



» 首页» 学术动态

## 美国光学学会2006年度主办/协办会议简介

### 1. Integrated Photonics Research and Applications

The Mohegan Sun Hotel

Uncasville, Connecticut, USA

Monday, April 24-Wednesday, April 26, 2006

Important Dates

Deadlines:

Submission Deadline: April 5, 2006, 12:00 p.m. noon EDT (16.00 GMT)

Pre-Registration Deadline: April 3, 2006

Housing Deadline: March 22, 2006

Contact Us

For questions concerning IPRA/NANO please contact:

Optical Society of America

2010 Massachusetts Ave., NW

Washington, DC 20036-1023

Tel: +1.202.416.1907 or 1.800.766.4672

Fax: +1.202.416.6140

Email: [cust.serv@osa.org](mailto:cust.serv@osa.org)

[http://www.osa.org/meetings/topicals/ipr\\_np/](http://www.osa.org/meetings/topicals/ipr_np/)

The Integrated Photonics Research and Applications Topical Meeting will cover all aspects of research in integrated photonics featuring innovative science and engineering results on active and compound semiconductor devices, dielectric waveguides and waveguide devices, modeling and numerical simulation, and microphotonics. Application areas within the scope of this meeting include telecommunications, data communications, optical computing, optical storage, displays and sensing.

Topics to be covered:

Silicon or Other Group IV Waveguide Photonics: including SOI-based materials: Active, Light Emitters or Lasers Isolation, Amplifiers, Passives, Complex Circuits.

Active and Compound Semiconductor Devices : Active III-V semiconductor devices, compound semiconductor modulators, filters, switches, wavelength converters, VCSELs, planar amplifiers, photonic integrated circuits and optoelectronic integrated circuits, compound semiconductor WDM components, novel III-V quantum optoelectronic devices, III-V materials and processing for photonics, reliability advances and issues, emerging packaging technologies.

Dielectric and Polymer Waveguides and Waveguide Devices : Integrated planar waveguides, polymer-based waveguide devices, active/passive integrated components, switches, variable optical attenuators, modulators, filters, integrated isolators and circulators, planar dispersion compensators, materials and fabrication technologies for photonic integrated circuits, characterization of linear and nonlinear optical waveguide devices, micro-machines

and micro-optic components, parallel optical interconnects, reliability advances and issues, novel assembly and manufacturing techniques, low-cost technology for polymer devices.

LiNbO<sub>3</sub> - and other Metal-Oxide-Based Switches and Modulators : Ultrahigh-speed, low-V<sub>p</sub>, devices, integrated scanners, new fabrication methods.

Modeling, Numerical Simulation and Theory : Optical-system modeling, numerical and semi-analytical methods for guided-wave optics, active, passive and nonlinear component modeling, WDM component design, advances in computational algorithms, physics and coupled models for integrated photonic circuits.

Microphotonics : Simulation, modeling and experimental characterization of microcavity and other high confinement structures, waveguides, resonators, filters, add-drop integrated optical circuits, metallic and metallodielectric waveguides.

## 2. Nanophotonics Topical Meeting (NANO)

The Mohegan Sun Hotel

Uncasville, Connecticut, USA

Wednesday, April 26 - Friday, April 28, 2006

Important Dates

Deadlines:

Submission Deadline: April 5, 2006, 12:00 p.m. noon EDT (16.00 GMT)

Pre-Registration Deadline: April 3, 2006

Housing Deadline: March 22, 2006

Contact Us

For questions concerning IPRA/NANO please contact:

Optical Society of America

2010 Massachusetts Ave., NW

Washington, DC 20036-1023

Tel: +1.202.416.1907 or 1.800.766.4672

Fax: +1.202.416.6140

Email: [cust.serv@osa.org](mailto:cust.serv@osa.org)

[http://www.osa.org/meetings/topicals/ipr\\_np/](http://www.osa.org/meetings/topicals/ipr_np/)

The Nanophotonics Topical Meeting will cover the generation, detection, and transport of optical fields and their interactions with matter on the "nanoscale". The spatial confinement and control of light at this level leads to new and interesting phenomena in physics, chemistry and biology, that in turn may find numerous applications in information technology, telecommunications, environmental monitoring, biomedical science and instrumentation, and quantum information processing and communication. Topics covered in this year's meeting include both the science and engineering of materials, devices, and subsystems, on a scale ranging from individual atoms, molecules or their clusters, to that of subwavelength effective media and photonic crystals.

Nano Meeting Topics:

Inhomogeneous materials (e.g., composite dielectrics, semiconductors, metals and metallodielectrics)

Anisotropic

Dispersive

Efficient light extraction

Nonlinear optical materials

Dynamically configurable

Nano-engineered devices for generation, transport, and detection of light

Resonators

Light sources

Quantum information

Modulators

NANO-MEMS

Biophotonics, Biological and chemical transducers and sensors

Efficient mode matching

Nanofabrication technology

Lithography techniques  
Growth and deposition approaches  
Self-organized methods  
Etching

Characterization tools on the nanoscale  
Modeling and simulation tools  
Photonic crystals, waveguides, and fibers  
Nanoscale integration of planar, free-space, and mixed subsystems

### 3. Conference on Lasers and Electro-optics/Quantum Electronics and Laser Science conference (CLEO/QELS)

Long Beach Convention Center

Long Beach, California, USA

May 21 - May 26 2006

<http://www.cleoconference.org/>

Important Dates

Pre-Registration Deadline: Apr 27 2006

Submission Deadline: Postdeadline Apr 13 2006 Noon EDT

Housing Deadline: Apr 27 2006

CLEO/QELS Topics

CLEO 1: Laser Processing and Optical Instrumentation

CLEO 2: Solid-State Lasers

CLEO 3: Semiconductor Lasers

CLEO 4: Applications of Nonlinear Optics

CLEO 5: Terahertz Technologies and Applications

CLEO 6: Optical Materials, Fabrication & Characterization

CLEO 7: High-Field Physics and High-Intensity Lasers

CLEO 8: Ultrafast Optics, Optoelectronics & Applications

CLEO 9: Optical Components, Interconnects & Processing

CLEO 10: Medical and Biological Applications

CLEO 11: Fiber and Guided-Wave Lasers & Amplifiers

CLEO 12: Lightwave Communications and Networks

CLEO 13: Active Optical Sensing

CLEO 14: Optical Metrology

CLEO 15. LEDs, Organic LEDs and Solid-State Lighting

QELS 1: Cold Atoms and Molecules, Atom Optics

QELS 2: Quantum Optics and Quantum Information

QELS 3: Fundamentals of Metamaterials, Periodic & Random Media

QELS 4: Ultrafast Dynamics

QELS 5: Nonlinear Optics and Novel Phenomena

QELS 6: Nano-Optics and Plasmonics

QELS 7: High-Field Physics and High-Intensity Lasers

### 4. Photonic Applications Systems Technologies (PhAST)

Long Beach Convention Center

Long Beach, California, USA

May 22 - May 25 2006

[http://www.phastconference.org/about\\_phast/](http://www.phastconference.org/about_phast/)

Important Dates:

Pre-Registration Deadline: Apr 27 2006

Housing Deadline: Apr 27 2006

Submission Deadline: Postdeadline

Apr 13 2006

Noon EDT

The five PhAST topics are divided into two categories:

1. PhAST Tracks - Take place during the entire conference and include both contributed

and invited papers.

Lasers in Manufacturing

Photonics in Homeland and National Security

2. One-Day Symposia - Take place during one day of the conference and include invited speakers only.

Nanophotonics & Laser Optical Nanofabrication

BioPhotonics Instrumentation

High-Power Super-Efficient Semiconductor Lasers

#### 5. International Optical Design Conference

Sheraton Wall Centre

Vancouver, British Columbia, Canada

Jun 4 - Jun 8 2006

<http://www.osa.org/meetings/topicals/iodc/>

Important Dates:

Pre-Registration Deadline: May 12 2006

Housing Deadline: May 4 2006

Submission Deadline: Feb 13 2006

Noon EST

Topics and related areas to be presented include:

##### (1). Lens Design

Adaptive optics in optical systems

Coherence detection modeling and optical system design

Astronomical optics

Asymmetric optics

Conformal optics

Diffraction and holographic optics

Gradient index optics

Lithographic optics

Liquid optics

New lens designs

Micro- and nano-optics

Zoom optics and multi-configuration optics

Vision testing and enhancement optics

Space-borne optics

##### (2). Illumination Design

Displays, including LCD, 3-D, backlit, laser and heads-up

Freeform optics design, modeling, metrology and manufacture

Illumination optics design, modeling, manufacture and metrology

Non-imaging optics

Solid-state lighting

Source-coupling optics

Source modeling

##### (3). System Design

High-power laser system optics

Instrument design

IR systems

Medical/Bio-optics

Ophthalmic optics and instruments

Optical data storage systems

Photonic and optical interconnect systems

X-ray systems

Telecommunications optics

Micro-electro-mechanical systems (MEMS)

##### (4). Fabrication Design

Fabrication and testing developments that expand the design horizon

Integration of design, manufacturing, and metrology  
Materials (glass and other) and material characterization  
Testing and alignment of optical surfaces and systems  
Tolerance generation and application  
Plastic optics  
Thin film coatings in optical designs

(5). Software Design

Advances in optical design software  
Optimization developments in local and global methods  
Theory and mathematical methods applied to optical design including new optical surface descriptions  
Visualization and virtual-reality optical systems  
Physical optics modeling and design methods  
Polarization aspects including optics, design, ray tracing, metrology and applications

(6). Other

Education in optics, optical design and optical system modeling  
History of optics and optical design  
Other topics

6. Photonic Metamaterials: From Random to Periodic

Jun 5 - Jun 8 2006

The Westin and Sheraton Our Lucaya Beach & Golf Resort  
Grand Bahama Island, The Bahamas

<http://www.osa.org/meetings/topicals/meta/>

Important Dates:

Hotel Reservation Deadline: May 2, 2006

Pre-Registration Deadline: May 12, 2006

Submission Deadline: February 7, 2006, 12:00 p.m. noon EST (17.00 GMT)

Topics to be considered include:

Fundamental and applied aspects of waves in structured, periodic and disordered metamaterials and in natural materials as well as those synthesized using traditional techniques of crystal growth, organic and inorganic chemistry.

Fabrication and photonic properties of metamaterials including photonic and plasmonic band gap materials, negative-index materials and novel composites with unusual optical properties.

Scattering and imaging in turbulent and static disordered media.

The statistical nature of wave propagation and localization in random media.

Partial coherence, coherent backscattering, random lasing, and temporal, spectral and spatial correlation within the speckle pattern.

Advances in remote sensing, propagation, and active imaging in the atmosphere and in bodies of water, and scattering from aerosols as well as multiple scattering from dilute cold gases.

The role of diffusing photons and of residual optical coherence in medical and biological tissues.

Exploration of analogies with the propagation of acoustic, electronic and matter waves and with dynamical localization and chaos.

7. Optical Amplifiers & Their Applications

Jun 25 - Jun 28 2006

Westin Whistler Resort & Spa  
Whistler, BC, Canada

<http://www.osa.org/meetings/topicals/oa/>

Important Dates:

Submission Deadline: March 1, 2006, 12:00 p.m. noon EST (17.00 GMT)

Pre-Registration Deadline: June 12, 2006

Housing Deadline: May 24, 2006

The topics of the conference are divided into the following three general areas:

### (1)Fiber and Active Waveguides

This topic focuses on amplifying fibers and planar waveguides, their fabrication, materials, modeling, characterizations and devices, and subsystems. The following specific topics are included in this area:

- Planar Waveguide Amplifiers and Sources
- Fiber Amplifiers and Sources (Raman, Brillouin, Parametric, Rare-Earth Doped)
- High-Power Fiber Lasers
- Nonlinear Optical Devices
- Novel Fibers Useful for Optical Amplification
- Sensors
- Modeling and Characterization
- Materials and Structures
- Design and Fabrication
- Amplifier Integration

### (2)Semiconductor Devices and Functional Circuits

This area focuses on semiconductor devices, materials and material characteristics and semiconductor photonic integrated circuits. The following specific topics are included:

#### Semiconductor Devices

- Semiconductor Optical Amplifiers
- Semiconductor Pump Lasers
- Semiconductor Nonlinear Devices
- Semiconductor Sensors

#### Materials and Material Characteristics

- Novel Semiconductor Materials and Low-Dimensional Material Systems
- Semiconductor Nanostructured Material Systems
- Semiconductor Growth and Fabrication
- Nonlinear Effects in Semiconductor Materials,
- Noise Dynamics
- Ultrafast Processes in Semiconductors

#### Semiconductor Photonic Integrated Circuits

- Optical Switches and Processing Elements
- Planar Elements and Subsystems
- Devices for All-Optical Signal Processing, (e.g. Wavelength Conversion and Regeneration)

### (3)work and System Circuits

This area focuses on telecom and non-telecom applications of optical amplification. The following specific topics are included:

- Telecommunication Systems including Terrestrial and Undersea Transmission, Transparent Optical Networks, Metro and Access Networks, Video and Analog Transport
- Free Space Optics, Applications of Optical Signal Processing
- Biomedical Uses of Optical Amplifiers
- Optical Metrology and Sensing
- System-Related Analysis
- Optical Pre-Amplification
- Coherent Systems
- Quadrature Manipulation in Optical Links (e.g. Phase-Preserving Amplification)
- Nonlinear Effects
- Field Demonstrations/Deployment Experience

## 8. Coherent Optical Technologies and Applications

Jun 28 - Jun 30 2006

Westin Whistler Resort

Whistler, BC, Canada

<http://www.osa.org/meetings/topicals/oa/>

Important Dates:

Submission Deadline: March 1, 2006 12:00 p.m. noon EST (17.00 GMT)

Pre-Registration Deadline: June 12, 2006

Housing Deadline: May 24, 2006

The inaugural topical meeting on Coherent Optical Technologies and Applications provides a forum for disseminating the science and technology of encoding, manipulation, polarization and frequency, and the detection of optical phases, as well as applications enabled by fundamental and technological advances in coherent optics. In particular, the scope of the meeting includes developments in coherent optical concepts, and techniques and applications for communications, sensing and signal processing.

COTA Topics

Category I: Devices and Subsystems

Sources

- High-Power

- Narrow-Linewidth

- High-Stability

- Tunability

- Phase-Preservation over Temporal/Spectral Domain

Receivers

- Advanced Reception

- EPLL, OPLL

- Direct Locking Techniques

- Phase Estimation Techniques

Novel Devices and Platforms

- Modulators

- Phase-Sensitive Amplifiers

- Polarization Management

Category II: Systems and Applications

Applications 1 - Communication

- Coherent Modulation Formats/Signaling/Protocols

- Phase-Preserving Optical Systems

- Phase-Sensitive Links and Systems

- Free-Space (Spaceborne/Airborne) Optical Communications

- Metro/Terrestrial/Long-Haul Fiber-Optic Communications

- Analog Links

- Coherent and Transparent Optical Networks

- Coherent Techniques for Secure Optical Communications

Applications 2 - Sensing

- Free-Space (Remote Sensing): Airborne, Spaceborne

- Synthetic-Aperture Lidar/Ladar

- Coherent Fiber Sensors

- Coherent Microsensing in Spectroscopic Applications

- Coherent Biosensing: Statistical and Cellular Applications

Applications 3 - Coherent Optical Signal Processing

- Arbitrary Waveform Generation

- A/D Conversion

- Arbitrary Filtering

- Ultrafast All-Optical Correlation

9. Slow and Fast Light

July 23-26, 2006

OSA Headquarters, Washington, DC

<http://www.osa.org/meetings/topicals/sl/>

Important Dates:

Submission Deadline: March 31, 2006, 12:00 p.m. noon EST (17.00 GMT )

Pre-Registration Deadline: July 12, 2006

Topics to be covered include:

Physics of light control

Electromagnetically induced transparency

Coherent population oscillation

SBS

Polaritons and resonators, etc.

Various slow light, stored light and fast light material and structure engineering

BEC, hot vapor cells

Solid-state crystal

Semiconductor quantum wells and quantum dots

Photonic crystal

Holey fiber

Techniques

Experimentation and demonstrations

Measurements and figures-of-merit

Simulation

Bandwidth-storage trade-offs

Pulse propagation and distortion

Enhanced optical nonlinearities

New applications

All-optical buffers and routers

True time delay

Wavelength converter

Signal processing

Low V<sub>p</sub> modulator

Time reversal and convolution

10. 15th International Conference on Ultrafast Phenomena

July 31-August 4, 2006

Pacific Grove, California, USA

<http://www.osa.org/meetings/topicals/up/>

Submission Deadline: March 1, 2006

Pre-Registration Deadline: Jul 7 2006

Housing Deadline: Jun 15 2006

Meeting Topics

Generation and Measurement

New sources, new wavelength regimes, nonlinear frequency conversion techniques, amplifiers, attosecond pulse generation, pulse shaping, pulse diagnostics and measurement techniques, and frequency standards.

Physics

Ultrafast nonlinear optical processes, kinetics of nonequilibrium processes, quantum confinement, coherent transients, nonlinear pulse propagation, novel ultrafast spectroscopic techniques, high intensity physics, X-ray and plasma physics.

Chemistry

Vibrational and conformational dynamics, energy transfer, kinetics of laser-induced chemistry, proton and electron transfer, solvation dynamics, wavepacket motion and coherent control of reactions.

Biology

Ultrafast processes in photosynthesis, vision, heme proteins, photoisomerization in chromoproteins, wavepacket motion and medical applications.

Electronics & Optoelectronics

Photoconductivity, generation, propagation and detection of ultrafast electrical signals, terahertz radiation, electro-optical sampling and detectors.

Applications

Real world applications of ultrafast technology, including ultrafast near-field, nonlinear, and confocal microscopes, high speed communication, micromachining and more.

11. Laser Science XXII



Oct 8 - Oct 12 2006

Rochester Riverside Convention Center

Rochester, New York, USA

<http://www.osa.org/meetings/annual/>

Important Dates

Hotel Reservation Deadline: Sep 6 2006

Pre-Registration Deadline: Sep 15 2006

Submission Deadline: Jun 1 2006

Noon EDT

12. Frontiers in Optics -- 90th OSA Annual Meeting

Rochester Riverside Convention Center

Rochester, New York, USA

Oct 8 - Oct 12 2006

Rochester Riverside Convention Center

Rochester, New York, USA

<http://www.osa.org/meetings/annual/>

Important Dates

Hotel Reservation Deadline: Sep 6 2006

Pre-Registration Deadline: Sep 15 2006

Submission Deadline: Jun 1 2006

Noon EDT

13. Optical Fabrication and Testing

October 9-11, 2006

Rochester, New York

<http://www.osa.org/meetings/topicals/oft/>

Collocated with:

Frontiers In Optics/Laser Science XXII

Organic Photonics and Electronics Topical Meeting

Deadlines:

Submission Deadline: June 1, 2006, 12:00 p.m. noon EDT (16.00 GMT)

Hotel Reservation Deadline: September 6, 2006

Pre-Registration Deadline: September 15, 2006

About Optical Fabrication and Testing : The 2006 Topical Meeting on Optical Fabrication and Testing (OF&T) will bring together experts working in this field to discuss recent advances and to identify future trends. The meeting will cover all aspects of optics fabrication and testing ranging from micro-optics to large optics, and from high-value one-of-a-kind optics to mass-produced optics. The meeting will emphasize new ideas and concepts in fabrication and testing of micro-optics, the fabrication and testing of aspheric optics for optics materials and finishing science. Submission of papers on applied OF&T research and reports on process lessons learned from experiences in production and testing is strongly encouraged. Papers on new ways of teaching optical fabrication and metrology are also solicited.

14. Organic Photonics and Electronics

October 9-11, 2006

Rochester, New York

<http://www.osa.org/meetings/topicals/oft/>

Collocated with:

Frontiers In Optics/Laser Science XXII

Organic Photonics and Electronics Topical Meeting

Deadlines:

Submission Deadline: June 1, 2006, 12:00 p.m. noon EDT (16.00 GMT)

Hotel Reservation Deadline: September 6, 2006

Pre-Registration Deadline: September 15, 2006

About OPE: The rapid progress in electronic and optical molecular and polymeric materials has made them key enablers for novel photonic, electronic, and optoelectronic device

applications. These applications include: smart cards, flat panel displays, light-emitting diodes, transistors, photovoltaics, photorefractive materials, and optical coatings. Our aim is to bring together researchers from academia, industry and government laboratories from national and international settings in order to share their latest developments in this exciting area.

#### 15. 18th International Conference on Optical Fiber Sensors

October 23-27, 2006

Cancún, México

<http://www.osa.org/meetings/topicals/ofs/>

Submission Deadline: May 9, 2006

Hotel Reservation Deadline: September 2006

Pre-Registration Deadline: October 2, 2006

Topics and Scope:

The conference scope covers all aspects related to fiber optic and guided-wave sensing devices, systems, theories and techniques for research and applications in industrial, life sciences, medical, oil & gas, civil engineering, materials and defense industries, among others. Relevant topics include, but are not limited to the following:

##### 1. Physical, Mechanical & Electromagnetic Sensors:

Temperature, Pressure, Strain, Vibration, Acceleration, Flow, Rotation, Displacement, Magnetic Field, Electric Field, Current, and Voltage

##### 2. Chemical, Environmental, Biological and Medical Sensors:

Remote Spectroscopy, Environmental Monitoring, In-vivo Monitoring, Agent Detection, Trace Analysis

##### 3. Interferometric & Polarimetric Sensors:

Gyroscopes, Hydrophones, Geophones, and Acoustic Sensor Arrays

##### 4. Photonic Crystal Fiber Sensors & Devices

Photonic Crystal Fibers, Hollow Core Fibers, Nanomaterials and Nano-Optical Devices and Diffractive Optics

##### 5. Homeland Security & Defense Applications

Bioagent and Biohazard Sensors, Intrusion Detection, Perimeter Security, Littoral and Underwater Sensors

##### 6. Smart Structures and Materials:

Structural health monitoring, Strain and Deformation Sensors, Fiber Embedding Techniques, Condition Monitoring Algorithms

##### 7. Distributed Sensing:

Time, Frequency and Coherence Domain Reflectometry, Rayleigh, Raman and Brillouin Detection Techniques, and Sensing Cable Designs

##### 8. Multiplexing and Sensor Networking:

Topologies and Theories, Multiplexing Techniques, and FBG Applications

9. Passive & Active Devices for Photonic Sensing: Sources, Detectors, Modulators, Specialty Fibers, Integrated Optics Devices, Fiber Gratings, MEMS, Micro-optic Components, and MEMS

10. Commercial Systems & Field Tests: Relevant Installations and Field Demonstration of Photonic-based Sensing Systems, Metrology Projects, and Commercialization Efforts

#### 16. Optical Interference Coatings

June 3-8, 2007

Loews Ventana Canyon Resort & Spa

Tucson, Arizona, USA

<http://www.osa.org/meetings/topicals/oic/>

Submission Deadline : February 2007

Hotel Reservation Deadline: May 11, 2007

Pre-Registration Deadline: May 2007

About OIC: This meeting serves as a focal point for global technical interchange in the field of optical interference coatings. It will include papers on research, development and applications of optical coatings, such as fundamental and theoretical contributions in the field as well as practical techniques and applications.

This conference, like its predecessors, meets every three years to survey and capture advancements in the broad area of optical coatings. The format of the meeting includes invited papers by leaders in the field, short oral presentations of papers, and poster sessions with ample discussion periods. There are no parallel sessions.

#### 17. Nonlinear Optics:

Materials, Fundamentals and Applications

July 30 - August 3, 2007

Sheraton Keauhou Bay Resort & Spa Kona, Hawaii

<http://www.osa.org/meetings/topicals/NLO/>

Submission Deadline : March 2007

Hotel Reservation Deadline: July 2007

Pre-Registration Deadline: July 2007

About NLO: The purpose of this meeting is to provide an international forum for discussion of all aspects of nonlinear optics, including new phenomena, novel devices, advanced materials and applications

[附件：美国光学学会2006年度主办/协办会议一览表](#)

瞬态光学与光子技术国家重点实验室 版权所有Copyright © 2005 tot.labs.gov.cn All Rights Reserved.

地址：西安市高新区新型工业园信息大道17号(邮编710119) 电话：029-88887612 [陕ICP05007611号](#) [XA11235](#)

