

2021 Optical Fiber Communication Conference and Exhibition (OFC)

06-11 June 2021

OSA Virtual Event–Pacific Daylight Time (PDT, UTC-07:00)

Agenda of Sessions — Sunday, 06 June

| Pacific Daylight Time (PDT, UTC-07:00) | Technical Program | Technical Program | Technical Program | Technical Program |
|--|--|--|--|--|
| 03:00–07:00 | SC369, SC452, SC463 (additional fee required) | | | |
| 04:00–07:00 | SC470 (additional fee required) | | | |
| 05:00–07:30 | S1A • Workshop: Will Multiband, Multidimensional, SDM Effectively Address the Need for Increased Network Capacity? | S1B • Workshop: Optical Signal Processing: Neuromorphic Computing and Quantum Information Processing | S1C • Workshop: Cognitive Network Automation: How Smart Can Optical Transport Networks Be? | |
| 08:00–10:30 | S2A • Workshop: Pluggable Coherent Technologies and Applications: Where Will We Land in 5 Years? | S2B • Workshop: Low Latency Communications — Where Do We Need It? How To Achieve It? | S2C • Workshop: Optical Wireless Communications: What is Stopping Us? | S2D • Workshop: Is Photonics Integration Ready for Next-generation Optical Access Demands? |
| 08:00–12:00 | SC105, SC203, SC208, SC390, SC395, SC461 (additional fee required) | | | |
| 09:00–12:00 | SC217, SC433, SC460 (additional fee required) | | | |
| 11:00–13:00 | Lab Automation Hackathon | | | |
| 13:00–15:30 | S3A • Workshop: Are We on the Right Track to Bring Co-packaged Optics to Its Prime Time? | S3B • Workshop: Are Wide-band Optical Frequency Comb Capabilities Adequate to Address Evolving Capacity Demands? | | |
| 13:00–17:00 | SC267, SC384 (additional fee required) | | | |
| 14:00–17:00 | SC205, SC444, SC484, SC485 (additional fee required) | | | |
| 17:00–19:30 | S4A • Workshop: Which Device Technologies Will Get Us Beyond 400G? | | | |
| 17:00–21:00 | SC432, SC469 (additional fee required) | | | |
| 18:00–21:00 | SC177, SC428 (additional fee required) | | | |

Technical Sessions are hyperlinked. Click the session title to access the appropriate virtual room.

Key to Shading

 Short Courses

Agenda of Sessions — Monday, 07 June

| Pacific Daylight Time (PDT, UTC-07:00) | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Special Events |
|--|--|--|---|--|--|---|--|---|--|---|--|
| 03:00–07:00 | SC341, SC393, SC448, SC454, SC468, SC483 (additional fee required) | | | | | | | | | | |
| 03:30–05:00 | Dedicated Exhibit Time Technology Showcases: EFFECT Photonics B.V. (03:30–04:30) and Ribbon (04:30–05:00) | | | | | | | | | | |
| 04:00–07:00 | SC447, SC450 (additional fee required) | | | | | | | | | | |
| 05:00–07:00 | M1A • Special Session: Vision Talks: Beyond 2021 and Towards 2030 (Part 1) | M1B • OFC Demo Zone (Part 1) | | | | | | | | | |
| 07:30–09:30 | M2A • Special Session: Vision Talks: Beyond 2021 and Towards 2030 (Part 2) | M2B • OFC Demo Zone (Part 2) | | | | | | | | | OFC Career Zone: (Re) Start: Elevator Pitch, Resume Tips and Interview Best Practices (Part 1) (07:30–09:00) |
| 08:00–12:00 | SC325, SC327, SC328, SC347, SC357 SC443, SC472, SC473 (additional fee required) | | | | | | | | | | |
| 09:00–12:00 | SC261, SC429 (additional fee required) | | | | | | | | | | |
| 10:00–12:00 | M3A • Silicon Photonics in Communications and Beyond | M3B • Quantum Communication and Photonic Computing | M3C • Optimization of Single-mode Fibers and Cables | M3D • Spatial Division Multiplexing Devices and Amplifiers | M3E • Advanced Network Architectures: Techno-economics and Performance | M3F • DC/Access Networks | M3G • DSP and AI for PON Transmission | M3H • AI Techniques and Advanced Processing | M3I • Coherent Transceivers and Transmission | M3J • High-frequency Applications Using Microwave, Millimeter and Terahertz Photonics | |
| 11:00–13:00 | M4A • Special Session: Free Space Optical (FSO) Communication is Finally Real (Part 1) | | | | | | | | | | SpE8 • OSA Booth, Tech Talk: Optics to Scale the Datacenter Network 11:00–11:30 SpE9 • OSA Booth, Tech Talk: Fiber Communication Networks - Telecom vs. Datacom 12:00–12:30 |
| 13:00–15:00 | M5A • Integrated Photonics Devices and Systems | M5B • Nonlinear Optical Devices | M5C • Transmission Systems Modeling | M5D • Panel: Deployment Challenges of 400G Optics and Beyond | M5E • Advanced Detection and Fibers | M5F • Machine Learning for Optical Subsystems | M5G • Coherent for Data-center Applications: DSP | | | | |
| 13:00–17:00 | SC102, SC431, SC451 (additional fee required) | | | | | | | | | | |
| 13:30–15:30 | M6A • Special Session: Free Space Optical (FSO) Communication is Finally Real (Part 2) | | | | | | | | | | SpE10 • OSA Booth, Tech Talk: High-speed Semiconductor Lasers and Modulators for Data Communications 14:00–14:30 |
| 14:00–17:00 | SC114, SC359, SC464, SC486 (additional fee required) | | | | | | | | | | |
| 15:30–19:00 | Dedicated Exhibit Time Technology Showcases: Juniper Networks (15:30-17:00), Keysight Technologies (17:30-18:00), Jabil (18:00-18:30), and Luna Innovations (18:30-19:00) | | | | | | | | | | |
| 17:00–21:00 | SC178, SC487 (additional fee required) | | | | | | | | | | |
| 18:00–21:00 | SC408, SC459 (additional fee required) | | | | | | | | | | |

Technical Sessions are hyperlinked. Click the session title to access the appropriate virtual room.

Key to Shading

Short Courses

Agenda of Sessions — Tuesday, 08 March

| Pacific Daylight Time (PDT, UTC-07:00) | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Industry Program | Industry Program | Industry Program | Special Events | Special Events |
|--|--|--|--|--|---|--|---|--|---|--|---------------------------------------|--------------------------------------|---|---|---|--|--|
| 03:00-05:00 | Tu1A • Symposia: On the Edge: MEC-based Network Architectures in Support of Enterprise Cloud (Part 1) | Tu1B • Tutorials on Advanced Directly-modulated Lasers | Tu1C • Polarization and Beam Splitting Optical Devices | Tu1D • High-speed Transmitters | Tu1E • Wide-band Amplifiers | Tu1F • Panel: THz Communication for Beyond 5G Networks | Tu1G • Machine Learning in Optical Networks | Tu1H • Optics for Emerging Computing Architectures | Tu1I • Security and Quantum Networking | Tu1J • Future Directions in Access and Local Area Networks | Tu1K • Photonic Integrated Subsystems | Tu1L • Fiber-optical Sensing Systems | | | | | |
| 05:30-07:30 | Tu2A • Symposia: On the Edge: MEC-based Network Architectures in Support of Enterprise Cloud (Part 2) | | | | | | | | | | | | SF1 • OpenROADM, Now a Reality 05:30-06:30 | | | | |
| 07:00-08:00 | | | | | | | | | | | | | SF2 • DARPA Project Update | SF3 • Standards Update on 5G Transport, Higher Speed PON, Latest OTN Technologies and Interoperable Optical Coherent Interfaces | SF4 • The 5th Generation Fixed Networks (F5G): New Use Cases and Technologies | SpE5 • Tech Group: Nonlinear Signal Processing Coming of Age: From Niche Lab Demonstrations to Network Components | |
| 08:00-11:00 | Tu3A • Plenary Session with Speakers Live Q&A and Awards Presentation | | | | | | | | | | | | | | | | |
| 10:00-11:00 | Dedicated Exhibit Time | | | | | | | | | | | | | | | | |
| 10:30-12:00 | Technology Showcases: Xilinx (10:00-10:30) and Infinera (10:30-11:00) | | | | | | | | | | | | | | | | |
| 10:30-12:00 | | | | | | | | | | | | | MW1 • Market Watch: State of the Industry | SF5 • Electrical Data Rates Keep Pushing Forward; An OIF Update 11:00-12:00 | | SpE11 • OSA Booth, Tech Talk: 50G-PON: The Latest ITU PON System 11:00-11:30 | |
| 11:00-13:00 | Tu4A • Symposia: Emerging Photonic Technologies and Architectures for Femtojoule per Bit Optical Networks (Part 1) | | | | | | | | | | | | | | | SpE12 • OSA Booth, Tech Talk: Lessons Learned in Data Transmission and Processing in Optical Communication Systems 12:00-12:30 | OFC Career Zone: (Re) Start: Elevator Pitch, Resume Tips and Interview Best Practices (Part 2) 11:30-13:00 |
| 11:45-14:00 | | | | | | | | | | | | | DCSK • Data Center Summit Keynote: Gaya Nagarajan (11:45-12:15) DCS1 • Data Center Summit: What is Next for Inter Data Center Interconnects (DCIs)? (12:15-13:45) | | SpE6 • Educational Worldwide Lab Tour: Part 1 12:00-13:30 | SpE19 • OFC Media/Analyst Panel: Data Center Optics are Heading Toward Co-packaged Optics: Why, How and When? 12:30-13:30 | |
| 14:00-16:00 | Tu5A • Symposia: Emerging Photonic Technologies and Architectures for Femtojoule per Bit Optical Networks (Part 2) 14:00-16:30 | Tu5B • Process Tolerant Devices and Design Methods | Tu5C • VCSEL Communication Links | Tu5D • Short-reach Systems | Tu5E • Positioning, Localization and Tracking Systems | Tu5F • RF Photonics | Tu5G • Panel: Challenges of Coherent Transponders Approaching the Shannon Limit | Tu5H • Photonic Neural Networks | Tu5I • Open Networking Summit: Towards Converged Open Packet-optical Networks | Tu5J • Optical Technologies in Data Centers | | | SF6 • Tribute to Mitchell Fields 14:00-14:15 DCS2 • Data Center Summit 2: Inside the Data Center 14:15-15:45 | MW3 • Market Watch: Terabit WDM Channels: Beyond 100GBaud Operation 14:30-16:00 | | | |
| 16:00-17:00 | Dedicated Exhibit Time and Technology Showcases: Tektronix (16:00-16:30) and 3M (16:30-17:00) | | | | | | | | | | | | | | | | |
| 17:00-19:00 | Tu6A • Integration in Photonic Systems | Tu6B • Multi-core Fibers 1 | Tu6C • Novel Sensors and Applications | Tu6D • High-speed and Real-time Coherent Systems | Tu6E • Systems for 5G and Beyond | Tu6F • Fiber Sensing in Telecom Fiber Networks | | | | | | | | | | | |
| 19:00-20:30 | Dedicated Exhibit Time | | | | | | | | | | | | | | | | |

Technical Sessions are hyperlinked. Click the session title to access the appropriate virtual room.

Agenda of Sessions — Wednesday, 09 June

| Pacific Daylight Time (PDT, UTC-07:00) | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Industry Program | Industry Program | Industry Program | Special Events | Special Events |
|--|---|----------------------------------|---|---|---|--|---|--------------------------|---|--------------------------------------|--|---|--|--|---|
| 03:00–05:00 | W1A • Optical Switching and Network Devices | W1B • High-performance CW Lasers | W1C • Photonic Switching and Communications | W1D • Novel Fiber and Waveguide Based Devices | W1E • Optical Networks for Data Center and Edge | W1F • Network Design and Operation | W1G • Disaggregated and Multilayer Optical Networks | W1H • Cost-effective PON | W1I • Real-time and High-data Rate Transmission | W1J • Radio-over-fiber (RoF) Systems | | | | | |
| 05:00–06:00 | Dedicated Exhibit Time Technology Showcases: Murata (05:00–05:30) and AIM Photonics (05:30–06:00) | | | | | | | | | | | | | | |
| 06:00–08:00 | W2A • Rump Session: Did the Optics Industry Blunder by Switching Intra-Datacenter Links from NRZ to PAM4? Will More DSP like PAM6 and Coherent Follow, or Will WDM and Parallel Save the Day? | | | | | | | | | | | | | OFC Career Zone: The Benefits of Research 07:30–08:30 | |
| 08:00–10:00 | W3A • Special Session: Lessons Learned: Networks 2020 Status and Next Steps | | | | | | | | | | | | | | |
| 10:00–11:00 | Dedicated Exhibit Time Technology Showcases: Renesas (10:00–10:30) and Infinera (10:30–11:00) | | | | | | | | | | | | | | |
| 10:15–13:00 | W4A • Symposia: The Role of Machine Learning in Optical Systems and the Role of Optics in Machine Learning Systems (Part 1) 11:00–13:00 | | | | | | | | | | NOSK • Network Operator Summit Keynote: Neil McRae 10:15–10:45 NOS1 • Network Operator Summit: Reality Check for 5G Networks: Network Operator Perspective 11:00–12:30 | | | SpE13 • OSA Booth, Tech Talk: LIDAR, Boom or Bust? 11:00–11:30 | SpE14: OSA Booth, Tech Talk: Silicon Photonic Circuit Design 12:00–12:30 |
| 13:30–15:30 | W5A • Symposia: The Role of Machine Learning in Optical Systems and the Role of Optics in Machine Learning Systems (Part 2) | | | | | | | | | | NOS2 • Network Operator Summit: Less Hyper Scale and More Co-location and Compute at the Edge? 13:30–15:00 | SF7 • Next Generation Optical Interfaces – An IEEE and Industry Update 13:30–14:30 | SF8 • Open Eye MSA: Road to Low Cost PAM-4 Optics 13:30–14:30 | SpE15 • OSA Booth, Tech Talk: How I Use Python to Automate My Experiments 15:00–15:30 | |
| 15:30–17:00 | Dedicated Exhibit Time Technology Showcases: Sicoya GmbH (15:30–16:00) and Pi (16:00–16:30) | | | | | | | | | | MW4 • Market Watch: Evolution to Coherent WDM Integration in Routers | | | | |
| 17:00–18:30 | | | | | | | | | | | SF9 • The Disaggregated Optical & Transport Network | SF10 • Why Ethernet? Why Now? | | | |
| 17:00–19:00 | W6A • Joint Poster Session 1 | | | | | | | | | | | | | | |
| 19:00–21:00 | W7A • Emerging Advances in Optical Transceiver Technologies | W7B • Multi-core Fibers 2 | W7C • Distributed Fiber Lasing and Sensing | W7D • SDM Transmission | W7E • Free Space Optics | W7F • IM-DD for Intra/Inter Data-centers | | | | | | | | | |

Technical Sessions are hyperlinked. Click the session title to access the appropriate virtual room.

Agenda of Sessions — Thursday, 10 June

| Pacific Daylight Time (PDT, UTC-07:00) | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Industry Program | Industry Program | Industry Program | Special Events | Special Events |
|--|--|---|--|--|--|---|---|--|---|--|---|--|---|--|---|
| 03:00–05:00 | Th1A • Joint Poster Session 2 | | | | | | | | | | | | | SpE7 • Educational Worldwide Lab Tour: Part 2 03:00–04:30 | |
| 05:00–07:00 | Th2A • Symposia: Quantum Information Science and Technology (QIST) in the Context of Optical Communications (Quantum Key Distribution) (Part 1) | | | | | | | | | | | | | | |
| 07:00–08:00 | | | | | | | | | | | | SF11 • 5G and Network Slicing | SF12 • OpenROADM Demo Description and Update | | |
| 07:30–09:30 | Th3A • Symposia: Quantum Information Science and Technology (QIST) in the Context of Optical Communications (Quantum Networks and Applications) (Part 2) | | | | | | | | | | | | | SpE21 • IEEE Future Networks INGR Optics Roadmap 08:00–09:30 | OFC Career Zone: Employer Showcase & Career Fair 07:30–08:30 |
| 10:00–12:00 | Dedicated Exhibit Time Technology Showcases: Corning (10:00–10:30), Nokia (10:30–11:00), Lumentum (11:00–11:30) and Samtec (11:30–12:00) | | | | | | | | | | | | | | |
| 10:30–12:30 | | | | | | | | | | | | MW5 • Market Watch: Next-gen Access Networks (including Coherent Technology as an Alternative to Access Optics) 10:30–12:00 | SF13 • Cloud Network Evolution Bandwidth Drivers 11:00–12:00 | SpE16 • OSA Booth, Tech Talk: Optical Fiber Sensors Commercialization: Present Status and Future Opportunities and Trends 11:00–11:30 | SpE17 • OSA Booth, Tech Talk: Silicon-photonics-based Short-reach Pluggables 12:00–12:30 |
| 12:30–14:30 | Th4A • Advanced Photonic Integration and Co-packaging | Th4B • Filtering and Active Stabilization Devices | Th4C • Long-haul and Multiband Systems | Th4D • Advanced Direct Detection Techniques | Th4E • DCI Switching/ Interconnect Subsystems | Th4F • Fiber and Quantum Sensing Systems | Th4G • Panel: PON Disaggregation, from SDN Abstraction to Full Virtualization. Benefits, Obstacles and Trends | Th4H • Optical Field Trials | Th4I • Optical Interconnects and Networking | Th4J • Machine Learning for Failure Management and Performance Estimation / Prediction | MW6 • Market Watch: Evolving Photonics Integration and Packaging 12:30–14:00 | SF14 • 3D Sensing Uses in Consumer and Automotive Markets 13:30–14:30 | | | |
| 14:00–16:00 | | | | | | | | | | | | MW7 • Market Watch: Optical Interconnect and Computing for Scaling Machine Learning Systems 14:30–16:00 | SF15 • Embedded Optics for High Speed Switching 14:00–15:30 | | |
| 15:00–17:00 | Th5A • Silicon Photonics and Resonant Modulators | Th5B • Multi-mode Fibers | Th5C • Panel: Advanced Laser Technologies in Post-100Gbaud Era | Th5D • Transceiver Calibration and Modelling | Th5E • Optical-wireless Converged Transmission Systems | Th5F • Coherent/ Free-space Optics for Data-center Applications | Th5G • Panel: Pros and Cons of Low-margin Optical Networks | Th5H • Silicon Photonics for Data Center Network | Th5I • Evolution of Coherent PON Technology | | | | | | |
| 17:00–19:00 | Dedicated Exhibit Time Technology Showcases: Synopsys (17:00–17:30) and Telescent (17:30–18:00) | | | | | | | | | | | | | | |

Technical Sessions are hyperlinked. Click the session title to access the appropriate virtual room.

Agenda of Sessions — Friday, 11 June

| Pacific Daylight Time (PDT, UTC-07:00) | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Technical Program | Industry Program | Industry Program | Industry Program | Special Events | Special Events |
|--|---|---|---|--|--|--|--|--|---|--|--|--|--|---|----------------|
| 03:00–05:00 | F1A • Visible Light Communication | F1B • Nonlinear and Optomechanical Subsystems | F1C • Open Disaggregated Optical Networks | F1D • Optical Access Technology in Support of Mobile Site Connectivity | | | | | | | | | | | |
| 05:00–05:30 | Dedicated Exhibit Time | | | | | | | | | | | | | | |
| 05:30–07:30 | F2A • Advances of Coherent Technologies | F2B • Metamaterial and Multimode Devices for Optical Communications | F2C • Photodetectors | F2D • High-speed Direct Detection Demonstrations | F2E • Quantum and Novel Subsystems | F2F • Co-packaged Optics and Disaggregated Data-center Architectures | F2G • Machine Learning and Data Analytics for Autonomous Network Operation | F2H • High Capacity PON, 100Gb/s and Beyond | | | | | | | |
| 08:00–10:00 | F3A • Postdeadline Papers | | | | | | | | | | | | | OFC Career Zone: Apply-a-Thon 08:00–17:00 | |
| 10:30–12:30 | F4A • Free-space Beam Steering Devices | F4B • Silicon Photonics and Emerging Applications | F4C • Hollow-core Fibers | F4D • DSP for Coherent Transceivers | F4E • Quantum Communications | F4F • Fiber Wireless Subsystems | F4G • Next Generation Field Trials and Standardization | F4H • Emerging Network Architectures for 5G and Beyond | F4I • Low Latency Access Networks | F4J • Panel: Is Optical Switching Finally Ready for Large-scale Deployment in Datacenters and Advanced Networks? | | | | | |
| 11:30–13:00 | | | | | | | | | | | SF16 • 400ZR Deployment and What's Next – An OIF Update 11:30–13:00 | SF17 • AIM Photonics Member Successes and Updates 11:30–12:30 | MW2 • Market Watch: The Industrial Internet of Things, Smart Manufacturing and Industry 4.0 11:30–13:00 | | |
| 12:30–13:30 | Dedicated Exhibit Time | | | | | | | | | | | | | SpE18 • OSA Booth, Tech Talk: Optical System Innovations in DCI Transport Networks 12:30-13:00 | |

Technical Sessions are hyperlinked. Click the session title to access the appropriate virtual room.