OFC

The future of optical networking 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

IEEE ComSoc IEEE Communications Society | IEEE 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 51 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 High-capacity Data Center Interconnects for Cloud-scale Networking

Instructors
Dirk van den Borne, *Juniper Networks, Germany*
Mark Filer, *Stealth Startup, 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 Dorighi, *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

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, *Molex, 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

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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
Jérome Allaigre, *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*
Jörg-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 Ibrahimi, *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

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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
Jérome Allaigre, *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: OFCnet Course - Practical Optical Transmission and Fiber Network Testing for Real-World Scenarios NEW

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