

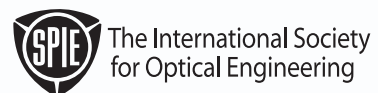
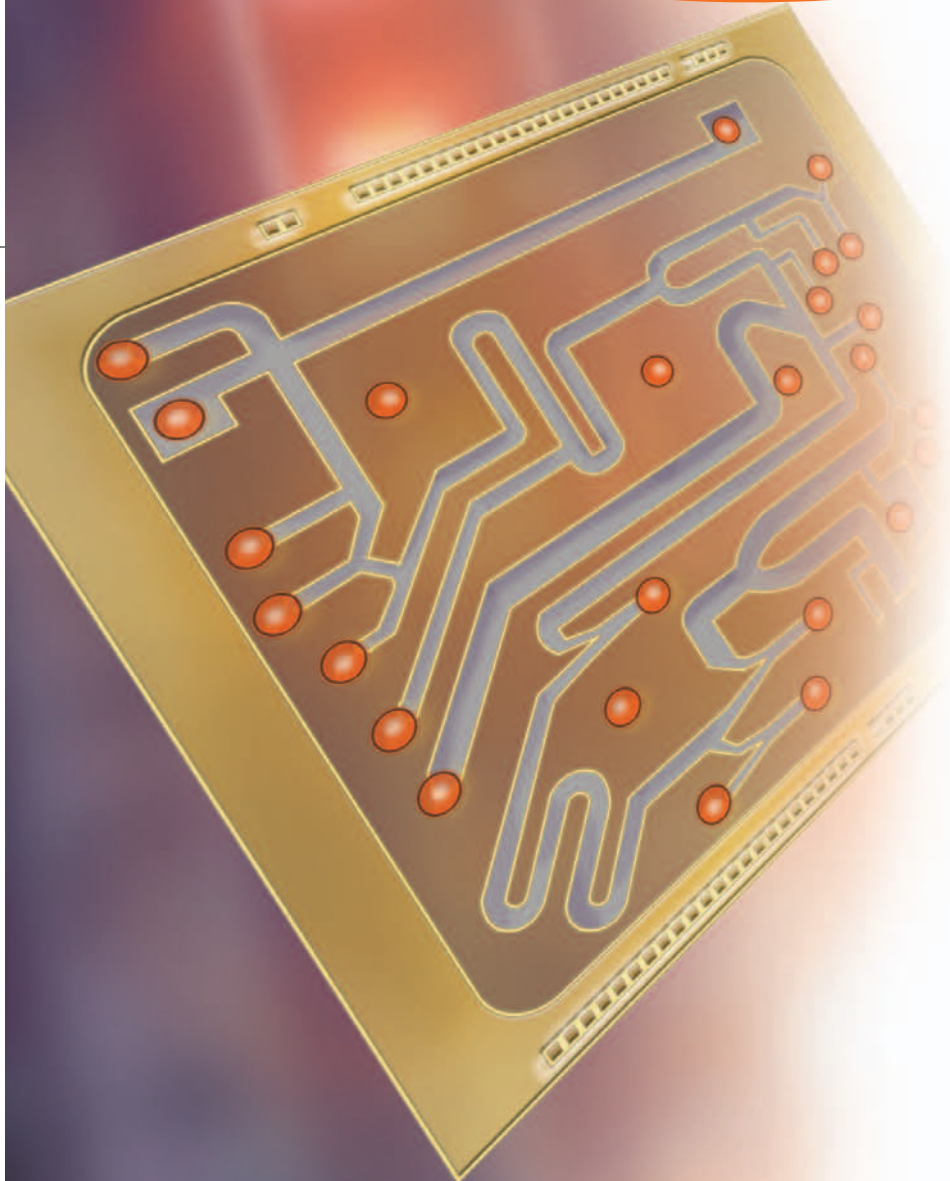
SPIE
OpticsEast

*Photonics for Applications in Industry,
Life Sciences, and Communications*

Exhibition: 3–4 October 2006

Conference: 1–4 October 2006

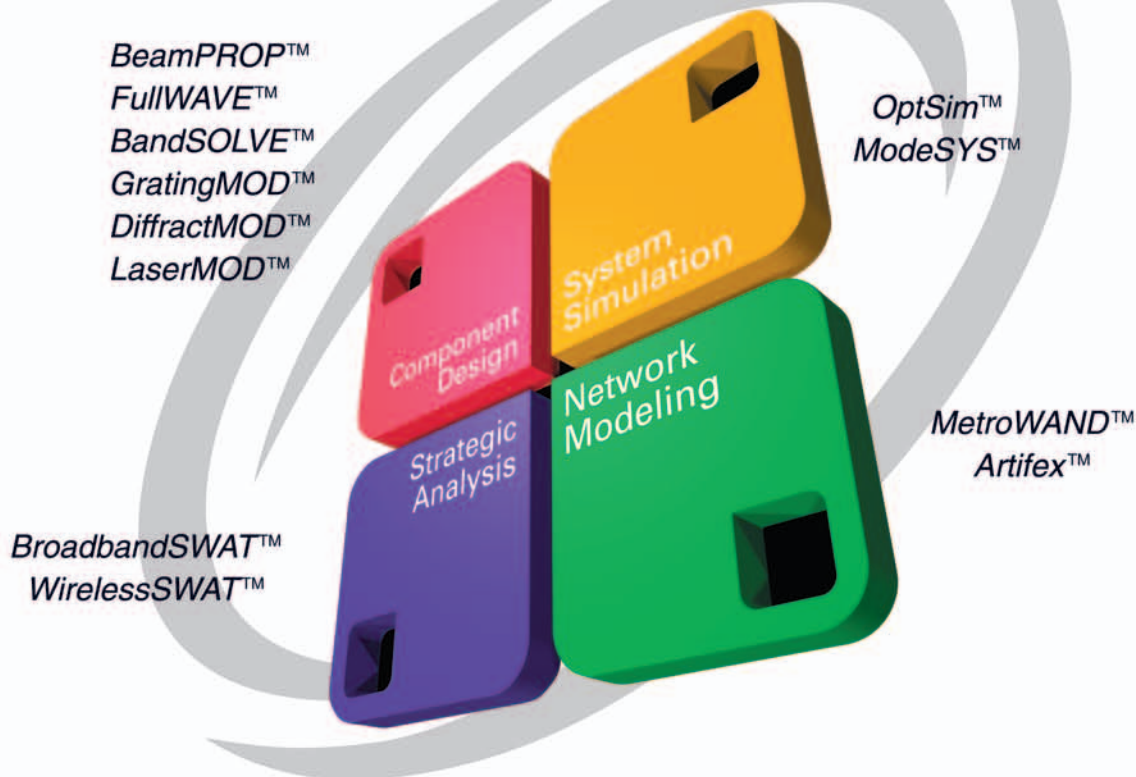
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Complete Solutions

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Optics East, Booth #216

For Photonic and Network Design Automation



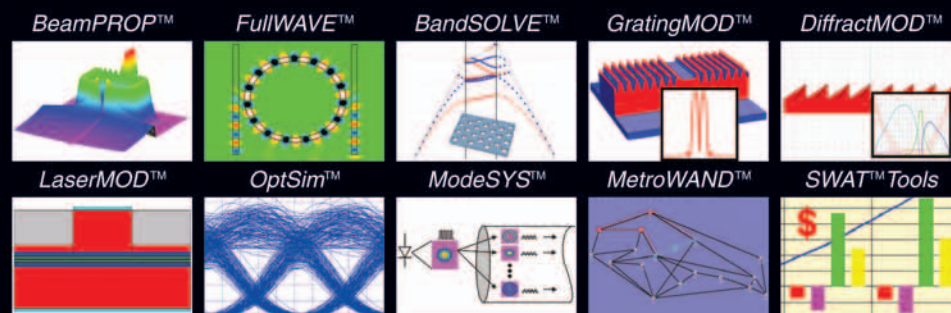
RSoft's award-winning products address design and business analysis challenges across four key areas: Component Design, System Simulation, Network Modeling, and Strategic Analysis.

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- The System Simulation family, *OptSim* and *ModeSYS*, use time and frequency domain solutions to drive performance improvements in optical communication system design, including multimode configurations.
- The Network Modeling family, *MetroWAND* and *Artifex*, help optical equipment manufacturers and service providers design and evaluate networks for optimal performance and cost efficiencies.
- *BroadbandSWAT* and *WirelessSWAT*, the Strategic Analysis family, enable planners, engineers, and business and marketing professionals to develop wireless, wired, and broadband network and service plans.

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Wednesday Afternoon Dessert/Coffee Break



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Conference Show Bags

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Women in Optics Lunch

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Welcome Reception and Poster Session



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General Refreshment Sponsor

RMI Rocky Mountain Instrument, Booth #322

SPIE OpticsEast

Welcome to the Exhibition!

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Research in Nondestructive Testing

International Journal of Distributed Sensor Networks

U.S. Naval Research Lab.



Exhibitor Booth List

106 Companies as of September 6, 2006

ADE Phase Shift #219	Laser Focus World #409	RMI Rocky Mountain Instrument #322
AFL Telecommunications #521	LEISTER Technologies, LLC #324	RoMack, Inc. #310
Ahura Corporation #618	Logitech Product Group #419	RSoft Design Group #216
AIM #415	Lumics GmbH #226	Santec #319
Alpes Lasers #401	Luminit Corp. #302	SensL #226
Angstrom Sun Technologies Inc. #507	Luna Technologies #534	Servometer/PMG, LLC #406
Apollo Optical Systems #224	Matrix, Inc. #304	SML Products Inc. #323
Applied Surface Technologies #418	Max Levy Autograph, Inc. #400	Spectroscopy Magazine #307
Ariel Optics, Inc. #420	Meadowlark Optics, Inc. #506	Spectrum Thin Films Corp. #226
ASML Optics LLC #315	MEMS Optical Inc. #528	SPIE Industry Resources #223
Becker & Hickl GmbH #401	Micro Photon Devices #509	SPIE Student Services #523
Blue Hill Optical Technologies #226	Moulded Optics GmbH #413	Steinmeyer, Inc. #308
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Colibrys SA #217	Ocean Optics, Inc. #405	Technical Manufacturing Corp. #417
Dataray, Inc. #226	OFS - Specialty Photonics Div. #424	Teem Photonics #226
Daylight Solutions #225	Olympus Micro Imaging #301	U.S. Naval Research Lab. #429
Dynasil Corp. #312	ONTAR Corp. #520	Varian, Inc. #410
Edinburgh Instruments Ltd #401	Optical Society of America #504	Vigo Systems S.A. #401
Electron Tubes #408	Optics for Hire #525	Vision Systems Design #408
Epitaxial Technologies, LLC #222	OptoElectronic Components #509	Xi'an Huanic Corp. #313
Epner Technology, Inc. #416	OptoHub Co., Ltd. #303	ZEMAX Development Corp. #300
EXALOS AG #221	Optometrics Corp. #312	
Fairfield Crystal Technology, LLC #309	PerkinElmer Life & Analytical Sciences #426	
Fiber Optic Center, Inc. #519	Photon Engineering, LLC #500	
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Hamamatsu Corp. #431	PicoQuant GmbH #509	
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Hellma International, Inc. #325	Power Technology, Inc. #318	
Hinds Instruments, Inc. #311	Precision Optics Corp. #524	
id Quantique SA #401	Rainbow Research Optics, Inc. #516	
IMT Masken und Teilungen AG #306	Raylase AG #226	
Intelligent Optical Systems, Inc. #511		
International Light Technologies Inc. #425		
IntlVac #427		
Krell Technologies #532		
Lambda Research Corp. #327		
Laser Compliance, Inc. #226		
LASER COMPONENTS IG, Inc. #305		

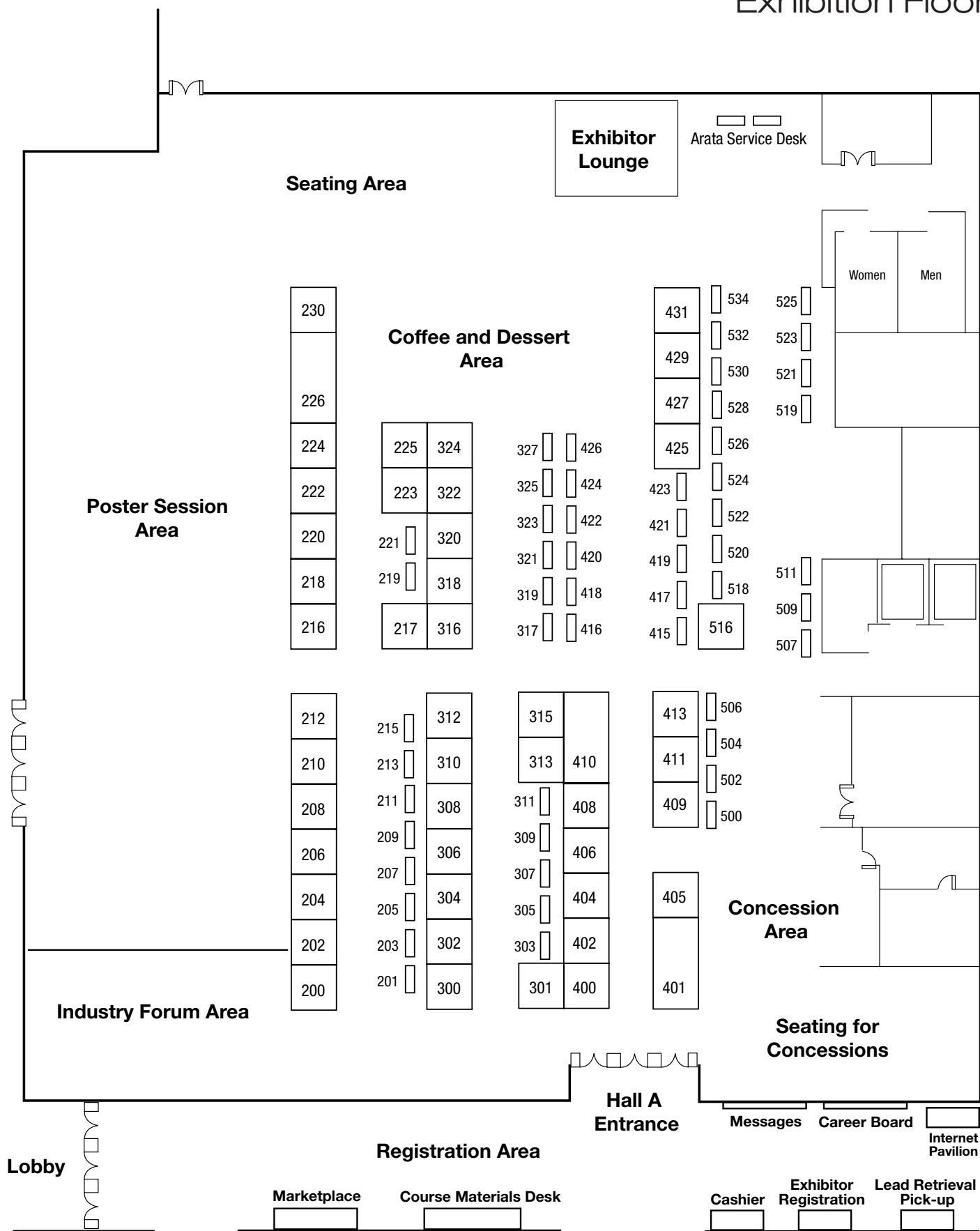
Advertisers Index

Optronics Co., Ltd. 21

RSoft Design Group, Inc. inside front cover



Hynes Convention Center, Hall A Exhibition Floor



Special Events

Welcome Reception

Boston Marriott Copley Place, 3rd Floor Atrium

Sponsored by



Booth #509

Sunday 1 October 5:30 to 6:30 pm

All attendees are invited to the Welcome Reception. Relax, socialize, and enjoy refreshments. Please remember to wear your conference registration badges. Dress is casual.

Interactive Poster Session

Exhibition Hall A

Sponsored by



Booth #509

Tuesday 3 October 6:00 to 7:30 pm

Poster Set-Up

Monday 2 October 12:00 to 5:00 pm

Tuesday 3 October 10:00 am to 5:00 pm

Poster authors will be able to set up starting at Noon on Monday and will be asked to leave their posters up until 7:30 pm on Tuesday. Poster Presenters who have not set up by 5:00 pm on Tuesday will be considered a “no show” and their manuscript will not be published.

Presenters will be at their poster papers to answer questions from 6:00 pm to 7:30 pm on Tuesday.

It is the author’s responsibility to remove their posters at the end of the session. Papers not removed will be considered unwanted and will be discarded. SPIE assumes no responsibility for posters left up after the end of the poster session.

SPIE Women in Optics Lunch

Sponsored by



Booth #320

Delivering what’s next.™

Monday 2 October 12:00 to 1:00 pm

Speaker: **Judy Largesse**

Sr. Manager, Electro-Optics Systems
Endovations Division, Boston Scientific Corporation

Join us for an opportunity to network with other optics professionals, generate new contacts, and expand your resources and referrals. This SPIE hosted luncheon at Optics East is the perfect way to meet and develop relationships with others in your field. Register for this lunch at the SPIE Cashier by 3:00 Sunday; location information provided upon sign-up.

Student Lunch with the Experts

See ticket for location.

Monday 2 October 12:30 to 1:30 pm

Combine fun, food and networking at this engaging, free event open to all students. Hosted by SPIE Student Services, this event will feature experts willing to share their accumulated wisdom on career paths within the optics and photonics industry. Lunch is open to all student attendees. Please come early as space is limited; tickets will be collected at the door.

Special Session Smart Medical Home

Hynes Convention Center, Room 100

Wednesday 4 October 2:00 to 4:00 pm

Chair: **Israel Gannot**, Tel-Aviv Univ. (Israel) and George Washington Univ.

Panel Participants:

Alice Pentland, Chair of the Center of Future Health, Rochester Univ.

Kent Larson, Chair of the House_n project, Massachusetts Institute of Technology

Majd Alwan, Eldercare Technologies Program Director, Univ. of Virginia

Diane Cook, Director of the MavHome Project, Univ. of Texas/ Arlington

Tom Rose, SmartHouse Program Director, Duke Univ.

As people grow older they find it more difficult to remain in their houses and they move into retirement homes, nursery homes, assisted living projects, or other special housing for the elderly. This transition surely has an affect on their state of mind. A move from their natural surroundings may also impact their health condition for the worse.

With the advance of medicine, technologies of sensing, monitoring, and health informatics there is a big potential in creating a smart medical home where elderly people can continue to live their normal lives in their natural and recognized surroundings.

This special session will deal with different aspects of the smart medical home idea. The panelists come from different disciplines: medicine, biomedical sciences, architecture, and engineering, and they will present the projects that they are heading in their universities.

After the presentations there will be a panel discussion with active participation from the audience on the presented issues, as well as psychological and philosophical aspects of the smart medical home concept.

Jumpstart Your Job Search.

Regardless of your status—recent graduate, newly unemployed, or considering a career move—find the job that’s right for you.

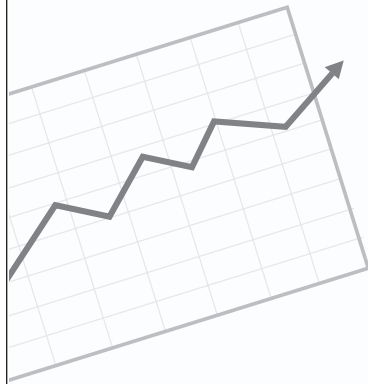
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A service of SPIE—The International Society for Optical Engineering



Industry Perspectives

Market analysis, technology review and ideas for business



Location: Exhibition Hall A

Wednesday 4 October 8:30 to 11:30 am

FREE SESSION open to all exhibition visitors, exhibitors and technical conference attendees. Hear industry experts share their views on the opportunities, innovations and applications that impact strategy, planning and implementation.



Special session topics:

- Imaging for Industrial Applications
- Visual Data Analysis in the Life Sciences
- Sensor Technology Alert: breakthroughs that matter
- The Back-end of Optical R&D: process for delivery
- Optoelectronics Industry Trends and Forecasts
- Tech Commercialization: Tips, Traps and Tricks



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We are confident that once you experience an SPIE course for yourself you will look to SPIE for your future education needs. However, if for any reason you are dissatisfied, SPIE will gladly refund your money. We just ask that you tell us what you did not like; suggestions for improvement are always welcome.

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SPIE is an authorized provider of Continuing Education Units (CEUs) through ICAET—The International Association of Continuing Education and Training. SPIE awards CEUs to participants who successfully attend courses, and complete and return the evaluation form within 30 days of the course presentation. SPIE maintains a record of all CEUs earned for each participant for seven years.

Professional Development from SPIE
spie.org/education

Course Daily Schedule

Sunday October 1	Monday October 2	Tuesday October 3	Wednesday October 4
Optics & Optomechanics			
SC156 Basic Optics for Engineers (Ducharme) 8:30 am to 5:30 pm, \$425 / \$515	SC003 Practical Optical System Design (Fischer) 8:30 am to 5:30 pm, \$465 / \$545	SC192 Introduction to Optics for Non-Optical Personnel (Kahan) 8:30 am to 5:30 pm, \$390 / \$470	
SC220 Optical Alignment Mechanisms (Guyer) 1:30 to 5:30 pm, \$220 / \$260		SC447 Principles for Mounting Optical Components (Yoder, Jr.) 8:30 am to 5:30 pm, \$905 / \$1055	
SC700 Understanding Scratch and Dig Specifications (Aikens) 1:30 to 5:30 pm, \$255 / \$295			
Biomedical Technologies			
	SC673 Optical Fiber Sensing Technology: Principles, Components & Applications (Méndez) 1:30 to 5:30 pm, \$220 / \$260		SC309 Fluorescent Markers: Usage and Optical System Optimization (Levi) 8:30 am to 12:30 pm, \$220 / \$260
			SC461 Bio-Optical Detection Systems (Levi) 1:30 to 5:30 pm, \$220 / \$260
Spectroscopy			
	SC802 Practical Near Infrared and Raman Spectroscopy Applications (McDermott, Botonjic) 8:30 am to 12:30 pm \$220 / \$260		
	SC800 Instruments for Light Spectroscopy (Saptari) 1:30 to 5:30 pm, \$220 / \$260		
Sensors			
	SC194 Multispectral and Hyperspectral Image Sensors (Lomheim) 8:30 am to 12:30 pm, \$220 / \$260		
	SC673 Optical Fiber Sensing Technology: Principles, Components & Applications (Méndez) 1:30 to 5:30 pm, \$220 / \$260		
Optoelectronics & Photonics			
		SC801 Optoelectronic Devices: Introduction to Physics and Simulation (Piprek) 8:30 am to 12:30 pm, \$310 / \$350	SC747 Semiconductor Optoelectronic Device Fundamentals (Linden) 8:30 am to 5:30 pm, \$390 / \$470
Image & Signal Processing			
	SC189 Image Recognition Using Statistical Filtering Techniques, Wavelets and Neural Networks (Javidi) 8:30 am to 5:30 pm, \$445 / \$525		

Register for courses at the SPIE Registration Desk!

Exhibitor Directory

ADE Phase Shift

#219

SPIE Corporate Member

3470 E Universal Way, Tucson, AZ, 85706-5042
520/573-9250; fax 520/573-9355
info1@phase-shift.com; www.phase-shift.com

AFL Telecommunications

#521

PO Box 3127, Spartanburg, SC, 29304
864/433-0333; fax 864/433-5560
sales@aftele.com; www.aftele.com

New Product: Large Diameter Fiber (LDF) fusion splicers and accessories.

AFL Telecommunications is an industry leader providing fiber optic products, fusion splicing and test equipment, engineering expertise and integrated services to the telecommunications industry. AFL's product line consists of optical connectivity, fusion splicers and test equipment as well as fiber management systems, closures, fiber optic cable and accessories. Contact: Michael Hetrick, National Sales Manager, michael.hetrick@aftele.com.

Ahura Corporation

#618

46 Jonspin Rd, Wilmington, MA, 01887
978/657-5555; fax 978/657-5921
sales@ahuracorp.com; www.ahuracorp.com

New Product: FlexProbe Extension provides FirstDefender functionality with flexibility of a one-meter cable.

Ahura Corporation develops rugged, innovative, ultra-compact, field-enabled optical systems for the detection, identification and authentication of unknown and suspect substances. Customers include the homeland security, life sciences, industrial and medical markets. Manufactured in the USA in an ISO 9001 certified operation, Ahura's products offer superior performance at competitive prices.

AIM

#415

25 Kenney Dr, Cranston, RI, 02920
401/463-5605; fax 401/463-0203
info@aimsolder.com; www.aimsolder.com

AIM is a leading global manufacturer of solder assembly materials to the electronics industry. Our full-line of assembly materials includes solder paste, liquid flux, bar, wire, preforms, adhesives, cleaners, chemicals, plating anodes and indium- and gold-based specialty alloys. AIM is ISO 9001:2000 certified with manufacturing, distribution and support facilities located throughout the Americas, Asia-Pacific and Europe.

Alpes Lasers

#401

Champrevyres 2, Neuchatel, Switzerland, CH-2008
41 878 803 041; fax 41 878 803 042
info@alpe lasers.ch

New Product: CW room temp Quantum Cascade Lasers devices now available on special order.

Manufacturer of Quantum Cascade Lasers - tunable infrared lasers in the 3.5 to 17 micron region operating on thermoelectric coolers (pulsed) or LN2 cooled (CW). Contact: Antoine Muller, Sales Engineer, antoine.muller@alpe lasers.ch.

Angstrom Sun Technologies Inc. #507

33 Nagog Park, Acton, MA, 01720
978/263-6678; fax 978/263-6675
flin@angstec.com; www.angstec.com

New Product: TFProbe Software 2.2 for Vision, Spectra acquisition, coating thickness measurement.

We provide advanced but affordable TFProbe series optical instruments for thin film applications (1) Desktop Film Thickness Mapping System (2) Microspectrophotometer (3) Thin film thickness measurement station (4) Photoluminescence Mapping system, (5) Spectroscopic ellipsometer (6) Digital camera eyepiece for various microscopes (7) Software for thin film and digital imaging (8) Analytical service for thin films (9) In line multiple Channel Thickness Monitoring System. Contact: Richard Sun, RSun@angstec.com; Flora Lynn, FLynn@angstec.com.

Apollo Optical Systems

#224

SPIE Corporate Member

330 Clay Rd, Rochester, NY, 14623
585/272-6170; fax 585/272-6177
info@apollooptics.com; www.apollooptical.com

Applied Surface Technologies

#418

SPIE Corporate Member

15 Hawthorne Dr, New Providence, NJ, 07974
908/464-6675; fax 908/464-7475
roberts@co2clean.com; www.co2clean.com

We demonstrate precision cleaning using the CO2 Snow Jet, a safe and nondestructive process for removing contamination. This surface cleaning process is a simple, yet novel, process that can remove particles of all sizes, (from visible to 0.03 micron) and organic residues. CO2 Snow cleans wafers, metals, ceramics, polymers, optical and laser parts and many other applications. We will demonstrate manual and semi-automated units for R&D or manufacturing cleaning applications. Bring samples. Contact: Dr. Robert Sherman, President.

Ariel Optics, Inc.

#420

SPIE Corporate Member

6935 N Slocum Rd, Ontario, NY, 14519
315/524-8211; fax 315/524-9662
info@arielo ptics.com; www.arielo ptics.com

ASML Optics LLC

#315

3900 Lakeside Dr, Richmond, CA, 92867
510/222-2310; fax 510/222-2357
information@asml.com; www.asml.com

ASML Optics is a manufacturer of extreme precision optical components and systems for a broad range of commercial applications, serving customers worldwide. Provides Design-to-Image™ solutions including optical and mechanical design, optical fabrication and coating, assembly and system qualification and distinct customer benefits with Asphere Advantage™ technology and PerfectWave™ metrology. Contact: Mark Bigelow, mark.bigelow@asml.com; Dan Bajuk, dan.bajuk@asml.com.

Becker & Hickl GmbH

#401

Nahmitzer Damm 30, Berlin, Germany, D-12277
49 30 787 5632; fax 49 30 787 5734
b_and_h@boselec.com; www.becker-hickl.de

New Product: Simple-Tau, complete TCSPC and detector control, cooled fast PMT, compatible with PC laptops.

Time correlated Single Photon Counting (TCSPC) electronic modules providing PC based measurement solutions. Applications include Fluorescence Lifetime Imaging Microscopy (FLIM), Fluorescence Resonance Energy Transfer (FRET), Fluorescence Correlation Spectroscopy (FCS). Single photon counting detectors (MCP's, PMT's), Pulsed Diode Lasers, multichannel detector heads, routing devices for multichannel measurements, preamps, gated photon counters and multiscalers. Contact: John Devaney, Applications Engineer, jjd@boselec.com.

Blue Hill Optical Technologies

#226

SPIE Corporate Member

480 Washington St #7, Norwood, MA, 02062
781/255-1064; fax 781/255-1065
info@bluehilloptical.com; www.bluehilloptical.com

Boston Electronics Corp.

#401

SPIE Corporate Member

91 Boylston St, Brookline, MA, 02445
617/566-3821; fax 617/731-0935
boselec@boselec.com; www.boselec.com

New Product: New from id Quantique: 280-900nm Si APD Photon Counter for TCSPC.

Products for optical signal detection and signal processing—Time Correlated Single Photon Counting electronics. Fluorescence Lifetime and Steady State Spectrometers, Quantum Cascade Lasers, Lock in amplifiers & optical choppers. UV and IR detectors. APD modules. Laser safety shutters. IR sources. Laser radar (LIDAR) receiver electronics. Contact: Fred Perry, President, fsp@boselec.com.

Conference Show Bags, Internet Pavilion, Women in Optics Lunch Sponsor

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One Boston Scientific Pl, Natick, MA, 01760
508/650-8000
www.bostonscientific.com

Cergence, Inc.

#530

PO Box 2526, West Chester, PA, 19380
484/841-1199; fax 302/288-3902
info@cergence.com; www.cergence.com

ChemImage

#402

7301 Penn Ave, Pittsburgh, PA, 15208
412/241-7335; fax 412/241-7311
info@chemimage.com; www.chemimage.com

New Product: Multi-Conjugate Filter (MCF).

ChemImage is a revolutionary imaging company bringing modern imaging technology to pharmaceutical, forensic, biomedical and bio-threat applications. Our focus is on solutions that enable our customers to gain competitive advantage, by speeding products to market and seamlessly enabling projects to flow from the lab through scale-up and into production. Call or visit us to see how modern imaging can benefit you. www.chemimage.com. Contact: Tracey Vogt, Sales Administrator, vogtt@chemimage.com.

Cobolt AB

#226

SPIE Corporate Member

Kräftriket 8, Stockholm, Sweden, S-104 05
46 8 5459 1233; fax 46 8 5459 1231
info@cobolt.se; www.cobolt.se

Colibrys SA

#217

Maladiere 83, Neuchatel, Switzerland, CH-2007
41 32 720 5811; fax 41 32 720 5784
sales.us@colibrys.com; www.colibrys.com

Dataray, Inc.

#226

605 Stapp Rd, Boulder Creek, CA, 95006
203/210-5065; fax 203/762-0551
sales@dataray.com; www.dataray.com

New Product: USB 2.0 Laser Profiling Cameras; WinCamD-HR High Resolution 5.2 μm , and WinCamD-HS High Speed.

USB 2.0, WinCamD-UCM-HR High Resolution 5.2 μm^2 and the HS High Speed camera for single pulse capture from lasers with PRR up to 40 kHz, port-powered, auto-exposure, synchronous shutter. DataRay's innovative and unique beam intensity profiling and imaging solutions simplify beam measurement, from microns to tens of mm, BeamMap series scanning slit systems measure X, Y and Z profiles, focus, divergence, pointing and M2 in real-time. Beam'R and BeamScope for economical X, Y profiling. Contact: John Wilson, Sales and Marketing Manager, jwilson@dataray.com.

Daylight Solutions

#225

13029 Danielson St Ste 130, Poway, CA, 92064
858/391-1010; fax 858/679-9470
mmolina@daylightsolutions.net; www.daylightsolutions.net

New Product: Tunable Mid IR Lasers, Compact, Room Temperature Operation covering 4-12 μm .

New Mid-IR, Tunable, Room Temperature Compact Lasers. Center wavelengths at 4.5 μm , 5.5 μm , 8.5 μm , 9.5 μm , 10.5 μm , Pulsed or CW. Custom laser wavelengths and OEM configurations are available, tunable to +/- 5% of the center wavelength. Average power 1-10mW, peak pulsed power 250mW. Applications in gas detection, illumination, heavy and light molecule spectroscopic detection, explosives, biomarker and glucose detection. Talk to us about specific wavelength ranges and applications. Contact: Kevin Liddane, Director of Sales, kliddane@daylightsolutions.net.

Dynasil Corp.

#312

385 Cooper Rd, West Berlin, NJ, 08091-9145
856/767-4600; fax 856/767-6813
bleonetti@dynasil.com; www.dynasil.com

Distributor of Corning 7980 high purity synthetic fused silica. Supplier of precision machined blanks to customer specifications. Contact: Bruce Leonetti, Vice President Sales & Marketing, sales@dynasil.com; Michael Orlando, Inside Sales, sales@dynasil.com.

Edinburgh Instruments Ltd

#401

2 Bain Sq, Kirkton Campus, Livingston, United Kingdom, EH54 7DQ
44 1506 425 300; fax 44 1506 425 320
sales@edinst.com; www.edinst.com

Picosecond fluorescence lifetime spectrometers based on Time Correlated Single Photon Counting (TCSPC). Nanosecond Laser Flash Photolysis in kinetic and spectral modes, steady state fluorimeters with anisotropy measurement, modular fluorescence and phosphorescence lifetime spectrometers, advanced deconvolution software and analysis tools. Contact: Elaine Blackwood, Sales Manager, eblackwood@edinst.com.

Exhibitor Directory

Electron Tubes

#408

100 Forge Way Unit F, Rockaway, NJ, 07866
973/586-9594; fax 973/586-9771

sales@electrontubes.com; www.electrontubes.com

New Product: HVSys is a multi-channel high voltage supply, control & monitoring system for photomultiplier tubes.

Electron Tubes manufactures photomultiplier tubes, light detector assemblies and x-ray data acquisition systems. Photomultiplier tubes include versions for use at cryogenic temperatures and in rugged environments. Detector assemblies include photon counting types with RS232 interface. The XDas linear x-ray data acquisition system is available for security and industrial process control applications. Contact: Paul Davison, Sales Manager, paul@electrontubes.com; Jules Green, Sales & Marketing Engineer, jules@electrontubes.com.

Epitaxial Technologies, LLC

#222

1450 S Rolling Rd, Baltimore, MD, 21227
410/455-5594; fax 410/455-5595

oaina@epitaxialtechnologies.com; www.erols.com/epiwafers

Epner Technology, Inc.

#416

SPIE Corporate Member

78 Kingsland Ave, Brooklyn, NY, 11222-5603
718/782-5948; fax 718/963-2930
epner78@aol.com; www.epner.com

EXALOS AG Booth

#221

SPIE Corporate Member

Wagistr 21, Schlieren, Switzerland, 8952
41 43 444 60 90; fax 41 43 444 60 99
info@exalos.com; www.exalos.com

New Product: Gaussian 1300 nm, Ultra high power 1300, 1580 nm, TOSA 800, 830, 1300 & 1550 nm SLEDs.

EXALOS, an ISO 9001:2000 certified company, is developing and selling advanced Superluminescent Light Emitting Diodes (SLEDs) to the fiber optic gyroscope, medical imaging (OCT), fiber optic test equipment and sensor markets. EXALOS SLEDs operate with wavelengths ranging from 700 to 1700 nm, with optical bandwidths up to 190 nm and with output powers up to 50 mW. EXALOS's portfolio of SLEDs provides customers with the optimum balance of price, time to market, performance and size. Contact: Gene Covell, Director of Sales, covell@exalos.com.

Fairfield Crystal Technology, LLC

#309

8 S End Plz, New Milford, CT, 06776
860/354-2111; fax 860/354-3093

atimmerman@fairfieldcrystal.com; www.fairfieldcrystal.com

Fairfield Crystal Technology specializes in growing and manufacturing high-purity single-crystal material for the optical and semiconductor industries. For the optical community we are currently producing single crystal CaF₂, MgF₂ and BaF₂ crystals used in laser optics, microlithography and HDTV-zoom lenses. We also are producing high-purity (99.999%) vacuum-melted MgF₂ and BaF₂ deposition material for your coating needs. Contact: Andy Timmerman, Manager.

Fiber Optic Center, Inc.

#519

28 Centre St, New Bedford, MA, 02740-6322
508/992-6464; fax 508/991-8876
sales@focenter.com; www.focenter.com

Fiberguide Industries, Inc.

#321

SPIE Corporate Member

1 Bay St, Stirling, NJ, 07980
908/647-6601; fax 908/647-8464
info@fiberguide.com; www.fiberguide.com

New Product: Optical Fiber Patch Cords and Fiber Optic Cables.

Fiber Optic Solutions company to OEM with line of standard and custom multi mode (including Hard Clad), single mode and graded index optical fibers from UV to NIR; temperatures from -269°C to +700°C. Design, prototype and manufacture custom assemblies from single fibers through multi-furcated input/outputs containing thousands of fibers arranged randomly or distinctively mapped. Design and manufacture 2D arrays and linear arrays. FDA registered as Contract and Custom Device Manufacturer. Contact: Konrad A. Lisi, Director Marketing and Sales, klisi@fiberguide.com; Ron Atanesian, Eastern Regional Sales Manager, ratanesian@fiberguide.com.

Galvoline

#226

Clivo De Cinna 196, Rome, Italy, 00136
39 0 635402933; fax 39 0 635402879
galvoline@bluehilloptical.com; www.galvoline.it

GEOMATEC Co. Ltd.

#226

9F The Landmark Tower Yokohama, 2-2-1 Minatomirai Nishi-ku, Yokohama, Japan, 220-8109

81 45 222 5721; fax 81 45 222 5731

geomatec@bluehilloptical.com; www.bluehilloptical.com/geomatec.htm

GEOMATEC designs and produces high quality scan lenses and beam expanders for 1064nm, 532nm and 355nm applications. Beam expanders are available in fixed and variable ratio models with focus control. Scan lenses offer exceptional quality and uniformity at attractive prices. Please visit for more information. Contact: Phil Barrows.

Hamamatsu Corp.

#431

SPIE Corporate Member

360 Foothill Rd, Bridgewater, NJ, 08807-2932
908/231-0960; fax 908/231-0405
sales@hamamatsu.com; www.hamamatsu.com

Hamamatsu is the proven leader in the photonics industry. For more than 50 years, we have been unsurpassed in our number of innovations and dedication to ongoing research and development. We offer a vast range of products that are known around the world for quality and reliability as well as their ability to be customized to meet the exact specifications for all industries that use photonics components and systems to meet their goals.

Headwall Photonics, Inc.

#423

SPIE Corporate Member

601 River St, Fitchburg, MA, 01420
978/353-4100; fax 978/348-1864
information@headwallphotonics.com; www.headwallphotonics.com

New Product: Hyperspec SWIR Imaging Sensor with spectral range of 1000nm to 2500nm.

Design, manufacture of optical instruments for OEM customers in analytical, defense and telecommunications industries. Products - integrated spectral sensors, spectrometer modules & original holographic diffraction gratings. Specialization-integration of detectors and spectral engines for application-specific performance. Multi-channel Raman, hyperspectral imaging systems, micro-spectrometers, Low PDL gratings. Highest optical performance, low stray light, small form factor & rapid prototyping. Contact: Jay Zakrzewski, Business Development; Kirk Grim, Sales.

Hellma International, Inc.

#325

SPiE Corporate Member

80 Skyline Dr, Plainview, NY, 11803
516/653-2000; fax 516/939-0555
info@hellmausa.com; www.hellmausa.com

New Product: MCS CCD Spectrometer.

Manufacturer of Hellma Optics, Photometer Cells and Accessories, Fiber Optic Immersion Probes, Calibration Standards, Cylindrical and Flat Optics, Beam Splitters and Mirrors for Laser and other applications. Unmatched selection of stock and custom Cells. Supplier of Heraeus Light Sources including Deuterium, Hollow Cathode, Photoionization, Spectral Line; Zeiss MMS/MCS Monolithic Miniature Spectrometer modules covering 190-2200nm in combination with 16 bit S/N Tec5 Interface electronics. Contact: Ed Roth, Sales Engineer, eroth@hellmausa.com.

Hinds Instruments, Inc.

#311

3175 NW Aloclek Dr, Hillsboro, OR, 97124
503/690-2000; fax 503/690-3000
sales@hindsinstruments.com; www.hindsinstruments.com

Hinds Instruments manufactures instrumentation for Stokes polarimetry, high speed optical chopping and other polarization modulation applications. Our core technology, the photoelastic modulator (PEM), is an integral part of each instrument. The PEM operates in the deep UV to far-IR spectral regions and is the ideal polarization modulation device for high performance applications in ellipsometry, linear & circular dichroism, rheology, spectroscopy and MOKE. Contact: Amanda Bryan, Product Manager.

id Quantique SA

#401

Chemin de la Marbrerie 3, Carouge, Switzerland, CH-1227
41 22 301 83 71; fax 41 22 301 83 79
sales@idquantique.com; www.idquantique.com

New Product: id201: A NIR (900 - 1700 nm) Single Photon Detection Module with adjustable quantum efficiency!

id Quantique is a Swiss company specialized in photon counting. Its product lines include the id200: A NIR (900 - 1700 nm) Single Photon Detection Module with single- or multimode fiber input; and the id100: A VIS (350 - 900 nm) Single Photon Detection Module available both with multimode fiber as well as free space input. Other products are: Short Pulse Laser Source at telecom wavelength, Quantum Key Distribution (QKD) systems and Quantum Random Number Generator (QRNG).

IMT Masken und Teilungen AG

#306

Im Langacher, Greifensee, Switzerland, CH-8606
41 1 943 1900; fax 41 1 943 1901
www.imtag.ch

Intelligent Optical Systems, Inc.

#511

2520 W 237th St, Torrance, CA, 90505
310/530-7130; fax 310/530-7417
tcastro@intopsys.com; www.intopsys.com

International Light Technologies Inc.

#425

10 Technology Dr, Peabody, MA, 01960
978/818-6180; fax 978/818-6181
sales@intl-lighttech.com; www.intl-light.com

New Product: ILT400 profiling belt radiometer, ultra-stable all solid-state, rechargeable and only \$795.

International Light and Gilway Technical Lamp have merged their operations in Peabody, MA. Since 1965 International Light has been solving the inherent difficulties in light measurement through the design and manufacture of a wide range of light measuring instruments. Formed in 1969 Gilway has provided customers with off the shelf and customized solutions across a full spectrum of light sources, including UV, Visible, IR lamps, high power LEDs, modules and power supplies. Contact: Jill Fowler, Sales Manager, ilsales@intl-lighttech.com.

IntlVac

#427

6-247 Armstrong Ave, Georgetown, ON, Canada, L7G 4X6
905/873-0166; fax 905/873-0168
sales@intlvac.com; www.intlvac.com

Intlvac manufactures a variety of systems for Physical Vapor Deposition. The Nanochrome® and Nanoquest, suitable for R&D and production coating of optical components, sensors and plastics. Nanochrome® are Electron Beam or Magnetron Sputter Thin Film Deposition Systems. Nanoquest are Ion Beam Sputtering and Etch systems. Intlvac also provides process development support for Sputtering, Ion Beam etch and ion assisted evaporation from our in-house development laboratory. Contact: Dino Deligiannis, President; Greg Dawn, Sales.

Krell Technologies

#532

1126 Campus Dr W, Morganville, NJ, 07751
732/617-7091; fax 732/617-7092
sales@krelltech.com; www.krelltech.com

Lambda Research Corp.

#327

SPiE Corporate Member

25 Porter Rd, Littleton, MA, 01460-1434
978/486-0766; fax 978/486-0755
sales@lambdares.com; www.lambdares.com

New Product: Demo TracePro 4.0, optical software that includes photo-realistic rendering and fluorescence.

Lambda Research provides optical engineering solutions by developing world-class optical software programs and providing expert optical engineering consulting. Our software programs include: OSLO, for optical design and analysis of image-forming systems, TracePro, for stray-light analysis and illumination design and TracePro Bridge™ for SolidWorks, for 3D MCAD interoperability with optical software.

Laser Compliance, Inc.

#226

4666 Oxford Way, Bountiful, UT, 84010
801/292-2309; fax 801/292-2415
casey@lasercompliance.com; www.lasercompliance.com

Laser Compliance helps US and International laser product manufacturers make their products legal for sale and import into the United States. We can handle all of the regulatory issues and paperwork to make your product legal for sale and/or importation into the US. You can focus on your work and we make your product legal for you! Contact: Casey Stack, President; Phil Barrows, Sales, phil@lasercompliance.com.

Exhibitor Directory

LASER COMPONENTS IG, Inc. #305

SPIE Corporate Member

9 River Rd, Hudson, NH, 03051
603/821-7040; fax 603/821-7041
info@laser-components.com; www.lasercomponents.com

New Product: SI APD's are a "Perfect Match" to our Pulsed Laser Diodes at 850 nm & 905 nm.

Provides high power laser optics from 193nm to 10.6um. IR lead salt diode lasers (3-25 um) and SPECILAS selected diode lasers in the range of 750 to 2050nm, including VCSEL's and DFB's. Quantum Cascade Lasers and Flexpoint miniature laser modules. Glass polarizing filters, laser safety eyewear, fiberoptic assemblies and color sensors. Spectroscopic instrumentation including NIR SPECTROMETERS and Echelle spectrum analyzers. Avalanche Photo Diodes and Pulsed Laser Diodes. Contact: Gary Hayes, General Manager/Chief Executive Officer, hayes@laser-components.com; Valerie King, Sales/Marketing, king@laser-components.com.

Laser Focus World #409

SPIE Corporate Member

PennWell Publishing, 98 Spit Brook Rd, Nashua, NH, 03062-2810
603/891-0123; fax 603/891-0574
www.laserfocusworld.com

LASER FOCUS WORLD is a monthly magazine for engineers, researchers, scientists, and technical managers, providing comprehensive global coverage of optoelectronic and photonic technologies, applications and markets.

LEISTER Technologies, LLC #324

SPIE Corporate Member

1253 Hamilton Pkwy, Itasca, IL, 60143
630/760-1000; fax 630/760-1001
info@leisterusa.com; www.axetris.com

New Product: Microlens arrays for fiber collimation, optical switching, and laser diode collimation.

LEISTER Technologies develops and manufactures microlens arrays, diffractive optics and infrared sources. Our standard and OEM solutions include optics for Fiber Array Collimation (DWDM, MUX, OADM, OXC), Laser Diode Collimation (SAC, FAC, and Silicon lenses), Shack-Hartmann Sensors and Optical Switching. Optics available in fused silica, silicon, and polymer. In an ISO 9001:2000 certified process. Combined with 50 years of manufacturing experience, makes Swiss-based LEISTER a reliable supplier. Contact: John Vrakas, Optical Engineer, Leister - Axetris Microsystems Sales.

Logitech Product Group #419

24766 Detroit Rd, Westlake, OH, 44145
440/871-0071; fax 440/871-8188
info@logitech-us.com; www.logitech-us.com

Logitech manufactures high precision sawing, lapping and polishing equipment, as well as tailored research and small scale production systems for substrate back thinning, polishing GaAs, InP, Sapphire, Silicon, other semiconductor wafers, electro-optic crystals, ceramics, waveguides, laser rods and optical components. Logitech also offers a full range of polishing consumables for various applications. Visit our table #419 at Optics East 2006. Contact: Kristen Mallardi, Account Representative, kristen.mallardi@logitech-us.com; Keith Torrance, Executive Account Representative, keith.torrance@logitech-us.com.

Lumics GmbH #226

Carl-Scheele-Str 16, Berlin, Germany, 12489
49 30 678 06 76 20; fax 49 30 678 06 76 26
george.schaefer@lumics.com; www.lumics.com

New Product: 90W fiber bundle laser module at 915nm.

Lumics GmbH, based in Berlin, Germany is specialized in fiber coupled laser devices. The product range includes fiber coupled modules in 14-pin BTF, Mini DIL and TO220 designs and laser systems for the use in optical communication networks, analytical/medical instruments and industrial laser applications. The company is specialized in development and production of laser devices in the range from 800nm to 1100nm wavelength. Contact: Madlen Arend, Sales Assistant, Madlen.Arend@lumics.com.

Luminit Corp. #302

20600 Gramercy Pl #203, Torrance, CA, 90501
310/320-1066; fax 310/320-8067
www.luminitco.com

New Product: Glass-on-Glass Diffuser for High Power/High Temperature Applications.

Luminit is committed to offering our customers added value lighting design solutions that incorporate high brightness LEDs, innovative secondary optics and custom engineered diffusers. Luminit operates in a 25,000 square foot state-of-the-art facility housing engineering, holography labs and manufacturing floor. Luminit has commercial experience that covers areas including illumination system design, micro-optics, holography, mechanical design, optical process engineering and manufacturing. Contact: Suleyman Turgut, Global Sales Manager, sturgut@luminitco.com.

Luna Technologies #534

2020 Kraft Dr Ste 2000, Blacksburg, VA, 24060
540/961-5190; fax 540/961-5191
solutions@lunatechnologies.com; www.lunatechnologies.com

LUNA Technologies specializes in fiber-optic test equipment for component and module characterization and for distributed fiber-optic sensing. Our award-winning optical fiber test and measurement product line includes the Optical Vector Analyzer (OVA) and the Optical Backscatter Reflectometer (OBR): Integrated tools for loss, dispersion, polarization, distributed temperature and strain sensing, high-resolution OTDR analysis and inspection of fiber components, modules and networks. Contact: Jim Mirabile, Director of Sales and Support - Eastern US and Canada, mirabilej@lunatechnologies.com; Brian Soller, Business Unit Director, sollerb@lunatechnologies.com.

Matrix, Inc. #304

One Catamore Blvd, East Providence, RI, 02914
401/434-3040; fax 401/434-3822
scot@matrixinc.net; www.matrixincorporated.com

New Product: Micro-molded catheter tip for fiber optic device used for medical imaging.

Matrix Incorporated is a precision injection molder specializing in optics and light pipes, micro molding, insert molding for medical, defense, automotive and electronics applications. Matrix also provides device assembly, FDM rapid prototype service and mold flow analysis of 3D model part design. Contact: Scot MacGillivray, Account Manager; John Medgyesy, Vice President Sales, JSM@matrixinc.net.

Max Levy Autograph, Inc.

#400

SPIE Corporate Member

220 W Roberts Ave, Philadelphia, PA, 19144-4298
215/842-3675; fax 215/842-3637
sales@maxlevy.com; www.maxlevy.com

New Product: Max Levy Autograph introduces a multi-function target to test and characterize large format lenses.

Max Levy Autograph specializes in ultra-precision patterned optical components, NIST traceable metrology standards, metrology scales and calibration grids. Major capabilities provide component or artifacts within these products lines: Small optics and components, electroforming, calibration grid plates and services, photochemical etching, film products and micro-contouring/machining.

Meadowlark Optics, Inc.

#506

5964 Iris Pky, PO Box 1000, Frederick, CO, 80530
303/833-4333; fax 303/833-4335
sales@meadowlark.com; www.meadowlark.com

MEMS Optical Inc.

#528

SPIE Corporate Member

205 Import Cir, Huntsville, AL, 35806
256/859-1886; fax 256/858-5890
info@memsoptical.com; www.memsoptical.com

Welcome Reception/Poster Session Sponsor

Micro Photon Devices

#509

Via Stradivari 4 , Bolzano, Italy, 39100
514/694-0336; fax 514/694-8535
sales@optoelements.com; www.microphotondevices.com
Micro Photon Devices is the manufacturer of photon counting devices based on the technologies developed at Politecnico di Milano. Micro Photon Devices is also available to develop custom designs and specific applications related to photon counting detection technology. Contact: Nick Bertone, , Nick.Bertone@optoelements.com.

Moulded Optics GmbH

#413

Steinstr 13-15, Schoeffengrund, Germany, 35641
49 6445 6000 0; fax 49 6445 6000 40
info@mouldedoptics.com; www.mouldedoptics.com

New Product: Precision molded glass micro half-ball lenses in diameter sizes of 3mm, 4mm, 5mm and 6mm.

Moulded Optics GmbH will be displaying many types of precision molded glass optical components from 2mm to 100mm sizes including singlet, aspheric, bubble, cylindrical, fly's eye array, free form, fresnel, half-ball, light pipe, plano, prismatic and spherical lenses; concave first surface, flat, spherical and free form mirrors; dispersing, dove, penta, porro, roof and wedge prisms; ellipsoidal, multi-faceted, parabolic and prismatic reflectors; flat, free form and spherical windows. Contact: Martin Pfeil, Managing Director; Bruce Nielsen, Vice President, Mouldedoptics@aol.com.

MPA Crystal Corp.

#220

SPIE Corporate Member

1032 Irving St #968, San Francisco, CA, 94122
415/681-2185; fax 415/681-0787
pmpa@mpa-crystal.com; www.saifei.com

New Product: Sapphire optics, Quartz, Optical glass, Silica, Germanium and Coating.

Specializes in processing fine-precision crystal optics mainly made of sapphire and produced to customer's specs. Also provides optics made of Quartz, Optical glass, Fused silica, Single silica and Germanium. Coating is available as well. Products include Windows, Substrates, Lenses, Prisms, Rods, Spheres, Cylinders and more. Contact: Pauline Liang, Chief Executive Officer.

National Reconnaissance Office

#404

14675 Lee Rd, Chantilly, VA, 20151-1715
703/808-2769; fax 703/808-2646
dii@nro.mil; www.dii.westerfields.net

New Product: The National Reconnaissance Office's Director's Innovation Initiative.

The National Reconnaissance Office's Director's Innovation Initiative invests in advanced technologies, foster innovation and provides seed funding to push the boundaries of technology to dramatically improve our satellite reconnaissance capabilities. It presents an opportunity for developers not traditionally associated with the NRO to participate in building the National Reconnaissance Office of the 21st Century. Contact: Major Brian Oelrich, USAF, Program Manager.

NEOARK Corp.

#226

10-6 Chayamachi , Kita-Ku, Osaka, Japan, 530-0013
81 6 6371 3527; fax 81 6 6376 4560
osaka@neoark.co.jp; www.neoark.co.jp

NEOARK Corporation designs and produces high performance lasers and optical instruments for some of the most demanding applications worldwide. NEOARK products include acetylene stabilized diode lasers used as optical frequency reference standards, iodine stabilized helium neon lasers and other varieties of helium-neon lasers. Neoark also produces diode lasers, precision content gas cells and optical instruments. Please visit with questions and applications. Contact: Phil Barrows, neoark@bluehilloptical.com.

New England Fiberoptic Council

#502

PO Box 67228, Chestnut Hill, MA, 02467
617/548-6332; fax 617/507-6397
info@nefc.com; www.nefc.com

O/E Land Inc.

#421

4321 Garand, Saint-Laurent, QC, Canada, H4R 2B4
514/334-4588; fax 514/334-0216
info@o-eland.com; www.o-eland.com

Exhibitor Directory

Tuesday/Wednesday Dessert/Coffee Break Sponsor

Ocean Optics, Inc. #405

SPIE Corporate Member

830 Douglas Ave, Dunedin, FL, 34698-5761
727/733-2447; fax 727/733-3962
info@oceanoptics.com; www.oceanoptics.com

New Product: The USB4000 spectrometer has enhanced electronics, improved resolution & faster integration times.

Ocean Optics, is the leader in optical sensing and spectroscopy solutions. We are expanding the frontiers of optical sensing, making it an innovative foundation where life-changing ideas are built. With diverse applications in chemistry, biological research, environmental monitoring and education, our extensive line of complementary technologies include spectrometers, sampling accessories, sensors and optics. Visit our website, OceanOptics.com for more information. Contact: Ocean Optics Application Scientists; Ocean Education, Education@OceanOptics.com.

OFS—Specialty Photonics Div. #424

SPIE Corporate Member

55 Darling Dr, Avon, CT, 06001
860/678-0371; fax 860/674-8818
info@specialtyphotonics.com; www.specialtyphotonics.com

OFS Specialty Photonics Division is the global leader in specialty optical fiber and specialty optical fiber based devices development and manufacturing. Its products enable everything from eye surgery to optical networks on military aircraft to ultra long haul DWDM and metro telecom networks. OFS has a proven track record of being first in the industry with application specific fibers, optical connectors, ribbon cables, erbium doped fibers, Raman fiber lasers and more. Contact: Pete Suttmeier, Account Executive, psuttmeier@ofsophotonics.com; John Earnhardt, Sales Manager, jearnhardt@ofsophotonics.com.

Olympus Micro Imaging #301

One Corporate Dr, Orangeburg, NY, 10962
845/398-9400; fax 845/398-9443
www.olympusmicroimaging.com

ONTAR Corp. #520

SPIE Corporate Member

9 Village Way, North Andover, MA, 01845-2000
978/689-9622; fax 978/681-4585
sales@ontar.com; www.ontar.com

Optical Society of America #504

2010 Massachusetts Ave NW, Washington, DC, 20036
202/223-8130; fax 202/223-1096
custserv@osa.org; www.osa.org

Optics for Hire #525

SPIE Corporate Member

455 Massachusetts Ave, Arlington, MA, 02474
781/583-7810; fax 781/583-7812
info@opticsforhire.com; www.opticsforhire.com

Poster Session/Welcome Reception Sponsor

OptoElectronic Components #509

SPIE Corporate Member

28 Des Lilas, Kirkland, QC, Canada, H9J 4A7
514/694-0336; fax 514/694-8535
nick.bertone@optoelectronics.com; www.optoelectronics.com

Specialist in Photon Counting Detection. OEC offers: Photon Counting Detectors with high photon detection efficiencies, low dark counts and less than 50ps timing resolution from Micro-Photon-Devices, EM-CCD and intensified CCD with near Photon Counting capabilities from Phonic-Science and TCSPC electronics from Picoquant. Contact: Nick Bertone, President, nick.bertone@optoelectronics.com; Natalie Raymond, Marketing, natalie.raymond@optoelectronics.com.

OptoHub Co., Ltd. #303

305 Live Tower Musashi Urawa, 7-6-8 Bessho Minami-Ku Saitama-Shi, Saitama, Japan, 336-0021
81 48 844 8899; fax 81 48 844 8902
info@optohub.com; www.optohub.com

New Product: High power 980 nm laser diode pump.

Specialty optical devices and precision packaging for telecom, instrumentation, medical and industrial markets. Capabilities include: precision optical mounting, alignment of filters, collimators and lenses; integration of laser diodes and photodiodes, and optical beam coupling. Standard products include: erbium doped fiber amplifiers, laser diodes and thin film filters for local access, DWDM and CWDM applications. Contact: Andy Spector, Consultant, andy@amsphotonics.com.

Optometrics Corp. #312

8 Nemco Way, Ayer, MA, 01432
978/722-1700; fax 978/772-0017
sales@optometrics.com; www.optometrics.com

Optometrics is a worldwide supplier of high quality components including gratings, filters, laser optics, monochromators and specialized optical systems and software.

PerkinElmer Life & Analytical Sciences #426

710 Bridgeport Ave, Shelton, CT, 06484
203/925-4600
productinfo@perkin-elmer.com; www.perkinelmer.com

PerkinElmer is a global technology leader providing products and services to customers in health sciences and other advanced technology markets that require innovation, precision and reliability. We provide scientific instruments, consumables and services to the pharmaceutical, biomedical, environmental testing and industrial markets. We have a broad global sales and service network, with approximately 2,500 representatives operating in 45 countries, and marketing its products in 125 countries. Contact: Jennifer Swift, Event Specialist, Territory Marketing, jennifer.swift@perkinelmer.com.

Photon Engineering, LLC

#500

SPIE Corporate Member

440 S Williams Blvd Ste 106, Tucson, AZ, 85711
520/733-9557; fax 520/733-9609
info@photonengr.com; www.photonengr.com

New Product: Our new FRED Turbo edition features multi-threading algorithms to raytrace faster on multiple CPUs.

FRED 5.90 is the premier proven optical engineering software to visualize and solve today's leading edge optical engineering problems. FRED is an easy to use 3D virtual prototyping CAD environment that reduces time and costs to develop and prototype new products and find problems and revise older products. Import or create any CAD model directly in FRED and then propagate incoherent rays or coherent beams reflecting, refracting, scattering, diffracting or absorbing light at any surface. Contact: Donna Hart, Sales Manager, donnah@photonengr.com; Carolyn Johnson, Sales Manager, carolynj@photonengr.com.

Photonics Online

#526

5 Walnut Grove Ste 320, Horsham, PA, 19044
215/675-1800; fax 215/675-4880
erupp@vertmarkets.com; www.photonicsonline.com

New Product: With our FREE newsletter, you'll get the latest news, product offerings and industry updates.

Photonics Online — Where the future of photonics is found. Contact: Ed Rupp, Publisher.

Photonics Spectra - Laurin Publishing

#316

Berkshire Common, 2 South St, Pittsfield, MA, 01201-6109
413/499-0514; fax 413/442-3180
photonics@laurin.com; www.photonics.com

Photonics Spectra is the leading photonics magazine serving industries that use photonic technology: Lasers, imaging, fiber optics, optics, electro-optics and photonic component manufacturing. It presents the latest news articles and in-depth reports on photonics technology. It is distributed free to those who use or apply photonics.

PI (Physik Instrumente) LP

#411

SPIE Corporate Member

16 Albert St, Auburn, MA, 01501
508/832-3456; fax 508/832-0506
info@pi-usa.us; www.pi-usa.us

The global leader in ultrahigh-precision motion control, providing the largest selection of high-dynamics nanopositioning & scanning systems and piezoelectric actuators for OEM and research. Superior quality, ISO9001 certified since 1994, 30+ years experience, custom designs. EU-certified electronics, global support. Contact: James Gareau, Director of Sales East Region; David Steinberg, Director of Sales West Region.

Welcome Reception/Poster Session Sponsor

PicoQuant GmbH

#509

Rudower Chaussee 29, Berlin, Germany, 12489
514/694-0336; fax 514/694-8535

sales@optoelements.com; www.picoquant.com
PicoQuant is the leading supplier of picosecond pulsed diode lasers and intensity modulated diode lasers up to the GHz range and instrumentation for time-correlated single photon counting. Based on these core technologies, PicoQuant also builds complete systems for fluorescence lifetime measurements in sensitive analysis down to the single molecule. Contact: Nick Bertone, Nick.Bertone@optoelements.com.

Polymicro Technologies LLC

#317

SPIE Corporate Member

18019 N 25th Ave, Phoenix, AZ, 85023-1200
602/375-4100; fax 602/375-4110
sales@polymicro.com; www.polymicro.com

Polymicro manufactures multimode, step-index fused silica optical fibers with polyimide, acrylate and silicone buffers; non-solarization optical fibers; IR hollow silica waveguides; broad spectrum fibers; fiber optic cables and assemblies; high strength, high temperature flexible fused silica capillaries; square capillaries; light guiding capillaries; custom precision silica and quartz rod and tubing pieces; custom shaped rod and tubing; multilumen tubing; telecom ferrules and sleeves.

Power Technology, Inc.

#318

SPIE Corporate Member

PO Box 191117, Little Rock, AR, 72219-1117
501/407-0712; fax 501/407-0036
sales@powertechnology.com; www.powertechnology.com

Precision Optics Corp.

#524

SPIE Corporate Member

22 E Broadway, Gardner, MA, 01440
800/447-2812; fax 978/630-1487
info@poci.com; www.poci.com

New Product: Lenses & prisms to sizes as small as .1mm using our proprietary micro-precision™ technology.

For 25 years, Precision Optics Corporation has provided cutting edge optics for medical and industrial applications. Only at Precision Optics is there under one roof the ability to design, prototype, and manufacture in house custom micro optical systems & components for imaging of the body's smallest compartments and tissues including lenses, prisms, thin films coatings, optical assemblies, endoscopes, stereoendoscopes, beamsplitters, couplers, camera adapters and fiber optic assemblies. Contact: Chuck Gerlowski, Director of Business Development, cgerlowski@poci.com.

Rainbow Research Optics, Inc.

#516

SPIE Corporate Member

4880 Ironton St Unit K, Denver, CO, 80239
303/371-3000; fax 303/371-1333
a.skaggs@rroptics.com; www.rainbowoptics.com

Raylase AG

#226

Argelsrieder Feld 2-4, Wessling, Germany, 82234
49 8153 8898 0; fax 49 8153 8898 10
info@raylase.de; www.raylase.de

General Refreshment Sponsor

RMI Rocky Mountain Instrument

#322

SPIE Corporate Member

106 Laser Dr, Lafayette, CO, 80026
303/664-5000; fax 303/664-5001
sales@rmico.com; www.rmico.com

Exhibitor Directory

RoMack, Inc.

#310

SPIE Corporate Member

PO Box 615, Lightfoot, VA, 23090
757/258-4805; fax 757/258-4694
contact@romackfiberoptics.com; www.romackfiberoptics.com



Conference Bag Insert Sponsor

RSoft Design Group

#216

SPIE Corporate Member

400 Executive Blvd Ste 100, Ossining, NY, 10562
914/923-2164; fax 914/923-2169
info@rsoftdesign.com; www.rsoftdesign.com

New Product: RSoft Component Design Suite for communications, optoelectronics and semiconductor manufacturing.

RSoft is the worldwide leader in photonics design automation software and serves several industries including optical communication, optoelectronics and semiconductor manufacturing. Within optical communications, RSoft has a full range of design, optimization and planning tools. RSoft also provides award-winning design tools for passive and active optoelectronics components and subsystems as well as advanced electromagnetic modeling software for optical metrology and lithography. Contact: Zhengyu Huang, Vice President Sales and Business Development, zhengyu@rsoftdesign.com; Enrico Ghillino, Product Manager, Optical Systems, enrico@Rsoftdesign.com.

Santec

#319

433 Hackensack Ave, Hackensack, NJ, 07601
201/488-5505; fax 201/488-7702
info@santec.com; www.santec.com

Santec is a leading manufacturer of Optical Components, Tunable Lasers and Optical Light Sources and Optical Test and Measurement Products. Optical Components include Variable Attenuators, Tap Photodetectors, Wavelength Lockers, WDM filters, Mux/Demux products, etc. Test and Measurement Products include Benchtop Tunable Lasers, Tunable Filters, Ultra-Wide Band Sources and more. Contact: Max Chang, Sales Engineer, Eastern USA, max@santec.com; Jonathan Evans, Sales Engineer, Western USA, jonathan@santec.com.

SensL

#226

SPIE Corporate Member

Lee House Riverview Business Park, Bessboro Rd, Blackrock Cork, Ireland,
353 21 4350442 ; fax 353 21 4350447
sales@sensl.com; www.sensl.com

Servometer/PMG, LLC

#406

SPIE Corporate Member

501 Little Falls Rd, Cedar Grove, NJ, 07009-1291
973/785-4630; fax 973/785-0756
info@servometer.com; www.servometer.com

SML Products Inc.

#323

SPIE Corporate Member

240 Simpson Ave S, Bowmanville, ON, Canada, L1C 2J3
905/697-0504; fax 905/697-2165
info@smlproducts.com; www.smlproducts.com

Spectroscopy Magazine

#307

Advanstar Communications, Bldg F 1st Fl 485 Route 1 South, Iselin, NJ, 08830
732/596-0276; fax 732/596-0003
www.spectroscopymag.com

Spectrum Thin Films Corp.

#226

SPIE Corporate Member

100 Knickerbocker Ave, Bohemia, NY, 11716
631/589-3502; fax 631/589-3514
info@spectrumthinfilms.com; www.spectrumthinfilms.com

New Product: IBS Sputtering Chamber, IR Spectrophotometer by Perkin Elmer, Thin Film Express, Optics Express.

As a leading manufacturer of high quality optics and optical coatings, we are committed to customer satisfaction. We serve a diverse range of customers from optical manufacturers, research organizations, laser manufacturers, NASA, medical industries and the military. With changing times our philosophy is "Just in Time Optics" featuring Thin Films Express and Optics Express. We can handle your job in a fast cost effective manner to meet your most demanding needs. Contact: Wayne Griffith, Sales & Marketing Manager, wayne@spectrumthinfilms.com; Harry Sudwischer, Technical Sales, harry@spectrumthinfilms.com.

SPIE Industry Resources

#223

PO Box 10, Bellingham, WA, 98227
360/676-3290; fax 360/647-1445
http://spie.org

SPIE provides valuable resources to industry that support your marketing, R&D, training and recruiting efforts. For example, exhibitions, advertising and sponsorships increase visibility of your organization and help you educate the market about your offerings. Access to scientific and engineering information published in the SPIE Digital Library and on the SPIE Newsroom help your R&D team to discover the innovations and breakthroughs that lead to successful new products. Leadership in this fast-evolving, knowledge-driven environment requires continuous learning and education of technical staff to retain your competitive advantage, making SPIE In-Company Training invaluable. And when growth drives demand for new skilled employees, the SPIEWorks job site is the place to find the specialized talent you want to hire.

Steinmeyer, Inc.

#308

217 Middlesex Tpke, Burlington, MA, 01803
781/273-6220; fax 781/273-6602
jskaltsas@steinmeyer.com; www.steinmeyer.com

Steinmeyer manufactures precision ground and rolled ball screws, in diameters from 3mm up to 125mm, with pitches from 0.5mm to 80mm. Our ball screws are available with single nuts, with or without preload and double nuts. All screws are manufactured to ISO/DIN standards or custom design. Steinmeyer also offers an extensive line of precision linear and rotary stages with and without controls.

StellarNet, Inc.

#218

SPIE Corporate Member

14390 Carlson Cir, Tampa, FL, 33626
813/855-8687; fax 813/855-0394
contactus@stellarnet.us; www.stellarnet.us

New Product: 1. Dual-DSR spectrometer covers super range 200-1700nm,

2. NIRX-SR spectrometer covers 900-2200nm.

StellarNet manufactures extremely rugged UV-VIS and NIR spectroradiometers for measurements in the Lab or Field. Since 1995 we've been shipping portable instrumentation that delivers high S/N performance at a surprisingly low cost. Our flagship EPP2000C concave grating spec provides superb optical imaging with ultra low stray light that is comparable to high end systems costing thousands \$ more. SpectraWiz software enables a variety optical & light measurements. Contact: Ryan Flaherty, Principal Scientist, Instrument Sales, Ryan@StellarNet.us; Will Pierce, Chief Scientist, Instrument Sales, wPierce@StellarNet.us.

Strasbaugh

#522

SPIE Corporate Member

825 Buckley Rd, San Luis Obispo, CA, 93401
805/541-6424; fax 805/541-6425
csc@strasbaugh.com; www.strasbaugh.com

For over 50 years, STRASBAUGH has manufactured precision polishing systems, curve generators, edging machines and sawing equipment for the optics industry. Headquartered in San Luis Obispo, California with sales and service offices throughout the world, STRASBAUGH is proud to provide solutions for the photonics, aerospace, defense, telecommunications and semiconductor industries. Contact: Scott Riedinger, Sales Account Manager, sriedinger@strasbaugh.com; Gerard Pardeilhan, Optics Product Manager, gpardeilhan@strasbaugh.com.

Taylor & Francis

#422

325 Chestnut St Ste 800, Philadelphia, PA, 19106
215/625-8900; fax 215/625-2940
www.taylorandfrancis.com
Contact: Rachel Zawada, Exhibits Coordinator,
rachel.zawada@taylorandfrancis.com.

tec5USA, Inc.

#325

SPIE Corporate Member

80 Skyline Dr, Plainview, NY, 11803
516/653-2000; fax 516/939-0555
info@tec5USA.com; www.tec5USA.com

New Product: Fast InGaAs Photodiode Array Electronics for Higher Efficiency.

High-quality products for spectroscopy, light sources, light guides, immersion probes, spectrometer modules, operating electronics. Spectrometer systems for multiple applications in lab or process, e.g. concentration, filter transmission, color, thin film thickness. Optical instrumentation as remote control biomass detection systems. Various software support. Custom designed components and systems. Detector array electronics, CCD electronics, spectrometer, light guides, spectrometer systems. Contact: Gert Noll, General Manager, gert.noll@tec5usa.com; Arek Betlej, Technical Support Assistant, arek.betlej@tec5usa.com.

Tecan Ltd.

#230

Tecan Way, Granby Industrial Estate, Weymouth Dorset, United Kingdom, DT4 9TU
44 1305 765432; fax 44 1305 780194
sales@tecan.co.uk; www.tecan.co.uk

Technical Manufacturing Corp.

#417

15 Centennial Dr, Peabody, MA, 01960
978/532-6330; fax 978/532-2241
sales@techmfg.com; www.techmfg.com

Teem Photonics

#226

61 Chemin du Vieux Chene, Meylan, France, 38246
33 476 04 05 06; fax 33 476 04 03 02
sales@teemphotonics.com; www.teemphotonics.com

U.S. Naval Research Lab.

#429

Code 1004.1, Washington, DC, 20375
202/404-2307; fax 202/767-1319
exhibits@utopia.nrl.navy.mil; www.nrl.navy.mil

NRL established an Institute for Nanoscience at its main site in Washington, DC to conduct multidisciplinary research at the intersections of the fields of materials, chemistry, electronics and biology. The Institute is seen as the venue to bring together expertise from different disciplines in order to identify and exploit those cross-disciplinary opportunities which had not been previously accessible. Highlighted in the NRL booth are the facilities and recent accomplishments of the Institute. Contact: Richard Colton, Director, NRL's Institute for Nanoscience, rich.colton@nrl.navy.mil.

Varian, Inc.

#410

SPIE Corporate Member

3120 Hansen Way, Palo Alto, CA, 94304
800/926-3000
custcare@varianinc.com; www.varianinc.com

Varian, Inc. will be displaying recent advances in UV-Vis NIR through Mid Infrared Spectroscopy products. The Cary 6000i is unmatched in performance, accessories and software for the most demanding researcher. A performance FT-IR with reflectance and transmission accessories will also be on display. Visit with our applications specialist to discuss your measurement needs. Contact: Jim Steensrud, UV Product Specialist, jim.steensrud@varianinc.com.

Vigo Systems S.A.

#401

3 Swietlikow Str, Warszawa, Poland, PL-01-389
48 22 666 1410; fax 48 22 666 2155
info@vigo.com.pl; www.vigo.com.pl

Manufacturer of stock and custom MCT IR detectors both TE cooled and uncooled with single and multiple elements. Fast detectors for laser diagnostics. Sensitive detectors for analytical instruments. Contact: Jim Melnyk, Applications Engineer, melnyk@boselec.com.

Exhibitor Directory

Vision Systems Design

#408

98 Spit Brook Rd, Nashua, NH, 03062-2810
603/891-0123; fax 603/891-0587
www.vision-systems.com

VISION SYSTEMS DESIGN is a global media source serving engineers and engineering managers at OEMS, system integrators and end-user organizations that design, develop, manufacture and integrate components and subsystems for vision and imaging-based systems.

Xi'an Huanic Corp.

#313

No 67 Jinye Rd Hi-tech Zone, No 25 Gaoxin 1st Rd, Xi'an Shaanxi, China, 710077
86 29 81881001; fax 86 29 81881011
wenhui@huanic.com

New Product: Laser distance measuring instrument, compact holographic sight and laser gun sight.

Huanic Corporation specialized in designing and manufacturing industrial laser modules and controlling circuitry for instrument. The company is also an OEM manufacturer. The main products are: Laser module, industrial ASIC laser module, laser diode driver, laser power supply and laser optical lens. The annual capacity of the high delicate laser module is more than 2.400.000 pcs, the laser instrument is 400,000 and the optical lens for laser module is 5.000.000 pcs. Contact: Dimitry Fedorov, President, pyroartist@hotmail.com; Phil Jankowski, Senior Buyer, Phil.Jankowski@AlconLabs.com.

ZEMAX Development Corp.

#300

3001 112th Ave NE Ste 202, Bellevue, WA, 98004-8017
425/822-3406; fax 425/889-4687
sales@zemax.com; www.zemax.com

ZEMAX Development Corporation publishes the ZEMAX Optical Design Program which can be used for both sequential and non-sequential ray tracing. Our software can be used to conceptualize, design, optimize, analyze, tolerance and document virtually any optical system. ZEMAX also goes beyond the traditional limits of ray tracing software by allowing users to use diffraction calculations to propagate any arbitrary beam through an optical system. Contact: Sales Department; Technical Support, support@zemax.com.

Product Categories

Astronomy

Applied Surface Technologies
Electron Tubes
Fairfield Crystal Technology, LLC
Hinds Instruments, Inc.
O/E Land Inc.
OptoElectronic Components
Photon Engineering, LLC
Photonics Online
Polymicro Technologies LLC
Santec

Cameras and CCD Components

Angstrom Sun Technologies Inc.
Applied Surface Technologies
Edinburgh Instruments Ltd
Hamamatsu Corp.
Hellma International, Inc.
LEISTER Technologies, LLC
National Reconnaissance Office
Ocean Optics, Inc.
Photonics Online
tec5USA, Inc.

Chemical & Biological Sensing

Ahura Corporation
Alpes Lasers
Angstrom Sun Technologies Inc.
Electron Tubes
Fairfield Crystal Technology, LLC
Headwall Photonics, Inc.
LASER COMPONENTS IG, Inc.
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
Photon Engineering, LLC
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
RSoft Design Group
Santec

Clinical, Chemical and Biological Instrumentation

Ahura Corporation
Alpes Lasers
Becker & Hickl GmbH
Boston Electronics Corp.
Hellma International, Inc.
LASER COMPONENTS IG, Inc.
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
Santec
tec5USA, Inc.

Communications

Fiberguide Industries, Inc.
Headwall Photonics, Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
National Reconnaissance Office
OFS-Specialty Photonics Div.
OptoElectronic Components
Photon Engineering, LLC
Photonics Online
Polymicro Technologies LLC
RSoft Design Group

Displays

Angstrom Sun Technologies Inc.
LASER COMPONENTS IG, Inc.
Luminit Corp.
Photon Engineering, LLC
Photonics Online

Distributor or Reseller

Boston Electronics Corp.
LASER COMPONENTS IG, Inc.
O/E Land Inc.
Ocean Optics, Inc.
Photonics Online

Electron-Beam Lithography

Fairfield Crystal Technology, LLC
IntIVac
LASER COMPONENTS IG, Inc.
Max Levy Autograph, Inc.
Photonics Online

Electronic Imaging Components, Equipment, Systems

Angstrom Sun Technologies Inc.
ChemImage
Headwall Photonics, Inc.
Hinds Instruments, Inc.
LASER COMPONENTS IG, Inc.
Ocean Optics, Inc.
Photonics Online

Electronics, Signal Analysis Equipment

Angstrom Sun Technologies Inc.
Becker & Hickl GmbH
Edinburgh Instruments Ltd
Electron Tubes
Hellma International, Inc.
Photonics Online
tec5USA, Inc.

EUV Lithography

ASML Optics LLC
Luminit Corp.
Photonics Online
RSoft Design Group

Fiber Optic Components, Equipment, Systems

Ahura Corporation
Angstrom Sun Technologies Inc.
Applied Surface Technologies
Headwall Photonics, Inc.
Hellma International, Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
Logitech Product Group
Ocean Optics, Inc.
OFS - Specialty Photonics Div.
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
RSoft Design Group
Santec
Steinmeyer, Inc.
tec5USA, Inc.

Product Categories

Finished Optics, Filters, & Coatings, Optical Fabrication Equipment

Angstrom Sun Technologies Inc.
Fairfield Crystal Technology, LLC
Headwall Photonics, Inc.
Hellma International, Inc.
LASER COMPONENTS IG, Inc.
Logitech Product Group
Luminit Corp.
Max Levy Autograph, Inc.
Moulded Optics GmbH
O/E Land Inc.
Ocean Optics, Inc.
Optometrics Corp.
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
Santec

High Speed Imaging and Sensing

Angstrom Sun Technologies Inc.
ChemImage
Hamamatsu Corp.
Headwall Photonics, Inc.
Hinds Instruments, Inc.
LASER COMPONENTS IG, Inc.
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
Photonics Online
Santec
tec5USA, Inc.

Illumination Engineering

Angstrom Sun Technologies Inc.
Lambda Research Corp.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
Luminit Corp.
Ocean Optics, Inc.
Photon Engineering, LLC
Photonics Online
Santec

Infrared Sources, Detectors, Systems

Alpes Lasers
Angstrom Sun Technologies Inc.
Boston Electronics Corp.
Hamamatsu Corp.
id Quantique SA
International Light Technologies Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
Photon Engineering, LLC
Photonics Online
Santec
Vigo Systems S.A.
Xi'an Huanic Corp.

Ion-Beam Lithography

IntIVac
Photonics Online

Lasers and Other Light Sources, Laser Accessories, Laser Systems

Ahura Corporation
Becker & Hickl GmbH
Boston Electronics Corp.
ChemImage
Edinburgh Instruments Ltd
Fairfield Crystal Technology, LLC
Hellma International, Inc.
International Light Technologies Inc.
LASER COMPONENTS IG, Inc.
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
Photon Engineering, LLC
Photonics Online
Polymicro Technologies LLC
RSoft Design Group
Santec
Xi'an Huanic Corp.

Law Enforcement Technologies

Ahura Corporation
Headwall Photonics, Inc.
LASER COMPONENTS IG, Inc.
O/E Land Inc.
Ocean Optics, Inc.
Photonics Online
Polymicro Technologies LLC

Life Sciences

Angstrom Sun Technologies Inc.
Becker & Hickl GmbH
Fiberguide Industries, Inc.
Headwall Photonics, Inc.
Hellma International, Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
PerkinElmer Life & Analytical Sciences
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
Santec
Steinmeyer, Inc.

Metrology, Inspection and Process Control

Angstrom Sun Technologies Inc.
Electron Tubes
Headwall Photonics, Inc.
Hinds Instruments, Inc.
Luminit Corp.
Max Levy Autograph, Inc.
O/E Land Inc.
Ocean Optics, Inc.
Photonics Online
Santec
tec5USA, Inc.

Nanotechnology

Angstrom Sun Technologies Inc.
Applied Surface Technologies
ChemImage
Headwall Photonics, Inc.
Logitech Product Group
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
Photonics Online
PI (Physik Instrumente) LP
Polymicro Technologies LLC
RSoft Design Group
Steinmeyer, Inc.
U.S. Naval Research Lab.

Non-Optical Lithography

Luminit Corp.
Photonics Online

Optical Components

Ahura Corporation
Angstrom Sun Technologies Inc.
ChemImage
Fairfield Crystal Technology, LLC
Hamamatsu Corp.
Headwall Photonics, Inc.
Hellma International, Inc.
Hinds Instruments, Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
Luminit Corp.
Max Levy Autograph, Inc.
Moulded Optics GmbH
O/E Land Inc.
Ocean Optics, Inc.
OFS - Specialty Photonics Div.
OptoElectronic Components
Optometrics Corp.
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
RSoft Design Group
Santec
Steinmeyer, Inc.

Optical Detectors

Ahura Corporation
Edinburgh Instruments Ltd
Electron Tubes
Hamamatsu Corp.
Headwall Photonics, Inc.
Hellma International, Inc.
Hinds Instruments, Inc.
id Quantique SA
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
Photonics Online
RSoft Design Group
Santec
tec5USA, Inc.
Vigo Systems S.A.

Optical Fibers

Angstrom Sun Technologies Inc.
Applied Surface Technologies
Hellma International, Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
OFS - Specialty Photonics Div.
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
RSoft Design Group
tec5USA, Inc.

Optical Materials and Substrates

Dynasil Corp.
Fairfield Crystal Technology, LLC
LASER COMPONENTS IG, Inc.
Logitech Product Group
Luminit Corp.
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
Optometrics Corp.
Photonics Online
RSoft Design Group

Optical Test and Measurement Equipment, Interferometer

Angstrom Sun Technologies Inc.
Applied Surface Technologies
ASML Optics LLC
Hinds Instruments, Inc.
LASER COMPONENTS IG, Inc.
Logitech Product Group
O/E Land Inc.
Ocean Optics, Inc.
Photonics Online
PI (Physik Instrumente) LP
Santec
Steinmeyer, Inc.
tec5USA, Inc.

Optical/Laser Microlithography

ASML Optics LLC
Fairfield Crystal Technology, LLC
Hinds Instruments, Inc.
Luminit Corp.
Max Levy Autograph, Inc.
National Reconnaissance Office
Photonics Online
RSoft Design Group
Steinmeyer, Inc.
Xi'an Huanic Corp.

Product Categories

Optics Manufacturing

Applied Surface Technologies
ASML Optics LLC
Fairfield Crystal Technology, LLC
Headwall Photonics, Inc.
Hellma International, Inc.
International Light Technologies Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
Luminit Corp.
Moulded Optics GmbH
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
Optometrics Corp.
Photonics Online
Polymicro Technologies LLC
Precision Optics Corp.
Santec
Strasbaugh
Xi'an Huanic Corp.

Photonics Equipment Manufacturer

Angstrom Sun Technologies Inc.
Electron Tubes
Headwall Photonics, Inc.
Hellma International, Inc.
LEISTER Technologies, LLC
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
Photonics Online
Strasbaugh
Xi'an Huanic Corp.

Resist Technology and Processing

Photonics Online

Sensor & Sensor Systems

Ahura Corporation
Angstrom Sun Technologies Inc.
Electron Tubes
Headwall Photonics, Inc.
Hellma International, Inc.
id Quantique SA
International Light Technologies Inc.
LASER COMPONENTS IG, Inc.
LEISTER Technologies, LLC
National Reconnaissance Office
O/E Land Inc.
Ocean Optics, Inc.
OptoElectronic Components
Photon Engineering, LLC
Photonics Online
Polymicro Technologies LLC
RSoft Design Group
tec5USA, Inc.

Services and Publications (Including Professional Societies)

Angstrom Sun Technologies Inc.
OptoElectronic Components
Photonics Online
Photonics Spectra - Laurin Publishing
Taylor & Francis

Software

Angstrom Sun Technologies Inc.
ChemImage
Lambda Research Corp.
O/E Land Inc.
Ocean Optics, Inc.
Photon Engineering, LLC
Photonics Online
RSoft Design Group
tec5USA, Inc.
ZEMAX Development Corp.

Vacuum, Cooling, Gas Handling Equipment

LASER COMPONENTS IG, Inc.
Photonics Online

X-Ray Lithography

Applied Surface Technologies
Luminit Corp.
Photonics Online
RSoft Design Group
Steinmeyer, Inc.

General Information

Exhibition Hours

Hynes Convention Center, 1st Floor, Hall A

Tuesday, 3 October 10:00 am to 5:00 pm
Wednesday, 4 October 10:00 am to 4:00 pm

Registration and Information Hours

Hynes Convention Center, 1st Floor, Hall A

Sunday 1 October 7:00 am to 5:00 pm
Monday 2 October 7:30 am to 5:00 pm
Tuesday 3 October 7:30 am to 5:00 pm
Wednesday 4 October 7:30 am to 4:00 pm

For safety and security reasons, please be prepared to show a picture ID at Registration to receive your event badge.

Audio/Video/Digital Recording Policy

In the Meeting Room: For copyright reasons, recordings of any kind are strictly prohibited without prior written consent of the presenter in any conference session, short course or of posters presented. Each presenter being taped must file a signed written consent form. Individuals not complying with this policy will be asked to leave a given session and asked to surrender their film or recording media. Consent forms are available at the SPIE Audiovisual Desk.

In the Exhibition Hall: For security and courtesy reasons, photographing or videotaping individual booths and displays in the exhibit hall is allowed ONLY with explicit permission from on-site company representatives. Individuals not complying with this policy will be asked to surrender their film and to leave the exhibit hall.

Parking

Hynes Convention Center Parking

Within a three-block walk of the Hynes Convention Center are numerous parking garages totaling over 4,400 spaces. There is limited meter parking available around the Hynes and adjacent streets. Check the website www.massconvention.com for further parking garages.

The Sheraton Boston Hotel Parking Garage, 39 Dalton Street, operated by Auditorium Parking (617) 247-8006, is located across from the John B. Hynes Convention Center.

Cash or credit cards accepted and a parking attendant is on duty 24 hours/day.

Rates: \$4 for each half hour or:

Arrive 3:00 am -8:30 am & leave before 6:00 pm, \$17 Maximum
Arrive after 8:30 am & leave before 6:00 pm, \$22 Maximum
Arrive after 8:30 am & leave after 6:00 pm, \$26 Maximum, (24 hour rate)
Arrive after 4:00 pm & leave before 6:00 am, \$10 Maximum
Rates are subject to change.

Prudential Center Parking Garage, 800 Boylston Street (617) 236-3060
Cash or credit cards accepted and a parking attendant is on duty 24 hours/day. Rates: \$6 for 1/2 hour, \$9 for 1 hour, \$17 for 1 1/2 hours, \$24 for 2 hours, \$30 for 3 hours, \$38 for 4-10 hours, overnight \$38. Rates are subject to change.

Guest Parking at the Boston Marriott Copley Place

Valet Parking \$39 per 24-hour period, with unlimited in/out privileges
Can be charged to the guest's room. Prices are subject to change without notice, and parking is based on availability.

Parking at The Copley Place Mall Complex

Self Parking Only - 3 Hours or less \$7 with validated ticket from any store in complex \$32 per 24-hour period. Cash and credit cards accepted - no checks.

Taxi Service: Taxi service is available 24 hours. Approximate travel time between Logan Airport and the Marriott Copley Place Hotel is 20 - 25 minutes depending on traffic. Taxi fare is approximately \$30.

Internet Pavilion

Hynes Convention Center, Pre-function Hall A

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Booth #320

Open during registration hours.

Internet access terminals will allow attendees to access their e-mail during the conference. There will be a 10-minute time limit per each person's internet session.

Wireless

Hynes Convention Center and Boston Marriott Copley Place

The Hynes Convention Center offers complimentary wireless access. Boston Marriott Copley Place offers wireless access on the 1st floor and in the lobby is charged as follows; \$2.95 to connect and 25 cents per minute thereafter. This is only available to wireless computers. There is no wired access available. Rates are subject to change. Please direct questions to the Marriott business center.

Messages for Attendees

Hynes Convention Center, Pre-function Hall A

Messages for attendees at the Optics East Symposium can be left by calling the Hynes Convention Center at (617) 954-2000 and asking for the SPIE Registration Desk. Messages will be taken during registration hours Sunday through Wednesday. Attendees should check the message board at the message center on a daily basis to receive their messages.

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Coffee Breaks

Served in the Exhibition Hall

Tuesday and Wednesday 10:00 to 11:00 am; 3:00 to 4:00 pm

Coffee will be served during the morning and afternoon break. Please check the individual technical conference listings for exact times.

Desserts

Desserts will be served in the Exhibition Hall

Tuesday and Wednesday 3:00 to 3:30 pm.

Tuesday & Wednesday Dessert/Coffee Breaks sponsored by



Booth #405

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Child Care Services

The following child care facilities were suggested by the Boston Marriott Copley Place Hotel. SPIE does not imply an endorsement nor recommendation of these services. They are provided on an “information only” basis for your further analysis and decision. Other services may be available.

Best Babysitter: www.bbbabysitters.com; Phone: (617) 268-7148
Fax: (617) 269-3307; Email: jennifer.garnache@bbbabysitters.com
Parents in a Pinch: Phone: (617) 739-5437, Fax: (617) 739-1939
Toll Free outside MA: 1-800-688-4697; www.parentsinapinch.com
Email: TempCare@parentsinapinch.com

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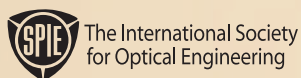
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