

Plenary Session

Tuesday, 01 April, 08:00-10:00, Esplanade Ballroom



DII (Diversity, Inclusion and Integration) of III-V Devices and Technologies in Photonics?
Kei May Lau, *Research Professor, Hong Kong University of Science and Technology, Hong Kong*

Silicon photonics is being developed to extend integrated photonics adopting the highly successful Si IC infrastructure for tele/data-communications and sensing. Over the years, intense efforts have been made to incorporate high-performance III-V active devices on silicon, to be integrated with passive components and waveguides of Si photonics. Heterogeneous integration techniques such as wafer bonding and die bonding have been developed for this purpose. We have used similar approaches to demonstrate and commercialize high-resolution micro-LED micro-displays for AR smart glasses.

We have taken various approaches and developed high-quality III-V on silicon by direct hetero-epitaxy, including blanket and selective growth. A novel lateral aspect ratio trapping (LART) technique is used to grow III-V lasers with embedded QWs and high-speed photodetectors on patterned commercial SOI substrates for integrated Si photonics.

Professor Kei May Lau is a pioneer in photonics research and a research professor at the Hong Kong University of Science and Technology. Professor Lau is an elected member of the U.S. National Academy of Engineering and a Fellow of IEEE, Optica and the Hong Kong Academy of Engineering. With a storied career spanning decades, Professor Lau has been recognized with numerous prestigious awards, including the IPRM Award, the IET J.J. Thomson Medal for Electronics and the Optica Nick Holonyak Jr. Award, among others. Her extensive experience in the field and contributions to photonics research have positioned her as a leading voice in advancing optical technologies.



Space-Based Optical Communications: Present Capabilities and Future Opportunities

Bryan S. Robinson, *Group Leader, Optical and Quantum Communications, MIT Lincoln Laboratory, USA*

Just a few years ago, free-space optical communication (FSOC) systems were considered by many to be too complex or expensive to offer any practical benefits. Today, there are thousands of FSOC terminals operating in space, enabling revolutionary space and terrestrial communications systems. We will review the history of FSOC development, discuss its present applications and consider areas where future development will enable new communications capabilities near Earth, and beyond.

Dr. Bryan S. Robinson is the leader of the Optical and Quantum Communications Group at MIT Lincoln Laboratory. Dr. Robinson was the lead systems engineer for NASA's Lunar Laser Communications Demonstration (LLCD), marking its first successful demonstration of high-rate laser communications from space. His team's work has laid the foundation for subsequent space-based optical communication systems and extended its application to undersea, terrestrial and quantum communications. With deep expertise in optical communications and systems engineering, Dr. Robinson continues to push the boundaries of laser communication technology.



Scaling Data Centers Is in Conflict With Increasing Interface Speeds

Pradeep Sindhu, *Technical Fellow and Corporate Vice President of Silicon, Microsoft, USA*

This talk argues that the historical trend towards ever faster network port speeds in Ethernet networks is increasingly in conflict with building efficient, massive scale data centers. To support these data centers, the industry needs to fix port speed at a technology "sweet spot" of around 200Gbps and instead scale networks by increasing the number of ports (the radix) on NICs and switches. When combined with novel transport protocols that "spray" packets over all possible paths between source and destination, networks built with these high radix components will enable much higher throughputs, higher reliability, lower cost and lower latency than traditional networks containing three or more tiers of switches. These remarks apply not only to large scale networks for training AI models, where there is a single transport layer and no requirement for strict packet ordering, but also to more general networks where multiple protocols need to be supported and where packet order does matter. The remarks are also general in that they are applicable not only to networks built using Ethernet, but to any packet switching technology.

There are two fundamental reasons why this trend needs to be curtailed: First, the cross-sectional bandwidth of packet switches and NICs is necessarily limited by technology at any given point in technology; this means increasing port speed proportionately decreases radix, which in turn means that networks need to have more layers to support a given scale. More layers are more costly and less reliable. They require higher power, have higher latency and make it more difficult to solve congestion and error control problems that become increasingly important at scale. Second, regardless of the transmission medium used for connection, signals ultimately originate and terminate in electronics whose bandwidth is inherently limited by the speed of transistors; continuously increasing port speed stresses implementations to the breaking point at all levels from the physical layer to the logical while providing little to no benefit: At the physical layer, implementors are driven to use exotic technologies to achieve the requisite gain-bandwidth product. At the logical layer, designers struggle to implement logic where each port can receive a packet every clock. Pushing port speeds beyond technology capabilities will result in more expensive and less reliable components.

Dr. Pradeep Sindhu is an industry visionary currently focused on data processing innovations at Microsoft. Dr. Sindhu, who co-founded Fungible Inc. and served as its CEO and CTO, is credited with inventing the Data Processing Unit (DPU) that revolutionized storage system efficiency. He is also the founder of Juniper Networks, where he led the development of all major products that shaped the future of networking infrastructure. Dr. Sindhu's contributions have redefined networking hardware and software, driving advances impacting cloud computing and AI infrastructure.

OFC and Co-Sponsors Awards Ceremony and Luncheon

Tuesday, 01 April, 12:30-14:00
Salon 9, Marriott Marquis Hotel

Supported by:

CORNING

The event is open to anyone who purchases a ticket, but seating is limited. Ticket sales end on 31 March. Learn more about the honorees being recognized.



Short Course Schedule

Sunday, 30 March 2025

08:30–12:30

SC105: Modulation Formats and Receiver Concepts for Optical Transmission Systems

Peter Winzer, *Nubis Communications, USA*, Xi (Vivian) Chen, *Bell Labs, Alcatel-Lucent, USA*

SC203: 400 Gb/s and Beyond Optical Communication Systems, Design and Design Trade-offs

Ezra Ip, *NEC Labs, USA*, Chongjin Xie, *PhotonicX AI, China*

SC395: Modeling and Simulation of Optical Transmitter and Receiver Components for Coherent Communications

Harald Rohde, *Nokia, Germany*, Howard Wang, *Nokia, USA*

SC432: Hands-on: Silicon Photonics Components

Lukas Chrostowski, *Univ. of British Columbia, Canada*

SC463: Optical Transport SDN: Architectures, Applications and Actual Implementations

Achim Autenrieth and Jörg-Peter Elbers, *ADVA Optical Networking SE, Germany*

SC469: Hands-on Laboratory Automation and Control Using Python

Jochen Schröder, *Chalmers Univ. of Technology Sweden*, Binbin Guan, *Microsoft, USA*, Roland Ryf, *Nokia Bell Labs, USA*

SC470: Secure Optical Communications

Andrew Shields, *Toshiba Research Labs, UK*, Helmut Griebner, *ADVA Optical Networking, Germany*

09:00–12:00

SC177: High-Speed Semiconductor Lasers and Modulators

John Bowers, *Univ. of California, Santa Barbara, USA*

SC359: Networking for Datacenters and Machine Learning

Hong Liu and Ryohei Urata, *Google, USA*

SC459: Multimode Photonic Devices, Characterization and Applications

Nicolas Fontaine, *Nokia Bell Labs, USA*

13:00–16:00

SC408: Space Division Multiplexing for Optical Communication Systems and Networks

Roland Ryf, *Nokia Bell Labs, USA*

SC485: Advanced Fiber Access Networks

Jun Shan Wey and Rajesh Yadav, *Verizon, USA*

SC512: Modern Subsea Cable Systems

Mei Du, *Tata Communications, USA*

13:00–17:00

SC267: Silicon Microphotonics: Technology Elements and the Roadmap to Implementation

Lionel Kimerling, *MIT, USA*

SC514: FEC Techniques for Optical Communications

Georg Böcherer, *Huawei Technologies, Technical Univ. of Munich, Germany*

13:30–17:30

SC216: An Introduction to Optical Network Design and Planning

George Rouskas, *North Carolina State Univ., USA*

SC384: Background Concepts of Optical Communication Systems

Alan Willner, *Univ. of Southern California, USA*

Monday, 31 March 2025

08:30–12:30

SC369: Hands-on Test and Measurement for Coherent Optical Transceivers

Fabio Pittala and Michael Koenigsmann, *Keysight, Germany*

SC393: Digital Signal Processing for Coherent Optical Transceivers

Chris Fludger, *Infinera, Germany*

SC443: Optical Amplifiers: From Fundamental Principles to Technology Trends

Michael Vasilyev, *Univ. of Texas at Arlington, USA*, Peter Andrekson, *Chalmers Univ. of Technology, Sweden*

SC444: Emerging Optical Communication Technologies for 5G Evolution

Xiang Liu, *Huawei Technologies, China*

SC448: Evolving Software Defined Optical Network: Architecture and Design Principles

Ramon Casellas, *CTTC, Spain*

SC452: FPGA Prototyping for Optical Subsystems

Noriaki Kaneda, *Nokia, USA*, Robert Elschner, *Fraunhofer HHI, Germany*

SC453A: Hands-on Fiber Optic Handling, Measurements, and Component Testing

Steve Baldo, *Seikoh Giken, USA*, Chris Heisler, *OptoTest Corporation, USA*, Jérôme Allaigne and Julien Maille, *Data-Pixel, France*

SC454: Hands-on Silicon Photonics Design – Circuits

Wim Bogaerts, *Univ. of Ghent, Belgium*

SC461: High-Capacity Data Center Interconnects for Cloud-scale Networking

Dirk van den Borne, *Juniper Networks, Germany*, Sander L. Jansen, *ADVA Optical Networking, Germany*, Mark Filer, *Stealth Startup, USA*

SC473: Photonic Switching Systems

David Neilson, *Nokia Bell Labs, USA*, Benjamin Lee, *NVIDIA, USA*

SC483: Machine Learning in Optical Networks

Massimo Tornatore, *Politecnico di Milano, Italy*, Sergio Hernandez Fernandez, *DTU Fotonik, Denmark*

SC487: Hands-on Laboratory Automation and Control using Python (Advanced)

Jochen Schröder, *Chalmers Univ. of Technology, Sweden*, Nicolas Fontaine, *Nokia Bell Labs, USA*, Binbin Guan, *Microsoft, USA*

SC513: Data Center Short Links – Link Design, Modeling, Test and Measurements

Petar Pepeljugin, *IBM Research, USA*, Greg D. Le Cheminant, *Keysight Technologies, USA*

SC525: Photonic and Electronic Packaging - Materials, Processes, Equipment and Reliability

Peter O'Brien, *Tyndall, Ireland*

SC527: Optical Satellite Networks

Vincent Chan, *MIT, USA*

09:00–12:00**SC114: Technologies and Applications for Passive Optical Networks (PONs)**

Yuanqui Luo, *Futurewei, USA*

SC465: Transmission Fiber and Cables

John Hedgpeth, *Corning, USA*

13:30–16:30**SC217: Applications of Radio-over-Fiber Technologies Including Future 5G Networks**

Dalma Novak, *Octane Wireless, USA*

SC261: ROADM Technologies and Network Applications

Thomas Strasser, *Molex, USA*

SC447: The Life Cycle of an Optical Network: From Planning to Decommissioning

Andrew Lord, *BT Applied Research, UK*

SC526: Optical Wireless Technologies, Systems and Applications

Harald Haas, *Univ. of Strathclyde, Scotland*

13:30–17:30**SC160: Microwave Photonics**

Jose Capmany, *Univ. Politecnica de Valencia, Spain*

SC325: Highly Integrated Monolithic Photonic Integrated Circuits

Chris Doerr, *Aloe Semiconductor, Inc. USA*

SC327: Fiber Transmission and Design of Long-Haul Communication Systems

Rene-Jean Essiambre, *Nokia Bell Labs, USA*

SC328: Standards for High-Speed Optical Networking

Tom Huber, *Nokia, USA*

SC357: Circuits and Equalization Methods for Coherent and Direct Detection Optical Links

Alexander Rylyakov, *Nokia, USA*, Sudip Shekhar, *Univ. of British Columbia, Canada*

SC431: Photonic Technologies in the Data Center

Clint Schow, *Univ. of California, Santa Barbara, USA*

SC433: Introduction to Photodetectors and Optical Receivers

Andreas Beling, *Univ. of Virginia, USA*

SC451: Optical Fiber Sensors

Alexis Mendez, *MCH Engineering, USA*, Andres Chevarria, *VIAVI Solutions, USA*

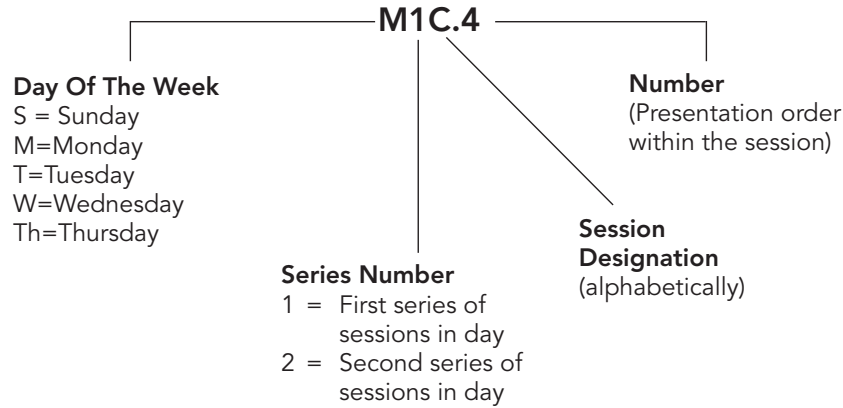
SC453B: Hands-on Fiber Optic Handling, Measurements, and Component Testing

Steve Baldo, *Seikoh Giken, USA*, Chris Heisler, *OptoTest Corporation, USA*, Jérôme Allaire and Julien Maille, *Data-Pixel, France*

SC528: Hands-on Fiber Optic OFC NET Course: Practical Fiber Optic Network Testing in a Realistic Network Environment

Gwenn Amice, *EXFO, USA*, Christine Tremblay, *École de Technologie Supérieure, Canada*

Explanation of Session Codes



The first letter of the code denotes the day of the week (Sunday=Sunday, Monday=M, Tuesday=Tu, Wednesday=W, Th=Thursday). The second element indicates the session series in that day (for instance, 1 would denote the first parallel sessions in that day). Each day begins with the letter A in the third element and continues alphabetically through a series of parallel sessions. The lettering then restarts with each new series. The number on the end of the code (separated from the session code with a period) signals the position of the talk within the session (first, second, third, etc.). For example, a presentation coded M1C.4 indicates that this paper is being presented on Monday (M) in the first series of sessions (1), and is the third parallel session (C) in that series and the fourth paper (4) presented in that session.

The information in this program is as of 27 February 2025. All times reflect Pacific Daylight Time (PDT, UTC-07:00). Please consult the conference app for the latest changes.

Technical Registrants: Download digest papers by visiting ofconference.org and clicking on the "Download Technical Digest Papers" from the right column navigation on the home page.

Recorded sessions are also available 24 hours after the session by navigating to the Schedule tab. Select a session and click the "Watch Recorded Session" button.

Agenda of Sessions — Sunday, 30 March

	Rooms 201-202	Rooms 203-204	Rooms 205-206	Rooms 209-210	Rooms 211-212	Rooms 213-214	Room 215
07:00–19:00	Registration Open, South Lobby, Moscone Center						
08:30–12:30	SC105, SC203, SC395, SC432, SC463, SC469, SC470*						
09:00–12:00	SC177, SC359, SC459*						
13:00–15:30	S1A • What Will Future Subsea Systems Look Like: Secured and Resilient Networks, Pluggable vs Multicore Interfaces, Solid Vs Hollow Core Fiber?	S1B • Networks of the Future and Next-Generation Production	S1C • How to Get More Out of Fiber Access Networks?	S1D • Linear Algebra Optics: Applications and Commercial Perspectives	S1E • Telecom and Sensing Living Together: Is it a Healthy Relationship?	S1F • Is Coherent DSP Solved? Are we Running Out of Innovation?	S1G • High Power and Multi-Wavelength Laser Light Sources: How Can They Address the Needs of AI/ML Interconnect?
13:00–16:00	SC408, SC485, SC512*						
13:00–17:00	SC267, SC514*						
13:30–17:30	SC216, SC384*						
15:30–16:00	Coffee Break, Level 2 Corridors						
16:00–18:30	S2A • Are we Ready for Hollow Core Fiber Networks?	S2B • How do Co-Packaged Optics Become Manufacturable?	S2C • Watts the Limit? Powering Optical Network Growth	S2D • Unifying Control and Management of Disaggregated Networks with Pluggable Transponders - Who Controls the Pluggables?	S2E • Short and Sweet: How Do We Cost-Optimize a 10 Meter Link for Scaling Up Machine Learning Clusters?	S2F • Towards 400G/λ IM-DD: How to Pick up the Next Factor of 2?	
19:00–21:00	Hack Your Research! Tools and Tricks for Today's Telecommunications Techies, Room 303						

*Short Courses are an excellent training opportunity to learn about new products, cutting-edge technology and vital information at the forefront of communications. They are offered Sunday and Monday and require an additional fee. Go to ofcconference.org/shortcourse for a list of available short courses and the format in which they will be offered or go to pages 2-3.

Agenda of Sessions — Monday, 31 March







	Rooms 201-202	Rooms 203-204	Rooms 205-206	Room 207	Room 208
07:00–18:30	Registration Open, South Lobby, Moscone Center				
08:00–18:00	Optica Executive Forum, Lower B2 Level, Marriott Marquis (separate registration required)				
08:00–10:00	M1A • The Year of Quantum: Applications, Architectures and Enabling Technologies for Quantum Communication and Computing I	M1B • Submarine Transmission	M1C • Sensing Applications I	M1D • Multi-Mode and Polarization-Dependent Devices	M1E • System Characterization and Monitoring
08:30–12:30	SC369, SC393, SC443, SC444, SC448, SC452, SC453A, SC454, SC461, SC473, SC483, SC487, SC513, SC525, SC527*				
09:00–12:00	SC114, SC465*				
10:00–10:30	Coffee Break, Level 2 Corridors				
10:30–12:30	M2A • The Year of Quantum: Applications, Architectures and Enabling Technologies for Quantum Communication and Computing II	M2B • Next-Generation Intra-Data Center Connectivity for the AI Era: Meeting Hyperscale Demands with Advanced Technologies	M2C • Sensing Applications II	M2D • Applications of Passive Photonics	M2E • Digital Signal Processing, Machine Learning and Electrically-Enhanced Phase Noise
12:45–13:45	Optica Panel Discussion on Women at the Forefront of Optical Communication (RSVP requested), Rooms 203-204				
13:30–16:30	SC217, SC261, SC447, SC526*				
13:30–17:30	SC160, SC325, SC327, SC357, SC431 SC433 SC451, SC453B, SC528*				
14:00–16:00	M3A • Generative AI in Networking: From Proof of Concept to Production I	M3B • Open Optical Networks for 6G: Do we take the O-RAN path or blaze new trails?	M3C • High Symbol Rates Transceivers	M3D • Satellite and THz Communications	M3E • Integration and Devices for Quantum Systems
14:00–16:00	M3Z • Demo Zone, Room 303				
16:00–16:30	Coffee Break, Level 2 Corridors				
16:30–18:30	M4A • Generative AI in Networking: From Proof of Concept to Production II	M4B • Beyond Telecom: Illuminating Opportunities in Network-Scale Fiber Sensing	M4C • Datacenter Interconnect	M4D • Optical and Microwave Signal Processing	M4E • Quantum Entanglement and Computing (ends at 18:45)
19:00–21:00	Student Party, Lucky Strike Bowling				

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Rooms 209-210	Rooms 211-212	Rooms 213-214	Room 215	Room 301	Room 304
Registration Open, South Lobby, Moscone Center					
Optica Executive Forum, Lower B2 Level, Marriott Marquis (separate registration required)					
M1F • Hollow and Solid Core Ultra Low Loss Fibers	M1G • Datacenter IM/DD I	M1H • Space-Division Multiplexing and Hollow-Core Fiber Transmission	M1I • Optical X-Haul and In-Door Architectures	M1J • Intelligent and Autonomous Network Management	M1K • Light-Source and Integration I
SC369, SC393, SC443, SC444, SC448, SC452, SC453A, SC454, SC461, SC473, SC483, SC487, SC513, SC525, SC527*					
SC114, SC465*					
Coffee Break, Level 2 Corridors					
M2F • Hollow-Core Fiber Characterizations and Applications	M2G • Datacenter IM/DD II	M2H • Optical Transceiver Technologies	M2I • Coherent Access Networks	M2J • LiDAR, Ranging and Urban Demonstrations	M2K • Light Source and Integration II
Optica Panel Discussion on Women at the Forefront of Optical Communication (RSVP requested), Rooms 203-204					
SC217, SC261, SC447, SC526*					
SC160, SC325, SC327, SC357, SC431 SC433 SC451, SC453B, SC528*					
M3F • Multicore, Hollow Core, and Fiber-Based Networking	M3G • Novel Materials, Metamaterial and Reconfigurable Devices	M3H • Sensing and Monitoring for Network Control and Management	M3I • Optical Switches for Datacenters	M3J • Lasers and Ranging	M3K • Modulators with Silicon and Alternative Materials
M3Z • Demo Zone, Room 303					
Coffee Break, Level 2 Corridors					
M4F • Advanced Fibers and Applications	M4G • Free Space Optical Communications (FSOC) (ends at 18:45)	M4H • Networks with Optical Circuit Switching	M4I • Access Network Coexistence and Convergence	M4J • Fiber and Chip Coupling Interfaces	M4K • Advancement of Integrated PD and APD
Student Party, Lucky Strike Bowling					









Agenda of Sessions — Tuesday, 01 April

	Rooms 201-202	Rooms 203-204	Rooms 205-206	Room 207	Room 208	Rooms 209-210	Rooms 211-212
07:00–18:30	Registration Open, South Lobby, Moscone Center						
07:30–08:00	Joint Plenary Session Coffee Break, Outside of Esplanade Ballroom						
08:00–10:00	Tu1A • Plenary Session, Esplanade Ballroom						
10:00–17:00	Exhibition, Halls A-F (concessions available)						
10:00–14:00	Unopposed Exhibit-only Time, Exhibition Halls A-F (coffee service 10:00–10:30)						
10:30–12:00	The Art of Writing the Perfect OFC Paper, Room 104						
12:30–14:00	OFC and Co-Sponsors Awards Ceremony and Luncheon, Separate registration required. Salon 9, Marriott Marquis Hotel						
14:00–16:00	Tu2A • Hybrid Satellite/Terrestrial Networks: Where Does the Fiber End, and Satellite Take Over? I	Tu2B • Open-Access Design Platforms for PICs: Driving Sustainable Innovation	Tu2C • Summit on Optics for AI Datacenters	Tu2D • Quantum and Classical Security	Tu2E • Doped Fiber Lasers and Amplifiers I	Tu2F • Modulation and Coding	Tu2G • Filters, Multiplexers and Resonators
16:00–16:30	Coffee Break, Level 2 Corridors and Exhibition Halls A-F						
16:30–18:30	Tu3A • Hybrid Satellite/Terrestrial Networks: Where Does the Fiber End, and Satellite Take Over? II	Tu3B • Crafting Fiber Access Networks for Service Excellence Assurance	Tu3C • Novel Subsystem Concepts	Tu3D • Practical Quantum Networks and Coexistence	Tu3E • Doped Fiber Lasers and Amplifiers II	Tu3F • Optical AI Evaluation and Sensing	Tu3G • Optical Interconnect Technologies
17:15–18:15	Exhibitor Happy Hour, Esplanade Ballroom, Mezzanine						
18:30–20:00	Conference Reception, Salons 7-9, Lower B2 Level, Marriott Marquis Hotel						
19:30–21:00	Rump Session: If a Global Disaster Struck and all the Optical Infrastructure was Wiped Out, Would You Rebuild with Today's Mainstream Technologies?, Rooms 203-204						

Rooms 213-214	Room 215	Room 301	Room 304	Expo Theater I  	Expo Theater II 	Expo Theater III 
Registration Open, South Lobby, Moscone Center						
Joint Plenary Session Coffee Break, Outside of Esplanade Ballroom				Exhibition Opens 10:00		
Tu1A • Plenary Session, Esplanade Ballroom				MW1 • State of the Industry 10:45–12:15	SF1 • OPC: Lighting the Path to Exascale AI: Photonics in High-Performance Clusters 10:45–11:45	SF3 • MOPA: Optical Solutions for Open Cloud RAN with 6G 11:00–12:00
Exhibition, Halls A-F (concessions available)				MW2 • New Technologies Driving Spectral Efficiency Gains in Next-Gen Networks - Beyond Modems 12:30–14:00	DCS • Keynote: Potential Brick Walls in the Age of AI/ML 12:00–12:30	Tech Showcase: Optimized Interconnect for Ethernet Scale-Out and Scale-Up  BROADCOM 12:15–12:45
Unopposed Exhibit-only Time, Exhibition Halls A-F (coffee service 10:00–10:30)				MW3 • Optical Modules, Transceivers and Applications 14:15–15:45	DCS1 • Trends at Data Centers, Architectures, Enablers and Challenges 12:30–14:00	Tech Showcase: Lighting the Future, Open Optical Networking at the Intersection of AI and Photonics  Infinera 13:00–13:30
The Art of Writing the Perfect OFC Paper, Room 104				The Journey to Optimize Converged IP and Optical 16:00–17:00	DCS2 • The Impact of AI on Networking Inside and Outside of the Data Center 14:15–15:45	OFCnet Overview and Architecture Focus 13:45–14:15
OFC and Co-Sponsors Awards Ceremony and Luncheon, Separate registration required. Salon 9, Marriott Marquis Hotel					SF2 • IEEE Future Directions: The Emerging Photonics Ecosystem for AI/ML Interconnects. 16:00–17:00	SF4 • OpenROADM MSA Updates and Demonstration 14:30–15:30
Tu2H • Optical Network Optimization and Routing	Tu2I • Coherent PON Optimization	Tu2J • Modulator Structures with EML, Thin Film LN and Ring-Based	Tu2K • Stable Lasers and Applications in Fiber Sensing			Fiber Sensing 15:45–16:15
Coffee Break, Level 2 Corridors and Exhibition Halls A-F						Applications - Timing Presentation 16:30–17:00
Tu3H • Programmable and Interferometric Photonics Processors	Tu3I • Advanced Transmission Technologies	Tu3J • Integrated Micro-Ring and Micro-Disk Modulators	Tu3K • Modelling for Ultra-Wideband Transmission			
Exhibitor Happy Hour, Esplanade Ballroom, Mezzanine						
Conference Reception, Salons 7-9, Lower B2 Level, Marriott Marquis Hotel						
Rump Session: If a Global Disaster Struck and all the Optical Infrastructure was Wiped Out, Would You Rebuild with Today's Mainstream Technologies?, Rooms 203-204				Exhibition Closes 17:00		








Agenda of Sessions — Wednesday, 02 April

	Rooms 201-202	Rooms 203-204	Rooms 205-206	Room 207	Room 208	Rooms 209-210	Rooms 211-212
06:00–07:00	OFC Fun Run/Walk, <i>Dr. Martin Luther King Fountain, 750 Howard Street</i>						
07:30–18:00	Registration Open, <i>South Lobby, Moscone Center</i>						
08:00–10:00	W1A • Network Evolution and AI	W1B • Which Phase Tuning Technologies Have the Potential to Supplant Thermal Tuning in Silicon Photonics?	W1C • Submarine and Field Trials	W1D • Optical Signal Processing	W1E • Datacenter Wavelength and Mode Multiplexing	W1F • High-Speed Direct-Detection PON	W1G • Light-Source, QD and Comb
10:00–17:00	Exhibition, <i>Halls A-F, (concessions available, coffee service 10:00–10:30)</i>						
10:00–14:00	Unopposed Exhibit-only Time, <i>Exhibition Halls A-F</i>						
10:30–12:30	W2A • Joint Poster Session I, <i>Room 303</i>						
12:00–13:00	Optica Panel Discussion on Challenges and Solutions for Enabling Distributed Fiber Optical Sensing Networks, <i>(RSVP requested) Rooms 203-204</i>						
12:30–14:00	The Journal Review Process: All You Need to Know!, <i>Room 104</i>						
14:00–16:00	W3A • Advanced Packaging and Integrated Optics for Scale-Up AI interconnects I	W3B • Towards Operational Large-Scale Quantum Networks	W3C • Multi-Core Fibers	W3D • Photonics Enabled High Performance Computing	W3E • Optical Performance Monitoring and Longitudinal Power Monitoring	W3F • Switches and Control of Photonic Circuits	W3G • Imaging and Shape Sensing
16:00–16:30	Coffee Break, <i>Level 2 Corridors and Exhibition Halls A-F</i>						
16:30–18:30	W4A • Advanced Packaging and Integrated Optics for Scale-Up AI interconnects II	W4B • In Future Fixed Access, is Monitoring Built in For Free?	W4C • SDM Fiber Cables	W4D • Novel Photonic Computing and Switching Paradigms		W4E • Advanced Optical and Electronic Techniques in Transmission	W4F • Integrated Sensing and Communication in RoF/FSO (ends at 18:45)
17:00–18:00	Network Operator Happy Hour, <i>Mezzanine Alcove</i>						
17:00–19:00	Photonics Society of Chinese Heritage: Photonics Horizons: the Future of AI, Computing, and Connectivity, <i>Room 208</i>						

Rooms 213-214	Room 215	Room 301	Room 304	Expo Theater I  	Expo Theater II 	Expo Theater III 
OFC Fun Run/Walk, Dr. Martin Luther King Fountain, 750 Howard Street						
Registration Open, South Lobby, Moscone Center				Exhibition Opens at 10:00		
W1H • Optical Wireless Communication (OWC)	W1I • Waveguide Devices Based on Nonlinearities	W1J • Long-Distance and CV-QKD	W1K • Modelling and Nonlinearity Mitigation/ Compensation	NOS • Keynote: Empowering Hyper-Connected Digital Ecosystems with Programmable Networks 10:15–10:45	SF6 • Ethernet Alliance: Will the Complexity and Higher Link Speeds of Hyperscale Data Centers Hinder Interoperability? 10:15–11:15	Tech Showcase: Source to Solutions, Semiconductor Devices and Fiber Lasers  VITAL 10:15–10:45
Exhibition, Halls A-F, (concessions available, coffee service 10:00–10:30)				NOS1 • Panel I: Interoperation of Optical Pluggable Transceivers and IP/Optical Integration 10:45–12:15	SF7 • Open XR Optics Forum: Open XR Optics Update 11:30–12:30	Tech Showcase: Advanced Circuit Board Technology for High Speed Optical Interconnects  11:00–11:30
Unopposed Exhibit-only Time, Exhibition Halls A-F				NOS2 • Panel II: Optical Access, Radio Access Networks, Front- and Backhaul 12:30–14:00	SF8 • ITU-T SG15: Standards Update on Higher Speed PON, Latest OTN Technologies and Interoperable Optical Interfaces 12:45–13:45	Application Demonstrations - Network Performance 13:00–13:30
W2A • Joint Poster Session I, Room 303				MW4 • Inside Data Centers: Pluggable Optics Evolution 14:15–15:45	SF9 • AIM Photonics Presents PICs, Heterogeneous Integration, and Packaging for Next-Gen Integrated Photonics 14:00–15:00	SF10 • ETSI F5G: Advances in International Standards on Optical Networks Towards 2030 13:45–14:45
Optica Panel Discussion on Challenges and Solutions for Enabling Distributed Fiber Optical Sensing Networks, (RSVP requested) Rooms 203-204				SF5 • OIF: Coherent Optics Unleashed: 400ZR Success to 800ZR/LR Advancements and 1600ZR/ZR+ Kick-off 16:00–17:00	Shining Light on Interconnect Trends Shaping Tomorrow's Data Centers 	Tech Showcase: Arrayed Fiber Optics Innovative Multi-Fiber Connectors for the AI Age  15:00–15:30
W3H • Coherent and Direct Detect Transmission Technologies	W3I • Radio-over-Fiber (RoF) Transmission	W3J • Sensing and Protection in Access Networks	W3K • Specialty Fiber Devices I	Coffee Break, Level 2 Corridors and Exhibition Halls A-F		
W4G • Digital Twins in Network Control and Management	W4H • Machine Learning DSP	W4I • CV-QKD and Frequency Combs	W4J • Specialty Fiber Devices II	The Journal Review Process: All You Need to Know!, Room 104		
Network Operator Happy Hour, Mezzanine Alcove				The Marriage of AI and Optical Networking - Lightwave Panel 15:45–16:45		
Photonics Society of Chinese Heritage: Photonics Horizons: the Future of AI, Computing, and Connectivity, Room 208				Network Operator Briefing 16:30–17:00		
				Exhibition Closes at 17:00		

Agenda of Sessions — Thursday, 03 April

	Rooms 201-202	Rooms 203-204	Rooms 205-206	Room 207	Room 208	Rooms 209-210	Rooms 211-212
07:30–16:30	Registration Open, South Lobby, Moscone Center						
8:00–10:00	Th1A • Machine Learning for Network Operations	Th1B • Weather Resilient Communications of the Future	Th1C • Optical Computing	Th1D • Coherent for Datacenters	Th1E • Advanced Modulator and Detectors	Th1F • Photonic Advancements for Scalable and Secured Networks	Th1G • Low Loss Passives
10:00–16:00	Exhibition, Halls A-F, (concessions available, coffee service 10:00–10:30)						
10:00–14:00	Unopposed Exhibit-only Time, Exhibition Halls A-F						
10:30–12:30	Th2A • Posters Session II, Room 303						
14:00–16:00	Th3A • Frontiers of Optical Network Architecture Summit – Network Architecture Evolution in the Age of AI	Th3B • What Building-to-Building Optical Interconnect Will Enable Gigawatt Scale Training Clusters?	Th3C • Ultra-Wideband Transmission	Th3D • Point to Multipoint and Satellite Networks	Th3E • Photo-Detector and Integration	Th3F • Fiber Sensing and Characterization	Th3G • Enabling Techniques for PON
16:00–16:30	Coffee Break, Level 2 Corridors						
16:30–18:30	Postdeadline Paper Sessions, Rooms 203-204, 205-206, 211-212, 213-214						

Rooms 213-214	Room 215	Room 301	Room 304	Expo Theater I  	Expo Theater II 	Expo Theater III 
Registration Open, South Lobby, Moscone Center						
Exhibition, Halls A-F, (concessions available, coffee service 10:00-10:30)				Exhibition Opens at 10:00		
Th1H • Multiband Optical Networks	Th1I • Distributed Acoustic Sensing	Th1J • Advances in Future PON	Th1K • Direct Detection DSP	MW5 • Optical Network Evolution for AI/ML, Architectures and Drivers 10:15-11:45	SF13 • Hyperlight - Commercial Readiness of Thin-Film Lithium Niobate Photonics 10:15-11:15	Tech Showcase: Introduction to NGK Bonded Wafer for Optical Communication  NGK INSULATORS 10:15-10:45
Unopposed Exhibit-only Time, Exhibition Halls A-F				MW6 • Digital Twin, Telemetry, Monitoring and Testing 12:00-13:30	SF14 • Cable Labs: Out of the Darkness: A Sneak Peek at CableLabs' CPON Specifications 11:30-12:30	Quantum at OFCnet 11:00-11:30
Th2A • Posters Session II, Room 303				SF11 • OPC: Moving Beyond 200 Gb/s Signaling and the Future of AI Systems 13:45-14:45	SF15 • OIF: Optical Interconnects for AI 12:45-13:45	Tech Showcase: Suzhou Suna Optoelectronics Co., Ltd  SUNA 11:45-12:15
Th3H • Packaging and Coupling Techniques	Th3I • Free-Space Optical QKD, QRNG, and Classical Techniques	Th3J • Device Applications for Wireless Communications	Th3K • Coherent DSP	SF12 • Advanced Photonics Coalition From Vision to Reality: Enabling Robust Volume Manufacturing of Photonic ICs for AI Networks 15:00-16:00	SF16 • Coherent Moving to Client Optics 14:00-15:00	Tech Showcase: Sumitomo Electric Lightwave  SUMITOMO ELECTRIC LIGHTWAVE 13:15-13:45
Coffee Break, Level 2 Corridors				Application Demonstrations at OFCnet 15:15-15:45	SF17 • IPEC: How Will Optical Interconnects to Meet AI Demand? 14:45-15:45	
Postdeadline Paper Sessions, Rooms 203-204, 205-206, 211-212, 213-214				Exhibition Closes at 16:00		

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D5: Fiber Devices, Fiber Lasers and Amplifiers and Nonlinear Waveguides

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N5: Market Watch, Network Operator Summit & Data Center Summit (Invited Program Only)

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