

World of Photonics Congress 2017 - Session Overview

	Plenary / Keynote / Award		CLEO®/Europe-EQEC		European Conferences on Biomedical Optics (ECBO)
	Joint - Sessions		EOS Conferences on Optical Technologies		LiM - Lasers in Manufacturing
			SPIE Digital Optical Technologies (DOT) / H4 Hotel		SPIE Optical Metrology (OM)

Day Room	Sunday June 25	Monday June 26	Tuesday June 27	Wednesday June 28	Thursday June 29
Room 1, Ground Floor, ICM	CJ - Fibre and Guided Wave Lasers and Amplifiers 10:30 - 12:00 Tunable fiber lasers 14:00 - 15:30 Raman fiber lasers and amplifiers 16:00 - 17:30 New optical techniques and components 18:00 - 19:30 Nonlinear effects in fibre optics and applications	08:30 - 09:30 CLEO®/Europe 2017 Plenary Talk 09:45 - 11:00 World of Photonic Congress Opening and Plenary Talk CJ - Fibre and Guided Wave Lasers and Amplifiers 11:15 - 12:45 Coherent beam combining of fiber laser systems 14:30 - 16:00 Mode instabilities in high power fibre lasers JSQ 16:30 - 17:30 Industrial Perspective on Quantum Technologies	CJ - Fibre and Guided Wave Lasers and Amplifiers 08:30 - 10:00 Specialty optical fibers and materials 10:30 - 12:30 EQEC 2017 Plenary Talk and Award Ceremony CJ - Fibre and Guided Wave Lasers and Amplifiers 14:30 - 16:00 Hollow core fibres and applications 16:00 - 17:30 High-power fibre lasers	10:30 - 11:25 SPIE Optical Metrology / Digital Optical Technologies Plenary Session CM - Materials Processing with Lasers 14:00 - 15:30 Ultrashort laser material processing 16:00 - 17:30 Laser nanoprocessing and applications	ED - Precision Metrology and Frequency Combs 08:30 - 10:00 Gravitational wave detectors and high finesse CJ - Fibre and Guided Wave Lasers and Amplifiers 10:30 - 12:00 Mid-infrared fiber laser systems 14:00 - 15:30 Low noise fibre lasers 16:00 - 17:30 Mode-locked fibre lasers
Room 2, Ground Floor, ICM	Clinical and Preclinical Optical Diagnostics 8:30 - 10:00 Novel Microscopic Methods 10:30 - 12:00 Physiological Monitoring 14:00 - 15:30 Multispectral Imaging 16:00 - 17:30 Neurophotonics	11:15 - 12:45 Joint Session CLEO®/Europe-ECBO Macro Processing 14:30 - 16:00 Joining (Welding and Brazing) 1 16:30 - 18:00 Joining (Welding and Brazing) 2	Macro Processing 08:30 - 10:00 Joining (Welding and Brazing) 3 10:30 - 12:00 Joining (Welding and Brazing) 4 14:00 - 15:30 Joining (Welding and Brazing) 5 16:00 - 17:45 Joining (Welding and Brazing) 6	Macro Processing 08:30 - 10:00 Joining (Welding and Brazing) 7 10:30 - 12:00 Processing of Transparent Materials 2 14:00 - 15:30 Processing of Transparent Materials 3 16:00 - 17:45 Processing of Transparent Materials 4	Micro Processing 08:30 - 10:00 Processing of Transparent Materials 1 10:30 - 12:00 Surface Functionalization 1 14:00 - 15:30 Surface Functionalization 2 16:00 - 17:45 Surface Functionalization 3
Room 3, Ground Floor, ICM	CC - Terahertz Sources and Applications 10:30 - 12:00 Nonclassical and high field THz pulses 14:00 - 15:30 Nonlinear THz sources 16:00 - 17:30 THz quantum cascade lasers and combs 18:00 - 19:30 THz near field microscopy and spectroscopy	CC - Terahertz Sources and Applications 11:15 - 12:45 THz spectroscopy Micro Processing 14:30 - 16:00 Ablation, Drilling and Micro-Cutting 1 16:30 - 18:00 Ablation, Drilling and Micro-Cutting 2	Micro Processing 08:30 - 10:00 Ablation, Drilling and Micro-Cutting 3 10:30 - 12:00 Ablation, Drilling and Micro-Cutting 4 14:00 - 16:00 Ablation, Drilling and Micro-Cutting 5 Additive Manufacturing 16:00 - 17:45 SLM-Metal 2	Additive Manufacturing 08:30 - 10:00 SLM-Metal 3 10:30 - 12:00 SLM-Metal 4 14:00 - 15:30 LIA-Session 1 16:00 - 17:45 SLM-Metal 5	Additive Manufacturing 08:30 - 10:00 SLM-Metal 1 10:30 - 10:45 Laser Metal Deposition 1 14:00 - 15:30 Laser Metal Deposition 2 16:00 - 17:45 Laser Metal Deposition 3
Room 4a, Ground Floor, ICM	CG - High-Field Laser and Attosecond Science 10:30 - 12:00 Attosecond wave optics and vectorial fields 14:00 - 15:30 High-Harmonic generation in solids 16:00 - 17:30 Strong-field physics in the condensed phase 18:00 - 19:30 Waveform synthesis and relativistic laser matter	JSI - Free Electron Lasers and Applications 11:15 - 12:45 Principals and new approaches CG - High-Field Laser and Attosecond Science 14:30 - 16:00 Attosecond and high-field physics in molecules JSI - Free Electron Lasers and Applications 16:30 - 18:00 Time resolved and complete experiments	CG - High-Field Laser and Attosecond Science 08:30 - 10:00 EUV source development 14:00 - 15:30 Momentum imaging of strong-field processes in atoms and small molecules CB - Semiconductor Lasers 16:00 - 17:30 Vertical-external cavity semiconductor lasers	CB - Semiconductor Lasers 08:30 - 10:00 Mid-infrared and terahertz semiconductor lasers 10:30 - 12:00 Semiconductor lasers for optical communications 14:00 - 15:30 Quantum-dot lasers 16:00 - 17:30 Semiconductor photonic crystal lasers	CB - Semiconductor Lasers 08:30 - 10:00 Advanced fabrication of semiconductor lasers I 10:30 - 12:00 Advanced fabrication of semiconductor lasers II 14:00 - 15:30 Ultrafast semiconductor lasers 16:00 - 17:30 Semiconductor laser dynamics

Room 4b, Ground Floor, ICM	EG – Light-matter Interactions at the Nano-scale 10:30 - 12:00 Nonlinear nano-optics 14:00 - 15:30 Complex electromagnetic fields 16:00 - 17:30 Quantum nano-optics 18:00 - 19:30 Interaction with electrons and strong-field	JSIV - Topological Insulators in Optics 11:15 - 12:45 Topology with hybrid systems 14:30 - 16:00 Topology with photons 16:30 - 18:00 Topological phenomena	EG – Light-matter Interactions at the Nano-scale 08:30 - 10:00 Emission control and strong coupling 14:00 - 15:30 Single photon sources EH – Plasmonics and Metamaterials 16:00 - 17:30 Van der Waals layered materials for plasmonics	EH – Plasmonics and Metamaterials 08:30 - 10:00 New materials for plasmonics and metamaterials 10:30 - 12:00 Plasmonics light-matter interactions EH – Plasmonics and Metamaterials 14:00 - 15:30 Epsilon near zero and hyperbolic structures 16:00 - 17:30 Active and tunable nanophotonics	EH – Plasmonics and Metamaterials 08:30 - 10:00 Tailoring light with metasurfaces 10:30 - 12:00 Quantum nanophotonics 14:00 - 15:30 Ultrafast and non-linear plasmonics 16:00 - 17:30 Non-linear II and infrared plasmonics
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Room 5, Ground Floor, ICM	Diffuse Optical Spectroscopy and Imaging 8:30 - 10:00 Advances in Instrumentation and Technology I 10:30 - 12:00 Theory, Algorithms and Modeling I 14:00 - 15:30 Advances in Instrumentation and Technology II 16:00 - 17:30 Theory, Algorithms and Modeling II	Diffuse Optical Spectroscopy and Imaging 11:00 - 12:30 Advances in Instrumentation and Technology III 14:30 - 16:00 Advances in Instrumentation and Technology IV 16:30 - 18:00 Clinical and Preclinical Applications of Diffuse Optics I	Diffuse Optical Spectroscopy and Imaging 08:30 - 10:00 Clinical and Preclinical Applications of Diffuse Optics II 10:30 - 12:00 Clinical and Preclinical Applications of Diffuse Optics III 14:15 - 15:30 ECBO Plenary Session Diffuse Optical Spectroscopy and Imaging 16:00 - 17:30 Clinical and Preclinical Applications of Diffuse Optics IV 18:00 - 19:30 ECBO Postdeadline Session II	Optical Coherence Imaging Techniques and Imaging in Scattering Media 08:30 - 10:00 Control of Coherent Light in Scattering Media 10:30 - 12:00 Polarization sensitive Optical Coherence Imaging 14:00 - 15:30 Medical applications of Optical Coherence Tomography 16:00 - 17:30 Speckles and Coherence Imaging	CM - Materials Processing with Lasers 08:30 - 10:00 Laser material processing for biomedical applications 10:30 - 12:00 Laser surface structuring 14:00 - 15:30 Laser processing of silicon 16:00 - 17:30 Polarisation effects in laser processing
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Room 11, 1st Floor, ICM	Novel Biophotonics Techniques and Applications 8:45 - 10:00 Biosensing 10:30 - 12:00 Endogenous Molecular Sensing 14:15 - 15:30 Elastography 16:00 - 17:30 Multiphoton Applications	Novel Biophotonics Techniques and Applications 11:00 - 12:00 Ophthalmic Applications 14:30 - 16:00 Multi-modal and Lensless Imaging 16:30 - 18:00 Fibers and Flexible Probe Studies	Optical Coherence Imaging Techniques and Imaging in Scattering Media 08:30 - 09:15 Advances in Optical Coherence Imaging Technology I 10:30 - 12:00 Optical Coherence Imaging of Brain Tissue 16:00 - 17:30 Advances in Optical Coherence Imaging Technology II	Advances in microscopic imaging 08:30 - 10:00 Multiphoton Microscopy: Applications 10:30 - 12:00 Multiphoton Microscopy: Technology 14:00 - 15:30 Neurophotonics and Optogenetics 16:00 - 17:30 Light-sheet and Optical Projection Tomography	Optical Coherence Imaging Techniques and Imaging in Scattering Media 08:30 - 10:00 Advances of OCT for Eye Imaging 10:30 - 12:00 Advances in Optical Coh Imag Tech III Advances in microscopic imaging 14:00 - 15:30 Phase Imaging 16:00 - 17:30 Holographic Techniques
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Room 12a, 1st Floor, ICM	SH Laser Beam, Analysis, Propagation and Spatial Shaping Techniques 08:30 - 10:00 Part 1 10:30 - 12:00 Part 2 SH Mid- infrared Semiconductor Lasers 14:00 - 15:30 Part 1 16:00 - 17:30 Part 2	Modeling Aspects in Optical Metrology 11:20 - 11:30 Welcome and Introduction 11:30 - 12:50 Light Scattering 14:10 - 16:00 Optical Systems 16:30 - 17:30 Mueller Polarimetry	Modeling Aspects in Optical Metrology 08:50 - 10:00 Interferometry and Phase I 10:30 - 11:50 Interferometry and Phase II 13:30 - 15:20 Scatterometry 16:00 - 17:50 Surface Topography and Form	Modeling Aspects in Optical Metrology 08:50 - 10:00 Gratings: LER and Polarisation 13:50 - 15:30 Microscopy and Imaging JS SPIE/OM/EQEC 16:00 - 17:30 Light and structure	Automated Visual Inspection and Machine Vision 08:55 - 09:00 Opening Remarks 09:00 - 10:00 Image Acquisition 10:30 - 11:10 Simulation 11:10 - 11:50 Multispectral inspection 13:50 - 15:30 Inspection, Monitoring and Detection
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Room 12b, 1st Floor, ICM	SH Practical Quantum Optics 08:30 - 10:00 Part 1 10:30 - 12:00 Part 2 SH Terahertz Measurements and their Applications 14:00 - 15:30 Part 1 16:00 - 17:30 Part 2	Videometrics, Range Imaging, and Applications 11:25 - 11:30 Opening Remarks 11:30 - 13:00 Accuracy of Systems 14:10 - 15:50 Calibration and Matching 16:30 - 17:50 3D Sensing	Videometrics, Range Imaging, and Applications 08:30 - 10:00 Optical Sensing 10:30 - 11:50 Mobile Sensing 14:10 - 15:30 Applications	O3A: Optics for Arts, Architecture and Archaeology 08:30 - 10:00 Integrated Techniques and Case Studies 13:40 - 15:30 New Methods and Applications for Restoration 16:00 - 17:50 3D Imaging, Scanning, Topography, and Tomography	O3A: Optics for Arts, Architecture and Archaeology 08:30 - 10:00 Structure and Material Analysis 10:30 - 11:40 Statigraphic and Depth-resolved Methods 11:40 - 12:20 Methods and Instruments for the Upcoming European Research Infrastructure for Heritage Science I 13:30 - 15:30 Methods and Instruments for the Upcoming European Research Infrastructure for Heritage Science II 15:30 - 15:40 Closing Remarks
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Room 13a, 1st Floor, ICM	CA - Solid-state Lasers 10:30 - 12:00 Novel solid-state-laser concepts 14:00 - 15:45 Spatial mode control 16:00 - 17:30 Diode-laser-pumped transition metal lasers 18:00 - 19:30 Neodymium lasers	CA - Solid-state Lasers 11:15 - 12:45 Two micron lasers 14:30 - 16:00 Ytterbium lasers 16:30 - 18:00 Thin-disk lasers	CA - Solid-state Lasers 08:30 - 10:00 Stabilised and low-noise lasers 14:00 - 15:30 High intensity lasers CH - Optical Sensing and Metrology 16:00 - 17:30 Novel sensing schemes	CH - Optical Sensing and Metrology 08:30 - 10:00 Surface enhanced sensing 10:30 - 12:00 Optical fibre refractometres 14:00 - 15:30 Optical fibre sensors and devices 16:00 - 17:30 Distributed optical fibre sensors 19:00 - 20:30 Postdeadline session 1	CH - Optical Sensing and Metrology 08:30 - 10:00 Integrated sensors 10:30 - 12:00 Imaging sensors 14:00 - 15:30 Spectroscopy of solids and liquids 16:00 - 17:30 Physical parameters metrology and sensing
Room 13b, 1st Floor, ICM	CK - Micro- and Nano-Photonics 10:30 - 12:00 Nanocavities 14:00 - 15:30 Nonlinear micro- and nanophotonics 16:00 - 17:30 Integrated photonic circuits 18:00 - 19:30 Metamaterials and surfaces	11:15 - 13:10 LiM Plenary Session and WLT ceremony CK - Micro- and Nano-Photonics 14:30 - 16:00 Whispering gallery resonators 16:30 - 18:00 Silicon nitride integrated optics	CK - Micro- and Nano-Photonics 08:30 - 10:00 Mode control 14:00 - 15:30 Quantum micro- and nanophotonics 16:00 - 17:30 Photonic nanowires and fibers	EF - Nonlinear Phenomena, Solitons and Self-organization 08:30 - 10:00 Microresonators 10:30 - 12:00 Structured light CK - Micro- and Nano-Photonics 14:00 - 15:30 Light control 16:00 - 17:30 Ordered and disordered photonic structures 19:00 - 20:30 Postdeadline session 2	EF - Nonlinear Phenomena, Solitons and Self-organization 08:30 - 10:00 Semiconductor lasers 10:30 - 12:00 Optical event horizon, stochastic dynamics and multiphoton effects CK - Micro- and Nano-Photonics 14:00 - 15:30 Fabrication of micro- and nanophotonics 16:00 - 17:30 Characterization of photonic nanostructures
Room 14a, 1st Floor, ICM	EA - Quantum Optics 10:30 - 12:00 Foundations of quantum mechanics 14:00 - 15:30 Optomechanics 16:00 - 17:30 Cavity quantum optics 18:00 - 19:30 Atoms and photons	EB - Quantum Information, Communication, and Sensing 11:15 - 12:45 Quantum simulations EF - Nonlinear Phenomena, Solitons and Self-organization 14:30 - 16:00 Kerr solitons 16:30 - 18:00 Mode-locking	EB - Quantum Information, Communication, and Sensing 08:30 - 10:00 Quantum networks EC – Ultracold Quantum Matter and Quantum Simulation 14:00 - 15:30 Quantum matter I 16:00 - 17:30 Quantum matter II	EA - Quantum Optics 08:30 - 10:00 Quantum simulation and control 10:30 - 12:00 Quantum light from solid state emitters 14:00 - 15:30 Quantum light sources EB - Quantum Information, Communication, and Sensing 16:00 - 17:30 Quantum photonics and state estimation	EA - Quantum Optics 08:30 - 10:00 Integrated quantum optics 10:30 - 12:00 Quantum measurements I 14:00 - 15:30 Quantum measurements II 16:00 - 17:30 Hybrid quantum systems
Room 14b, 1st Floor, ICM	CH - Optical Sensing and Metrology 10:30 - 12:00 Gas sensing I 14:00 - 15:30 Molecular spectroscopy 16:00 - 17:30 Gas sensing II CD - Applications of Nonlinear Optics 18:00 - 19:30 Nonlinearities in fibers	CD - Applications of Nonlinear Optics 11:15 - 12:45 Nonlinearities in waveguides and fibers 14:30 - 16:00 Nonlinearities with different dimensions 16:30 - 18:00 Nonlinearities and metamaterials	CD - Applications of Nonlinear Optics 08:30 - 10:00 Brillouin lasers and scattering 14:00 - 15:30 Control of light 16:00 - 17:30 Nonlinearities in resonant structures I	CD - Applications of Nonlinear Optics 08:30 - 10:00 Nonlinearities in resonant structures II 10:30 - 12:00 Novel applications of quantum computing and information I 14:00 - 15:30 Novel applications of quantum computing and information II 16:00 - 17:30 Novel applications of quantum computing and information III	CD - Applications of Nonlinear Optics 08:30 - 10:00 Optical parametric oscillators 10:30 - 12:00 Novel Mid-IR generation and applications I 14:00 - 15:30 Mid-IR generation and applications II 16:00 - 17:30 Nonlinearities and imaging
Room 14c, 1st Floor, ICM	CM - Materials Processing with Lasers 10:30 - 12:00 Laser induced forward transfer and pulsed laser deposition 14:00 - 15:30 Fundamentals and mechanisms of laser-matter 16:00 - 17:30 Beam shaping for material processing 18:00 - 19:30 Direct laser writing of waveguides	Optical Measurement Systems for Industrial Inspection X 08:25 - 08:30 Welcome and Introduction 08:30 - 10:00 Interometric Techniques I 11:20 - 12:40 Interometric Techniques II 14:00 - 16:00 Digital Holography and Holographic Microscopy 16:30 - 18:10 OCT and Coherence Scanning	Optical Measurement Systems for Industrial Inspection X 08:30 - 10:00 High-Speed Techniques 10:30 - 11:30 Fringe Projection I 14:10 - 15:30 Fringe Projection II 16:00 - 18:00 Special Session: Spectroscopic Techniques in Industrial and Astronomical Applications	Optical Measurement Systems for Industrial Inspection X 08:10 - 10:00 High-Resolution Profiling I 11:30 - 13:00 High-Resolution Profiling II	Optical Measurement Systems for Industrial Inspection X 08:20 - 10:00 Speckle Metrology 10:20 - 12:30 In-situ and Nondestructive Testing I 13:30 - 15:40 In-situ and Nondestructive Testing II 16:00 - 17:20 In-situ and Nondestructive Testing III
Room 21, 2nd Floor, ICM	SH Ultrashort Pulse Characterization 08:30 - 10:00 Part 1 10:30 - 12:00 Part 2 SH Quantum Detection and Processing 14:00 - 15:30 Part 1 16:00 - 17:30 Part 2	Manufacturing of Optical Systems 11:15 - 12:45 Manufacturing of Optical Systems 14:30 - 16:00 Manufacturing of Optical Systems: Fabrication 1 16:30 - 18:00 Manufacturing of Optical Systems: Fabrication 2	Manufacturing of Optical Systems 08:30 - 10:00 Manufacturing of Optical Systems: Fabrication 3 10:30 - 12:00 Manufacturing of Optical Systems: EUV and X-Ray 14:00 - 15:30 Manufacturing of Optical Systems: Giants	Manufacturing of Optical Systems 08:30 - 10:00 Manufacturing of Optical Systems: Structured Surfaces 10:30 - 12:00 Manufacturing of Optical Systems: Optical Microsystems	EI - Two-dimensional Materials 08:30 - 10:00 Quantum phenomena in 2D materials 10:30 - 12:00 Graphene devices and spectroscopy 14:00 - 15:30 Valley dynamics in 2D materials 16:00 - 17:30 Optoelectronic integration of 2D materials

				Joint Session OM-EOS 14:00 - 15:30 High-Precision Measurement of Optical Components and Systems I 16:00 - 18:10 High-Precision Measurement of Optical Components and Systems II	
Room 22a, 2nd Floor, ICM	SH High Power Fiber Lasers 08:30 - 10:00 Part 1 10:30 - 12:00 Part 2 SH Frequency Combs and Applications 14:00 - 15:30 Part 1 16:00 - 17:30 Part 2	Light Engineering 11:15 - 12:45 Light Engineering 1 14:30 - 16:00 Light Engineering 2 16:30 - 18:00 Light Engineering 3	Light Engineering 08:30 - 10:00 Light Engineering 4 10:30 - 12:00 Light Engineering 5 14:00 - 15:30 Light Engineering 6 16:00 - 17:30 Light Engineering 7	Optofluidics 14:00 - 15:30 Optofluidics: Emerging Optofluidic Concepts 1 16:00 - 17:30 Optofluidics: Emerging Optofluidics Concepts 2	Optofluidics 08:30 - 10:00 Optofluidics: Fundamental Optofluidics 10:30 - 12:00 Optofluidics: Optofluidic Sensors, Modulators and Lasers 14:00 - 15:30 Optofluidics: Optofluidics in Single-Cell Screening 16:00 - 17:30 Optofluidics: Emerging Optofluidic Concepts 3
Room 22b, 2nd Floor, ICM	SH Optical Parametric Oscillators 08:30 - 10:00 Part 1 10:30 - 12:00 Part 2 SH Silicon Photonics 14:00 - 15:30 Part 1 16:00 - 17:30 Part 2	Macro Processing 14:30 - 16:00 System Technology and Process Control 1 16:30 - 18:00 System Technology and Process Control 2	Micro Processing 08:30 - 10:00 System Technology and Process Control 2 10:30 - 12:00 System Technology and Process Control 3 Macro Processing 14:00 - 15:30 Cutting and CFRP-Processing 1 16:00 - 17:45 Cutting and CFRP-Processing 2	Macro Processing 08:30 - 10:00 Surface Treating and Cladding 1 10:30 - 12:00 Surface Treating and Cladding 2 Micro Processing 14:00 - 15:30 Micro-Joining (Welding and Brazing) 1 16:00 - 17:45 Micro-Joining (Welding and Brazing) 2	Micro Processing 08:30 - 10:00 Fundamentals and Process Simulation 1 10:30 - 12:00 System Technology and Process Control 1 Macro Processing 14:00 - 15:30 Fundamentals and Process Simulation 1 16:00 - 17:45 Fundamentals and Process Simulation 2
Room "Einstein" (B11), Hall B1/1st floor	CF - Ultrafast Optical Technologies 10:30 - 12:00 Techniques for ultrafast oscillators 14:00 - 15:30 High-power parametric amplifiers 16:00 - 17:30 High-power ultrafast techniques 18:00 - 19:30 Ultrafast parametric processes	CF - Ultrafast Optical Technologies 11:15 - 12:45 High-power and short-pulse oscillators 14:40 - 16:00 XUV generation and applications 16:30 - 18:00 Optical parametric amplification	JSV - Perovskite Optoelectronics 08:30 - 10:00 Materials and optoelectronics devices 14:00 - 15:30 Optoelectronic processes 16:00 - 17:30 Perovskite photonics	CF - Ultrafast Optical Technologies 08:30 - 10:00 Strong-field techniques 10:30 - 12:00 Ultrafast fiber lasers 14:00 - 15:30 Ultrafast techniques for spectroscopy 16:00 - 17:30 Characterization of ultrashort pulses	CF - Ultrafast Optical Technologies 08:30 - 10:00 Ultrafast nonlinear optics 10:30 - 12:00 Broadband optical technologies CA - Solid-state Lasers 14:00 - 15:30 Mid-infrared sources 16:00 - 17:30 Raman lasers
Room "Hertz" (B21), Hall B2/1st floor	EE - Ultrafast Optical Science 10:30 - 12:00 Ultrafast spectroscopy and phase control 14:00 - 15:30 Filamentation dynamics and THz generation in gases 16:00 - 17:30 Ultra-fast soliton dynamics 18:00 - 19:30 Controlled ultra-fast dynamics in solid-state materials	Clinical and Preclinical Optical Diagnostics 11:00 - 12:30 Endoscopic and Intraoperative Imaging I 14:30 - 16:00 Therapy Response 16:30 - 18:00 Endoscopic and Intra-operative Imaging II	Novel Biophotonics Techniques and Applications 08:30 - 09:30 Novel Approaches 10:30 - 12:00 Fluorescence and Scattering Studies Advances in microscopic imaging 16:00 - 17:30 FLIM and Polarization Techniques	Opto-Acoustic Methods and Applications 08:30 - 10:00 Novel Systems II: Microscopy 10:30 - 11:45 Towards Clinical Applications 14:00 - 15:30 Novel Systems III 16:00 - 17:30 Modeling and Algorithms	Advances in microscopic imaging 08:30 - 10:00 Novel Techniques 10:30 - 12:00 Medical Applications: Nanoscopy
Room "Maiman" (B32), Hall B3/1st floor		11:00 - 12:30 ECBO Postdeadline Session I Optical Coherence Imaging Techiques and Imaging in Scattering Media 14:30 - 16:00 Phase Sensitiver and Doppler Imaging 16:30 - 18:00 Ophthalmic OCT Imaging	Clinical and Preclinical Optical Diagnostics 08:30 - 10:00 In vitro Sensing and Imaging Analysis Opto-Acoustic Methods and Applications 10:30 - 12:00 Novel Systems I: Microscopy Medical Laser Applications and Laser-Tissue Interactions 16:00 - 17:30 PDT & LLLT	Medical Laser Applications and Laser-Tissue Interactions 08:30 - 10:00 PDT and Vasculatur 10:30 - 12:00 Nanoparticle and Light 14:00 - 15:30 Pulsed Laser Application 16:00 - 17:30 Tissue Characterisation	Medical Laser Applications and Laser-Tissue Interactions 08:30 - 10:00 Diagnosis I 10:30 - 12:00 Diagnosis II
Room Röntgen (A41/A42), Hall A4/1st floor	CI - Optical Technologies for Communications and Data Storage 10:00 - 12:30 Nonlinear propagation 14:00 - 15:30 Techniques for noise reduction in transmission 16:00 - 17:30 Photonic processing 18:00 - 19:30 Short-reach systems	CI - Optical Technologies for Communications and Data Storage 11:15 - 12:45 Technologies for high capacity networks 14:30 - 16:00 Optical sources JSIII - Photonics in Cancer Detection and Therapy 16:30 - 18:00 Microscopy and imaging of cells and tissue	CL - Photonic Applications in Biology and Medicine 08:30 - 10:00 Coherent biomedical spectroscopy and microscopy JSIII - Photonics in Cancer Detection and Therapy 14:00 - 15:30 Cancer diagnostics 16:00 - 17:30 Cancer therapy	CL - Photonic Applications in Biology and Medicine 08:30 - 10:00 Bioimaging 10:30 - 12:00 Labelfree imaging of drug distribution 14:00 - 15:30 Biosensing 16:00 - 17:30 Advanced laser applications in biomedicine	CJ - Fibre and Guided Wave Lasers and Amplifiers 08:30 - 10:00 Waveguides lasers and amplifiers ED - Precision Metrology and Frequency Combs 10:30 - 12:00 Optical clocks and low phase noise combs 14:00 - 15:30 Direct comb spectroscopy and low phase noise 16:00 - 17:30 Mid-infrared frequency combs

Room "Newton 1" (A31), Hall A3/1st floor		EJ – Theoretical and Computational Photonics 11:15 - 12:45 Photonics on the computer 14:30 - 16:00 Novel concepts for the manipulation of light		JS LIM/CLEO-1 + 2 08:30 - 10:00 Polymer optics and photonics I 10:30 - 12:00 Polymer optics and photonics II	
Room "Newton 2" (A32), Hall A3/1st floor	CE - Optical Materials, Fabrication and Characterisation 10:30 - 12:00 Rare earth doped laser materials 14:00 - 15:30 Integrated photonic devices 16:00 - 17:30 Thin film and multilayer materials and structures 18:00 - 19:30 Metasurfaces and metamaterials	CE - Optical Materials, Fabrication and Characterisation 11:15 - 12:45 Compound semiconductor photonic devices 14:30 - 16:00 Laser structuring 16:30 - 18:00 Novel optical materials and devices	CE - Optical Materials, Fabrication and Characterisation 08:30 - 10:00 Nonlinear optics EB - Quantum Information, Communication, and Sensing 14:00 - 15:30 Quantum sensing and optomechanics 16:00 - 17:30 Quantum computing	EB - Quantum Information, Communication, and Sensing 08:30 - 10:00 Quantum communication 10:30 - 12:00 Quantum memories EF - Nonlinear Phenomena, Solitons and Self-organization 14:00 - 15:30 Nonlinear Fibers 16:00 - 17:30 Rogue waves	EB - Quantum Information, Communication, and Sensing 08:30 - 10:00 Quantum interfaces CE - Optical Materials, Fabrication and Characterisation 10:30 - 12:00 Infrared materials 14:00 - 15:30 Optical fiber materials and structures 16:00 - 17:30 Laser material processing
Room "Edison" (A21/A22), Hall A2/1st floor	JSII - Advanced Microscopy and Nanoscopy 16:00 - 17:30 Tomography and computational imaging 18:00 - 19:30 Super-resolution nanoscopy	Optical Methods for Inspection, Characterization, and Imaging of Biomaterial 08:25 - 08:30 Opening Remarks 08:30 - 10:00 Optical imaging 11:20 - 13:00 Digital Holography and Tomography 14:00 - 16:20 Adaptive Optics 16:50 - 18:10 Interferometry	Optical Methods for Inspection, Characterization, and Imaging of Biomaterial 08:20 - 10:10 Optical Microscopy I 10:30 - 12:50 Optical Microscopy II 14:10 - 15:30 Interference and Speckle 16:00 - 17:50 Optical Coherence Tomography	Optical Methods for Inspection, Characterization, and Imaging of Biomaterial 08:30 - 10:00 Sensing and Detection 13:50 - 15:30 Optical Methods 16:00 - 17:40 Spectroscopy and Scattering	
H4 Hotel Messe München Room "Ludwig"	Digital Optical Technologies Courses 08:30-12:30 Using Spatial Light Modulators 13:30 - 17:30 Design, modeling and fabrication techniques for micro-optics: applications to display, imaging, sensing and metrology	Digital Optical Technologies 08:00 - 09:50 Optical Architectures for Augmented, Mixed and Virtual Reality 11:20 - 12:50 Computational Optics for Imaging and Sensing 14:00 - 15:40 Imaging and Combiner Optics for HMDs I 16:10 - 17:50 Imaging and Combiner Optics for HMDs II	Digital Optical Technologies 08:00 - 09:50 Metasurfaces for Imaging and Sensing 10:20 - 12:30 Tunable, Switchable and Reconfigurable Optics 13:40 - 15:30 Computer-generated Holography 16:00 - 17:50 Novel 3D Display Techniques and Technologies	Digital Optical Technologies 08:10 - 09:50 Digital Optics for Structured Illumination 13:50 - 15:30 Digital Optics for Sensing and Metrology 16:00 - 17:40 Digital Holography for Sensing and Imaging	
H4 Hotel Messe München Room "Leopold"	Digital Optical Technologies Courses 08:30-12:30 Optical technologies and architectures for Virtual Reality (VR), Augmented Reality (AR) and Mixed Reality (MR) Head Mounted Displays (HMDs) 13:30 - 17:30 Joint design of optics and image processing in computational sensing and imaging	Digital Optical Technologies 14:00 - 16:00 Augmented Reality / Virtual Reality Hands-On Demo Sessions	Digital Optical Technologies 10:00 - 16:00 Augmented Reality / Virtual Reality Hands-On Demo Sessions	Digital Optical Technologies 10:00 - 16:00 Augmented Reality / Virtual Reality Hands-On Demo Sessions	
Hall B0	Poster Sessions 13:00 - 14:00 CC - Terahertz Sources and Applications, CG - High-Field Laser and Attosecond Science, CI - Optical Technologies for Communications and Data Storage, CM - Materials Processing with Lasers, EE - Ultrafast Optical Science, EG – Light-matter Interactions at the Nano-scale, JSII - Advanced Microscopy and Nanoscopy	Poster Sessions 13:30 - 14:30 CE - Optical Materials, Fabrication and Characterisation, CJ - Fibre and Guided Wave Lasers and Amplifiers, CK - Micro- and Nano-Photonics, EJ – Theoretical and Computational Photonics, JSI - Free Electron Lasers and Applications, JSIV - Topological Insulators in Optics	Poster Sessions 13:00 - 14:00 CA - Solid-state Lasers, CD - Applications of Nonlinear Optics, CL - Photonic Applications in Biology and Medicine , EC – Ultracold Quantum Matter and Quantum Simulation, JSIII - Photonics in Cancer Detection and Therapy, JSV - Perovskite Optoelectronics	Poster Sessions 13:00 - 14:00 CB - Semiconductor Lasers, CF - Ultrafast Optical Technologies, EB - Quantum Information, Communication, and Sensing, EH - Plasmonics and Metamaterials	Poster Sessions 13:00 - 14:00 CH - Optical Sensing and Metrology, EA - Quantum Optics, ED - Precision Metrology and Frequency Combs, EF - Nonlinear Phenomena, Solitons and Self-organization, EI - Two-dimensional Materials
	12:00 - 14:00 ECBO Poster Session I			12:00 - 14:00 ECBO Poster Session II	
			12:50 - 14:00 EOS Light Engineering, EOS Optofluidics	12:40 - 13:50 Digital Optical Technologies	
			12:50 -14:10 Optical Measurement Systems for Industrial Inspection X 13:00 - 14:10 Videometrics, Range Imaging, and Applications	11:30 - 12:30 O3A: Optics for Arts, Architecture and Archaeology 12:40 -13:50 Modeling Aspects in Optical Metrology, Optical Methods for Inspection, Characterization and Imaging of Biomaterial	12:50 - 13:50 Automated Visual Inspection and Machine Vision