

## PLENARY SESSIONS

- PL-1 Welcome Words and World of Photonics Congress Plenary Talk by 2020 Nobel Prize Co-Laureate**  
Monday, 11:00 - 12:30, ROOM 1
- PL-2 CLEO/Europe Plenary Talk**  
Monday, 16:30 - 17:30, ROOM 1
- PL-3 EQEC Plenary Talk and Award Ceremony**  
Tuesday, 09:00 - 10:30, ROOM 1

## SPECIAL EVENTS

- SP-1 Herbert Walter Award & Wolfgang Peter Schleich Talk**  
Tuesday, 14:30 - 15:30, ROOM 1
- SP-2 Hot Topics: What's Next in Integrated Frequency Combs**  
Wednesday, 13:30 - 14:30, ROOM 5

## CLEO®/EUROPE 2021 SESSIONS

### CA – SOLID-STATE LASERS

- CA-1 Visible Lasers**  
Monday, 08:30 - 10:00, ROOM 1
- CA-P CA Poster Session**  
Monday, 10:00 - 11:00, ROOM 1
- CA-2 2- $\mu$ m Lasers**  
Monday, 14:30 - 16:00, ROOM 3
- CA-3 High-intensity and Nonlinear Systems**  
Tuesday, 16:30 - 18:00, ROOM 4

- CA-4 Novel Laser Concepts**  
Tuesday, 18:30 - 20:00, ROOM 5
- CA-5 Mid-infrared Lasers**  
Wednesday, 08:30 - 10:00, ROOM 2
- CA-6 High-Power Yb-lasers**  
Wednesday, 11:00 - 12:30, ROOM 10
- CA-7 Ultrafast Lasers**  
Wednesday, 14:30 - 16:00, ROOM 9
- CA-8 Laser Beam Control**  
Thursday, 08:30 - 10:00, ROOM 5
- CA-9 Laser Materials**  
Thursday, 11:00 - 12:30, ROOM 1

### CB – SEMICONDUCTOR LASERS

- CB-1 Photonic Crystal and Membrane Lasers**  
Monday, 08:30 - 10:00, ROOM 2
- CB-P CB Poster Session**  
Monday, 10:00 - 11:00, ROOM 2
- CB-2 High Power Semiconductor Lasers**  
Tuesday, 16:30 - 18:00, ROOM 8
- CB-3 Technologies for LIDAR Applications**  
Wednesday, 08:30 - 10:00, ROOM 3
- CB-4 Quantum Cascade Lasers**  
Wednesday, 11:00 - 12:30, ROOM 5
- CB-5 Mid-infrared Semiconductor Lasers**  
Wednesday, 14:30 - 16:00, ROOM 4
- CB-6 Integration on Silicon**  
Thursday, 08:30 - 10:00, ROOM 4
- CB-7 Short Wavelength Sources and Applications**  
Thursday, 11:00 - 12:30, ROOM 2
- CB-8 Semiconductor-based Frequency Combs**  
Thursday, 14:30 - 16:00, ROOM 9
- CB-9 Dynamics and Novel Concepts in Semiconductor Lasers**  
Thursday, 16:30 - 18:00, ROOM 11

### CC – TERAHERTZ SOURCES AND APPLICATIONS

- CC-1 THz Strong Field Applications**  
Monday, 18:00 - 19:30, ROOM 1
- CC-2 Nonlinear THz Spectroscopy and Techniques**  
Tuesday, 11:00 - 12:30, ROOM 3
- CC-3 High Power THz Sources**  
Tuesday, 18:30 - 20:00, ROOM 12
- CC-4 Novel Approach THz Sources**  
Wednesday, 08:30 - 10:00, ROOM 4
- CC-P CC Poster Session**  
Wednesday, 10:00 - 11:00, ROOM 1
- CC-5 THz Imaging**  
Thursday, 11:00 - 12:30, ROOM 3
- CC-6 THz Devices and Communications**  
Friday, 08:30 - 10:00, ROOM 2
- CC-7 THz QCL**  
Friday, 11:00 - 12:30, ROOM 11
- CC-8 THz QCL-combs and Imaging**  
Friday, 14:30 - 16:00, ROOM 6

### CD – APPLICATIONS OF NONLINEAR OPTICS

- CD-1 Nonlinear Metasurfaces**  
Monday, 14:30 - 16:00, ROOM 2
- CD-2 Solitons**  
Monday, 18:00 - 19:30, ROOM 8
- CD-3 Microresonators and Waveguides**  
Tuesday, 11:00 - 12:30, ROOM 10
- CD-P CD Poster Session**  
Tuesday, 13:30 - 14:30, ROOM 1
- CD-4 Microresonators**  
Tuesday, 16:30 - 18:00, ROOM 2
- CD-5 Supercontinuum Generation**  
Tuesday, 18:30 - 20:00, ROOM 6
- CD-6 Guided Wave Devices**  
Wednesday, 08:30 - 10:00, ROOM 11
- CD-7 Tunable Light Sources**  
Thursday, 11:00 - 12:30, ROOM 4
- CD-8 Quantum Technologies**  
Thursday, 14:30 - 16:00, ROOM 10
- CD-9 Nonlinear Applications at Extreme Wavelengths**  
Thursday, 16:30 - 18:00, ROOM 2
- CD-10 Nonlinear Spectroscopy and Microscopy**  
Friday, 11:00 - 12:30, ROOM 5
- CD-11 All-optical Control and Wavelength Conversion**  
Friday, 14:30 - 16:00, ROOM 1

**CD-12 Raman Amplification and Nonlinear Media**  
Friday, 16:30 - 18:00, ROOM 1

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**CE – OPTICAL MATERIALS,  
FABRICATION AND  
CHARACTERISATION**

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**CE-1 Photonic Structures**

Monday, 08:30 - 10:00, ROOM 3

**CE-10 Crystals, Glasses and Ceramics**

Thursday, 14:30 - 16:00, ROOM 6

**CE-2 Semiconductor for Photonic Devices**

Monday, 14:30 - 16:00, ROOM 1

**CE-3 Fabrication and  
Characterization Techniques**

Tuesday, 16:30 - 18:00, ROOM 9

**CE-4 Luminescent Materials**

Tuesday, 18:30 - 20:00, ROOM 7

**CE-5 Micro and Nanostructures**

Wednesday, 08:30 - 10:00, ROOM 5

**CE-P CE Poster Session**

Wednesday, 10:00 - 11:00, ROOM 3

**CE-6 Materials for Waveguides and Resonators**

Wednesday, 11:00 - 12:30, ROOM 7

**CE-7 Integrated Optoelectronic Devices**

Wednesday, 14:30 - 16:00, ROOM 6

**CE-8 Materials and Fabrication  
of Specialty Optical Fibers**

Thursday, 08:30 - 10:00, ROOM 11

**CE-9 Nonlinear and Meta-materials**

Thursday, 11:00 - 12:30, ROOM 12

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**CF – ULTRAFAST OPTICAL TECHNOLOGIES**

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**CF-1 Ultrashort Pulse Generation**

Monday, 08:30 - 10:00, ROOM 4

**CF-2 Ultrafast UV Sources**

Tuesday, 11:00 - 12:30, ROOM 12

**CF-3 Nonlinear Pulse Propagation**

Tuesday, 18:30 - 20:00, ROOM 10

**CF-4 Ultrafast Lasers**

Wednesday, 08:30 - 10:00, ROOM 6

**CF-P CF Poster Session**

Wednesday, 10:00 - 11:00, ROOM 2

**CF-5 Ultrashort Pulses in the mid-IR**

Wednesday, 11:00 - 12:30, ROOM 3

**CF-6 Ultrafast Mid-IR Sources**

Wednesday, 14:30 - 16:00, ROOM 2

**CF-7 Nonlinear Spectral Broadening**

Thursday, 11:00 - 12:30, ROOM 5

**CF-8 Ultrashort Pulse Characterization**

Thursday, 14:30 - 16:00, ROOM 3

**CF-9 Sources for Dual Comb  
Spectroscopy**

Friday, 11:00 - 12:30, ROOM 3

**CF-10 Strong Field and Ultrafast Phenomena**

Friday, 16:30 - 18:00, ROOM 8

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**CG – HIGH-FIELD LASER  
AND ATTOSECOND SCIENCE**

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**CG-1 Ultrafast Dynamics in Solids**

Monday, 08:30 - 10:00, ROOM 5

**How to read the session codes?**

The following pages contain the abstracts of the papers presented at the 2021 CLEO®/Europe-EQEC.

All CLEO®/Europe sessions are on a white background and have a code beginning with a **C**.

All EQEC sessions are on a shaded background and have a code that begins with an **E**.

Both post-deadline sessions including CLEO®/Europe and EQEC presentations are on a white background and have a code beginning with **PD**.

**Exceptions mentioned below are on a dark background:**

- Short courses referenced with **SH**
- Plenary talks referenced with **PL**
- CLEO®/Europe-EQEC joint symposia referenced with **JS**.
- The ECBO-CLEO®/Europe joint session referenced with **CL + ECBO JS**
- The joint session LiM-CLEO®/Europe referenced with **CM-6, Joint Session CM with LiM**.

**ORAL PRESENTATIONS**

Oral presentations have a code made up of two parts, *e.g.*

CM-1.1 MON (Invited) 14:30

The first part (CM-1.1) indicates the Conference, the topic title, the session title and the placement of the presentation within the session, *e.g.*

- CM-1.1 = CLEO®/Europe
- CM-1.1 = Materials processing with lasers
- CM-1.1 = Beam shaping for laser processing
- CM-1.1 = First paper presented in the "Beam shaping for laser processing" session of the CM topic

The second part indicates the day when the presentation takes place.

**SUN** = Sunday  
**MON** = Monday  
**TUE** = Tuesday  
**WED** = Wednesday  
**THU** = Thursday

The figures on the right specify at what time the talk begins (10:30 am).

Plenary, Tutorial, Keynote and Invited Talks are marked between brackets.

**POSTERS**

Poster presentations have a code made up of two parts, *e.g.*

EG-P.2 FRI

The first part indicates the Conference, the topic title, the poster destination, and the order of presentation within the topic, *e.g.*

EG-P.2 = EQEC  
EG-P.2 = Light-matter interactions at the nanoscale  
EG-P.2 = Poster  
EG-P.2 = Second poster in the "Light-matter interactions at the nanoscale" topic of the EQEC conference.

The second part indicates the day when the assigned poster session of the poster takes place. The same abbreviations as for the oral presentations apply. Posters from the same topic are all assigned in the same virtual poster session. Each poster presenter is requested to join his/her assigned virtual break-out room at the given day and time.

**CG-2 Controlled and Intense XUV Light**  
Monday, 14:30 - 16:00, ROOM 12

**CG-3 Ultrafast Spectroscopy**  
Tuesday, 16:30 - 18:00, ROOM 3

**CG-4 Chemical Reactions and Molecular Dynamics**  
Tuesday, 18:30 - 20:00, ROOM 3

**CG-5 Symmetries in Ultrafast Science**  
Thursday, 08:30 - 10:00, ROOM 2

**CG-P CG Poster Session**  
Thursday, 10:00 - 11:00, ROOM 1

**CG-6 Lasers and High-Order Harmonic Generation**  
Friday, 08:30 - 10:00, ROOM 3

**CG-7 High-Repetition XUV and X-ray Sources**  
Friday, 14:30 - 16:00, ROOM 9

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#### CH – OPTICAL SENSING AND MICROSCOPY

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**CH-1 Gas Sensing**  
Monday, 14:30 - 16:00, ROOM 4

**CH-2 Raman Spectroscopy**  
Monday, 18:00 - 19:30, ROOM 12

**CH-3 Advanced Optical Sensing Techniques**  
Tuesday, 11:00 - 12:30, ROOM 11

**CH-4 Fiber-based Sensors II**  
Tuesday, 16:30 - 18:00, ROOM 10

**CH-5 Imaging in Scattering Media**  
Tuesday, 18:30 - 20:00, ROOM 11

**CH-6 On-chip Solutions for Optical Sensing**  
Wednesday, 11:00 - 12:30, ROOM 2

**CH-7 Microscopy and Imaging Sensors**  
Wednesday, 14:30 - 16:00, ROOM 1

**CH-8 Spectroscopy at the Molecular Level**  
Thursday, 08:30 - 10:00, ROOM 3

**CH-9 Hyperspectral Imaging**  
Thursday, 14:30 - 16:00, ROOM 2

**CH-10 Optical Metrology**  
Thursday, 16:30 - 18:00, ROOM 6

**CH-P CH Poster Session**  
Friday, 10:00 - 11:00, ROOM 1

**CH-11 Quantum Sensing and Imaging**  
Friday, 11:00 - 12:30, ROOM 1

**CH-12 Fiber-based Sensors I**  
Friday, 14:30 - 16:00, ROOM 8

**CH-13 Temporally and Spatially Structured Beams and Microscopy**  
Friday, 16:30 - 18:00, ROOM 4

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#### CI – OPTICAL TECHNOLOGIES FOR COMMUNICATIONS AND DATA STORAGE

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**CI-P CI Poster Session**  
Monday, 10:00 - 11:00, ROOM 3

**CI-1 Broadband Systems**  
Tuesday, 11:00 - 12:30, ROOM 8

**CI-2 Digital Signal Processing**  
Wednesday, 08:30 - 10:00, ROOM 9

**CI-3 Microwave Photonics**  
Thursday, 11:00 - 12:30, ROOM 6

**CI-4 Emerging Technologies for Telecommunications**  
Friday, 11:00 - 12:30, ROOM 2

**CI-5 Transmission Devices**  
Friday, 16:30 - 18:00, ROOM 5

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#### CJ – FIBRE AND GUIDED WAVE LASERS AND AMPLIFIERS

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**CJ-1 Coherent Beam Combining**  
Monday, 14:30 - 16:00, ROOM 5

**CJ-2 Mode-locked Fiber Lasers above 2 Micron**  
Tuesday, 18:30 - 20:00, ROOM 4

**CJ-3 Multimode Nonlinear Fiber Optics and SC Generation**  
Wednesday, 08:30 - 10:00, ROOM 10

**CJ-4 Mode-locked Fiber Lasers**  
Wednesday, 11:00 - 12:30, ROOM 1

**CJ-P CJ Poster Session**  
Thursday, 13:30 - 14:30, ROOM 1

**CJ-5 Pulsed Fiber Laser**  
Thursday, 14:30 - 16:00, ROOM 7

**CJ-6 Fiber Laser Components**  
Thursday, 16:30 - 18:00, ROOM 3

**CJ-7 Mid-IR Fiber Laser Sources and Components**  
Friday, 08:30 - 10:00, ROOM 4

**CJ-8 High Power Fiber Lasers**  
Friday, 11:00 - 12:30, ROOM 7

**CJ-9 Speciality Fiber Lasers**  
Friday, 14:30 - 16:00, ROOM 4

**CJ-10 Fiber Optical Techniques and Applications**  
Friday, 16:30 - 18:00, ROOM 2

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#### CK – MICRO- AND NANO-PHOTONICS

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**CK-1 Periodic Components**  
Monday, 08:30 - 10:00, ROOM 6

**CK-2 Novel Integrated Components**  
Monday, 14:30 - 16:00, ROOM 6

**CK-3 Integrated Photonics Devices**  
Tuesday, 11:00 - 12:30, ROOM 6

**CK-4 Silicon Photonics**  
Thursday, 08:30 - 10:00, ROOM 7

**CK-5 Beam Manipulation**  
Thursday, 11:00 - 12:30, ROOM 7

**CK-P CK Poster Session**  
Thursday, 13:30 - 14:30, ROOM 2

**CK-6 3D Fabrication Techniques and Components**  
Thursday, 16:30 - 18:00, ROOM 4

**CK-7 Photonic Crystals**  
Friday, 08:30 - 10:00, ROOM 8

**CK-8 Non-Linear Integrated Photonics**  
Friday, 11:00 - 12:30, ROOM 8

**CK-9 Novel Technologies and Materials for Micro-photonics**  
Friday, 14:30 - 16:00, ROOM 5

**CK-10 Micro and Nano Resonators**  
Friday, 16:30 - 18:00, ROOM 3

**CL – PHOTONIC APPLICATIONS  
IN BIOLOGY AND MEDICINE**

- CL-1 Laser-Tissue Interactions and Surgery**  
Monday, 18:00 - 19:30, ROOM 2
- CL-2 Biological and Clinical Applications**  
Tuesday, 11:00 - 12:30, ROOM 4
- CL-P CL Poster Session**  
Thursday, 13:30 - 14:30 ROOM 3
- CL + Advances in Deep Tissue Imaging**  
**ECBO JS** Thursday, 14:30 - 15:45, ROOM 1
- CL-3 Advanced Biological Microscopy**  
Thursday, 16:30 - 18:00, ROOM 8
- CL-4 Spectroscopy, Label-Free  
Imaging and Sensing**  
Friday, 11:00 - 12:15, ROOM 6
- CL-5 Dynamic and Advanced Light Shaping**  
Friday, 14:30 - 15:45, ROOM 2

**CM – MATERIALS PROCESSING  
WITH LASERS**

- CM-1 Laser Induced Periodic  
Surface Structures**  
Monday, 14:30 - 16:00, ROOM 7
- CM-2 Semiconductor Processing**  
Wednesday, 11:00 - 12:30, ROOM 4
- CM-3 Temporal and Spatial Beam  
Shaping for Laser Processing I**  
Wednesday, 14:30 - 16:00, ROOM 3
- CM-4 Surface Engineering and Functionalisation**  
Thursday, 08:30 - 10:00, ROOM 6

- CM-5 Temporal and Spatial Beam  
Shaping for Laser Processing II**  
Thursday, 14:30 - 16:00, ROOM 4
- CM-6 Joint Session CM with LiM**  
Thursday, 16:30 - 18:00, ROOM 1
- CM-7 Surface and Volume Processing**  
Friday, 08:30 - 10:00, ROOM 11
- CM-8 Modelling and In-situ  
Diagnostics**  
Friday, 11:00 - 12:30, ROOM 4
- CM-P CM Poster Session**  
Friday, 13:30 - 14:30, ROOM 1
- CM-9 3D Laser Structuring  
of Transparent Materials**  
Friday, 16:30 - 18:00, ROOM 7

**POSTDEADLINE SESSION**

- PD-1 CLEO/Europe Postdeadline Session**  
Thursday, 18:30 - 20:00, ROOM 1

**EQEC 2021 SESSIONS**

**EA – QUANTUM OPTICS AND  
ULTRACOLD QUANTUM MATTER**

- EA-P EA Poster Session**  
Monday, 13:30 - 14:30, ROOM 1
- EA-1 Waveguide-QED  
and Atom-light Interfaces**  
Tuesday, 11:00 - 12:30, ROOM 1
- EA-2 Cold Molecules**  
Tuesday, 18:30 - 20:00, ROOM 2

- EA-3 Quantum Optomechanics and Detectors**  
Wednesday, 11:00 - 12:30, ROOM 8
- EA-4 Cavity-QED and Cold Gases**  
Wednesday, 14:30 - 16:00, ROOM 7
- EA-5 Quantum Light Sources**  
Thursday, 11:00 - 12:30, ROOM 8
- EA-6 Polaritons and Quantum Fluids of Light**  
Thursday, 16:30 - 18:00, ROOM 7
- EA-7 Quantum Interferences**  
Friday, 08:30 - 10:00, ROOM 5

**EB – QUANTUM INFORMATION,  
COMMUNICATION, AND SENSING**

- EB-1 Quantum Networks**  
Monday, 08:30 - 10:00, ROOM 7
- EB-P EB Poster Session**  
Monday, 13:30 - 14:30, ROOM 2
- EB-2 Integrated Devices and Memories**  
Monday, 18:00 - 19:30, ROOM 7

- EB-3 Photonic Quantum  
Computation**  
Tuesday, 11:00 - 12:30, ROOM 2
- EB-4 Nonclassical Light Sources**  
Tuesday, 16:30 - 18:00, ROOM 11
- EB-5 Long-Range Distribution  
of Entanglement I**  
Tuesday, 18:30 - 20:00, ROOM 8
- EB-6 Long-Range Distribution  
of Entanglement II**  
Wednesday, 11:00 - 12:30, ROOM 11
- EB-7 Quantum Imaging  
and Interference**  
Wednesday, 14:30 - 16:00, ROOM 10
- EB-8 Quantum Computation  
and Error Correction**  
Thursday - 11:00 - 12:30, ROOM 9
- EB-9 Quantum Tomography  
and State Estimation**  
Friday, 08:30 - 10:00, ROOM 6

**How to find the room?**

The conference running virtually, each indicated room of this programme is only a virtual space allocated to allow the build-up of the parallel sessions and check for overlaps. When on the platform, within each day, just go through the session titles and you will find your way.

**NOTE:** The "Welcome Words and World of Photonics Congress Plenary by 2020 Nobel Prize Co-Laureate Reinhard Genzel, Max-Planck-Institut für extraterrestrische Physik, Garching, Germany entitled "A 40-year journey" to take place Monday 21 June 11:00 - 12:30 am CEST time zone, will be directly broadcasted from Messe Munich's platform. Instructions on how to join in will be sent via email just prior the session. For all other CLEO/Europe-EQEC sessions join in via the CLEO/Europe-EQEC platform.

<b>EC – TOPOLOGICAL STATES OF LIGHT</b>		<b>ED-4 Frequency Standards and Miniaturized Comb Platforms</b> Tuesday, 18:30 - 20:00, ROOM 1	<b>EF-5 Micro-combs in Microresonators</b> Thursday, 08:30 - 10:00, ROOM 9	<b>EG-P EG Poster Session</b> Friday, 10:00 - 11:00, ROOM 2
<b>EC-1 Band Topology – I</b> Monday, 08:30 - 10:00, ROOM 8			<b>EF-P EF Poster Session</b> Thursday, 10:00 - 11:00, ROOM 3	<b>EH – PLASMONICS AND METAMATERIALS</b>
<b>EC-2 Nonlinear Topology</b> Tuesday, 16:30 - 18:00, ROOM 5	<b>EE – ULTRAFAST OPTICAL SCIENCE</b>		<b>EF-6 Dissipative Solitons I</b> Thursday, 11:00 - 12:30, ROOM 11	<b>EH-1 Extreme and Ultrafast Phenomena in Plasmonics and Metamaterials</b> Monday, 14:30 - 16:00, ROOM 11
<b>EC-3 Bound States and High-order Topology</b> Tuesday, 18:30 - 20:00, ROOM 9	<b>EE-1 Ultrafast Phenomena in Waveguides</b> Tuesday, 11:00 - 12:30, ROOM 5		<b>EF-7 Symmetry Breaking, Geometrical and Topological Effects</b> Thursday, 14:30 - 16:00, ROOM 8	<b>EH-2 New Perspectives in Metamaterials and Nanophotonics</b> Tuesday, 11:00 - 12:30, ROOM 7
<b>EC-4 Band Topology – II</b> Wednesday, 08:30 - 10:00, ROOM 8	<b>EE-2 HHG in Condensed Matter</b> Thursday, 08:30 - 10:00, ROOM 8		<b>EF-8 Dissipative Solitons II</b> Friday, 08:30 - 10:00, ROOM 7	<b>EH-3 Advanced Control of Light with Metasurfaces</b> Tuesday, 16:30 - 18:00, ROOM 7
<b>EC-P EC Poster Session</b> Wednesday, 13:30 - 14:30, ROOM 1	<b>EE-P EE Poster Session</b> Thursday, 10:00 - 11:00, ROOM 2		<b>EG – LIGHT-MATTER INTERACTIONS AT THE NANOSCALE</b>	<b>EH-P EH Poster Session</b> Wednesday 13:30 - 14:30, ROOM 2
<b>EC-5 Emerging Trends in Topology</b> Thursday, 11:00 - 12:15, ROOM 10	<b>EE-3 Ultrafast Molecular Dynamics</b> Thursday, 14:30 - 16:00, ROOM 12		<b>EG-1 Emission Control at the Nanoscale</b> Monday, 14:30 - 16:00, ROOM 10	<b>EH-4 Plasmonics for Enhanced Light-Matter Interaction</b> Thursday, 08:30 - 10:00, ROOM 10
<b>EC-6 Topology in Driven-dissipative Systems</b> Thursday, 16:30 - 18:00, ROOM 5	<b>EE-4 Ultrafast Characterisation and Manipulation at Nanoscale</b> Thursday, 16:30 - 18:00, ROOM 9		<b>EG-2 Coupling at the Nanoscale I</b> Wednesday, 08:30 - 10:00, ROOM 7	<b>EH-5 Hybrid, Tunable and Nonlinear Metasurfaces</b> Friday, 11:00 - 12:30, ROOM 10
<b>ED – PRECISION METROLOGY AND FREQUENCY COMBS</b>	<b>EE-5 Novel Ultrafast Sources</b> Friday, 11:00 - 12:30, ROOM 9		<b>EG-3 Coupling at the Nanoscale II</b> Wednesday, 11:00 - 12:30, ROOM 6	<b>EH-6 Applications of Metamaterials and Metasurfaces</b> Friday, 14:30 - 16:00, ROOM 3
<b>ED-1 Precision Spectroscopy and Fundamental Metrology I</b> Monday, 08:30 - 10:00, ROOM 11	<b>EF – NONLINEAR PHENOMENA, SOLITONS AND SELF-ORGANIZATION</b>		<b>EG-4 Nonlinear and Ultrafast Nano-optics</b> Wednesday, 14:30 - 16:00, ROOM 5	<b>EI – TWO-DIMENSIONAL AND NOVEL MATERIALS</b>
<b>ED-2 Comb Sources and Applications</b> Monday, 18:00 - 19:30, ROOM 6	<b>EF-1 Mode-Locking Phenomena</b> Monday, 14:30 - 16:00, ROOM 9		<b>EG-5 Light-driven Phenomena at the Nanoscale</b> Thursday, 08:30 - 10:00, ROOM 12	<b>EI-1 Towards Applications and Perovskites</b> Monday, 18:00 - 19:30, ROOM 9
<b>ED-P ED Poster Session</b> Tuesday, 13:30 - 14:30, ROOM 2	<b>EF-2 Turbulence and Nonlinear Effects</b> Monday, 18:00 - 19:30, ROOM 11		<b>EG-6 Resonant Dielectric Nanostructures</b> Thursday, 14:30 - 16:00, ROOM 5	<b>EI-2 From Single Photons to Engineered Photonic Environments</b> Tuesday, 16:30 - 18:00, ROOM 6
<b>ED-3 Precision Spectroscopy and Fundamental Metrology II</b> Tuesday, 16:30 - 18:00, ROOM 1	<b>EF-3 2D Transverse Dynamics and Quantum Effects</b> Wednesday, 11:00 - 12:30, ROOM 9		<b>EG-7 Electron-light Interactions</b> Friday, 08:30 - 10:00, ROOM 9	
	<b>EF-4 Nonlinear Regimes in Optical Fibers</b> Wednesday, 14:30 - 16:00, ROOM 8			



<b>EI-P</b>	<b>EI Poster Session</b> Wednesday, 13:30 - 14:30, ROOM 3
<b>EI-3</b>	<b>Graphene Heterolayers</b> Wednesday, 14:30 - 16:00, ROOM 11
<b>EI-4</b>	<b>Many Body States and Non-linear Dynamics</b> Friday, 08:30 - 10:00, ROOM 10

**EJ – THEORETICAL AND COMPUTATIONAL PHOTONICS MODELLING**

<b>EJ-P</b>	<b>EJ Poster Session</b> Monday, 13:30 - 14:30, ROOM 3
<b>EJ-1</b>	<b>Optical Computing and Artificial Intelligence</b> Monday, 18:00 - 19:30, ROOM 3
<b>EJ-2</b>	<b>Nonlinear Optics Modeling</b> Tuesday, 11:00 - 12:30, ROOM 9
<b>EJ-3</b>	<b>Tailored Light</b> Wednesday, 14:30 - 16:00, ROOM 12

**POSTDEADLINE SESSION**

<b>PD-2</b>	<b>EQEC Postdeadline Session</b> Thursday, 18:30 - 20:00, ROOM 2
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**CLEO®/EUROPE-EQEC 2021 JOINT SYMPOSIA SESSIONS**

**JSI – NANOPHONONICS**

<b>JSI-1</b>	<b>Theory and Numerical Modeling for Nanophononics</b> Monday, 08:30 - 10:00, ROOM 9
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<b>JSI-2</b>	<b>Phononic Crystals and Acoustic Metamaterials</b> Wednesday, 08:30 - 10:00, ROOM 1
<b>JSI-P</b>	<b>JSI Poster Session</b> Wednesday, 13:30 - 14:30, ROOM 4

<b>JSI-3</b>	<b>Nanophononic and Optomechanical Systems. Radiative Heat Transfer Thermal Rectification.</b> Thursday, 08:30 - 10:00, ROOM 1
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<b>JSI-4</b>	<b>Optophononic and Optothermal Characterization and Techniques</b> Friday, 08:30 - 10:00, ROOM 1
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**JSII – HIGH-FIELD THz GENERATION AND APPLICATIONS**

<b>JSII-1</b>	<b>Strong-field THz Generation</b> Monday, 08:30 - 10:00, ROOM 10
<b>JSII-2</b>	<b>Applications of Strong THz Fields</b> Monday, 18:00 - 19:30, ROOM 5
<b>JSII-P</b>	<b>JSII Poster Session</b> Wednesday, 10:00 - 11:00, ROOM 4

**JSIII – ATTOCHEMISTRY**

<b>JSIII-1</b>	<b>Theoretical Perspectives in Attochemistry</b> Monday, 14:30 - 16:00, ROOM 8
<b>JSIII-2</b>	<b>Experimental Progress in Attochemistry</b> Monday, 18:00 - 19:30, ROOM 10

**JSIV – DEEP LEARNING IN PHOTONICS**

<b>JSIV-1</b>	<b>Optical Computing I</b> Thursday, 14:30 - 16:00, ROOM 11
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<b>JSIV-2</b>	<b>Learning in Imaging and Metrology I</b> Thursday, 16:30 - 18:00, ROOM 10
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<b>JSIV-P</b>	<b>JSIV Poster session</b> Friday 10:00 - 11:00, ROOM 3
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<b>JSIV-3</b>	<b>Optical Computing II</b> Friday, 11:00 - 12:15, ROOM 12
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<b>JSIV-4</b>	<b>Learning in Imaging and Metrology II</b> Friday, 14:30 - 16:00, ROOM 7
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<b>JSIV-5</b>	<b>Learning Metasurfaces - Nanostructures – Spectroscopy</b> Friday, 16:30 - 18:00, ROOM 6
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**JSV – FLEXIBLE PHOTONICS**

<b>JSV-1</b>	<b>Flexible Photonic Materials and Integration</b> Monday, 08:30 - 10:00, ROOM 12
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<b>JSV-P</b>	<b>JSV Poster Session</b> Monday, 10:00 - 11:00, ROOM 4
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<b>JSV-2</b>	<b>Flexible Photonic Devices</b> Monday, 18:00 - 19:30, ROOM 4
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**JOINT SESSION ECBO (EUROPEAN CONFERENCES ON BIOMEDICAL OPTICS (RUN BY OSA, SPIE) -CLEO®/EUROPE 2021**

<b>CL +</b>	<b>Advances in Deep Tissue Imaging ECBO JS</b> Thursday, 14:30 - 15:45, ROOM 1
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**JOINT SESSION LIM-CLEO®/EUROPE 2021**

<b>CM-6</b>	<b>Joint Session CM with LiM</b> Thursday, 16:30 - 18:00, ROOM 1
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**SHORT COURSES**

<b>SH-12</b>	<b>Short Course 12: Finite Element Modelling Methods for Photonics</b> Wednesday, 08:30 - 12:00, ROOM 12
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<b>SH-1</b>	<b>Short Course 1: Ultrashort Pulse Characterization</b> Wednesday, 16:30 - 20:00, ROOM 1
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<b>SH-2</b>	<b>Short Course 2: High-power Fiber Lasers</b> Wednesday, 16:30 - 20:00, ROOM 2
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<b>SH-3</b>	<b>Short Course 3: Optical Parametric Oscillators</b> Wednesday, 16:30 - 20:00, ROOM 3
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<b>SH-4</b>	<b>Short Course 4: Laser Beam Analysis, Propagation, and Spatial Shaping Techniques</b> Wednesday, 16:30 - 20:00, ROOM 4
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<b>SH-5</b>	<b>Short Course 5: Practical Quantum Optics</b> Wednesday, 16:30 - 20:00, ROOM 5
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<b>SH-6</b>	<b>Short Course 6: Mid-infrared Semiconductor Lasers</b> Wednesday, 16:30 - 20:00, ROOM 6
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<b>SH-7</b>	<b>Short Course 7: THz Measurements and their Applications</b> Wednesday, 16:30 - 20:00, ROOM 7
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<b>SH-8</b>	<b>Short Course 8: Nonlinear Crystal Optics</b> Wednesday, 16:30 - 20:00, ROOM 8
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<b>SH-9</b>	<b>Short Course 9: Frequency Combs Principles and Applications</b> Wednesday, 16:30 - 20:00, ROOM 9
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<b>SH-10</b>	<b>Short Course 10: Silicon Photonics,</b> Wednesday, 16:30 - 20:00, ROOM 10
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<b>SH-11</b>	<b>Short Course 11: Optics in Graphene and other 2D Materials</b> Wednesday, 16:30 - 20:00, ROOM 11
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GENERAL INFORMATION