I attended my first IEEE laser conference in 1969 and have been a loyal volunteer ever since. Even though my career has transitioned from student to engineer, entrepreneur, businessman and investor, the [now] IEEE Photonics Society has always been able to serve my interests and meet my needs.

— Milton Chang
Managing director, Incubic
Former IEEE Photonics Society President
Lifetime member

The IEEE Photonics Society (IPS) is the professional home for a global network of scientists and engineers who represent the laser, optoelectronics and photonics community. Our vibrant technical community of more than 100,000 professionals is dedicated to transforming breakthroughs in quantum physics into the devices, systems and products we use in our daily lives. From ubiquitous and inexpensive global communications via fiber optics, to lasers for medical and other applications, to flat-screen displays, to photovoltaic devices for solar energy, to LEDs for energy-efficient illumination, there are myriad examples of the Society’s impact on the world around us.

IPS also provides its members with professional growth opportunities, publishes journals, and supports local chapter and student activities around the world. We organize technical conferences that allow our members to network and disseminate their breakthroughs in science. We engage in photonics research, development, design and manufacturing, and are a vital part of the IEEE, the world’s largest technical professional association dedicated to advancing technology for the benefit of humanity.

Christopher Jannuzzi,
Executive Director,
IEEE Photonics Society

Learn more about the IEEE Photonics Society at photonicssociety.org
Benefits of Membership

Join the IEEE Photonics Society

Stay on the cutting edge of photonics
- Discounted conference registration at leading international Photonics technical conferences
- Free online access to Photonics Society Journals—PTL, JOE, JSTQE, JLT, and the Journal of Photovoltaics
- Free print subscription to the Photonics Society’s bi-monthly newsletter
- Free print subscriptions to IEEE Spectrum magazine and The Institute newsletter
- Free online access to all Photonics Society-sponsored conference proceedings

Network with other photonics professionals
- Access the Photonics Society’s online membership directory
- Engage with more than 100,000 photonics professionals and 400,000 IEEE members in 160 countries
- Join one of more than 75 local chapters worldwide

Enhance your education/professional development
- Receive special student rates for membership, conferences and journals
- Become eligible for the Photonics Graduate Student Fellowship
- Participate in IEEE’s GOLD program (Graduates Of the Last Decade)

Advance your professional success with the prestige of IEEE membership
- Become eligible for prestigious industry awards/recognition programs
- Explore opportunities for participation on program committees and editorial boards
- Receive superior financial benefits and services with IEEE membership, including credit cards, insurance, travel and financial planning

Access online application forms and current membership dues information on our website: photonicssociety.org/content/member-benefits
The IEEE Photonics Conference (IPC)
Formerly the Photonics Society/LEOS Annual Meeting
ipc-ieee.org

The IEEE Photonics Conference, previously known as the IEEE LEOS Annual Meeting, offers technical presentations by the world’s leading scientists and engineers in the areas of lasers, optoelectronics, optical fiber networks and associated lightwave technologies and applications. It also features compelling plenary talks on the industry’s most important issues, weekend events aimed at students and young photonics professionals and a manufacturer’s exhibition.

More than 600 people from industry, academia and government gather for the IEEE Photonics Conference to share their latest results on technologies and applications where quantum electronic devices involving light are key elements, including: Biophotonics, High Power/Intensity Sources, Displays and Lighting, Microwave Photonics, Nanophotonics, Non-Linear and Ultrafast Optics, Optical Communications, Optical Fiber Technology, Optical Interconnects, Optical Networks and Systems, Photodetectors, Sensors, Systems and Imaging, Photonic Integration and Packaging, Photonic Materials Science and Technology and Semiconductor Lasers.

Avionics, Fiber-Optics & Photonics Conference (AVFOP)
avfop-ieee.org

Sponsored by IEEE Photonics Society
The aerospace industry has made great strides in recent years deploying fiber optics and photonics technology on commercial and military platforms. This trend will continue to grow as avionics fiber optic system architectures, networking schemes and components evolve. This application-oriented conference provides an international forum for researchers, engineers, technicians, logisticians, manufacturers and instructors to discuss all aspects of severe environment fiber optic component, systems, reliability, maintainability, producibility and supportability technology and its future direction.

Group IV Photonics Conference (GFP)
gfp-ieee.org

Sponsored by IEEE Photonics Society
The IEEE International Conference on Group IV Photonics (GFP) is a leading international conference focused on silicon photonics and other Group IV element-based photonic materials and devices. The technology of Group IV Photonics can be applied to many applications, ranging from computing and communications to life science, environment and green energy. New materials are being developed, new device concepts are proposed, the effort on photonic integration is intensifying and there is an increasing activity in RF photonics and mid-IR applications.
and networking opportunities.

The Optical Fiber Communications Conference and Exposition (OFC) and the National Fiber Optic Engineers Conference (NFOEC) is the largest global conference and exposition for optical communications and networking professionals. For more than 37 years, OFC/NFOEC has attracted the biggest names in the field to network, teach and learn, make connections and move business forward. From technical presentations to the latest market trends and predictions, OFC/NFOEC offers key networking and partnering opportunities and provides insights and inspiration on the major trends affecting the industry, including the latest on FTTx, networks, test and measurement, optical grids, optical packets, ROADMs, coherent systems, WDM-PON and more.

Co-sponsored by IEEE Photonics Society, IEEE Communications Society and the Optical Society of America

The Optical Fiber Communications Conference and Exposition (OFC) and the National Fiber Optic Engineers Conference (NFOEC) is the largest global conference and exposition for optical communications and networking professionals. For more than 37 years, OFC/NFOEC has attracted the biggest names in the field to network, teach and learn, make connections and move business forward. From technical presentations to the latest market trends and predictions, OFC/NFOEC offers key networking and partnering opportunities and provides insights and inspiration on the major trends affecting the industry, including the latest on FTTx, networks, test and measurement, optical grids, optical packets, ROADMs, coherent systems, WDM-PON and more.

Conference on Lasers and Electro-Optics (CLEO)
cleoconference.org

Co-sponsored by IEEE Photonics Society, American Physical Society's Laser Science Division and the Optical Society of America

Revered for its high quality, peer reviewed research, CLEO bridges fundamental science through technology development and applications. CLEO features a complete technical program under three core conferences; CLEO: QELS- Fundamental Science, CLEO: Science & Innovations and CLEO: Applications & Technology. CLEO: Expo & Market Focus bring CLEO full circle by highlighting the latest innovations and products as well as providing a forum to discuss marketplace trends and challenges.

I joined the IEEE Photonics Society as a graduate student because it was THE professional organization for photonics technologists. In my subsequent career, first as a professor and now in industry, it continues to be the best resource for first-rate journals, conferences and networking opportunities.

Dalma Novak
Vice President & Co-founder of Pharad
IPS President & Fellow

Additional Conferences

Summer Topicals Meeting Series (SUM)
The Topical Meeting Series of the Photonics Society is the premier conference for emerging fields in photonic science, device technologies, and applications. The Photonic Society membership suggests and organizes these meetings to create the opportunity to learn about exciting new topics and to interact with research and technology leaders in an intimate environment.
sum-ieee.org

Optical Interconnects Conference (OI)
The IEEE Photonics Society Optical Interconnects Conference builds on 92 years of the Society’s successful Workshop on Interconnections within High Speed Digital Systems. OI brings together researchers and engineers from multiple disciplines to discuss advanced interconnect technologies for applications at all levels of computing granularity from the chip to the enterprise. In addition, attendees have the option to participate in working groups to discuss and design a conceptual solution to a predefined design problem. This problem is intended to promote interactions between the participants and provide an overall focus to the meeting. The annual OI conference covers the full spectrum of high performance interconnect challenges in architectures, applications and devices, with a particular emphasis on petascale and exascale platforms in datacenters and supercomputers. With invited talks of the highest caliber as well as peer-reviewed oral and poster contributions, OI fosters collaboration and helps drive new interconnect technologies.
ioi-ieee.org

Optical MEMS & Nanophotonics (OMN)
Optical MEMS & Nanophotonics technologies are advancing rapidly through vigorous R&D programs in academic, government and industrial laboratories around the world. Optical MEMS and nanophotonics devices promise unprecedented capabilities for imaging, display, optical communications, sensing, with fundamental science advances and novel applications for these emerging technologies.
mems-ieee.org

CLEO-Europe and CLEO-Pacific Rim
As successful spin-offs from the US-based CLEO conference, the biennial CLEO-Europe and CLEO-Pacific Rim, which both run in odd number years, remain in their respective geographical regions and carry on strong traditions as prestigious gatherings of optics and photonics researchers and engineers in Europe and Asia respectively. Co-sponsorship of these conferences by the IEEE Photonics Society and the Optical Society of America (OSA) reflects a strong commitment by these societies to the international photonics community. CLEO-Europe is sponsored by the European Physical Society (EPS) and CLEO-PR by various Asian associations depending on the specific hosting region.
cleoeurope.org

ternational Semiconductor Laser Conference (ISLC)
The IEEE International Semiconductor Laser Conference (ISLC) has a long tradition as the leading international conference for researchers and engineers worldwide to share and discuss the latest developments in semiconductor lasers, amplifiers and LEDs. The conference includes both oral and poster sessions of contributed and invited papers, as well as a plenary session comprising reviews on several timely topics. A rump session features special topics for discussion in a more relaxed and open atmosphere. In addition, attendees participate in workshops on current hot topics.
islc-ieee.org

For a complete listing of our conferences, visit:
photonicconferences.org/conferences
The IEEE Photonics Society’s specialized technical journals cover the full spectrum of photonics topics and are designed to provide timely publication of the highest quality original research. Stay current in your technical specialty by reviewing the latest journal issues online, submitting your own research paper for peer review or applying to be a reviewer. IEEE Photonics Society members receive online access to Society journals.

IEEE Photonics Journal
The Society’s online-only open-access journal provides rapid publication of top quality peer-reviewed papers at the forefront of photonics research. The Photonics Journal employs a streamlined copy editing process that publishes accepted papers online in IEEE Xplore in an average of six weeks from submission. The Photonics Journal delivers original short—as well as full-length—research papers, ranging from the integration of quantum electronics with optical technology to novel photon sources and their application in micro- and nanoscale devices across the electromagnetic spectrum.

photonicssociety.org/content/journals

IEEE Photonics Technology Letters
Published biweekly to provide rapid publication of significant original research contributions in photonics, lightwave components, laser physics and laser/electro-optic technology, IEEE Photonics Technology Letters cover advances in the theory, design, fabrication, application, performance, packaging and reliability of lasers, optical devices, fiber-optics and waveguide technologies and quantum electronic devices.

photonicssociety.org/content/photonics-technology-letters

IEEE Journal of Quantum Electronics
Dedicated to the publication of research reporting novel, theoretical or experimental results in the field of quantum electronics, the Journal of Quantum Electronics is published monthly to address new developments or phenomena that impact continuing research or advance the technological base of quantum electronics.

photonicssociety.org/content/journal-quantum-electronics

IEEE Journal of Selected Topics in Quantum Electronics
Published six times a year to address original theoretical and/or experimental research results that advance the scientific and technological base of quantum electronics, each issue of the Journal of Selected Topics in Quantum Electronics is devoted to a specific topic within the quantum electronics field. Tutorial and review papers are by invitation only.

photonicssociety.org/content/selected-topics-quantum-electronics

Richard Linke,
Former IPS Executive Director,
Volunteer & Fellow

I’ve been a member of IPS, originally LEOS, for more than 30 years. Over that time I’ve changed jobs, fields of interest, and even career paths, but the society has been my one constant ‘home’ all through that time and remains so even into my retirement. This is where I made and still make connections with people who matter to me.

— Richard Linke,
Former IPS Executive Director,
Volunteer & Fellow
The IEEE Photonics Society's origins trace back to the mid-1960s with the publication of the first “Special Issue on Quantum Electronics” and the formation of Quantum Electronics Council, combining the interests of the Electron Devices and the Microwave Theory & Techniques Groups. The QEC held its first technical meeting—the Conference on Laser Engineering & Applications (CLEA)—in June 1967. Later, this meeting would become the present-day Conference on Lasers & Electro-Optics (CLEO) and the QEC evolved to become the Quantum Electronics & Applications Society (QEAS) in 1977. With the rapid growth in laser and optoelectronic technology as a focus, in 1985 the Society changed its name to the IEEE Lasers & Electro-Optics Society (LEOS); and in the years following, expanded its technical journals, conference sponsorships and international membership with the establishment of chapters in Europe and the Pacific Rim. In 2009, the new name “IEEE Photonics Society” was adopted, and the Society continues to be in the forefront of quantum electronics technology.

View the complete IEEE Photonics Society history at photonicssociety.org/content/our-history