguide Bragg gratings for monolithic lasers (Oral Presentation) Jie Qiao, Rochester Institute of Technology
14:40 - 15:00, R1_W3_4. Grazing incidence laser writing for creating exclusive high-spatial frequency laser-induced sub-100 nm periodic structures (Oral Presentation) Md Abu Taher, Center for Lasers and Photonics, Indian Institute of Technology

Wednesday, 6/10/2026
R1W4 – Laser-based direct writing

15:30, R1_W4_1. Optofluidic Integrated Microscopy Enabled by Femtosecond Laser Micromachining (Invited Presentation) Petra Paie, Politecnico di Milano
16:00, R1_W4_2. Beyond conventional acoustic holography using laser direct writing (Oral Presentation) Jordi Torres-Durall, Universitat de Barcelona
16:20, R1_W4_3. Three-dimensional waveguide fabrication in PDMS using nanosecond laser–induced bubbles (Oral Presentation) Yastaka Hanada, Hirosaki univeristy
16:40 - 17:10, R1_W4_4. Bottom-Up Microfabrication Utilizing Laser-Induced Microbubbles (Invited Presentation) Sho Fujii, Yamagata University
17:10 - 17:40, R1_W4_5. Ultrafast Laser-Based Fabrication of 3D Glass Devices: From Microfluidic Chips to In-Fiber Photonic Structures (Invited Presentation) Jiyeon Choi, Korea institute of machinery and materials

Wednesday, 6/10/2026
R2W1 – 3D printing and additive manufacturing

08:30, R2_W1_1. Micro- and Nano-scale Additive Manufacturing by Laser Nanoparticle Printing (Invited Presentation) Heng Pan, Texas A&M University
09:00, R2_W1_2. Integrated Additive Manufacturing and Laser Processing of Protonic Ceramic Electrochemical Cells for Energy Conversion and Storage (Invited Presentation) Joshua Tong, Clemson University
09:30 - 10:00, R2_W1_3. Laser Powder Bed Fusion of Copper Using a “Donut” shaped infrared laser beam (Invited Presentation) Amelie VEILLERE, ICMCB-CNRS

Wednesday, 6/10/2026
R2W2 – 3D printing and additive manufacturing

10:30, R2_W2_1. Toward Scalable Two-Photon Laser Manufacturing of Glass Micro-Optics (Invited Presentation) Rongguang Liang, University of Arizona
11:00, R2_W2_2. Advances in Two-Photon Polymerization for Industrial Microoptics Manufacturing (Oral Presentation) Georg Winkler, UpNano GmbH
11:20, R2_W2_3. Two-photon polymerization of 3D structures for testing new protocols in cell biology (Oral Presentation) Alexandra Bran, National Institute for Laser, Plasma and Radiation Physics
11:40-12:00, R2_W2_4 . A Novel Thermal–Mechanical–Metallurgical Modeling Framework for Hybrid In-Situ Rolled Additive Manufacturing (Oral Presentation) Shunyu Liu, Clemson University

Wednesday, 6/10/2026
R2W3 – 3D printing and additive manufacturing

13:30, R2_W3_1. Measuring residual stresses in laser-based additively manufactured components via neutron diffraction (Invited Presentation) Dunji Yu, Oak Ridge National Laboratory
14:00, R2_W3_2. Reflecting 'Nanoness' in Nano-Printing: Using Free Radical Coupling to Improve Both Resolution and Throughput in Two-Photon Polymerization (Oral Presentation) Yongfeng Lu, University of Nebraska-Lincoln
14:20, R2_W3_3. Reactive laser additive manufacturing of multi-leveled carbon monoliths (Oral Presentation) Shuichiro Hayashi, Princeton University
14:40 - 15:00, R2_W3_4. In-situ Architecturing of 3D Microstructural Composites via Laser Additive Manufacturing for Synergistic Property Enhancement (Oral Presentation) Kaihao Zhang, The Hong Kong University of Science and Technology (Guangzhou)

Wednesday, 6/10/2026
R2W4–Laser synthesis and processing of functional nanomaterials and 3D Printing

15:30, R2_W4_1. Reactive laser powder bed fusion processing: Controlling structure and chemistry in laser based Additive Manufacturing (Invited Presentation) Craig Arnold, Princeton University
16:00, R2_W4_2. Particle Generation across Metals, Semiconductors, Ceramics, and Plastics via Femtosecond Laser Ablation in Liquid Environments (Oral Presentation) Yongfeng Lu, University of Nebraska-Lincoln
16:20, R2_W4_3. External electric fields in bimodal laser powder bed fusion (Oral Presentation) Ankit Das, Princeton University
16:40 - 17:10, R2_W4_4. 3D Printed Electrochemical Sensors with Femtosecond Laser Treatment for Cellphone-based Portable Detection (Invited Presentation) Qiong Nian, Arizona State University
17:10 - 17:30, R2_W4_5. In-situ-investigation of drug–polymer segregation mechanisms during electrophotographic powder application for laser-based powder bed fusion via Raman spectroscopy (Oral Presentation) Vadim Medvedev, Bayerisches Laserzentrum
17:30-18:00, R2_W4_6. 3D Nanoprinting of Functional Structures via Two-Photon Deposition and Ultrafast Optical Trapping (Invited Presentation) Gary Cheng, Purdue University

Wednesday, 6/10/2026
R3W1 – Modeling, simulation, and AI approaches for laser- material interactions

08:30, R3_W1_1. Regimes and mechanisms of laser ablation: Validation of atomistic modeling by time-resolved optical and X-ray probing (Invited Presentation) Leonid Zhigilei, University of Virginia
09:00, R3_W1_2. Neural network modeling of morphological changes in laser ablation with programmable GHz bursts (Oral Presentation) Shuntaro Tani, RIKEN
09:20, R3_W1_3. Multimodal online diagnostics and machine learning for ultrafast laser thinning of silicon (Oral Presentation) Eric Mottay, h-nu
09:40 - 10:00, R3_W1_4. Simulation and optimisation of a high peak power Tm:YLF amplifier (Oral Presentation) Souryadeep Saha, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

Wednesday, 6/10/2026
R3W2 – Sensing and Diagnostics

10:30, R3_W2_1. Influence of Pulse Duration in Resonance Enhanced Nanosecond Laser Ultrasonics Using a Hollow Cylinder (Oral Presentation) Ruan Li, Clemson University
10:50, R3_W2_2. Three-Dimensional Coherent anti-Stokes Raman Scattering (CARS) Imaging of Fuel Capsules used for Laser-direct-drive Inertial Confinement Fusion (Oral Presentation) Yongfeng Lu, University of Nebraska-Lincoln
11:10 - 11:30, R3_W2_3. Laser-induced Acoustic Signal Generation for Non-destructive Structural Health Evaluation (Oral Presentation) Huijuan Zhao, Clemson University

Wednesday, 6/10/2026
R3W3 – Micro-welding and micro-bonding

13:30, R3_W3_1. Transparent welding of dielectric materials: road to large-scale, high-strength and low residual shear stress assemblies (Invited Presentation) John Lopez, University of Bordeaux - CNRS - CEA
14:00, R3_W3_2. Optimizing scanning geometry for ultrafast laser welding of ultralow expansion glass (Oral Presentation) Thomas Kilmer, Corning Research and Development Corporation
14:20, R3_W3_3. Improved weld strength in non-optical-contact glass welding using ultrashort laser bursts (Oral Presentation) Edgaras Markauskas, Center for Physical Sciences and Technology (FTMC)
14:40 - 15:00, R3_W3_4. Wavelength-dependent process stability in laser micro welding of copper with high thickness ratios (Oral Presentation) Leonard Plutz, Institute of Photonic Technologies (LPT), Friedrich-Alexander Universität Erlangen-Nürnberg (FAU)
15:40, R3_W4_1. 2µm wavelength nanosecond laser welding of silicon (Oral Presentation) Tara van Abeelen, Heriot-Watt University
16:00 - 16:20, R3_W4_2. Evaluating adhesive and ultra-short pulse laser techniques for optomechanical glass assemblies (Oral Presentation) Adrian Dzipalski, Heriot Watt University

Wednesday, 6/10/2026
R3W4– Micro-welding and micro-bonding

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Thursday, 6/11/2026
R1Th1 – Micro/nano-machining and fabrication

08:30, R1_Th1_1. Programmable ultrafast laser nanostructuring (Invited Presentation) Razvan Stoian, Laboratoire Hubert Curien, UMR 5516, CNRS, Université Jean Monnet, Saint Etienne, France
09:00, R1_Th1_2. Direct femtosecond laser fabrication of nanostructures toward anti-reflection coatings (Oral Presentation) Jie Qiao, Rochester Institute of Technology
09:20, R1_Th1_3. Femtosecond laser-based surface texturing up to 300W with beam-shaping and beam-splitting with Multi Plane Light Conversion technology (Oral Presentation) Gwenn Pallier, CAILABS
09:40 - 10:00, R1_Th1_4. Non-Mechanical Laser Focusing Technique for High-Throughput 3D Microfabrication in Transparent Materials (Oral Presentation) Florin Jipa, National Institute for Laser, Plasma and Radiation Physics (INFLPR), Magurele - Bucharest, Romania

Thursday, 6/11/2026
R1Th2 – Micro/nano-machining and fabrication

10:30, R1_Th2_1. Laser-assisted building-integrated photovoltaic thin film solar module fabrication (Invited Presentation) David Hwang, State University of New York at Stony Brook
11:00, R1_Th2_2. Numerical and experimental investigation of beam diameter effects in picosecond laser volume micro-processing of Foturan glass (Oral Presentation) Laura Ionel, National Institute for Laser, Plasma and Radiation Physics (INFLPR), Magurele - Bucharest, Romania
11:20, R1_Th2_3. MHz burst-mode ultrafast laser micromachining for ultrasmooth surfaces (Oral Presentation) Xiao Jia, Department of Advanced Production Engineering, Engineering and Technology Institute Groningen, Faculty of Science and Engineering, University of Groningen
11:40 - 12:00, R1_Th2_4. Pre-structure-mediated subwavelength grating formation by single-pulse femtosecond laser writing on Molybdenum (Oral Presentation) Md Abu Taher, Center for Lasers and Photonics, Indian Institute of Technology Kanpur

Thursday, 6/11/2026
R1Th3– Micro/nano-machining and fabrication

13:30, R1_Th3_1. Leveraging THz bursts for femtosecond laser micromachining (Invited Presentation) Caterina Gaudiuso, CNR - Institute for Photonics and Nanotechnologies
14:00, R1_Th3_2. Laser Micro-fabrication on Aerospace Applications (Invited Presentation) Hongqiang Chen, GE Aerospace Research
14:30 - 15:00, R1_Th3_3. Laser based nano manufacturing for printed electronics and beyond (Invited Presentation) Nirmala Kandadai, Oregon state university

Thursday, 6/11/2026
R1Th4– Micro/nano-machining and fabrication

15:30, R1_Th4_1. Laser precision fabrication application to medical device manufacturing (Invited Presentation) Duncan Hand, Heriot-Watt University
16:00, R1_Th4_2. Digital glass forming for optics, photonics, and structures (Invited Presentation) Edward Kinzel, University of Notre Dame
16:30 - 16:50, R1_Th4_3. 3D CYTOP microfluidic chips with an ultra-thin channel structure fabricated by two-photon polymerization-molding process (Oral Presentation) Sota Matsumoto, RIKEN RAP

Thursday, 6/11/2026
R2Th1– Surface modification

08:30, R2_Th1_1. Femtosecond Laser Polishing of Copper/Diamond Composites (Invited Presentation) Jean-François Silvain, ICMCB-CNRS
09:00, R2_Th1_2. Role of surface wettability properties in the anti-icing efficiency of superhydrophobic surfaces (Oral Presentation) Eva Rodríguez Vidal, TEKNIKER
09:20, R2_Th1_3. Direct Laser Induced Graphene Patterning on Metals with Tunable Surface Wettability for Thermal Management and Anti-Icing Applications (Oral Presentation) Kaihao Zhang, The Hong Kong University of Science and Technology (Guangzhou)
09:40 - 10:00, R2_Th1_4. Experimental study of acoustic waves from picosecond laser-textured steel surfaces under nanosecond laser excitation (Oral Presentation) Isaac Akambole, Clemson University

Thursday, 6/11/2026
R2Th2 – Fundamentals of laser-materials interaction

10:30, R2_Th2_1. Pulsed Hard K_alpha X-ray sources for laser-assisted material analysis and engineering (Invited Presentation) Olivier UTEZA, LP3 - CNRS - AMU
11:00, R2_Th2_2. Direct observation of concentration gradients for control of laser-induced crystallization of organic molecules (Invited Presentation) Yuka Tsuri, Nara Institute of Science and Technology
11:30 - 12:00, R2_Th2_3. Ultrafast laser filamentation: overcoming challenges in remote plasma generation and spectroscopic signature detection (Invited Presentation) Vassilia Zorba, Lawrence Berkeley National Lab & UC Berkeley
12:00 - 12:20, R2_Th2_4. Rapid, non-melting laser sintering of Nickel Oxide-Yttria-Stabilized Zirconia/Yttria-Stabilized Zirconia for Solid Oxide Electrolysis Half-Cell Arrays (Oral Presentation) YUDI JIN, Material Science and Engineering Department, Clemson University, USA

Thursday, 6/11/2026
R2Th3 – Novel Systems and Processes

13:20, R2_Th3_1. Improved productivity and quality in drilling insulating film using GHz-burst DUV picosecond laser (Oral Presentation) Alexandre Rondepierre, Mitsubishi Electric Corporation
13:40, R2_Th3_2. Influence of burst-mode parameters when processing different materials with femtosecond lasers (Oral Presentation) simas butkus, Light Conversion
14:00, R2_Th3_3. Study Of Thermal Accumulation During Ultrafast Laser Ablation (Oral Presentation) Shubha Majumder, Clemson University
14:20, R2_Th3_4. Ultrafast 10.6 μm CO_2 Laser Sintering of SiC–Oxide Ceramic Systems for Environmental Barrier Coating Applications (Oral Presentation) Gideon Irogbele, Clemson University
14:40 - 15:00, R2_Th3_5. Electric fields in laser induced forward transfer for modulating jet dynamics and enhanced resolution (Oral Presentation) Ankit Das, Princeton University

Thursday, 6/11/2026
R2Th4 – Beam shaping

15:30, R2_Th4_1. Passive stabilization of femtosecond laser beam thanks to Multi Plane Light Conversion technology for hollow core fiber injection at high power (Oral Presentation) Gwenn Pallier, CAILABS
15:50, R2_Th4_2. Holographic laser processing using hologram design based on the estimation of fabricated structures (Oral Presentation) Satoshi Hasegawa, Center for Optical Research and Education (CORE), Utsunomiya University
16:10 - 16:30, R2_Th4_3. Development of a rotating Bessel-beam two-photon light-sheet microscope for deep volumetric imaging of biological tissues (Oral Presentation) Hussein Hammoud, Institute of Medical Biotechnology, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Germany

Thursday, 6/11/2026
R3Th1 – Surface micro/nano structuring I

08:30, R3_Th1_1. Femtosecond Laser Surface Functionalization and Applications in Renewable Energy (Invited Presentation) Chunlei Guo, University of Rochester
09:00, R3_Th1_2. Ultrafast Laser-Induced Micro/Nanostructures on CoCrMo Alloys and Their Surface Properties (Oral Presentation) Hsuan-Kai Lin, National Pingtung University of Science and Technology
09:20, R3_Th1_3. Femtosecond laser texturing for functional glass surfaces (Oral Presentation) Bogusz Stępak, Fluence Technology
09:40 - 10:00, R3_Th1_4. Influence of laser-induced surface topography and coverage on the delamination resistance of copper-EMC interfaces (Oral Presentation) Annette Brunner, Schaeffler Technologies AG

Thursday, 6/11/2026
R3Th2 – Surface micro/nano structuring II

10:30, R3_Th2_1. Femtosecond laser processing for GaN-based electronic devices (Oral Presentation) Paulius Gecys, Center for Physical Sciences and Technology (FTMC)
10:50, R3_Th2_2. Tunable Wettability on PMMA Surfaces via Femtosecond Laser Uniform Scanning and Periodic Micropillars (Oral Presentation) Shubha Majumder, Clemson University
11:10, R3_Th2_3. Atmosphere-resolved process mapping of surface structuring on porous nickel fiber materials via ultrafast pulsed laser (Oral Presentation) Haujin Salih, Ruhr Universität Bochum
11:30 - 12:00, R3_Th2_4. Nanostructuring by transient field-defect interplay with THz repetition-rate ultrashort pulses (Invited Presentation) Xiaoming Yu, University of Central Florida

Thursday, 6/11/2026
R3Th3 – Surface micro/nano structuring III

13:30, R3_Th3_1. Scalable Surface Engineering with Self-Organized Laser Functionalization and Applications (Invited Presentation) Craig Zuhlke, University of Nebraska-Lincoln
14:00, R3_Th3_2. Bridging micro/nanostructures and mass production: scalable laser-engineered antimicrobial surfaces (Oral Presentation) Petr Hauschwitz, Hilase Centre, Institute of Physics, Academy of Sciences of the Czech Republic, Za Radnici 828, Dolni Brezany, 25241, Czechia
14:20, R3_Th3_3. Upscaling femtosecond laser patterning of titanium surfaces to improve peri-implant health (Oral Presentation) Sylvie CASTAGNE, KU Leuven
14:40 - 15:00, R3_Th3_4. Control of cellular growth via surface topographies formed by different GHz burst modes of femtosecond laser (Oral Presentation) Shota Kawabata, RIKEN Center for Advanced Photonics, Tokyo University of Agriculture and Technology