Exhibits and Show Floor Programs

Gain Access to Thought Leaders, Hot Products and Ground-breaking Technologies

OFC

The future of optical networking and communications

TECHNICAL CONFERENCE
8 – 12 March 2020

SHORT COURSES
8 – 9 March 2020

EXHIBITION
10 – 12 March 2020

San Diego, California, USA

ofcconference.org

IEEE **ComSoc**™
IEEE Communications Society

IEEE **Photonics Society**

OSA® | **100**
The Optical Society | Since 1916

Location

San Diego Convention Center

111 W Harbor Drive
San Diego, California 92101
USA

Dates

10 February 2020
Advance Registration Deadline
(23:59 EST)

14 February 2020
Hotel Reservation Deadline

8 – 12 March 2020
Technical Conference

8 – 9 March 2020
Short Courses

10 – 12 March 2020
Exhibits and Show Floor Programs

Support

General Information
+1.202.416.1907
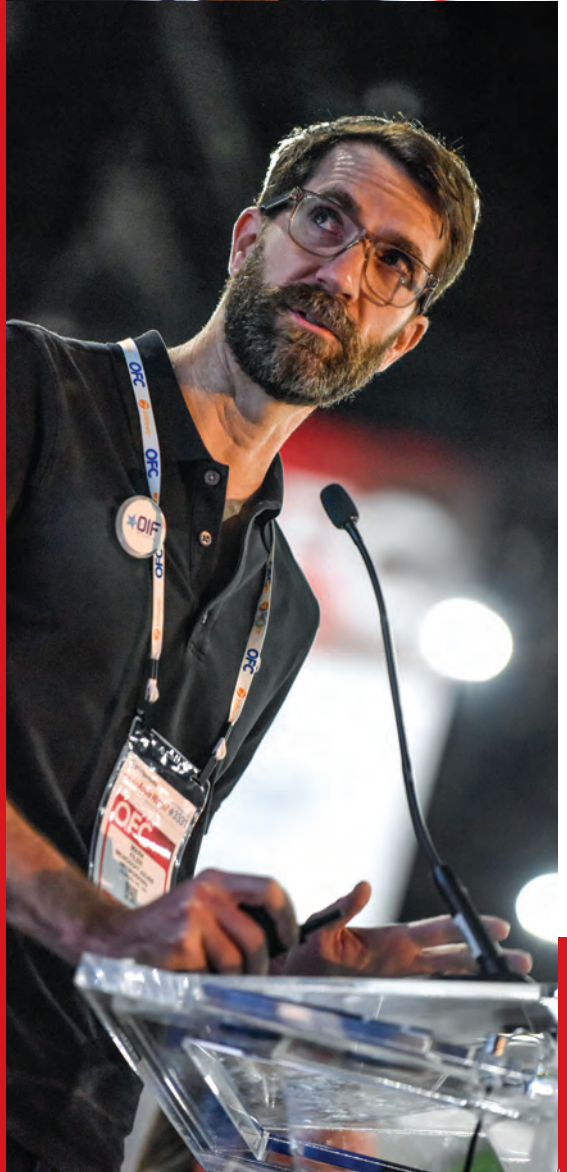+1.800.766.4672
custserv@osa.org

Registration
+1.855.326.8341
+1.224.563.3121
ofc@csreg.zohodesk.com

Hotel Reservations
+1.800.465.9101
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OFC

It's Here!

The Year's Premier Event in Telecom and Data Center Optics

OFC is the world's largest conference and exhibition for optical communications and networking professionals.

Nearly 15,000 manufacturers, developers, end users and other business and technology leaders attend from 70 countries seeking the future direction of the industry.

OFC is the go-to source for information on new products and forward-looking market intelligence and trends.

It's Free!

Exhibits Pass Plus Registration Includes:

- Access to the exhibition with over 700 exhibitors
- Market Watch — 7 panel discussions covering the latest application topics and trending business issues.
- Network Operator Summit — keynote and 2 panels provide the inside perspective from network operators and service providers — their issues, drivers and requirements.
- Data Center Summit — keynote and 1 panel address different aspects of optical technologies that impact data centers.
- Over 20 business programs on the show floor
- Plenary Session featuring 3 industry luminaries
- 10 interactive hot topic workshops
- OFC Career Zone Live
- OFC 2020 Buyers' Guide

Register today for Exhibits Pass Plus!
ofcconference.org/registration

Schedule

	Sunday, 8 March	Monday, 9 March	Tuesday, 10 March	Wednesday, 11 March	Thursday, 12 March
General					
Registration*	07:30 – 19:00	07:30 – 18:00	07:00 – 18:00	07:30 – 17:00	07:30 – 16:00
Exhibition and Show Floor			10:00 – 17:00	10:00 – 17:00	10:00 – 16:00
Unopposed Exhibit-only Time			10:00 – 14:00	12:30 – 14:00	12:30 – 14:00
OFC Career Zone Live			10:00– 17:00	10:00– 17:00	10:00 – 16:00
Short Courses (fee required)	09:00 – 20:00	08:30 – 17:30			
Workshops	13:00 – 18:00				
Plenary			08:00 – 10:00		
Poster Sessions				10:30 – 12:30	10:30 – 12:30
Special Keynote: Celebrating 50 Years of Light-speed Connections			18:15 – 19:00		
Conference Reception (Ticket required for Exhibits Pass Plus attendees)			19:00 – 20:30		
Show Floor Programs					
MARKET WATCH (SPONSORED BY HUAWEI)					
Panel I: State of the Industry			10:30 – 12:00		
Panel II: 5G and Re-thinking Access Networks			12:30 – 14:00		
Panel III: Optical Interconnect and Computing for Scaling Machine Learning (ML) Systems			14:30 – 16:00		
Panel IV: What Is Next for Data Center Interconnects?				15:30 – 17:00	
Panel V: Inside the Data Center					10:30 – 12:00
Panel VI: Advanced Packaging and Photonic Integration					12:30 – 14:00
Panel VII: IP+WDM Architecture Evolution					14:30 – 16:00
NETWORK OPERATOR SUMMIT					
Keynote: Chih-Lin I, *China Mobile Chief Scientist, Wireless Technologies, China Mobile Research Institute, China*				10:30 – 11:15	
Panel I: Next Generation Access Network				11:15 – 12:45	
Panel II: Transport on a Plug				13:30 – 15:00	
DATA CENTER SUMMIT (SPONSORED BY INNOLIGHT)					
Keynote: Jeffrey Cox, *Partner Director Network Architecture, Microsoft, USA*			11:30 – 12:15		
Data Center 2020 – Less Hyperscale and More Co-location and Compute at the Edge?			12:15 – 13:45		

All times reflect Pacific Time Zone

* Hours subject to change

	Tuesday, 10 March	Wednesday, 11 March	Thursday, 12 March
INFRASTRUCTURE MAKEOVER AND NETWORKING			
5G Architectures and Service Considerations	12:15 – 13:15		
Accelerating ROI on the Road to SDN	16:00 – 17:00		
The Disaggregated Transport Network (TIP)		11:30 – 13:00	
Cloud Network Evolution Bandwidth Drivers (IEEE Future Directions)		13:15 – 14:45	
Open, Multi-vendor Networks – Design, Management and Operations (OpenConfig)		15:30 – 17:00	
INTRA AND INTER DATA CENTER CONNECTIVITY			
Ethernet Interoperability and Deployments – New and Legacy Solutions Work Together (Ethernet Alliance)	10:15 – 11:15		
400ZR Specifications Update (OIF)	13:30 – 14:30		
Embedded Optics and How They Should Be Done to Support the OEM Eco-system	15:00 – 17:00		
New High-bandwidth, Non-DSP Interface for Data Center and Campus Interconnects (Open Eye MSA)		15:00 – 16:00	
Design Consideration of Next Generation Ethernet Switches With Higher Speed Optics			10:15 – 11:15
System Evaluation of On-board Optics (COBO)			11:30 – 12:30
OTHER			
AIM Photonics Member Successes and Updates (AIM Photonics)	11:00 – 12:00		
Standards Update on 5G Transport, Higher Speed PON, Latest OTN Technologies and Interoperable Optical Coherent Interfaces (ITU-T SG15)	14:45 – 15:45		
112 Gbps Electrical Interfaces – An OIF Update on CEI-112G		16:15 – 17:00	
3D Sensing Uses in Consumer and Automotive Markets			12:15 – 13:30
POF Symposium (POFTO)			13:45 – 14:45
Fiber Types and Amplifiers: Choices and Trade-offs			15:00 – 16:00
COMMERCIALLY SPONSORED SESSIONS			
Preparing the Transport Network for 5G (Juniper Networks)	13:50 – 14:50		
Revolutionizing the Economics of Pluggable Optics with Silicon Photonics (Juniper Networks)		10:15 – 11:15	
Transforming Network Operations Through Automation (Juniper Networks)			12:45 – 13:45
Unleashing the Full Potential of Silicon Photonics (Acacia Communications Inc.)		13:30 – 14:30	
Beyond 400ZR…What Comes Next? (Acacia Communications Inc.)			11:00 – 12:00
PRODUCT SHOWCASES			
Company Product Presentations	10:15 – 10:45	10:15 – 13:30 14:30 – 15:30	10:15 – 10:45

Special Sessions

Plenary

The plenary speakers at OFC include an industrial leader and a research leader, both covering topics related to the technical core of the conference, and a visionary speaker linking topics outside OFC's focus to the conference.

Qi Bi
President, China Telecom Technology Innovation Center, Chief Technology Office, China Telecom Beijing Research Institute

5G Evolution: Challenges and Opportunities

Karsten Danzmann
Vice Managing Director, Laser Interferometry and Gravitational Wave Astronomy, Max Planck Institute for Gravitational Physics, Germany

The Challenge and Impact of Detecting Ripples in Spacetime

Sir David Payne
Director, Optoelectronics Research Centre, University of Southampton, UK

Is There a Future for Silica as an Optical Material?

Workshops

Interactive workshops discuss and debate the latest technologies featuring a panel of invited speakers. See complete descriptions and speakers at **ofcconference.org/workshops**

800G and Beyond: Will Coherent Prevail at Short-Reach Distances?

Are Radical Photonic Devices and Architectures Needed for Future Data Centers?

Converged 5G and Heterogeneous Services Access Networks: How to Achieve Ultra-low Latency and High Reliability?

Does Disaggregation Support Data Center Evolution?

Network Analytics in the Age of Machine Learning: How to Share Data and Maximize Synergies Among Transport Systems and Network Operators

Optical Components for fJ/bit Exascale Computing: How and When?

Optics for Neuromorphic Computing and Machine Learning: Status, Prospects and Challenges

Trends and Perspectives in Space-division Multiplexed Transmission and Related Devices

What ROADM/OXC Technologies Will Cost-effectively Enable Dynamic and Reconfigurable Optical Networks in 5G Era?

What Will Drive the Transition to Coherent Intra-Data-Center Optics?

Special Events

Celebrating 50 Years of Light-speed Connections

In 1970, two significant technical achievements led to the development of practical fiber optical communications: the demonstration of low-loss fibers (16dB/km) and the first CW room-temperature semiconductor laser. Since then, numerous other breakthroughs have led to increasing the bandwidth and reach of fiber links, enabling the World Wide Web, video streaming, trans-oceanic high-capacity links, high-capacity wireless communications and many other data services.

At the 2020 OFC Conference and Exhibition, come celebrate the successes of the OFC community that have facilitated light-speed connections between individuals across geographic and oceanic boundaries.

Highlights include:

Special Keynote
The evolution of technology is often a history of firsts. The initial demonstration of low-loss fibers and CW diode lasers have led to other important developments including; the first electrically pumped VCSEL, the first transatlantic fiber cable, commercial WDM systems, the deployment of InP photonic integrated circuits and the commercialization of silicon photonics to mention a few. This special presentation from one of our industry's leaders looks back at 50 years of discovery and concludes with an overview of how these technologies have impacted our world – from instant, worldwide communication to enabling 5G, the Internet and the Internet of Things.

The Timeline of Innovation
As we look back at the discoveries of years past and speculate about what is yet to come, OFC unveils a unique show-floor exhibit that surveys 50 years of optical fiber innovations – from the first demonstration of low-loss fiber in 1970 to efficient 400GbE transport at any distance today. Browse the timeline of milestones, and see the progression of invention through artifacts and imagery.

Conference Reception
The special keynote will be followed by an enhanced, themed conference reception featuring an array of food and drink. (Requires a ticket for Exhibits Pass Plus attendees.)

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CORNING

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THORLABS

Exhibition

Fit a Year's Worth of Meetings into Just Three Days!

Visit more than 700 participating companies showcasing network equipment and software, active and passive components, test and manufacturing equipment, data center/IT products and cable and fiber. Only OFC offers the size and scope to compare and contrast vendors, giving you the information you need to make all your technology decisions in one place.

Experience the Most Comprehensive Exhibition in the Industry

- Check out multi-vendor interoperability demos
- See and compare new products
- Meet with vendors
- Explore customized solutions

- Network with colleagues
- Establish new contacts
- Learn what's hot
- Attend business sessions
- Speak with recruiters from top companies

Exhibitors and Sponsors as of November 2019

View the floor plan, review company descriptions and find products and vendors of interest. **ofcconference.org/exhibithall**

(Sponsors are highlighted in red)

3M Electronics Materials Solutions Division
3SAE Technologies
AC Photonics, Inc.
Acacia Communications, Inc.
Accelight Technologies, Inc.
Accelink Technologies Co., Ltd. & WTD
Accumold
ACON Optics Communications, Inc.
Adamant Namiki Precision Jewel Co., Ltd.
ADSANTEC, Inc.
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Advanced Fiber Resources (Zhuhai) Ltd.
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Advanced Microoptic Systems GmbH
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AFL
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AIM Photonics
Aitelong Technology Co., Ltd.
Akribis Systems, Inc.
Albis Optoelectronics
Alibaba Group
Alight Technologies APS
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Alnair Labs Corporation
Alpine Optoelectronics, Inc.
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Apogee Optocom Co., Ltd.
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Applied Thin-Film Products
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Arden Photonics, Ltd.
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Arrayed Fiberoptics Corporation
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Chengdu Superxon Communication Technology Co., Ltd.
Chengdu Tsuhan Science & Technology Co., Ltd.
Chiral Photonics, inc.
Chroma ATE Inc.
Chuxing Optical Fiber Application Technologies, Lt
Cicor Group
CIENA Corporation
Cisco Systems, Inc.
Cleveland Electric Laboratories
Cloud Light Technology Limited
CN-J Technology Co., LTD.
Coastal Connections
CODIXX AG
Coherent Solutions
CompoundTek Pte. Ltd.
Connected Fibers
Consortium for On-Board Optics (COBO)
Conweal Technologies Co., Ltd.
CorActive High-Tech, Inc.
Cornerstone
Corning Incorporated
COSET, Inc.
Craftmark Cable Markers
CreaLights Technology Co., Ltd.
CREDO
Crestec Corporation
Crowntech Photonics Co., Ltd.
CRXCONEC Company Ltd.
Daitron, Inc.
Dandong Futian Exactitude Machinery Co., Ltd.
Danyang Yuqiao Precision Component Co., Ltd.
DATA-PIXEL
Delta Electronics (Americas), Ltd.
Denselight Semiconductors PTE Ltd.
DiCon Fiberoptics, Inc.

Dimension Technology Co., Ltd.
Direct Optical Research Company
Discovery Semiconductors, Inc.
Domaille Engineering, LLC
Dowslake Microsystems
DustPhotonics, Inc.
East China Research Institute of Microelectronics (ECRIM)
East Photonics, Inc.
East Point Communication Technology Co., Ltd.
East Tender Optoelectronics Corp.
ECI Telecom
ECOC 2020
EFFECT Photonics B.V.
EKINOPS
ElectroniCast Consultants
Elenion Technologies, LLC
Emcore Corporation
Enablence USA Components, Inc.
Eoptolink Technology Inc., Ltd.
EOSPACE, Inc.
Epoxy Technology, Inc.
Ethernet Alliance
Eugenlight Technologies
European Patent Office
EXFO
Experior Laboratories, Inc.
F&K Delvotec Inc.
Fabrinet
Ferrotec USA
Fiber Instrument Sales, Inc.
Fiber Locator
Fiber Optic Center, Inc.
Fiber Plus International
Fibercore
FiberLabs, Inc.
Fibernet SRL
Fiberon Technologies, Inc.
FiberPro, Inc.
FiberQA LLC
FiberStory
ficonTEC (USA) Corporation
FINETECH
Finisar
Fi-ra Photonics Co., Ltd.
Fishman Corporation
FiTek Photonics Corporation
FitTech Co., Ltd.
Fluke Networks
Flyin Optronics Co., Ltd.
FOCI Fiber Optic Communications, Inc.
Focuz Manufacturing Co., Ltd.
Formerica Optoelectronics Inc.
Foxconn Interconnect Technology
Frontlynk Technologies, Inc.
Fujitsu Network Communications
Fujitsu Optical Components
G&H
General Photonics Corp.
Glenair

Global Communication Semiconductors, Inc.

GLOBALFOUNDRIES

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GOC Co., Ltd.

GOC International Technology Corp.

Golight Technology

GouMax Technology, Inc.

Gowanda Components Group

GPD Optoelectronics Corp.

Guandong Huajiayu Technology, Co., Ltd.

Guangdong Ruigu Optical Network Communication

Guilin GLsun Science and Tech Group Co., LTD

Hengtong Optic-Electric Co., Ltd.

Henkel Corporation

Hikari, Inc.

Hikifune Co., Ltd.

HiLight Semiconductor, Ltd.

Hisense Broadband, Inc.

Hitachi High Technologies America

Hitronics Technologies, Inc.

HTD Fibercom Co., Limited

Huangshi Sunshine Optoelectronic, LLC

Huawei Technologies USA

HUBER+SUHNER

HYC Co., Ltd.

IBM Canada

II-VI

IMEC

Industrial Technologies LLP

Infinera

Infinera – GSM

INNO Instrument, Inc.

InnoLight

Innovative Micro Technology

Innovium

INOPTICALS Inc.

InPhenix

Inphi Corporation

Inphotech

INTEC E&C Co. Ltd.

Intel Corporation

International Telecommunication Union (ITU)

inTEST Thermal Solutions

IQE

Ironwood Electronics

IXBLUE

Jabil AOC Technologies

JBTX

JC Com Co., Ltd.

Jenoptik

JGR Optics

Jiangsu Etern Co., Ltd.

JiangSu UNIKIT Optical Technologies Co., Ltd.

Jiangxi Ruiyuan Precision Machining Co., Ltd.

Johanson Technology, Inc.

Juniper Networks

KAPID (Korea Association for Photonics Industry)

Kelvin Nanotechnology Limited

Keysight Technologies

KGS America

Kingbolt Technology (HK) Co., Ltd.

Knowles Precision Devices

Kohoku Kogyo Co., Ltd.

Komshine Technologies Limited

Korea Optron Corp.

Krell Technologies, Inc.

KST World Corp.

Kyocera International, Inc.

Kyosemi Opto America Corp.

Laser Components USA Inc.

LETI

Liaoning Youopto Technology, Co. Ltd.

LiComm Co., Ltd.

LiGenTec SA

Lightcomm Technology Co., Ltd.

LightCounting, LLC

Lightel Technologies, Inc.

Lightip Technologies

Lightron, Inc.

Linktel Technologies Co., Ltd.

Lintes Technology Co., Ltd.

LioniX International

Liverage Technology, Inc.

Lonte Technology Co., Ltd.

LUCEDA Photonics

Lumacron Technology Ltd.

Lumentum

Lumerical, Inc.

Lumibird

Luna Innovations

Luxshare-ICT

MACOM

Malico, Inc.

Maxim Integrated Products

MaxLinear

Mellanox Technologies

**Menara Networks
An IPG Photonics Company**

Mentor Graphics Corporation

Mianyang Optink Technology Co., Ltd.

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Microchip Technology

MicroCircuit Laboratories LLC

Microlap Technologies, Inc.

Mitsubishi Electric US, Inc.

Mitsubishi Materials USA Corporation

Mixed-Signal Devices Inc.

ModuleTek Limited

Molex

MoSys, Inc.

MPB Communications, Inc.

MPI Corporation

MPNICS Co., Ltd

MRSI Systems

MultiLane SAL

Murata Electronics

Nanometer Technologies, Inc.

nanoPrecision Products

Nanosystec

National Research Council Canada

Necsel IP, Inc.

NEON Photonics Co. Ltd.

NeoPhotonics

Neptec OS, Inc.

NetQuest Corporation

New Ridge Technologies

Newport Corporation

Nicslab Pty Ltd

Ningbo Getek Communications Equipment Co., ltd.

Ningbo GEYIDA Cable Technology Co. Ltd.

Ningbo GMF Telecom Technology Co., Ltd.

Ningbo Guangyu-Tech Co. Ltd.

Ningbo Hi-Sun IMP & EXP Co. Ltd.

Ningbo Jitong Electronics Co., Ltd.

Ningbo Yuda Communication Technology, Co. Ltd.

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Nissin Kasei USA Corp

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OE Solutions, Co., Ltd.

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Phononic

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PICadvanced

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Precision Optical Transceivers, Inc.

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Promet Optics

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RAM Photonics, LLC

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Rayzer Optoelectronics
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Reflex Photonics

Renesas Electronics America Inc.

RMT, Ltd.

Rockley Photonics

Rosendahl Nextrom

Samtec, Inc.

Santec USA Corporation

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SCHOTT Electronic Packaging

SCINTIL Photonics

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Shenzhen Opticking
Technology Co., Ltd.

Shenzhen Optone
Technology Co., Ltd.

Shenzhen Opway Communication

Shenzhen PD-OPTIC
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Technology Co., Ltd

SHENZHEN XIANGTONG CO.,LTD

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Fiber Cable Co., Ltd.

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Technologies AG

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Skylane Optics

SmarAct, Inc.

SMART Photonics B.V.

Smartoptics

SOC America, Inc.

Somacis

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Solutions Corporation

Source Photonics

Speedphoton Technology

Spirent

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Sticklers Fiber Optic Cleaners

Sumitomo Electric Device
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Sumix Corporation

Suncall America

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Technology Co., Ltd.

SURWINS Technologies Co., Ltd.

SUSS MicroOptics SA

Suzhou Agix Optical
Technology Co., Ltd.

Suzhou GL Foresight Electronic
Technology Co., Ltd.

Suzhou Green Telecom
Technology Co., Ltd.

Suzhou Lieqi Intelligent
Equipment Co. Ltd.

Suzhou TFC Optical
Communication Co., Ltd.

Synopsys, Inc.

Syntec Optics

SZOPT Communication Co., Ltd.

T Plus, Co., Ltd.

T&S Communications Co. Ltd.

TE Connectivity

Tecdia, Inc.

Technohands Corp.

Tecnisco, Ltd.

Telecom Infra Project

Telescent, Inc.

Terabitcom Technology

TeraXion

The Light Connection, Inc. (TLC)

The Suzanne R. Nagel Lounge

Thorlabs

Tianjin Eloik Communication
Equipment Technology

Timbercon, Inc.

Tomoegawa Co., Ltd.

Topstone Communication, Inc.

TowerJazz

Triformix Optronics Technology
(Suzhou) Co., Ltd.

Triple Stone

TRUMPF Photonic
Components GmbH

TTM Technologies

UC Instruments Corp

U-Flex Co., Limited

ULTRA TEC Mfg., Inc.

US Conec, Ltd.

Vanguard Automation GmbH

Vectrawave

VeEX, Inc.

VI Systems GmbH

Viasat, Inc.

VIAVI Solutions

Vishay Intertechnology

Vital Materials

VLC Photonics S.L.

VPIphotonics

W2 Optronics, Inc.

WAKA Manufacturing

Wanjun Engineering SDN BHD

WaveSplitter Technologies, Inc.

Wooriro Co., Ltd.

Wuhan Amazelink Technologies

Wuhan HuaGong Genuine
Optics Tech Co., Ltd

Wuhan RayOptek Co., Ltd.

Wuhan Yi Valley Optoelectronic
Technology Co., Ltd.

Wuhan Yilut Technology Co., Ltd.

Wuxi Taclink Optoelectronics
Technology Co., Ltd.

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(Huizhou) Co., Ltd

Xelic

Xena Networks

XFS Communications, Inc.

Xgiga Communication
Technology Co., Ltd.

Xiamen Beogold
Technology Co., Ltd.

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Xilinx, Inc.

Yangtze Optical Fibre and
Cable Co., Ltd.

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Zhejiang Jiawei Communication
Equipments Co., LTD.

Zhejiang Lante Optics Co., Ltd.

Zhejiang Oryarwa

Zhejiang Wanma Tianyi

Zhongruisulian (Wuhan)
Technology Co., Ltd.

Zhongshan Meisu
Technology Co., Ltd.

Zibo Fengyan Electronics
Component Co.,Ltd

Business Programs

Three theaters on the show floor feature presentations by experts from major global brands and key industry organizations. Get high-level takes on hot topics and market trends. Learn about the state of the industry, emerging technologies and recommended courses of action to tackle today's toughest business challenges.

THEATER II SPONSORED BY

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NETWORKS

THEATER III SPONSORED BY

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COMMUNICATIONS, INC.

Hear Industry Leaders

Show floor programs feature companies and industry groups driving the evolution of optical networks.

COMPANIES

II-VI

Acacia Communications

ADVA Optical Networking

Alibaba Group

Arista Networks

Ayar Labs

British Telecom

Broadcom

Ciena

Cisco

Comcast

Equinix

euNetworks

Facebook

Fujitsu

Futurewei

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Hewlett Packard

Huawei

Inphi Corp.

Intel

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Market Watch

GET AN INSIDER'S LOOK AT TODAY'S MOST IMPORTANT INDUSTRY DEVELOPMENTS
This three-day series of panel discussions addresses the latest application topics and business issues in optical communications and networking. Market Watch features esteemed speakers from top carriers, system vendors, market analyst firms and component companies.

ORGANIZER
N5 Network Operator Summit, Market Watch and Data Center Summit Sub-Committee Chair

Karen I. Matthews, *Technology and Market Development Manager, Science and Technology, Corning Incorporated, USA*

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Panel I: State of the Industry
Tuesday, 10 March, 10:30 – 12:00

MODERATOR
Vladimir Kozlov, *Founder and CEO, LightCounting Market Research, USA*

Industry and financial analysts present their unique view on the current state of the optical market, discussing areas that encompass components, subsystems and system manufacturers as well as market influences and drivers. The session covers factors that influenced the past year and describes trends that are expected to define the future.

SPEAKERS
Heidi Adams, *Executive Director, Network Infrastructure Research, Informa, Canada*
Lisa Huff, *Principal Analyst, Ovum, USA*
Jimmy Yu, *Vice President, Dell'Oro Group, USA*

Panel II: 5G and Re-thinking Access Networks
Tuesday, 10 March, 12:30 – 14:00

MODERATOR
Ed Harstead, *Lead Technology Strategist, Nokia, USA*

This session discusses the future of TDM PONS and whether they can support the requirements for 5G backhaul, midhaul and fronthaul and whether PONs for 5G transport will be widely adopted. It will also cover Fixed Wireless Access (FWA) and whether it is a viable FTTH substitute.

It will bring varying viewpoints to help sort out the proliferating PON standardization developments – what are the use cases, with particular emphasis on 5G mobile transport and what are the competing technologies.

SPEAKERS
Kevin Cheng, *Senior Director of PLM and Business Development – APAC, MACOM Technology Solutions, Inc, USA*
Frank Effenberger, *Vice President Fixed Access Network Lab, Futurewei Technologies, USA*
Per Hansen, *VP Marketing and Sales, OE Solutions America, USA*
Steve Penticost, *Vice President Global Business Development, ADVA Optical Networking, UK*
Stefaan Vanhastel, *CTO, Nokia Fixed Networks, USA*

Panel III: Optical Interconnect and Computing for Scaling Machine Learning Systems
Tuesday, 10 March, 14:30 – 16:00

MODERATOR
Ryohei Urata, *Technical Lead/Manager, Google, USA*

Until recently, the architectures and systems for executing Machine Learning (ML) workloads were based on traditional optical interconnects used for data center networking or high-performance computing. In this session cloud operators, component/system vendors and startups discuss optical technologies for more efficient and scalable ML systems.

SPEAKERS
Paolo Costa, *Principal Researcher, Microsoft, UK*
Nicolas Harris, *CEO, Lightmatter, Inc., USA*
Benny Koren, *VP Architecture, Mellanox Technologies, Israel*
Robert (Ted) Weverka, *Senior Optical Physicist and IP Lead, Fathom Computing, USA*

Panel IV: What Is Next for Data Center Interconnects?

Wednesday, 11 March, 15:30 – 17:00

MODERATOR
Loukas Paraschis, *Senior Director, Infinera, USA*

This panel discusses the extent to which innovations in automation, programmability, management abstraction, control-plane disaggregation and open transport architectures have been adopted in current and future DCI networks. It will also cover the potential value from optimization and traffic engineering.

SPEAKERS
Andy Bechtolsheim, *Founder, Chief Development Officer and Chairman, Arista Networks, USA*

Nancy El-Sakkary, *Staff Network Engineer, Google, USA*

Michael Strunz-Kroll, *Head of Architecture and Engineering, euNetworks, UK*

Chongjin Xie, *Senior Director, Alibaba Group, USA*

Panel V: Inside the Data Center

Thursday, 12 March, 10:30 – 12:00

MODERATOR
Hideki Isono, *Senior Professional Engineer, Fujitsu Optical Components, USA*

This panel discusses technology options to achieve the next phase of the data center technology roadmap beyond 400G. There are several alternatives to explore such as 800G and 1.6T, pluggable options, on-board optics and co-packaging, which will all require technology breakthroughs and time to mature.

SPEAKERS
Andy Bechtolsheim, *Founder, Chief Development Officer and Chairman, Arista Networks, USA*

Robert Blum, *Director of Marketing and New Business, Intel, USA*

Brad Booth, *Next Cloud System Architecture, Microsoft, USA*

Jeferry Maki, *Distinguished Engineer II, Juniper Networks, USA*

Mark Nowell, *Fellow, Cisco Systems Inc., Canada*

Sang-Yoon (Sy) Rhee, *Director, Marketing, Fujitsu Optical Components America, Inc., USA (FOCUS)*

Panel VI: Advanced Packaging and Photonic Integration

Thursday, 12 March, 12:30 – 14:00

MODERATOR
Takashi Saida, *Senior Manager, NTT, Japan*

Continuous growth of data center performance and high performance computing requires wider bandwidth optical interconnects. This will require innovative photonic integration technology. The panel debates the current reality and the future promise of packaging technology, photonic integration and the associated eco systems.

SPEAKERS
Peter De Dobbelaere, *Director Technology Development, Cisco, USA*

Raj Krishnaswamy, *Vice President Product, Optical Communications, Rockley Photonics, USA*

Thomas Lilieberg, *GM Photonic Integration, Intel, USA*

Patrick Lo, *Co-Founder and President, Advanced Micro-Foundry Pte Ltd, Singapore*

Rob Stone, *Distinguished Engineer, Broadcom, USA*

Andrew Wheeler, *HPE Fellow, Vice President and Deputy Director, Hewlett Packard Labs, Hewlett Packard Enterprise, USA*

Anthony Yu, *Vice President, Computing and Wired Infrastructure (CWI) Segment Business Unit, Global Foundries, USA*

Panel VII: IP+WDM Architecture Evolution

Thursday, 12 March, 14:30 – 16:00

MODERATOR
Helen Xenos, *Sr. Director, Portfolio Marketing, Ciena, USA*

The miniaturization of electro-optics alongside advancements in CMOS that enable lower power/footprint are enabling the deployment of coherent optics in smaller pluggable form factors across new areas of the network. These advancements bring with them new opportunities for deploying switches/routers with integrated or coherent pluggable optics, also known as IP over DWDM (IPoDWDM). This session discusses different points of view on the evolution of networks toward IP+DWDM architecture.

SPEAKERS
Robert Keys, *Senior Director Optical Transmission, Ciena, USA*

Praveen Kumar, *Vice President, Bharti Airtel, India*

Network Operator Summit

GET THE INSIDE PERSPECTIVE FROM NETWORK OPERATORS

This dynamic program presents the inside perspective from service providers and network operators – their issues, drivers and how their requirements may impact the future of the industry. Everyone in the supply chain, from equipment manufacturers to components, will want to hear what's next in meeting the needs of all network operators.

ORGANIZER

N5 Network Operator Summit, Market Watch and Data Center Summit Sub-Committee Chair

Karen I. Matthews, *Technology and Market Development Manager, Science and Technology, Corning Incorporated, USA*

Keynote
Wednesday, 11 March, 10:30 – 11:15

Chih-Lin I, *China Mobile Chief Scientist, Wireless Technologies, China Mobile Research Institute, China*

Panel I: Next Generation Access Network
Wednesday, 11 March, 11:15 – 12:45

MODERATOR

Julie Kunstler, *Principal Analyst, Network Infrastructure and Software, Ovum, USA*

This panel presents and discusses case studies of next-gen access deployments covering telco operators, cable operators and mobile network operators. It covers different approaches such as a "universal" access network, next-gen TDM-based GPON and EPON, HFC-based Full Duplex DOCSIS and 5G.

SPEAKERS

Cedric Lam, *Engineering Director, Google Fiber, USA*

Ariyanto S. Pawiro, *Assistant Vice President of Access Network Strategy, PT. Telekomunikasi Indonesia, Indonesia*

Albert Rafel, *Optical Networks Research Manager, British Telecom, UK*

Glen Wellbrock, *Director of Optical Transport Planning, Verizon, USA*

Panel II: Transport on a Plug
Wednesday, 11 March, 13:30 – 15:00

MODERATOR

Joy Jiang, *Technical Program Manager, Google Fiber, USA*

This session assembles speakers from leading edge operators around the world that are exploring and deploying IPoDWDM. Other speakers include systems manufacturers and component vendors that are developing IPoDWDM technology. Throughout the session, speakers will articulate IPoDWDM use cases and technology updates.

SPEAKERS

Jörg-Peter Elbers, *SVP Advanced Technology, Standards & IPR, ADVA Optical Networking, Germany*

Mark Filer, *Principal Engineer, Optical Networking, Microsoft, USA*

Tad Hofmeister, *Optical Network Architect, Google, USA*

Radha Nagarajan, *CTO Interconnects, Inphi, USA*

Data Center Summit

ORGANIZER
N5 Network Operator Summit,
Market Watch and Data Center Summit
Sub-Committee Chair

Karen I. Matthews, *Technology and Market Development Manager, Science and Technology, Corning Incorporated, USA*

Keynote
Tuesday, 10 March, 11:30 – 12:15

Jeffrey L. Cox, *Partner Director Network Architecture, Microsoft, USA*

Panel: Data Center 2020 — Less Hyperscale and More Co-location and Compute at the Edge?
Tuesday, 10 March, 12:15 – 13:45

MODERATOR
Robert Blum, *Director of Marketing and New Business, Intel, USA*

This panel discusses the latest trends in data centers from an infrastructure and networking hardware perspective. What vectors and opportunities exist to reduce power consumption, size and cost; what architectures are being considered inside data centers and how data centers are evolving.

Ed Baichtal, *Solutions Architect, Equinix, USA*

Dan Pitt, *Senior Vice President, MEF Forum, USA*

Saurabh Sandhir, *Vice President of Product Management, Nuage/ Nokia, USA*

Zuowei Shen, *Senior Staff Hardware Engineer, Google, USA*

Chongjin Xie, *Senior Director, Alibaba, USA*

Infrastructure Makeover and Networking

5G Architectures and Service Considerations
Tuesday, 10 March, 12:15 – 13:15

This discussion addresses distributed RAN versus centralized RAN versus cloud RAN versus full cloud BTS and the trade-offs versus benefits of each.

Accelerating ROI on the Road to SDN
Tuesday, 10 March, 16:00 – 17:00

This panel provides different viewpoints on the cost investment in SDN solutions versus return on investment and foster a discussion around how to best address the issue.

The Disaggregated Transport Network
Wednesday, 11 March, 11:30 – 13:00

ORGANIZER
Telecom Infra Project (TIP)

This panel session covers the latest engineering innovations coming from the Open Optical and Packet Transport Goup of the Telecom Infra Project. Short engineering talks may highlight specific technological areas such as: optical simulation environments, disaggregated optical systems, open technologies in telecom operator networks and software abstraction interfaces for optical components.

Cloud Network Evolution Bandwidth Drivers
Wednesday, 11 March, 13:15 – 14:45

ORGANIZER
IEEE Future Directions

This panel debates the bandwidth requirements that are expected to drive the evolution and innovations in cloud network architectures and related systems and technologies.

Open, Multi-vendor Networks — Design, Management and Operations
Wednesday, 11 March, 15:30 – 17:00

ORGANIZER
OpenConfig

In this session, panelists review and discuss some of the latest developments in software to help operators design and manage multi-vendor heterogeneous, disaggregated networks at scale.

Intra and Inter Data Center Connectivity

Ethernet Interoperability and Deployments — New and Legacy Solutions Work Together
Tuesday, 10 March, 10:15 – 11:15

ORGANIZER
Ethernet Alliance

This panel discusses the testing that results in successful end user deployments. It addresses the evolution of new PAM4 based solutions – 50GbE and above – entering the market and the advancements supporting Ethernet interoperability testing for the successful deployment and integration into legacy networking environments.

400ZR Specification Update
Tuesday, 10 March, 13:30 – 14:30

ORGANIZER
Optical Internetworking Forum (OIF)

A panel of industry experts representing the coherent eco-system discusses and debates the conflicting demands for a near-term, high-volume, interoperable, moderate reach, coherent 400G optical link. The status of the OIF's project to define a 400ZR link specification will also be provided.

Embedded Optics and How They Should be Implemented to Support the OEM Eco-system
Tuesday, 10 March, 15:00 – 17:00

What will be the implementation of optical interfaces to support the next generation of Ethernet switching chipsets? This panel debates embedded optics versus optical transceivers and will include COBO, Co-packaged Optics (CPO) Collaboration, Ayar Labs and optical transceiver vendors.

New High-bandwidth, Non-DSP Interface for Data Center and Campus Interconnects
Wednesday, 11 March, 15:00 – 16:00

ORGANIZER
Open Eye MSA Group

This panel discusses a new solution for low cost and high speed interconnects for data centers and campus networks that will make new optical modules cost effective and easy to deploy. It utilizes PAM4 modulation and a unique application of CDR and analog PLL to provide non-DSP-based signal receive and demodulation.

Design Consideration of Next Generation Ethernet Switches with Higher Speed Optics
Thursday, 12 March, 10:15 – 11:15

This panel discusses the current view of the market that is driving innovations in switching, ASIC and optical module design, the progress and future plan for higher capacity switching systems and the advancement and level of integration of optical module design.

System Evaluation of On-board Optics
Thursday, 12 March, 11:30 – 12:30

ORGANIZER
Consortium for On-Board Optics (COBO)

This panel reviews the learnings that have come from designed systems and building networks using onboard optics and why these learnings are critical for moving optics forward in the industry, especially as the industry looks toward developments such as terabit optical modules and co-packaged optics.

Other

AIM Photonics Member Successes and Updates
Tuesday, 10 March, 11:00 – 12:00

ORGANIZER
AIM Photonics

In this session, a number of key members and partners of AIM will present their research and commercial successes.

Standards Update on 5G Transport, Higher Speed PON, Latest OTN Technologies and Interoperable Optical Coherent Interfaces
Tuesday, 10 March, 14:45 – 15:45

ORGANIZER
ITU-T SG15

This session presents hot topics from the latest development of international standards (ITU-T Recommendations) within ITU-T SG15. It covers standardization work related to transport network support of IMT-2020/5G mobile, higher speed PON (Passive Optical Network), latest OTN (Optical Transport Network) and other transport technologies. This session also discusses interoperable optical interfaces at 200 Gbit/s and 400 Gbit/s per wavelength.

112 Gbps Electrical Interfaces — An OIF Update on CEI-112G

Wednesday, 11 March, 15:00 – 17:00

ORGANIZER

Optical Internetworking Forum (OIF)

A panel of OIF contributors discusses the ongoing CEI-112G electrical interface development projects, and the new architectures they will enable including chiplet packaging, co-packaged optics and internal cable based solutions. The panel provides an update on the multiple interfaces being defined by the OIF including CEI-112G MCM, XSR, VSR, MR and LR for 112 Gbps applications of die-to-die, chip-to-module, chip-to-chip and long reach over backplane and cables.

3D Sensing Uses in Consumer and Automotive Markets

Thursday, 12 March, 12:15 – 13:30

This panel discusses how new 3-D sensing applications are shaping the optics industry and whether there is an opportunity for technical differentiation or is it mostly about execution and investment capital and ultimately whether 3-D sensing provides cost benefits to the core optics business.

POF Symposium

Thursday, 12 March, 13:45 – 14:45

ORGANIZER

Plastic Optical Fiber Trade Organization (POFTO)

The POF Symposium covers recent developments in plastic optical fibers (POF) technology, applications, technical standards, industry progress and new markets. Leading technical experts and key industry players will discuss areas such as automotive, aerospace, consumer electronics and more.

Fiber Types and Amplifiers: Choices and Trade-offs

Thursday, 12 March, 15:00 – 16:00

This panel reviews the various types of optical fibers deployed today in the long haul network segments and how they perform with different amplifier technologies.

Commercially Sponsored Sessions

Preparing the Transport Network for 5G

Tuesday, 10 March, 13:50 – 14:50

ORGANIZER

Juniper Networks

This panel addresses key technologies for 5G networks including automation, orchestration, transport protocols, edge clouds, wireless-wireline convergence (WWC) and threat-aware infrastructure.

Revolutionizing the Economics of Pluggable Optics with Silicon Photonics

Wednesday, 11 March, 10:15 – 11:15

ORGANIZER

Juniper Networks

This session covers Juniper's unique approach to optics manufacturing and the associated benefits.

Unleashing the Full Potential of Silicon Photonics

Wednesday, 11 March, 13:30 – 14:30

ORGANIZER

Acacia Communications

Silicon photonics technology is increasingly finding its way into multiple network applications. This session discusses how the industry is transitioning from a technology validation phase to a focus on packaging and automation advancements, further leveraging electronics packaging techniques for optics.

Beyond 400ZR...What Comes Next?

Thursday, 12 March, 11:00 – 12:00

ORGANIZER

Acacia Communications

This session discusses the potential areas of expansion beyond 400ZR such as: data rates beyond 400G, channel spacing evolution, technology enablers and how these will collectively affect next generation architectures beyond the DCI edge.

Transforming Network Operations Through Automation

Thursday, 12 March, 12:45 – 13:45

ORGANIZER

Juniper Networks

This session explores automation and orchestration over the network lifecycle (Design->Implement->Operate) in Metro, Edge and Core Networks.

Short Courses

While you can attend the exhibition at no cost, you can supplement your experience by getting in-depth training from industry experts. Short Courses require a registration fee.

Find complete course descriptions, objectives and instructor biographies at **ofcconference.org/shortcourse**

Sunday, 8 March		
09:00 – 12:00	SC177	High-speed Semiconductor Lasers and Modulators
	SC208	Optical Fiber Design for Telecommunications and Specialty Applications
	SC444	Optical Communication Technologies for 5G Wireless
	SC470	Secure Optical Communications
	SC485	Advanced Fiber Access Networks **NEW**
09:00 – 13:00	SC105	Modulation Formats and Receiver Concepts for Optical Transmission Systems
	SC328	New Developments in High-speed Optical Networking
	SC384	Background Concepts of Optical Communication Systems
	SC395	Modeling and Simulation of Optical Transmitter and Receiver Components
	SC432	**Hands-on:** Silicon Photonics Component Design & Fabrication
	SC461	High-capacity Data Center Interconnects
	SC469	**Hands-on:** Laboratory Automation and Control Using Python (Beginner)
13:00 – 16:00	SC216	An Introduction to Optical Network Design and Planning
	SC217	Applications of Radio-over-fiber Technologies including Future 5G Networks
	SC433	Introduction to Photodetectors and Optical Receivers
	SC460	Digital Coherent Optical System Performance Basics
13:00 – 17:00	SC203	400 Gb/s and Beyond Transmission Systems, Design and Design Trade-offs
	SC267	Silicon Microphotonics: Technology Elements and the Roadmap to Implementation
	SC369	Test and Measurement for Signals with Complex Optical Modulation
	SC390	Introduction to Forward Error Correction
	SC463	Optical Transport SDN: Architectures, Applications and Actual Implementations
13:30 – 17:30	SC443	Optical Amplifiers: From Fundamental Principles to Technology Trends
	SC452	FPGA Programming for Optical Subsystem Prototyping
17:00 – 20:00	SC205	Integrated Electronic Circuits for Fiber Optics
	SC428	Link Design and Modeling for Intra Data Center Optical Interconnects
	SC484	Transport Evolution due to Cloud Services and Network Resiliency **NEW**

Monday, 9 March		
08:30 – 12:30	SC102	WDM in Long-haul Transmission Systems
	SC160	Microwave Photonics
	SC178	Test and Measurement for Data Center/Short Reach Communications
	SC341	Multi-carrier Modulation and Superchannels for Terabit-class Transceivers
	SC446	**Hands-on:** Characterization of Coherent Opto-electronic Subsystems
	SC448	Software Defined Networking for Optical Networks: a Practical Introduction
	SC453A	**Hands-on:** Fiber Optic Handling, Measurements and Component Testing
	SC468	Advanced FEC Techniques for Optical Communications
	SC473	Photonic Switching Systems
	SC483	**Hands-on:** Machine Learning in Optical Networks **NEW**
	SC487	Laboratory Automation and Control Using Python (Advanced) **NEW**
09:00 – 12:00	SC114	Passive Optical Networks (PONs) Technologies
	SC261	ROADM Technologies and Network Applications
	SC359	Datacenter Networking 101
	SC408	Space Division Multiplexing in Optical Fibers
	SC450	Design, Manufacturing and Packaging of Opto-electronic Modules
	SC465	Transmission Fiber and Cables
	SC486	Optoelectronic Devices for LIDAR and High-BW or 3D Sensing **NEW**
13:30 – 16:30	SC429	Advances in Flexible Photonic Networks and Open Architectures
	SC431	Photonic Technologies in the Data Center
	SC447	The Life Cycle of an Optical Network: From Planning to Decommissioning
	SC459	Multimode Photonic Devices, Components and Characterization
	SC462	Introduction to Pluggable Optics
	SC464	SDN Inside and In Between Data Centers
13:30 – 17:30	SC325	Highly Integrated Monolithic Photonic Integrated Circuits
	SC327	Modeling and Design of Long-haul Fiber-optic Communication Systems
	SC347	Reliability and Qualification of Fiber-optic Components
	SC357	Circuits and Equalization Methods for Coherent and Direct Detection Optical Links
	SC393	Digital Signal Processing for Coherent Optical Transceivers
	SC451	Optical Fiber Sensors
	SC453B	**Hands-on:** Fiber Optic Handling, Measurements and Component Testing
	SC454	**Hands-on:** Introduction to Silicon Photonics Circuit Design
	SC472	**Hands-on:** Controlling and Monitoring Optical Network Equipment

Registration

Categories	On or Before 10 Feb. (US$)			After 10 Feb. (US$)		
Exhibits Pass Plus**	$0			$0		
Full Conference						
Member*	$679			$806		
Student Member*	$199			$281		
Non-member	$851			$990		
Student Non-member	$239			$363		
Short Courses	*Half Day*	*Hands-on*	*SC432 Hands-on*	*Half Day*	*Hands-on*	*SC432 Hands-on*
Member*	$275	$335	$435	$335	$385	$485
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Plenary Session	●	●	●
Special Keynote: Celebrating 50 Years of Light-speed Connections	●	●	
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Exhibition & Show Floor Programming	●	●	●
Market Watch	●	●	●
Network Operator Summit	●	●	●
Data Center Summit	●	●	●
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Conference Reception	●	*Ticket Required*	
Conference Program Book	●		
Technical Digest on USB	●		
Postdeadline Papers Book	●		
Exhibits 2020 *Buyers' Guide*	●	●	●
Short Course Notes (for Short Course attendees only)			●

* Member of IEEE Communications Society, IEEE Photonics Society or The Optical Society
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Hotel

Experient, the official hotel reservation vendor, brings you unbeatable rates at a variety of hotels within walking distance to the San Diego Convention Center. And, when you reserve a room through Experient, you also help OFC keep meeting costs as low as possible. Deadline to save is 14 February 2020. To check hotel availability, learn about new hotels recently added or to reserve your accommodations, visit **ofcconference.org/hotel**

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	Convention Center Distance	Rates from (per night, US $)*
Courtyard San Diego Downtown	.7 mile	$243
Embassy Suites San Diego Bay Downtown	.8 mile	$259
Hard Rock Hotel San Diego	.2 mile	$280
Hilton San Diego Bayfront	.2 mile	$291
Hilton San Diego Gaslamp Quarter	.3 mile	$281
Horton Grand Hotel	.4 mile	$199
Hotel Indigo	.8 mile	$238
Hotel Palomar San Diego	1.0 mile	$241
Hotel Salomar	.5 mile	$251
Hotel Z	.6 mile	$246
Hyatt Andaz Hotel	.7 mile	$279
Manchester Grand Hyatt San Diego	.3 mile	$292
Marriott Marquis San Diego Marina	.2 mile	$292
Omni San Diego Hotel	.5 mile	$279
Pendry San Diego	.3 mile	$269
San Diego Marriott Gaslamp Quarter	.5 mile	$276
Sheraton Harbor Island	3.2 miles	$246
The Bristol Hotel	1.0 mile	$218
The Sofia Hotel	.9 mile	$238
The US Grant – A Luxury Collection Hotel	.9 mile	$276
The Westgate Hotel	1.0 mile	$251
The Westin San Diego Gaslamp Quarter	.7 mile	$265
Wyndham San Diego Bayside	1.2 miles	$192

* Hotel rates are listed in U.S. dollars (unless noted otherwise) and do not include taxes or any hotel fees.
Rates shown are for single rooms. Double rooms may have an increased rate.

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