

# OFC

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and communications

Elevate your experience  
with a Short Course.



Technical Conference: 15 - 19 March 2026  
Exhibition: 17 - 19 March 2026  
Short Courses: 15 - 16 March 2026  
Los Angeles, California, USA

[OFCConference.org](https://OFCConference.org)

**IEEE  
ComSoc**  
IEEE Communications Society

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Photonics  
Society**

**OPTICA**



## Explore new technology and the next step of your career with OFC Short Courses.

Supplementing your registration with a Short Course is an ideal way for you and your colleagues to delve into the latest products, state-of-the-art technology and crucial insights driving optical communications.

Immerse yourself in one or more of the 50 Short Courses being offered in dynamic half-day lectures or hands-on formats. Renowned industry experts will guide you through diverse subject areas, offering all skill levels - from beginner to advanced - the chance to learn from some of the brightest minds in our field. Benefit from an intimate learning environment with smaller classes, ensuring a more personalized and enriching educational experience.

**Discover the perfect course that's right for you.**

## Short Course Registration

When you register for an OFC Short Course, you will have access to your selected Short Courses and accompanying Short Course notes. Short Course registrants also have access to the Plenary Session, all Workshops, the Exhibition and its expansive Show Floor Programming. The first five students to register for a select course will receive up to a 90% discount.

	Before or On 13 February	After 13 February
Half-Day Lecture – Member	USD 305	USD 375
Half-Day Hands-on – Member	USD 375	USD 430
Half-Day Lecture – Non-Member	USD 390	USD 455
Half-Day Hands-on – Non-Member	USD 455	USD 535

\*Short Courses are available on-site and in-person only

# Schedule

Sunday, 15 March 2026

**08:30 - 12:30**

**SC105** Modulation Formats and Receiver Concepts for Optical Transmission Systems

**Instructors**

Peter Winzer, *Nubis Communications, USA*

Vivian Chen, *Nokia Bell Labs, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

S4

**SC203** 400, 800Gb/s and Beyond Optical Communications Systems: Design and Design Trade-offs

**Instructors**

Ezra Ip, *NEC Labs, USA*

Chongjin Xie, *PhotonicX AI, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

S1, S5

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

**Instructors**

Harald Rohde, *Nokia, Germany*

Howard Wang, *Nokia, USA*

**Course Level**

Advanced Beginner to Intermediate

**Topic Categories**

S4

**SC432 Hands-on:** Silicon Photonics Components

**Instructor**

Lukas Chrostowski, *University of British Columbia, Canada*

**Course Level**

Intermediate

**Topic Categories**

D2, D3



**SC452** FPGA Prototyping for Optical Subsystems

**Instructors**

Robert Elschner, *Fraunhofer HHI, Germany*

Noriaki Kaneda, *Nokia, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

S4

**SC461** Data Center Interconnects for Hyper-scale Cloud & AI Networking

**Instructors**

Dirk van den Borne, *Hewlett Packard Enterprise, Germany*

Mark Filer, *Oracle, USA*

**Course Level**

Beginner

**Topic Categories**

N1, S1

**SC469 Hands-on:** Laboratory Automation and Control using Python

**Instructors**

Binbin Guan, *OpenAI, USA*

Jochen Schröder, *Chalmers University of Technology, Sweden*

John Dorigi, *Keysight Technologies, Inc., USA*

Roland Ryf, *Nokia Bell Labs, USA*

**Course Level**

Beginner

**Topic Categories**

S4, S5

Review the topic categories and course descriptions for a deeper understanding of what each course offers.

[OFCConference.org/ShortCourses](https://OFCConference.org/ShortCourses)

## Short Course Topic Categories

### Devices, Components and Fibers

**D1** Advanced Prototyping, Packaging and Integration

**D2** Photonic Integrated Circuits, Micro-optics, Nanophotonics and Switching Devices

**D3** Active Optoelectronic Components

**D4** Fibers, Connectivity, Characterization and Propagation Physics

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

### Subsystems and Systems

**S1** Datacom Subsystems and Systems

**S2** Subsystems for Transmission

**S3** Transmission Systems

**S4** Fiber-Sensing and Microwave Photonics

**S5** Wireless Optical and THz Communications

### Networks and Services

**N1** Advances in the Development of Networks, Systems and Services

**N2** Optics and Photonics for Data Center and Computing Applications

**N3** Architectures, Control and Management of Optical Networks

**N4** Optical Access Networks for Fixed and Mobile Services

**N5** Market Watch, Network Operator Summit and Data Center Summit

# Schedule

**Sunday, 15 March 2026**

## **08:30 - 12:30 (cont'd)**

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

**Instructors**

Greg D. Le Cheminant, *Keysight Technologies, USA*

Petar Pepeljugoski, *Lightmatter, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

S1, S5

**SC546** Applications of Coherent Distributed Fiber Sensing in Optical Communication Networks

**Instructor**

Mikael Mazur, *Nokia Bell Labs, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

N1, S4, N5

## **09:00 - 12:00**

**SC114** Technologies and Applications for Passive Optical Networks (PONs)

**Instructor**

Yuanqiu Luo, *Futurewei, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

N4, S4

**SC261** ROADM Technologies and Network Applications

**Instructor**

Thomas Strasser, *Moxley, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

D1, D2, N3

**SC408** Space Division Multiplexing for Optical Communication Systems and Networks

**Instructor**

Roland Ryf, *Nokia Bell Labs, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

S4, S5

**SC459** Multimode Photonic Devices, Characterization and Applications

**Instructor**

Nicolas Fontaine, *Nokia Bell Labs, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

D5

## **13:00 - 16:00**

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

**Instructors**

Lynn Nelson, *AT&T, USA*

**Course Level**

Advanced Beginner to Intermediate

**Topic Categories**

N1

**SC512** Modern Subsea Cable Systems

**Instructor**

Mei Du, *Tata Communications, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

S3



# Schedule

Sunday, 15 March 2026

## 13:00 - 17:00

**SC443** Optical Amplifiers: From Fundamental Principles to Technology Trends

### Instructors

Peter Andrekson, *Chalmers University of Technology, Sweden*  
Michael Vasilyev, *University of Texas, Arlington, USA*

### Course Level

Beginner

### Topic Categories

S2

**SC543** Deep Reinforcement Learning for Optical Networking

**NEW**

### Instructors

Carlos Natalino, *Chalmers University of Technology, Sweden*  
Sebastian Troia, *Polytechnic of Milan, Italy*

### Course Level

Beginner

### Topic Categories

N1, N3, N5

## 13:30 - 17:30

**SC160** Microwave Photonics

### Instructor

Jose Capmany, *Polytechnic University of Valencia, Spain*

### Course Level

Advanced Beginner

### Topic Categories

S2

**SC216** An Introduction to Optical Network Design and Planning

### Instructor

George Rouskas, *North Carolina State University, USA*

### Course Level

Beginner

### Topic Categories

N1, N3

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

### Instructor

Lionel Kimerling, *MIT, USA*

### Course Level

Beginner

### Topic Categories

D2, D3

**SC327** Modeling and Design of Long-Haul Fiber-Optic Communication Systems

### Instructor

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

### Course Level

Advanced Beginner

### Topic Categories

S5

**SC384** Background Concepts of Optical Communication Systems

### Instructor

Alan Willner, *University of Southern California, USA*

### Course Level

Beginner

### Topic Categories

S4, S5

**SC514** FEC Techniques for Optical Communications

### Instructor

Georg Böcherer, *Huawei Technologies, Technical University of Munich, Germany*

### Course Level

Beginner, Intermediate

### Topic Categories

S2



## Short Course Topic Categories

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# Schedule

Monday, 16 March 2026

**08:30 - 12:30**

**SC325** Highly Integrated Monolithic Photonic Integrated Circuits

**Instructor**

Chris Doerr, *Doerr Consulting, LLC, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

D2, D3

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

**Instructors**

Fabio Pittala, *Keysight, Germany*  
Michael Koenigsmann, *Keysight, Germany*

**Course Level**

Advanced Beginner

**Topic Categories**

S4

**SC393** Digital Signal Processing for Coherent Optical Transceivers

**Instructor**

Chris Fludger, *Attotude, Germany*

**Course Level**

Intermediate

**Topic Categories**

S4

**SC444** Emerging Optical Communication Technologies Towards 2030

**Instructor**

Dr. Xiang Liu, *Huawei Technologies, China*

**Course Level**

Intermediate

**Topic Categories**

N4



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

**Instructors**

J rome Allaire, *Data-Pixel, France*  
Tobie Blum, *Santec Canada Corporation, Canada*  
Alex Chew, *Seiko Giken, USA*  
Julien Maille, *Data-Pixel, France*

**Course Level**

Beginner

**Topic Categories**

D4, D5

**SC454 Hands-on:** Silicon Photonics Design - Circuits

**Instructor**

Wim Bogaerts, *University of Ghent, Belgium*

**Course Level**

Advanced Beginner

**Topic Categories**

D3

**SC463** AI-Driven Optical Transport Networks: Architectures, Applications and Intelligent Automation

**Instructors**

Achim Autenrieth, *ADVA Optical Networking SE, Germany*  
J rg-Peter Elbers, *ADVA Optical Networking SE, Germany*

**Course Level**

Intermediate

**Topic Categories**

N1, N3

**SC473** Photonic Switching Systems

**Instructors**

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

**Course Level**

Advanced Beginner

**Topic Categories**

S5

# Schedule

Monday, 16 March 2026

## 08:30 - 12:30 (cont'd)

**SC483** Machine Learning in Optical Networks

### Instructors

Mëmëdhe Ibrahim, *Politecnico di Milano, Italy*  
Massimo Tornatore, *Politecnico di Milano, Italy*

### Course Level

Beginner

### Topic Categories

N3, N4, S4

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

### Instructors

Jochen Schröder, *Chalmers University of Technology, Sweden*  
Nicolas Fontaine, *Nokia Bell Labs, USA*  
John Dorighi, *Keysight Technologies Inc, USA*  
Binbin Guan, *OpenAI, USA*

### Course Level

Advanced

### Topic Categories

S4, S5

**SC527** Satellite Communications

### Instructor

Vincent Chan, *MIT, USA*

### Course Level

Advanced Beginner

### Topic Categories

N1, N3, S5



## 09:00 - 12:00

**SC177** High-Speed Semiconductor Lasers and Modulators

### Instructor

John Bowers, *University of California, Santa Barbara, USA*

### Course Level

Intermediate

### Topic Categories

D3

**SC347** Reliability and Qualification of Fiber-Optic Components

### Instructor

Robert Herrick, *Robert Herrick Consulting, USA*

### Course Level

Beginner

### Topic Categories

D1, D4

**SC359** Networking for Data Centers and Machine Learning

### Instructors

Hong Liu, *Google, USA*  
Ryohei Urata, *Google, USA*

### Course Level

Beginner

### Topic Categories

D1, N2

**SC465** Optical Fiber and Cable - Enabling Existing and Future Networks

### Instructors

Nilson Gabela, *Corning Optical Communications, USA*  
John Hedgpeth, *Corning Optical Communications, USA*

### Course Level

Advanced Beginner

### Topic Categories

D4

## 13:30 - 16:30

**SC485** Advanced Fiber Access Networks

### Instructors

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

### Course Level

Intermediate

### Topic Categories

N4

**SC526** Optical Wireless Technologies, Systems and Applications

### Instructor

Harald Haas, *University of Strathclyde, UK*

### Course Level

Advanced Beginner

### Topic Categories

N4, S5

### Short Course Topic Categories

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Monday, 16 March 2026

**13:30 - 17:30**

**SC217** Applications of Radio-Over-Fiber Technologies Including Future G Networks

**Instructor**

Dalma Novak, *Octane Wireless, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

S3

**SC328** Standards for High-Speed Optical Networking

**Instructor**

Tom Huber, *Nokia, USA*

**Course Level**

Intermediate

**Topic Categories**

N1, N3, S1, S4

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

**Instructors**

Alexander Rylyakov, *Nokia, USA*

Sudip Shekhar, *University of British Columbia, Canada*

**Course Level**

Advanced Beginner

**Topic Categories**

D1, D3, S1, S4

**SC431** Photonic Technologies in Data Centers and AI Machines

**Instructor**

Clint Schow, *University of California at Santa Barbara, USA*

**Course Level**

Advanced Beginner

**Topic Categories**

D1, D3



**SC433** Introduction to Photodetectors and Optical Receivers

**Instructor**

Andreas Beling, *University of Virginia, USA*

**Course Level**

Beginner

**Topic Categories**

D3

**SC451** Distributed Fiber Optic Sensing for Communication Networks and Infrastructure Applications

**Instructors**

Alexis Mendez, *MCH Engineering, LLC, USA*

Andres Chevarria, *VIAVI Solutions, USA*

**Course Level**

Advanced Beginner, Intermediate

**Topic Categories**

D5

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

**Instructors**

J  rome Allaire, *Data-Pixel, France*

Tobie Blum, *Santec Canada Corporation, Canada*

Alex Chew, *Seikoh Giken, USA*

Julien Maille, *Data-Pixel, France*

**Course Level**

Beginner

**Topic Categories**

D4, D5

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

**Instructor**

Peter O'Brien, *Tyndall National Institute, Ireland*

**Course Level**

Advanced Beginner

**Topic Categories**

D1

**SC528 Hands-on:** Practical Optical Transmission and Fiber Network Testing for Real-World Scenarios **NEW**

**Instructors**

Gwenn Amice, *EXFO, USA*

Christine Tremblay, *  cole de Technologie Sup  rieure, Canada*

**Course Level**

Advanced Beginner

**Topic Categories**

N1, N5

**SC542** Generative AI Essentials for Telecommunications: from Fundamentals to Implementation

**Instructors**

Subhash Talluri, *Amazon Web Services, USA*

Qiong (Jo) Zhang, *Amazon Web Services, USA*

**Course Level**

Intermediate

**Topic Categories**

N1, N3, N5