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About SPIE
SPIE is a not-for-profit international society dedicated to furthering technological innovations. Established in 1955, SPIE has a long history of producing international meetings that push the forefront of photonics technologies and their applications.

About APOMA
The American Precision Optics Manufacturers Association represents a broad base of precision optics manufacturers and supporting industries whose mutual interest is to expand and advance optics manufacturing technology. The 150-member organization promotes regional educational centers for the optics industry, provides student grant funding, participates in the formation of optical standards for the industry, and actively sponsors technical workshops aimed at improving technical dialogue and exchange within the membership.

Exhibition Co-chairs
James M. Sydor, Sydor Optics, Inc.
Richard A. Nasca, Corning Tropel Corp.

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Optifab Promotional Partners
Laser Focus World
Optics and Laser Europe
Optronics Magazine
Photonics Spectra
Photonics.com
General Information

Rochester Riverside Convention Center
Rochester Riverside Convention Center
123 East Main St, Rochester, NY 14604-1619
Tel: (585) 232-7200, Fax: (585) 232-1510, www.rrcc.com

Registration Hours
Rochester Riverside Convention Center Registration
Convention Center Galleria
Monday–Wednesday ........................... 7:30 am to 5:00 pm
Thursday ........................................ 7:30 am to 4:00 pm

Exhibition Hours
Rochester Riverside Convention Center
Empire Hall
Tuesday 15 May ................................. 10:00 am to 5:00 pm
Wednesday 16 May ............................ 10:00 am to 5:00 pm
Thursday 17 May .............................. 10:00 am to 4:00 pm

Message Center
Rochester Riverside Convention Center, located near registration. Messages will be taken during registration hours Monday through Thursday by calling 585 770-2360

WiFi
Complimentary Internet Wireless Access
Sponsored by:

Complimentary wireless access to the Internet for all conference attendees will be available. Bring 802.11b wireless-enabled laptops or PDAs.

Coffee Breaks at the Convention Center
Complimentary coffee will be served in the Exhibition Hall, Tuesday through Thursday each day at approximately 10:30 am and 3:00 pm.

Interactive Poster Session
(for Technical Attendees)
Wednesday ................................. 5:00 to 6:30 pm
Technical Attendees are requested to wear their registration badges for admittance.

Refreshments Sponsored by:

Edmund optics worldwide

Authors must be present for discussion during the Interactive Poster Session.

Audio/Video/Digital Recording Policy
For security and courtesy reasons, photographing or videotaping individual booths and displays in the exhibition 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 exhibition hall.

Underage Persons on Show Floor
For safety and insurance reasons, no persons under the age of 16 will be allowed in the exhibition area during move-in and move-out. During open exhibition hours, only children over the age of 12 accompanied by an adult will be allowed in the exhibition area.

No Suitcasing Please
Please note that while all meeting attendees are invited to the exhibition, any attendee who is observed to be soliciting business in the aisles or other public spaces, in another company’s booth, or in violation of any portion of the SPIE Exhibition Policy will be asked to leave the exhibition area immediately. Additional penalties may be applied. Please report any violations you may observe to show management.

Ground Transportation

Hertz Car Rental has been selected as the official car rental agency for this Symposium. To reserve a car at the reduced conference rates, use the Hertz Meeting Code CV# 029B0010. Book on-line at www.hertz.com.

Taxi
Cost of a taxi one way from the airport to either hotel is approximately $13.00.
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Daily Event Schedule

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**Optifab Technical Conference** *(Kumler, Pfaff)*

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<td>Cost-Conscious Tolerancing of Optical Systems <em>(Youngworth)</em> 1:30 to 5:30 pm</td>
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<td>Modern Optical Testing <em>(Wyant)</em> 8:30 am to 12:30 pm</td>
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**Exhibition**

Monday 10:00 am to 5:00 pm  
Tuesday 10:00 am to 5:00 pm  
Wednesday 10:00 am to 4:00 pm

Promoting New York State’s photonics, optics, and imaging industry through cluster-based initiatives. Programs and services to help New York State companies increase visibility, grow sales, reduce costs, and attract the best talent. Group promotions, networking, information transfer, discount purchasing, government liaison, and workforce development. Host of NYS Pavilions at major trade shows.

**New York State Pavilion Participants at Optifab 2007:**

- **AccuCoat, Inc.**  
  Booth #1324
- **Advanced Glass Industries**  
  Booth #503
- **Applied Image, Inc.**  
  Booth #511
- **Evaporated Metal Films**  
  Booth #1314
- **Greater Rochester Enterprise**  
  Booth #506
- **JML Optical Industries Inc.**  
  Booth #1318
- **Miraclean Ultrasonic Cleaning Systems**  
  Booth #501
- **Model Optics, Inc.**  
  Booth #508
- **New York Photonics Industry Association**  
  Booth #509
- **Optimax Systems, Inc.**  
  Booth #1326
- **Photon Gear, Inc.**  
  Booth #1322
- **R. Kraft**  
  Booth #1320
- **Reflexite Display Optics**  
  Booth #1310
- **Rochester Precision Optics**  
  Booth #504
- **Swift Glass Co.**  
  Booth #507
- **Spectrum Thin Films Corp.**  
  Booth #502
- **Stefan Sydor Optics, Inc.**  
  Booth #500
- **Syntec Technologies, Inc.**  
  Booth #510
- **University of Rochester**  
  Booth #505
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Optifab 2007

Exhibition Hours
Rochester Riverside Convention Center
Empire Hall

Tuesday 15 May . . . . 10:00 am to 5:00 pm
Wednesday 16 May . . 10:00 am to 5:00 pm
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How to use this directory

Exhibitors are listed in alphabetical order with details about products or services they are exhibiting. Companies are additionally cross-indexed by technology areas in the Product Index on pages 30–32, to allow you to quickly shop for products for your engineering and business needs.

Booth numbers are provided in the Exhibitor Directory, and may be cross-referenced with the map above.
Exhibitor Listing

4D Technology Corp. #609
SPIE Corporate Member
3280 E Hemisphere Loop Ste 146, Tucson, AZ, 85706
520/294-5600; fax 520/294-5601
info@4dtechnology.com; www.4dtechnology.com
4D Technology designs and manufactures interferometers for non-contact surface metrology. Employing innovative phase sensors, 4D’s dynamic interferometers are insensitive to vibration and air turbulence, providing high speed, high spatial resolution measurements in as little as 1 microsecond. 4D combines expertise in metrology, opto-mechanical design, software development and manufacturing to develop, engineer and commercialize innovative products for a wide variety of optics applications. Contact: Chip Ragan, North American Sales, chip.ragan@4dtechnology.com; Steve Martinek, International Sales, steve.martinek@4dtechnology.com.

A.M.F. Optics, Inc. #1006
30 Nashua St, Woburn, MA, 01801
781/933-6125; fax 781/933-6420
info@amfoptics.com; www.amfoptics.com

AccuCoat, Inc. #1324
APOMA
111 Humboldt St, Rochester, NY, 14609
585/288-2330; fax 585/288-2331
office@accucoatinc.com; www.accucoatinc.com
Accucoat is a supplier of thin film coatings on polymer, metal and glass components. Producing a wide variety of antireflective, beamsplitter, hot & cold mirror, filter and metallic coatings as well as custom coatings to meet your dynamic applications. Experienced in handling prototype thru OEM volumes. Coatings available from the UV to the IR on sizes up to 24”. Over 58 years combined engineering experience can provide custom designed solutions. Contact: Alan Parsons, Sales Engineer, alan@accucoatinc.com.

Accura Technics #907
310 Marlboro St, Keene, NH, 03431
603/355-2727; fax 603/355-1175
info@accuratechnics.com; www.accuratechnics.com
Accura Technics is a domestic manufacturer of production oriented ultra-precision machine tools. These systems are automation ready and can be configured as grinders, lathes or combinations of turning and grinding. Accura’s compact machines are suited for the production of optics and precision components. Contact: Myrt Graham, Sales and Applications Engineer, mgraaham@accuratechnics.com.

Advanced Glass Industries #503
APOMA
PO Box 60467, 1335 Emerson St, Rochester, NY, 14606
585/458-8040; fax 585/458-8087
agi@advancedglass.net; www.advancedglass.net
Manufacturer of molded and precision machined glass products. Services include precision custom molding, annealing, slumping, sawing, grinding, generating, edging, waterjet cutting and CNC machining. Extensive inventory includes Optical and Filter glass, Fused Quartz, Fused Silica and industrial glass. We also buy and sell used optical equipment. Exclusive North American distributor of GFE evaporated thin film coating materials. Contact: Henry Louis, Sales Manager; Anthony Marino, President.

Aerotech, Inc. #1342
SPIE Corporate Member
101 Zeta Dr, Pittsburgh, PA, 15238-2897
412/963-7470; fax 412/963-7459
sales@aerotech.com; www.aerotech.com
New Product: ABRS Series Low Profile, Direct-Drive, Air-Bearing Rotary Stages with Large Apertures.
Aerotech manufactures automated alignment, positioning and motion control systems and components for 24/7 manufacturing. Our products include optical mounts; a complete line of multi-axis photonic/fiberoptic direct-drive nanopositioners; gantry systems; goniometers; linear, rotary and lift stages; single- and multi-axis motion controllers; drives; linear and rotary motors; and cleanroom, vacuum-prepped and other custom systems. Contact: Scott Schmidt, Applications Engineer, Precision Positioning Group, sschmidt@aerotech.com.

Angstrom Precision Optics Inc. #113
APOMA
190 Bennington Dr, Rochester, NY, 14616
585/663-7230; fax 585/663-7236
info@apoptics.com; www.apoptics.com
New Product: APO is now offering ultra parallel flat precision polished plano germanium windows.
Manufacturer of precision polished plano elements. Products are windows, wedges, filters, mirrors and post fabrication of coated optics for UV, VIS and IR applications. Capabilities include CP, DS and O.D. polishing to >0.5 arc sec wedge, <10-5 scratch dig and 1/20 wave flatness. CNC dicing and slicing services. Materials include optical glass, fused quartz/silica, filter glass, germanium, Borofloat and float glass. APO provides quality optics at a low cost with our expedited 2-3 day delivery. Contact: Ron Schulmerich, President.

Apollo Optical Systems, LLC #407
SPIE Corporate Member
330 Clay Rd, Rochester, NY, 14623
585/272-6170; fax 585/272-6177
info@apollooptical.com; www.apollooptical.com
Manufacturer of custom precision optical components specializing in Single Point Diamond Turning and injection molded polymer optics in prototype and production volumes. In-house capabilities include SPDT, extensive metrology, injection molding, optical/mechanical design and engineering. AOS specializes in design and manufacturing of diffractive and refractive optics. Contact: Daniel McGarry, President, McGarry@ApolloOptical.com; Claude Tribastone, Vice President of Manufacturing, Tribastone@ApolloOptical.com.

APPLIED IMAGE Group #511
1653 E Main St, Rochester, NY, 14609
585/482-0300; fax 585/288-5989
info@appliedimage.com; www.appliedimage.com
“Your Single Source Photonics Solution Provider” dedicated to innovative OPTO-IMAGING products & services. Providing custom and off-the-shelf linear scales, test targets, reticles, encoders, image analysis standards, sinusoidal arrays, photo masks, Ronchi rulings & other imaged components as well as NIST Certification services for today’s complex photonics needs. Now offering Imatest software with Applied targets for analyzing image quality. APPLIED IMAGE, where image concepts become reality. Contact: Paul Anderson, Sales Manager, panderson@appliedimage.com; Luke Hobson, Sales Manager, lhobson@appliedimage.com.
Ariel Optics, Inc.  #112

SPIE Corporate Member
261 David Pkwy, Ontario, NY, 14519
585/265-4820; fax 585/265-1052
info@arieloptics.com; www.arieloptics.com

Ariel Optics specializes in the manufacture of precision plano optical components. Products include Prisms, Light Pipes, Beam Splitters, Mirrors and Reference Flats with dimensions ranging from .7mm to 500mm. Quantities from prototype to mid Volume production. Average lead times are less than 4 weeks with expedited deliveries on request.
Contact: Robb Sawyer, Marketing Manager, robb@arieloptics.com

ASE Optics, Inc.  #704

2489 Brighton Henrietta Town Line Rd, Rochester, NY, 14623
585/272-1208; fax 716/624-8083
sales@aseoptics.com; www.aseoptics.com

New Product: Scanning 3-dimensional metrology system.

ASE Optics is a supplier of optical engineering talent for world-class optical systems, with a demonstrated record of providing cost effective designs and innovative applied engineering solutions across a wide range of applications. We will be showcasing a 3-dimensional, non-contact, optical profiling system. The optical profiling system is ideal for the metrology of aspheric surfaces that can not be measured with conventional optical metrology systems.
Contact: Christopher Cottom, President, chrisc@aseoptics.com.

Axsys Technologies IR Systems  #904

SPIE Corporate Member
24 Simon St, Nashua, NH, 03060
603/864-6300; fax 603/864-6450
www.axsys.com

Contact: Peter Kornik, Business Development Manager, pkornik@axsys.com; Carl Rouette, Coating Lab Manager, crouette@axsys.com.

Brysen Optical Corp, A Division of FLIR Systems, Inc.  #401

27700A SW Pky Ave, Wilsonville, OR, 97070
503/498-3880; fax 503/498-3551
info@brysenoptical.com; www.brysenoptical.com

New Product: Diamond Like Carbon (DLC)- hard, high transparent protective coating from abrasion & chemical damage.

Brysen designs & manufactures optical components, coatings & electro-optical assemblies. Capabilities include design & production of windows, filters & mirrors spanning the spectral range including antireflection, DLC, bandstop, bandpass, dichroic, metal, dielectric, dark mirrors and durability coatings. Also solderable edge metallizations for use in hermetic sealing of windows & reticles.
Surface Quality Standards Scratch & Dig sets conforming to US Army drawing 7641866. Contact: Brett Lombardo, Business Development Manager, blombardo@brysenoptical.com; Ashish Mistry, Director, Optics Business Unit, ashish.mistry@flir.com.
CDGM Glass Co. USA
472 Old Country Rd, Rochester, NY, 14612
585/424-0800; fax 585/227-2228
www.cdgmglass.com
CDGM is the largest producer of optical glass in Asia, with production capacity to melt 8 to 10 thousand tons per year. CDGM has a portfolio of over 200 types of optical glass including lanthanum, low tg moldable, environmentally friendly and high transmission glass in sheets or rods. In addition to supplying the opto-electronics market with high quality glass for over half a century, CDGM has the ability to create direct or re-pressed blanks and spherical lenses from 5mm to 300mm. Contact: Robert Muldowney, President, rmuldowney@cdgmglass.com.

Center for Rapid Product Realization
164 Belk Bldg, Cullowhee, NC, 28723
828/227-2435; fax 828/227-7838
sanger@wcu.edu; rapid.wcu.edu

Centerline Technologies
SPIE Corporate Member
577 Main St Ste 270, Hudson, MA, 01749
978/568-1330; fax 978/568-1334
sales@centerlinetech-usa.com; www.centerlinetech-usa.com
Centerline Technologies capabilities include precision lapping, polishing, laser marking, diamond sawing, edge grinding, machining, tumbling and a filled via planarity process. Materials, Alumina (99.6% & 96%), AlN, BeO, Fused Silica/Quartz, Sapphire, Lithium Niobate, Titanates, Garnet, Silicon Carbide, Tungsten Carbide and more. For more info see www.centerlinetech-usa.com. Contact: Hugh Muffoletto, Chief Executive Officer, hugh@centerlinetech-usa.com; Rob Naugler, Operations Manager, rob@centerlinetech-usa.com.

Chardon Tool
PO Box 291, 115 Parker Ct, Chardon, OH, 44024
440/286-6440; fax 440/286-7165
info@chardontool.com; www.chardontool.com

Cleanroomservices.com
#1320
129 Shorecliff Dr, Rochester, NY, 14612
585/621-6946
cnrmrsvs@yahoo.com; www.cleanroomservices.com
Sale of cleanroom systems, components, furnishings and supplies. In-House Services: Design assistance, certification of cleanrooms and Laminar Flow Benches, troubleshooting, performance appraisals of existing cleanrooms, precision cleaning of cleanroom facilities, training seminars for those considering and/or using cleanrooms. Contact: Ralph Kraft, President.

CMPC Surface Finishes
SPIE Corporate Member
39 Official Rd, Addison, IL, 60101
630/543-6682; fax 630/543-4013
surf-fin@att.net; www.surfacefinishes.com
CMPC Surface Finishes #608

Coastal Optical Systems, Inc.
4480 S Tiffany Dr, West Palm Beach, FL, 33407
561/881-7400; fax 561/881-1947
sales@coastalopt.com; www.coastalopt.com
Coastal Optical Systems specializes in rapid design and manufacture of custom precision lens assemblies and sensor integration for aerospace and defense, biomedical, machine vision, astronomical research, telecom and 3-D entertainment markets. Design, optical fabrication, assembly, system alignment and optical testing are performed in-house in West Palm Beach, FL. COSI is a subsidiary of Jenoptik (www.jenoptik-los.de). Contact: Ray Malcom, Vice President, Sales & Marketing, ray.malcom@coastalopt.com; Darcie Balfany, Sales & Marketing, darcie.balfany@coastalopt.com.

Contour Fine Tooling
143 Jaffrey Rd, Marlborough, NH, 03455
603/876-4908; fax 603/876-2486
jeff@contour-diamonds.com; www.contour-diamonds.com
Over the past 25 years, Contour Fine Tooling has earned a reputation for innovation, precision, quality and value for money in the field of Single Point Diamond cutting tools. Standard and Special tools are offered, with varying levels of precision, utilizing both natural & synthetic single crystal stones. Waviness down to 50 nanometers or 0.05 microns. Radius sizes from 3 microns up to 100’s of micrometers. Let us help you with your next project/tool design. Contact: Jeffrey Tomlin, Vice President & General Manager, jeff@contour-diamonds.com; John Smith Ruddick, Managing Director.

Corning Inc.
#815
60 O’Connor Rd, Fairport, NY, 14450
585/388-3500; fax 585/377-6332
optics_info@corning.com; www.corning.com
Corning Specialty Materials is a world-leading supplier of complete optical solutions. Building upon over 150 years of Corning’s innovation and material science, the Corning Specialty Materials group provides its customers “One Stop Shopping” for their most challenging optical requirements. The markets we serve include Aerospace and Defense, Astronomy, Display, Semiconductor and many more. Contact: Louie Denes, Manager; New Business Development, denesl@corning.com; David Young, Marketing Communications, youngdj@corning.com.

CSIRO Australian Centre for Precision Optics
#1300
Bradfield Road, West Lindfield, Sydney, NSW, Australia, 2070
61 2 9413 7000; fax 61 2 9413 7200
khuen.wong@csiro.au; http://www.cip.csiro.au/IMP/Optical
We specialise in research services and custom product development. We supply precision custom coated optics in glass, ceramics, crystals and metals. Products include super-flat and long radii surfaces to lambda/500, precision spheres to 30 nm asphericity, cube corners, beam-splitters, etalon tuneable filters, multi-layer coatings, photonics components. Integrated fabrication, metrology and coatings facilities. New products include super-polishing of sapphire. Contact: Bob Oreb, bob.oreb@csiro.au; Roger Nettelfield, roger.nettelfield@csiro.au.

Contour Fine Tooling
#706
143 Jaffrey Rd, Marlborough, NH, 03455
603/876-4908; fax 603/876-2486
jeff@contour-diamonds.com; www.contour-diamonds.com
Over the past 25 years, Contour Fine Tooling has earned a reputation for innovation, precision, quality and value for money in the field of Single Point Diamond cutting tools. Standard and Special tools are offered, with varying levels of precision, utilizing both natural & synthetic single crystal stones. Waviness down to 50 nanometers or 0.05 microns. Radius sizes from 3 microns up to 100’s of micrometers. Let us help you with your next project/tool design. Contact: Jeffrey Tomlin, Vice President & General Manager, jeff@contour-diamonds.com; John Smith Ruddick, Managing Director.

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585/388-3500; fax 585/377-6332
optics_info@corning.com; www.corning.com
Corning Specialty Materials is a world-leading supplier of complete optical solutions. Building upon over 150 years of Corning’s innovation and material science, the Corning Specialty Materials group provides its customers “One Stop Shopping” for their most challenging optical requirements. The markets we serve include Aerospace and Defense, Astronomy, Display, Semiconductor and many more. Contact: Louie Denes, Manager; New Business Development, denesl@corning.com; David Young, Marketing Communications, youngdj@corning.com.

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61 2 9413 7000; fax 61 2 9413 7200
khuen.wong@csiro.au; http://www.cip.csiro.au/IMP/Optical
We specialise in research services and custom product development. We supply precision custom coated optics in glass, ceramics, crystals and metals. Products include super-flat and long radii surfaces to lambda/500, precision spheres to 30 nm asphericity, cube corners, beam-splitters, etalon tuneable filters, multi-layer coatings, photonics components. Integrated fabrication, metrology and coatings facilities. New products include super-polishing of sapphire. Contact: Bob Oreb, bob.oreb@csiro.au; Roger Nettelfield, roger.nettelfield@csiro.au.

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Bradfield Road, West Lindfield, Sydney, NSW, Australia, 2070
61 2 9413 7000; fax 61 2 9413 7200
khuen.wong@csiro.au; http://www.cip.csiro.au/IMP/Optical
We specialise in research services and custom product development. We supply precision custom coated optics in glass, ceramics, crystals and metals. Products include super-flat and long radii surfaces to lambda/500, precision spheres to 30 nm asphericity, cube corners, beam-splitters, etalon tuneable filters, multi-layer coatings, photonics components. Integrated fabrication, metrology and coatings facilities. New products include super-polishing of sapphire. Contact: Bob Oreb, bob.oreb@csiro.au; Roger Nettelfield, roger.nettelfield@csiro.au.
DAC International, Inc.  #1104
6390 Rose Ln, Carpinteria, CA, 93013
805/684-8307; fax 805/566-2196
lsilbert@dac-intl.com; www.dac-intl.com
Manufacturer of CNC Equipment and Software for the Production of standard or specialty lenses, such as asphere or toric designs.
Contact: Chris Pantle, Sales Manager, cpantle@dac-intl.com; Chip Heavican, Executive Vice President, cheavican@dac-intl.com.

Davidson Optronics, Inc.  #607
SPIE Corporate Member
2223 W San Bernardino Rd, West Covina, CA, 91790
626/962-5181; fax 626/962-5188
sales@davidsonoptronics.com; www.davidsonoptronics.com
New Product: MARAD - computerized autocollimator analysis system - automates your instrument.
Davidson Optronics provides optical metrology and test equipment regarded as the standard of the industry, including alignment telescopes, autocollimators, plano interferometers, optical flats, prisms and polygons. We also produce the TV Optoliner, a complete system for evaluating imaging devices. Custom components and instrumentation work is done in NIST-Certified facility. Contact: Charles Gaugh, Sales Manager.

DCM Tech, Inc.  #203
4455 Theurer Blvd, Winona, MN, 55987
507/452-4043; fax 507/452-7970
interest@dcm-tech.com; www.dcm-tech.com
New Product: IG 281SD grinding system in both rotary table and orbital “fine grinding” configurations.
DCM manufactures rotary table grinding systems for crystal, ceramic, composites and specialty alloys. Machines range from basic lab models to PLC/Servo controlled production units. Contact: Skip Green, Technical Sales, skipgreen@dcm-tech.com; Mike Anderson, Product Manager, mkeanderson@dcm-tech.com.

Denton Vacuum, LLC  #109
Coating Div, 1259 N Church St, Moorestown, NJ, 08057
856/439-9100; fax 856/439-9111
sales@dentonvacuum.com; www.dentonvacuum.com
New Product: Desktop Pro is compactly designed for high performance sputtering.
Denton Vacuum’s 130+ man-years of process engineering expertise in evaporation, sputtering, ion-assisted processes and plasma-enhanced chemical vapor deposition (PECVD) is the foundation on which the company has been built. State-of-the-art controls and automation drive best-in-class hardware/subsystems on a customer-specific system design. Contact: James Colbridge, Marketing Manager, jcolbridge@dentonvacuum.com; David Mount, Sales Manager, dmount@dentonvacuum.com.

Diacut, Inc.  #1348
PO Box 217, Palmer Lake, CO, 80133
719/481-4205; fax 719/488-0872
sales@diacut.com; www.diacut.com
Diacut is a customer-oriented manufacturer of resin bond Diamond blades. The high precision wheels are made to customer specifications and are used on high productions machines such as K&S, MTI, ITI, Disco plus standard surface grinders. The blades are used for slicing and dicing, grooving and precision cut-off operations to grind glass, ceramics, quartz, sapphire, ferrite. Contact: Rene Furrer, Owner; Toni Furrer, Vice President Sales.

Diffraction International Ltd.  #311
13033 Ridgedale Dr #139, Minnetonka, MN, 55305-1807
952/945-9912; fax 952/400-8959
info@diffraction.com; www.diffraction.com
New Product: See our new CGH framing system. Get a free CDROM featuring Durango Interferometry Software.
Diffraction International is the leader in supplying custom CGH diffractive null correctors for interferometric testing of cylinders and aspheres. We provide design, fabrication, certification and full documentation. Durango Interferometry Software brings phase shifting and static analysis to any interferometer. An intuitive graphical interface provides full control of analysis and complete access to raw data. Durango supports most hardware and imports several interferometry data formats. Contact: Steven Arnold, President; Helen Paul, Operations Manager.

Cleanroom Consulting
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APOMA
1105 Wonder St, Round Rock, TX, 78681
512/246-6400; fax 512/246-6060
mmagill@doti-optics.com; www.doti-optics.com
Displays & Optical Technologies manufactures massive, lightweight optics for research, flight simulation, photolithographic and entertainment applications. We bend, grind and polish optics to approximately 100” diagonal measure. Our specialty is manufacturing accurate lightweight, slumped glass optics. We are a custom manufacturer and can handle prototype to production quantities. See our link to the Smithsonian’s massive VERITAS Gamma Ray Research telescopes. Contact: Monty Ma Gill.

Dopa Diamond Tools #305
SPIE Corporate Member
Plauener Str 163-165, Berlin, Germany, 10353
49 3098 318 811; fax 49 3098 318 817
info@dopa-diatools.com; www.dopa-diatools.com
New Product: Grinding tools for hard and brittle materials like sapphire, quartz, germanium, silicon and others.
Dopa diamond tools develops and produces grinding, fine grinding and pre-polishing tools for the machining of most different optical materials. Our tools generate very high surface qualities with nearly no sub-surface damage, so one is able to cut down his polishing time and simultaneously increase his workpieces quality. Whether you want to machine spherical or plane components. We offer you a custom tailored solution. Our division www.dopa-service.com offers high quality contract work. Contact: Mario Patraschkov, Marketing & Sales, mario@dopa-diatools.com; Marcel Patraschkov, Technical Sales, marcel@dopa-diatools.com.

Dyna Technologies, Inc. #1354
SPIE Corporate Member
1445 Dolgner Pl Ste 40, Sanford, FL, 32771
407/330-6423; fax 407/330-6121
information@dti-fla.com; www.dti-fla.com
A manufacturer of precision glass molding presses for production of optical elements such as aspheric lenses. The presses feature a fully enclosed design for vacuum and inert gas purging operation. Programmable feedback controls provide high precision position, force, heating and cooling profiles throughout the molding process. Contact: Howard Painter, President, hpainter@dti-fla.com; Robert Farmer, Business Coordinator, rfarmer@dti-fla.com.

E.T. Precision Optics Inc. #108
33 Curlew St, Rochester, NY, 14606
585/254-2560; fax 585/254-2966
info@etprecision.com; www.etprecision.com

Engineering Synthesis Design, Inc. #800
SPIE Corporate Member
310 S Williams Blvd Ste 210, Tucson, AZ, 85711-4483
520/296-3068; fax 520/296-2897
sales@engsynthesis.com; www.engsynthesis.com
New Product: New Fizeau Interferometers: Intellium Z100HR for high aspheric optics & Intellium Z100NIR for 1064nm.
ESDI is a complete surface and wavefront metrology solutions provider. Our products, widely used on shop floors, in R&D labs and in OEM devices, include ‘IntelliWave’ instrument-independent interferometric analysis software, Fizeau, shearing, point diffraction interferometers (classical to vibration-insensitive technology), wavefront sensors and scatterometers. We also provide interferometry accessories, training, interferometer upgrades, measurement services and custom metrology solutions. Contact: Kristi Helmrich, Sales Accounts Manager.

Engis Corp. #102
105 W Hintz Rd, Wheeling, IL, 60090
847/808-9400; fax 847/808-9430
info@engis.com; www.engis.com
Engis is a manufacturer of diamond powders, slurries and lubricants for optical finishing. Engis offers complete systems for flat finishing of a wide range of crystals with “turnkey” processes. Additionally, Engis provides electroplated diamond tools for grinding without dressing, in grit ranges down to the single micron level. Contact: Mike Foley, Product Manager, mfoley@engis.com; Tom Zerfas, Regional Sales Manager, tzerfas@engis.com.

Epner Technology, Inc. #1338
SPIE Corporate Member
78 Kingsland Ave, Brooklyn, NY, 11222-5603
718/782-5948; fax 718/63-2930
epner78@aol.com; www.epner.com
A broad range of electroplating, optical fabrication and coating technologies including-electroformed cold shields, custom designed infrared lightpipes, laser pump cavity reflectors, Laser Gold®, the NIST infrared standard exhibits theoretically low emissivity and Laser Black® which “swallows light”. Contact: David Epner, President, David@epner.com.

Equipment Acquisition Resources #905
555 S Vermont St, Palatine, IL, 60067
847/705-7636
sales@eartechnology.com; www.eartechnology.com
New Product: Process engineering program to include manufacturing capabilities for dicing/slicing saws.
At E.A.R. we have the finest state of the art dicing/slicing saws available for the purpose of dicing your material to sub-micron accuracies if required. Sheldon Player promotes that “Our engineering team is readily available for design, re-work, re-design and testing of your application. Our goals are exactly the same as yours, which is to work continuously on your application until completed in a 100% satisfactory state within the timeline allotted and within your R&D budget”. Contact: Mark Anstett, Vice President, marka@eartechnology.com; Sheldon Player, President, sheldonp@eartechnology.com.
Evaporated Metal Films Corp. #1314

SPIE Corporate Member
239 Cherry St, Ithaca, NY, 14850
607/272-3320; fax 607/272-3369
info@emf-corp.com; www.emf-corp.com

Evaporated Metal Films (EMF) Corporation offers thin film coatings for applications with high complexity & rapid turnaround requirements. Coatings can be applied to glass, metal or plastic components for optical, conductive, reactive & decorative performance. Call us for antireflection coatings, mirrors, beam splitters, neutral density filters. Substrate sizes from .25” to 2 meters. In-house design, prototyping, production teams available for consultation. Contact: Megan Shay, Chief Executive Officer, mdshay@aol.com.

Excell Technology #104

1001 Varian St, San Carlos, CA, 94070
650/592-6224; fax 650/592-6684
val@excelltechnology.com; www.excelltechnology.com

Leading specialist in rebuilding to OEM Grinders, Lappers, Saws, etc. 30 year track record. Visit our 20,000 sq ft Facility, Onsite Training, Process Eng & Product Development. We feature Speedfam, Peter Wolters, Strasbaugh, Lapmaster, Blanchard, PR Hoffman, etc. We hold ourselves to the highest standards using OEM specs as our quality benchmark. Our processes and equipment have changed over the years, but our operational values are still the same: Quality, Service & Reliability. Contact: David Hodges, President, dhodges@excelltechnology.com; Valerie Defigueiredo, Administration, val@excelltechnology.

Fairfield Crystal Technology, LLC #1350

SPIE Corporate Member
8 S End Plz, New Milford, CT, 06776
860/354-2111; fax 860/354-3093
info@fairfieldcrystal.com; www.fairfieldcrystal.com

New Product: CaF2, MgF2, BaF2, single crystals, IR to deep UV.

Fairfield Crystal Technology is a leading supplier of high quality, high purity, single-crystal materials for next generation precision optical and compound semiconductor devices. Our crystal materials are used in the excimer lasers, microlithography, development of solid-state lighting, optical storage, wireless communications, medical imaging, high power lasers, nuclear medicine and bio-agent detection. Contact: Andy Timmerman, Sales Manager, atimmerman@fairfieldcrystal.com.

Ferson Technologies, Inc. #206

APOMA
5801 Gulf Tech Dr, Ocean Springs, MS, 39503
228/875-8146; fax 228/875-5947
cspence@ferson.com; www.ferson.com

Manufacturer of stock and custom precision optical components including lenses, prisms, windows, mirrors, cylindrical lenses, filters and domes. Capabilities include optical coating design and services and optical and electrooptical assemblies. Contact: Louis Peters, President, lpeters@ferson.com; Connie Spence, Applications Engineer, cspence@ferson.com.

Filmetrics, Inc. #205

9355 Chesapeake Dr, San Diego, CA, 92123
858/573-9300; fax 858/573-9400
info@filmetrics.com; www.filmetrics.com

Measure thin films from 30 angstroms to 450µm with Filmetrics spectral reflectance based systems. Filmetrics features a complete line of affordable UV to NIR spectrometer systems for measuring thickness, optical constants and deposition rates of thin films. Single-spot and mapping systems available. Contact Jim Elman, elman@filmetrics.com; Michael Klayman, klayman@filmetrics.com for more information.

WaveMaster® PRO

Fast and accurate Aspherical Lens Tester

WaveMaster® PRO is a new instrument providing real time wave front measurement and analysis of spherical and aspherical optics.

The WaveMaster® PRO features high spatial resolution and accuracy, can be simply set up in finite or infinity conjugates configuration and incorporates the state of the art wave front sensing technology. A high precision 5 axis sample holder allows for easy and fast alignment of the sample. Further features include:

- Full dynamic range: > ±3” (1500 λ)
- Focus dynamic range: ± 0.03 m to ± 1800 λ)
- Repeatability (RMS): < λ;/200
- Wave front measurement accuracy: RMS: λ;/20
- Live display of measured, fitted and residual wave front
- Live Zernike analysis
- Complete measurement report, etc.

Applications include measurement of mobile phone and digital camera lenses, lenses for automotive sensors or any other spherical or highly aspherical optics.

TriOptics

Hafenstrasse 35-39, D-22870 Wedel, Germany
Phone: +49-4103-18006-0, Fax: +49-4103-18006-20
E-mail info@triplens.com, www.trioptics.com
Flow International Corporation (Flow), the inventor of abrasive waterjet technology, is the world leader in the development and manufacture of ultrahigh-pressure (UHP) waterjet systems. Contact: Jarret Clarke, Sales & Marketing Assistant, info@flowcorp.com.

Fogale Nanotech #901
Bat A Ville Active-Parc Acti, 125 rue de l’Hostellerie, NIMES, France, 30900
33 4 66 62 05 55; fax 33 4 66 62 71 60
info@fogale.fr; www.fogale.fr
New Product: LISE-LI System: It measures positions and thicknesses in optical systems with submicron accuracy.

FRT of America, LLC #118
48 South Road #1, Somers, CT, 06071
860/749-3885; fax 860/749-3899
info@frtofamerica.com; www.frtofamerica.com
FRT is recognized as a valued partner for non-contact, optical metrology systems and solutions. FRT of America serves you, our customers by providing high quality measuring systems and services, which fulfill your research, Q.A., inspection and verification needs. FRT MicroProf® and MicroGlider® surface topography, profile, form, roughness and micro-dimensioning measuring systems. FRT — The Art of Metrology™. Contact: Paul Flynn, General Manager.

GEMCITY Engineering and Manufacturing #1102
401 Leo St, Dayton, OH, 45404
937/223-5544; fax 937/226-1908
sales@gemcity.com; www.gemcity.com
New Product: Low cost manufacturing center in Thailand.
GEMCITY Services: Contract manufacturing services; design and build of custom equipment; build to print machine building services; low cost manufacturing center in Thailand. Contact: David Jansen, Senior Engineer, djansen@gemcity.com.

GfE Metalle und Materialien GmbH #503
Hoeferstr str 45, Nuernberg, Germany, 90431
49 911 9315 424; fax 49 911 9315 1424
astrid.blewe@gfe.com; www.gfe.com
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GIE Coating Materials is a leading manufacturer of PVD coating materials for optical applications and other thin film markets. Products include evaporation coating materials for high and low index thin film layers. We provide shaped sources, granules and target configurations. GIE Coating Materials is headquartered in Nuernberg, Germany. Subsidiaries are in Wayne, PA - USA and Shanghai, China. Contact: Astrid Plewa, World Sales Executive; Cameron May, Vice President, cameron.may@gfe.com.

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585/262-4000; fax 585/454-4305
info@glassfab.com; www.glassfab.com
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Greater Rochester Enterprise #506
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585/530-6200; fax 585/546-8477
info@rochesterbiz.com
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APOMA SPIE®
408 St Paul St, Rochester, NY, 14605
585/295-0200; fax 585/232-2314
info@gsoptics.com; www.gsoptics.com
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G-S PLASTIC OPTICS specializes in the custom manufacture of precision polymer optics for use in imaging, scanning and detection applications worldwide. The company has in-house capability to provide diamond turned and injection molded prototypes, production injection molding, thin film and reflective coatings and integrated optical solutions to meet a wide range of military, medical, commercial and consumer markets. Contact: Will Beich, Director of New Business Development, wbeich@gsoptics.com.

GTI Technologies #1100
6 Armstrong Rd, Shelton, CT, 06484
203/929-2200; fax 203/926-0074
info@gti-usa.com; www.gti-usa.com
GTI Technologies sells and services multi-wire slicing saws and wafer lamination, delamination and mounting tools from Takatori, backgrinding systems from Supfina and GTI, carbon fiber end effectors from Astel, wafer scribing equipment from JFP and GTI Dicing systems. Contact: Robert Thron, Vice President Sales, bob@gti-usa.com.

Harold Johnson Optical Labs. #1117
APOMA
1826 W 169th St, Gardena, CA, 90247
310/327-3051; fax 310/327-6179
hj@hjol.com; www.hjol.com
Custom manufacturer of cylindrical and spherical lenses, achromats, prisms, mirrors, filters, domes, hyper-hemispheres and multielement assemblies in prototype and volume quantities for industrial, medical, research, commercial and MIL-SPEC applications. Contact: Julia Stockwell, Sales, julia@hjol.com; Hal Johnson, President.
**Heraeus Quartz America**  #403

**SPIE Corporate Member**

100 Heraeus Blvd, Buford, GA, 30518
678/714-4350; fax 678/714-4358
bambi.everett@heraeus.com; www.heraeusoptics.com

Heraeus Quartz America LLC. is a US subsidiary of Heraeus Quargzglas GmbH & Co. KG. Heraeus Quarzglas is one of the world's market and technology leaders in the manufacture of high-purity natural and synthetic fused glass used in the semiconductor, lamp, optics and optical communications markets. Contact: Bambi Everett, Marketing Manager.

**Hinds Instruments, Inc.**  #1336

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3175 NW Alcocle Dr Ste 170, Hillsboro, OR, 97124
503/690-2000; fax 503/690-3000
sales@exicor.com; www.hindsinstruments.com

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**SPIE Corporate Member**

101 Metro Dr Ste 500, San Jose, CA, 95110
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Hoya Corporation USA is a leading provider of optical materials and components. Our product portfolio includes Molded Aspheric Lenses, LCD Display Glass, CCD Cover Glass, Silicon Wafer Bonding Glass and Color Filter Glass. We also offer a variety of Coatings and Fabrication capabilities.

**II-VI Infrared**  #1306

**APOMA**

375 Saxonburg Blvd, Saxonburg, PA, 16056
724/352-1504; fax 724/352-4980
info@iiviinfrared.com; www.iiviinfrared.com

II-VI INFRARED, the world leader in CO2 laser and infrared optics, designs and produces lenses, mirrors, nozzles, windows, partial reflectors, beam splitters, phase retarders, rhombs, beam expanders, polarizers, wave plates, modulators and more. IR materials include ZnSe, ZnS and ZnS MultiSpectral. Capabilities include optical design and engineering, optics manufacturing, diamond turning, thin film coating, optical assemblies, world-class quality assurance and international sales and support. Contact: Tom Neff, National Sales Manager, tneff@ii-vi.com.

**Innovative Fabrication, Inc.**  #1306

44 Stedman St Ste 11, Lowell, MA, 01851
978/466-0003; fax 978/446-0444
info@innovative-fabrication.com; www.innovative-fabrication.com

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**Intlvac**  #1000

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

Intlvac manufactures systems for Physical Vapor Deposition such as the Nanochrome™ and Nanoquest Ion Beam for R&D and production coating of optical components, sensors and plastics. The Nanochrome™ series are Electron Beam or Magnetron Sputter Thin Film Deposition Systems. The Nanoquest series are for Ion Beam Sputtering or Etch. Systems are fully automated, under LabVIEW with PLC control. Intlvac provides process development for sputtering, Ion Beam sputter/etch and ion assisted evaporation. Contact: Dino Deligiannis, President.

**ITT Corp.**  #1005

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585/269-5600
www.ssd.itt.com

Since the first space mission, ITT has assisted researchers in the public and private sectors to view the Earth, stars, planets and galaxies. We manufacture precision optical components for ground-based telescopes, electro-optical systems for space-based observatories and imaging sensors for space exploration—all designed to let us see further into space than ever before. For more information visit www.ssd.itt.com. Contact: Clifford Olds, Space Science Business Development Manager, clifford.olds@itt.com.

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**SPIE Corporate Member**

Goeschwitzer Strasse 25, Jena, Germany, 07745
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www.jenoptik-los.com

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**JENOPTIK Polymer Systems, Inc.**  #809

**SPIE Corporate Member**

2117 Buffalo Rd #222, Rochester, NY, 14624
585/272-6184; fax 585/272-6177
www.jenoptik-ps.com/USA

Jenoptik Polymer Systems designs and manufactures polymer optical components and opto-electronic assemblies to customer specifications. The company is a full process chain supplier with complete in-house capabilities in optical design, diamond turning, injection molding, thin film coating and optoelectronic assembly and packaging. With factories in the USA, Germany and China customers benefit from our global supply chain capabilities. Contact: Lynn Dobosz, Senior Optical Program Engineer, ldobosz@jenoptik-ps.com; Scott Cahall, Chief Optical Scientist, scahall@jenoptik-ps.com.
JML Optical Industries Inc. #1318
820 Linden Ave, Rochester, NY, 14625
585/248-8900; fax 585/248-8924
jml@jmoil optical.com; www.jmoil optical.com

JML is a leading ISO certified designer, manufacturer and coater of precision optical components and systems. Stock items as well as custom made prototypes and large volume production optics. Our optics are used for medical, robotic, inspection, military, semi-conductor, digital printing and CCD imaging applications. Contact: Marty Roberts, Director Catalog Division, martyr@jmoil optical.com; Gary Clark, Vice President Sales and Engineering, garyc@jmoil optical.com.

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3470 E Universal Way, Tucson, AZ, 85706
520/573-9250; fax 520/573-9355
sales1@phase-shift.com; www.phase-shift.com

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sales@koppglass.com; www.koppglass.com

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Kreischer Optics, Ltd. #1346
APOMA
1729 Oak Dr, McHenry, IL, 60050-0306
815/344-4220; fax 815/344-4221
optics@kreischer.com; www.kreischer.com

Kreischer Optics, Ltd. uses CNC technology to manufacture custom optical components, including aspheric, cylindrical and spherical lenses, mirrors, prisms, windows and master test glasses. Also provides subassemblies, lens design and testing services. Rapid prototyping available, including custom aspheres. Contact: Cody Kreischer, President.

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860/749-6400; fax 860/749-6600
info@kuglerofamerica.com; www.kuglerofamerica.com

L-3 Communications, Tinsley Laboratories, Inc. #1004
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510/222-8110; fax 510/223-4534
sales@asphere.com; www.asphere.com

Manufacturer of custom precision optical components including complex aspheric surfaces for reflective and refractive systems from 50mm to 1.5 meters in size and a wide variety of materials, including glass, beryllium and silicon carbide. Founded in 1926 and also known in the industry as the “Asphere Company”, Tinsley has many years of experience fabricating precision optics in such areas as Space and Astronomy, Laser Fusion, Surveillance and Tactical. Contact: Clay Sylvester, Director of Sales and Marketing, clay.sylvester@l-3com.com; Teri Bordeaux, Sales Support Administrator, teri.bordeau@l-3com.com.

LaCroix Optical Co. #310
APOMA SPIE
PO Box 2556, Batesville, AR, 72503
870/698-1881; fax 870/698-1880
kirk@lacroixoptical.com; www.lacroixoptical.com

For 60 years, LaCroix Optical Co. has manufactured custom precision optics including achromats, lenses, windows, prisms, wedges and mirrors. LaCroix Optical Co. is an ISO 9001:2000 registered company that can supply your optical components in any volume. A combination of modern and conventional production equipment plus an in-house coating facility allows LaCroix Optical Co. to be responsive to your needs. Contact: Tom Cox, Manufacturing Engineer, tom@lacroixoptical.com; Kirk Warden, Sales Engineer, kirk@lacroixoptical.com.

Larsen Equipment Design, Inc. #1104
APOMA
1117 NW 52nd St, Seattle, WA, 98107-5130
206/789-5121; fax 206/789-7756
pam@larsenequipment.com; www.larsenequipment.com

Larsen Equipment Design specializes in superior quality bench-top polishing equipment for micro and miniature optics. Since 1981 we have been recognized as the source for your micro optics manufacturing needs. Our polishers are made with sturdy stainless steel cases and sealed spindles for worry free operation. Our engineering department can also help with your tooling requirements. For your complete precision optics resources turn to us. Contact: Erik Larsen, President, erik@larsenequipment.com.

Laser Focus World #100
SPIE Corporate Member
98 Spit Brook Rd, Nashua, NH, 03062-5737
603/891-0123; fax 603/891-0574
www.laserfocusworld.com

Laser Focus World is a monthly magazine for engineers, researchers, scientists and technical professionals providing comprehensive global coverage of optoelectronic technologies, applications and markets. The magazine reports on and analyzes the latest developments and significant trends in both technology and business in the worldwide optoelectronics and photonics industry.

LEYBOLD OPTICS USA, Inc. #1105
SPIE Corporate Member
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919/657-7100; fax 919/657-7101
www.leyboldoptics.com

LEYBOLD OPTICS USA, Inc. is a leading provider of components and solutions for the optoelectronic and photonics industry. We offer a wide range of optical components, such as glass filters, lens arrays, prisms, and dichroic beam splitters. Our products are used in a variety of applications, including telecommunications, industrial imaging, and medical equipment. Contact: Clay Sylvester, Director of Sales and Marketing, clay.sylvester@l-3com.com; Teri Bordeaux, Sales Support Administrator, teri.bordeau@l-3com.com.
Liebmann Optical Co. #409
1 Industrial Pky, Easthampton, MA, 01027-1164
413/527-0079; fax 413/527-5132
sales@liebmann.com; www.liebmann.com

Liebmann Optical specializes in the manufacture of precision spherical glass lenses, typically 0.5 mm to 105 mm diameter. Conventional and CNC polishing, AR coating in house. BBAR, V coat or combination. Laser damage coatings. 250-2000nm. Tight centration tolerances. Doublets and metal and glass assemblies. Complete documentation with 7 interferometers, spectrophotometers, etc. Prototypes to thousands per month. Contact: Robert Moore.

LightMachinery Inc. #300
272 Spring St, Almonte, ON, Canada, K0A 1A0
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sales@lightmachinery.com; www.lightmachinery.com


Deterministic finishing corrects surfaces within 6nm of spec.

LightMachinery manufactures custom optics and optical fabrication equipment including the FJP-1150 Fluid Jet Polishing system. Contact: Gregg Senechal, Business Manager, gsenechal@lightmachinery.com; John Hunter, President, jhunter@lightmachinery.com.

Lion Precision #1010
563 Shoreview Park Rd, St. Paul, MN, 55126
651/484-6544; fax 651/484-6824
info@lionprecision.com; www.lionprecision.com

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Lion Precision is an industry leader in the design, manufacture and application of noncontact displacement sensors. High-performance designs use capacitive and eddy-current technologies. The market leader and major supplier to the semi-conductor, disk drive and automotive industries. Measurement ranges of ten microns with nanometer resolution to measurement ranges of over 10mm. A variety of packages are available to accommodate different applications. Contact: Jerry Mueller, Sales Engineer - Eastern US, Canada, Pacific Rim, jerry@lionprecision.com; Kent Queensland, Sales Engineer - Western US, Mexico, Europe, kent@lionprecision.com.

LPI Precision Optics Ltd. #1302
Unit G02 G/F Photonics Ctr/Hong Kong Science Park, No 2 Science Park East Ave, Shatin New Territories, Hong Kong China
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Lunzer, Inc. #1008
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201/794-2800; fax 201/794-2338
sales@lunzer.com; www.lunzer.com

LUNZER manufactures a complete range of diamond tooling for glass, crystalline and ceramic optics. Amongst our products on display will be generating tools, grinding wheels, milling tools, polishing tools and core drills. We offer application specific tolling and welcome technical inquiries. Contact: Robert Moore, Operations Manager, rmoore@lunzer.com; Jay Lunzer, Vice President, jay@lunzer.com.

MediVision Optics #103
1440 S State College Blvd #1D, Anaheim, CA, 92806
714/563-2772; fax 714/563-2711
rjohnson@medivisionusa.com; www.medivisionusa.com

MediVision offers custom optics ranging from spherical, flat to multi-element systems. Sizes ranging from 0.5mm to 400mm. Additional capabilities include ground and polished aspheric lenses. We work with customers from prototype to production. Contact: Roxanne Johnson, Optics Sales Manager; Alex Vayser, President, optics@medivisionusa.com.

Metrology Concepts LLC #1123
Bldg E, 3495 Winton Pl Ste 120, Rochester, NY, 14623
585/427-9155; fax 585/427-9026
info@metrologyconcepts.com; www.metrologyconcepts.com

Manufacturer of modular interferometer solutions for micro-optics, CNC optics, molded lenses, optical windows and precision flat components. Standard and high resolution systems available. Miniaturized units for SPDT lathes and other situ applications. Standard apertures include 1, 10, 50, 100, 150, 300 millimeters. Contact: John Nemeczek, Sales and Marketing Manager, jn@fisboptlk.com.

Meyer Burger AG #604
Alte Bernstr. 146A, Steffisburg, Switzerland, 3613
41 33 4390514; fax 41 33 4390510
sales@meyerburger.ch; www.meyerburger.ch

Micro Care Corp. #1121
SPIE Corporate Member
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860/827-0626; fax 860/827-8105
technicalsupport@microcare.com; www.microcare.com

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Available for demonstration is GME Model NAG-250 ultra-precision surface grinder. NAG-250 integrates grinding and lapping operations into one process, saving production time. Use of high stiffness air bearing and vacuum chuck result in superfine finishes (1.7µm Rmax) and high throughput. Also displayed is TRIOPTICS OPTISPHERIC/ OPTICENTRIC lens testing system. The instrument can measure EFL, BFL, FFL, Radius, MTF and lens centering errors of lenses and systems. Results are traceable NPL/PTB. Contact: Harvey Miller, President.

Miracle Clean Technologies
816/763-4343; fax 816/763-3555
soundwaves@miraclecom; www.miracle.com

New Product: SonicCell Max fully automated small footprint parts cleaning, passivating, or pfi line.

Miraclean® supplies high performance ultrasonic cleaning equipment for parts cleaning and mold cleaning, parts washers with agitation and ultrasonics, passivation lines (nitrile or citric) and liquid penetrant inspection lines. Systems may be single tanks or multiple station console lines and may be manual or automated. Contact: Dennis Myers; Brian Sutton.

Model Optics, Inc.
10 Dixon Ave, Woodstock, NY, 12498
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Naked Optics Corp.
8 Heritage Ct, North Branch, NJ 08876
908/685-0352; fax 908/325-0250
sales@nakedoptics.com; www.nakedoptics.com
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9450 Pineneedle Dr, Mentor, OH, 44060
440/357-7000; fax 440/357-7001
dfiore@nacl.com; www.nacl.com
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North American Coating Laboratories provides optical coatings for a variety of customers in the polymer and glass optics markets. Our experience in both dip and vacuum-applied processes make NACL one of the most respected organizations in the optical coatings field. Our coating competencies include Protective, Scratch-resistant, Reflective, Anti-reflective, Filter, Conductive, ITO and Chemical Resistive coatings. North American Coating Laboratories is an ISO 9001:2000 certified organization. Contact: Dan Fiore, Sales Engineer; Brian Wilson, President, bwilson@nacl.com.
North American EN Inc. #211

776 Lunt Ave, Elk Grove Village, IL, 60007
847/952-3680; fax 847/690-0171
ehoberman@northamericanen.com; www.northamericanen.com

New Product: Advanced electroless nickel for the optics and diamond turning industries.

North American EN, Inc. (NAEN) is a world wide leader in electroless nickel plating for the optics industry. NAEN is an industry leader through our commitment to engineering excellence, customer relations and the approach to all projects with a team concept. NAEN is capable of producing an extremely thick deposit uniformly and pit free. We can handle virtually any size part from the very small to the very large as well has most designs, from flats, to aspheres, to drums. Contact: Ethan Hoberman, Senior Process Engineer.

Ocean Optics, Inc. #811

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

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Thursday July 19th

All proceeds to benefit the Golisano Children’s Hospital at the University of Rochester Medical Center

Please join the Western NY area optics / photonics companies and organizations for the seventh annual charity golf outing at beautiful Shadow Lake and Shadow Pines Golf courses in Penfield, NY (just 3 miles east of Rochester). Previous tournaments have included representation from an average of 85+ companies including organizations such as SPIE, OSA, APOMA, PIANY and RRPC. Thanks to past support, we have raised over $27,000.00 for the children’s hospital to date.

Come out and enjoy the great outdoors with a day of golf, dinner and prizes with your friends, customers, vendors and other members of the WNY optics community. Corporate level and hole sponsorships are available and a great way to demonstrate your organization’s participation as well, even if you cannot make it the day of the tournament.

The cost for golf and dinner is $100.00 per person. If you cannot make both, you are welcome to join us for either individually at a cost of $70.00 each. Additional information, to be included on our mailing list or if you would like to volunteer your time to help us organizing the tournament contact:

Ron or Diane Schulmerich @ 585-663-7230, M-F 8:00 am – 5:00 pm · After 6:00 pm @ 585-359-2102.
E-mail address: wnyoptics@rochester.rr.com.

Thank you and we look forward to seeing you there!
Ohara Corp. #200

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Optics & Laser Europe #1201

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44 117 929 7481; fax 44 117 930 1178
info@iop.org; www.optics.org

Optics Technology, Inc. #705

APOMA
3800 Monroe Ave, Pittsford, NY, 14534
585/586-0950; fax 585/248-2371
info@opticstechnology.com; www.opticstechnology.com

Established in 1986 as a designer and manufacturer of precision miniature and sub-miniature optical and mechanical systems and assemblies. Our design capability is based on many years of experience designing and fabricating the optical and mechanical systems and components for medical, industrial and defense applications. Components range in size from less than 1mm to 30mm in diameter. Manufacturing capabilities include prototype through moderate production runs. Contact: Dominick Polizzi, Sales & Marketing Manager, dominick.polizzi@opticstechnology.com.

Opticsfab - Agency for Optics Fabrication #116

Frankfurter Str 20, H]]ttenberg, Germany, 35625
49 6441 210 40 90; fax 49 6441 210 40 91
p.flug@opticsfab.com

New Product: MPF-INTERFERO4 low cost ref-spheres - made in Germany. CLARALUNA-advanced fringe analyzing software.

OPTICSFAB offers a wide range of products and services for the design and fabrication of optical systems. Contact: Peter Flug, Managing Director; Annette Flug, Administration & Sales, a.flug@opticsfab.com.

Optikos Corp #1003

APOMA SPIE
107 Audubon Road, Bldg. 3, Wakefield, MA, 01880
617/354-7557; fax 617/354-5946
info@optikos.com; www.optikos.com

Optikos Corporation is the world’s largest manufacturer of equipment for the measurement of optical image quality and a leading provider of optical product development services. As the world leader in the field of MTF testing, Optikos offers complete solutions for both component and system level tests on imaging systems operating from the ultraviolet to the far infrared. Optikos’s product line includes testing suites for measuring the performance of optical and electro-optical imaging systems. Contact: Jamie Hutchins, Vice President, Sales & Marketing, jhutchins@optikos.com; Ryan McDonough, Senior Sales Executive, rmcdonough@optikos.com.

Optimax Systems, Inc. #1326

APOMA SPIE
6367 Dean Pky, Ontario, NY, 14519-8939
sales@optimaxsi.com; www.optimaxsi.com

New Product: OptiTrac - verify the delivery status of your optics - on-line anytime, at your convenience.

Prototype optics in 1 week. Optimax provides rapid prototyping of precision optical components in sizes from 3 to 300mm and quantities of 1 to 100. Having fun making optics - Aspheres, Cylinders, Spheres and Plano/Flats. All parts are manufactured to customer supplied specifications and final inspection data is included with the optics. Contact: Rick Plympton, Vice President; Joe Pinto, Sales.

OptiPro Systems #415

APOMA SPIE
6368 Dean Pky, Ontario, NY, 14519-8939
sales@optipro.com; www.optipro.com

New Product: OptiPro ePX 150 UltraForm - Spherical, Aspherical and Conformal 5-axis CNC Polishing machine.

Fabrication products include CNC Optical Machining Centers and Cad/Cam software for 4/5 axis grinding & polishing of spherical, aspherical and conformal optics. Popular low-cost “eSX 150” is quickly becoming the industry standard for manufacturing complex optical components. Manufacturer and distributor of optical/surface metrology equipment - Electronic Spherometers, TSK Accretech Surface Profilometers and STIL MicroMeasure non-contact surface measurement systems with resolution to 1 nm. Contact: Mike Bectoldt, President, Mike@optipro.com; David Mohring, dmohring@optipro.com.

OptiWorks, Inc. #406

Mitsuru Plaza 204, 1-2-4 Aduchi-chou Chuou-ku, Osaka, Japan, 541-0052
81 6 6264 7310; fax 81 6 6264 7310
dohi@optiworks.jp; www.optiworks.jp

OptiWorks is an independent optics engineering company from Osaka Japan. OptiWorks will propose and provide optical system design, prototyping and production line to all worldwide customers. OptiWorks is organizing a forum on optics engineering and related marketing information. Also OptiWorks will provide optics global supply chain network. Contact: Toshihide Dohi, Managing Director, sales@optiworks.jp.
As the only exhibition in Japan dedicated specifically to lens design and manufacturing, Lens Expo 2008 is the best opportunity to find the most interested and motivated buyers and design makers, services of lenses and lens design or manufacturing.

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- Exhibitors 250
- Attendees 10,000

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Fax: +81 3 5229-7253 E-mail: intl@optronics.co.jp http://www.optronics.co.jp
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Exhibitor Listing

OPTIX Co. #1011
Darventiza Zone, bl 19 ent 3 office 1, Sofia, Bulgaria, BG-1746
359 2 9750885; fax 359 2 9750888
sales@primoptix.com; www.primoptix.com
OPTIX Co. is a contemporary enterprise with a completely closed production cycle. Founded in 1998, the company quickly established a justified reputation for designing, manufacturing and testing of quality optical components and assemblies, optomechanical and optoelectronic systems. Due to its cutting-edge technologies and updated optical and mechanical design software, OPTIX Co. is able to complete all production steps- from prototyping to serial manufacturing. Contact: Peter Cholakov, Key Account Manager, peter.cholakov@primoptix.com.

OptoSigma Corp. #605
SPIE Corporate
2001 Deere Ave, Santa Ana, CA, 92705
949/851-5848; fax 949/851-5058
info@optosigma.com; www.optosigma.com
New Product: “Extended Contact” Motor Stages, exclusive to OptoSigma; with controller/driver, PC interface.
Global manufacturer of precision optics, opto-mechanics, motorized positioners and custom optical coatings. Advanced Plasma Ion - Assist deposition coatings are robust with high damage threshold. Low profile holders, mounts, positioners and motor products complete the offering. Free catalog.

OptoTech Optikmaschinen GmbH #715
APOMA
PO Box 131, E Greenville, PA, 18041
215/679-2091; fax 215/679-2013
info@optotech.us; www.optotech.de
Designs, develops and manufactures machinery and new process technology for precision optics and ophthalmics. CNC and conventional high-speed generators and polishers for 01-800mm, centering/edging, plano/prism, rod, cylinder and aspheric machines, interferometers, autocollimators and software. In-house tool design and manufacture. Also offers consumables, machine parts, repairs and maintenance contracts.

P.R. Hoffman Machine Products #1111
1517 Commerce Ave, Carlisle, PA, 17015
717/243-9900; fax 800/778-3830
prhoff@prhoffman.com; www.prhoffman.com
P.R. Hoffman is a leading manufacturer of planetary double-sided lapping and polishing machinery. Photonics, electro-optics, semiconductor, quartz, ceramics, glass, electronics, metalworking, medical, etc.: where industries require parts with flat and parallel surfaces and precision tolerances for thickness and surface finish, you’ll find a need for P.R. Hoffman products. We are a global supplier of lapping carriers, waxless polishing templates, conditioning gears and brushes. Contact: David Evans, Sales Engineer, evansd@prhoffman.com; Rod Murray, Engineering Technician, Rmurray@prhoffman.com.

PFG Optics #711
APOMA
733 Bienville Blvd, Ocean Springs, MS, 39564
228/875-0165; fax 228/875-9354
sales@pfgoptics.com; www.pfgoptics.com
PFG Optics is an ISO 9001:2000 certified manufacturer of precision optics, coatings & assemblies from UV to Near-IR wavelengths. Our specialties include high index, high included angle & truncated lenses using the latest CNC milling, shaping, polishing with MRF finishing & edging technology. Double sided & planetary polishing for prisms, windows, wedges & filters. Custom vacuum-deposited & Ion-assisted coatings. Assemblies include Telecentric, Eyepiece, Scan & Imaging Lenses. Contact: Colin Green, Vice President Sales, cody@pfgoptics.com; Barbara Dudiak, Sales Coordinator, sales@pfgoptics.com.

Phila Optics, Inc #804
326 Bustleton Pike, Feasterville, PA, 19053
215/322-1667; fax 215/322-1524
info@philaoptics.com; www.philaoptics.com
New Product: Fabrication of spherical, aspherical and extra-axis aspherical mirrors with diameter of up to 2000mm.
Our company offers a wide range of custom made optical components in production and prototype quantities. We supply optics that are fabricated from optical transparent glasses, optical color glasses, fused silica, optical crystals and plastic: Lenses (spherical, cylindrical and aspherical), lens (objectives)—design and production, prisms, filters, mirrors (flat, spherical, aspherical), windows and substrates, beam splitters, laser optical components, components from optical crystals. Contact: Eugene Saknovsky, President, eugene@philaoptics.com.

Phoenix Optical Glass Ltd. #212
Glascoed Rd , St Asaph, United Kingdom, LL17 0LJ
44 1745 584484; fax 44 1745 584050
buzz@nakedoptics.com; www.pogl.co.uk
New Product: 3-axis diamond turning.
Manufacturer of IR optics and diamond-turned components with aspheric, diffractive & hybrid surfaces in IR materials, plastics and metals; optical design services; optical materials in finished & blank forms: Molded and CNC-machined blanks of all optical materials. Contact: Buzz Nest; Tony Palframan, t.p@pogl.co.uk.

Photon Gear, Inc. #1322
APOMA
245 David Pkwy, Ontario, NY, 14519
585/265-3360; fax 585/265-3364
sales@photongear.com; www.photongear.com
Photon Gear specializes in the design, assembly and characterization of high-precision optical systems. Custom lens assemblies are verified with interferometric test capabilities from 266 nm to 1600 nm. Supported application areas include semiconductor inspection and processing, military, metrology, biomedical, laser scanning and polymer optics. We also provide contract optical engineering and optical design services as well as systems engineering support for custom software and optical hardware. Contact: Gary Blough, President, blough@photongear.com.
Precitech, Inc.  #708

APOMA  SPIE Corporation
44 Blackbrook Rd, Keene, NH, 03431
603/357-2511; fax 603/358-6174
sales@precitech.com; www.precitech.com

Ametek Precitech has a complete line of ultra-precision single-point and multi-axis diamond turning, grinding, grooving and milling machines as well as additional solutions such as servo machining with our FTS and STS technology and a new HydroRound, hydrostatic rotary bearing. Core machine product lines consist of Nanofrom, Freeform, Optiform and Planoform. We also produce a range of related metrology systems measuring for roundness, squarness, flatness, concentricity and cylindricity. Contact: Chris Stroshine, North America Sales Manager, cstroshine@precitech.com; Rob Koning, Metrology Sales Manager, rkonning@precitech.com.

Show Bag Sponsor

QED Technologies, Inc.  #314

APOMA  SPIE Corporation
1040 University Ave, Rochester, NY, 14607
585/256-6540; fax 585/256-3211
sales@qedmrf.com; www.qedmrf.com

New Product: The SSIA™ extends standard interferometry to mild aspheres without null lenses.

QED provides technology-based solutions for the precision optics industry. QED collaborates with our customers to find solutions that increase productivity, reduce cycle times, improve delivery reliability and add capabilities. We develop finishing & metrology strategies to help them meet their goals for today and tomorrow. From its industry-proven MRF® machines to its breakthrough Stitching Interferometers, QED can help you find a solution that you feel confident in. Contact: Michael DeMarco, Marketing Manager, demarco@qedmrf.com.

R. Mathews Optical Works, Inc.  #210

APOMA
26280 Twelve Trees Ln, Poulsbo, WA, 98370
360/697-6160; fax 360/697-7417
bob@mathewsoptical.com

R. Mathews Optical Works is a manufacturer of custom precision aspheric lenses from all glass types in prototype and production quantities. Contact: Bob Mathews, President.
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Exhibitor Listing

Reflexite Display Optics #1310

APOMA
Bldg 500, 500 Lee Rd, Rochester, NY, 14606
585/647-1140
idisplay.optics@reflexite.com; www.display-optics.com
Reflexite Display Optics business is the Management of Light for the Display (digital, backlit and rear projection displays), Instrumentation (passive infrared sensors) and Lighting (LED systems, diffusers, prism arrays) markets. We combine our expertise in optical design/engineering, microreplication and polymer processing to provide microstructured polymer optical films and components to meet differentiated optical solutions for OEM customers worldwide. Contact: Donna Desmarais, Manager Optical Solutions Business, US Operations, donna.desmarais@reflexite.com.

Ricmar Sales & Service US #908

SPIE Corporate Member
2889 W Canyon Ave, San Diego, CA, 92123
858/539-6108; fax 858/539-6108
info@ricmar.com; www.ricmar.com
Ricmar’s Sales and Service organization “Focusing on Customer Goals-Supporting Customer Success” is your worldwide point of contact providing responsive technical, sales, and service support for our partner companies Provac, Prouat, and Mechatronlc. We act local and think global. Contact David Gary-Business Unit Manager at (858) 539-6108 or david.gary@ricmar.at, www.ricmar.com. (See Provac-AG)

Rochester Precision Optics LLC #504

SPIE Corporate Member
850 John St, W. Henrietta, NY, 14586
585/292-5450; fax 585/292-5459
sales@rpoptics.com; www.rpoptics.com
Rochester Precision Optics (RPO) delivers complete optical manufacturing solutions of superior quality from custom design to value-added assembly. Proven technology and trusted experience characterize our capabilities, which include Precision Glass Molding, Diamond Turning, Prototyping, Coating, Assembly & Test and a full Machine Shop. Our vertical integration provides low cost solutions to our clients with shorter lead-times. We guarantee your satisfaction from design to delivery. Contact: Matthew Pembroke, Outside Sales & Marketing, mpembroke@rpoptics.com.

Saint-Gobain Grains & Powders #900

Surface Conditioning Group, 1 New Bond St, Worcester, MA, 01615-0137
800/243-0028; fax 508/795-2380
cermatworcester@saint-gobain.com; www.innovativeorganics.com
Saint-Gobain Grains & Powders (Surface Conditioning Group) consists of four companies, Innovative Organics, Warren-Amplex, ABC Superabrasives and Specialty Particles. The group manufacture abrasive particles, slurries, coolants and cleaners for machining processes. Products include alumina, zirconia, nanoceria, synthetic diamond, CBN and B4C particles and slurries. A large range of polishing cloths compliments the abrasive lapping/polishing products. ISO 9001:2000. Contact: James Millar, Sales Manager, james.m.millar@saint-gobain.com; John Doherty, Sales Manager, john.f.doherty@saint-gobain.com.

Salem Distributing Co. #101

SPIE Corporate Member
5901 Gun Club Rd, Winston-Salem, NC, 27103
336/766-1104; fax 336/766-1119
sales@salemdist.com; www.salemdist.com
Salem ASM offers a complete line of high-quality precision materials from Aluminum Oxide Compounds to Zirconium Oxide Slurries as well as an array of state-of-the-art polishing pad materials from Napped Poromeric to Cast Polyurethane. All of these materials were designed exclusively to enhance the quality and efficiency of any surfacing and polishing application. Contact: Gary Jackson, Precision Electro-Optical Division Manager, gjackson@salemdist.com.

General Refreshment Sponsor

Satisloh North America Inc. #515

APOMA SPIE Corporate Member
N116 W18111 Morse Dr, Germantown, WI, 53022
262/255-6001; fax 262/255-6002
lori.heller@satisloh.com; www.satisloh.com

The Satisloh line includes generators, polishers, laser centering and coating machines (with a PDS option) for all applications. A supplier of diamond wheels and pellets, spherometer rings and spare parts, we offer a complete range of consumable products—including distribution of Mueller Diamonds, Desmopan and Desmoflex polishing pads and Borer Chemical ultrasonic cleaning products. Contact: Lynn Stigler, Sales Engineer, lynn.stigler@satisloh.com; Tom Godin, Sales Engineer, tom.godin@satisloh.com.

Show Bag Sponsor

Schneider GmbH & Co. KG #115

APOMA
Brueckenstr 21, Steffenberg, Germany, 35239
49 6465 9144 0; fax 49 6465 4663
info@schneider-om.com; www.schneider-om.com
New Product: Spheronic SLP120E for polishing high-quality spheres at an excellent investment-performance ratio.

Schneider is one of the world’s leading suppliers of processing solutions to the precision-optical and ophthalmic industry. Schneider innovations set the pace - in grinding and polishing of precision aspheres, in freeform generating and polising of eye glasses, and in process metrology. The company is the pioneer for new technologies which customers need to be successful in the future. Schneider offers the full range of generating, polishing, and centering machines as well as measuring systems for high-quality precision-optics production. Contact: Mr. Thomas Danger, Vice President, Sales/Business Development Precision Optics, t.danger@schneider-om.com.

SCHOTT North America, Inc. #600

APOMA SPIE Corporate Member
400 York Ave, Duryea, PA, 18642-2036
570/457-7485; fax 570/457-7330
info.optics@us.schott.com; www.us.schott.com
SCHOTT Optics for Devices is a leading manufacturer of optical glass & glass ceramics with a comprehensive expertise in high precision processing of optical components. The product portfolio ranges from optical glass & preforms for precision molding, glass filters & plane-parallel substrates, to precision molded & polished aspheric lenses as well as zero-expansion glass ceramics. Contact: Marlene Deily, Promotions Manager, marlene.deily@us.schott.com; Steve Sokach, Sales Director, steve.sokach@us.schott.com.
SCHOTT North America, Inc. - Fiber Optics #600

62 Columbus St, Auburn, NY, 13021
315/255-2791; fax 315/255-2695

SCHOTT’s Fiber Optics division manufacturers a variety of Fiber Optic & LED components serving the medical, industrial, defense, automotive and retail lighting industries. Visit us at booth 600! Contact: Katie Pepler, Marketing Manager, katie.pepler@us.schott.com.

SGS Slicing Solutions, Inc. #604

309 Route 94, Columbia, NJ 07832
973/584-8288; fax 973/584-7556
sales@sgs-inc.com; www.sgs-inc.com

SGS Slicing Solutions is the exclusive North America Agent for Meyer Burger AG of Switzerland, offering sales, service, support, spare parts, as well as process development for all Meyer Burger equipment. Meyer Burger is a world renowned machinery manufacturer, specializing in slicing equipment for the Semiconductor, Solar, Optical, Ceramics, Medical Imaging or any industry that need to slice hard or brittle materials. Wire Saws, Band Saws, Cropping Saws, I.D. Saws, O. D. Saws. Contact: Rick Baarck, Sales Manager, rbaarck@sgs-inc.com.

SiC Processing USA #604

6949 N Cutter Cir, Portland, OR, 97217
503/345-0326; fax 503/285-5602
info@sic-processing.com; www.sic-processing.com

SlicingTech #306

432 Mt Bethel Hwy, Bangor, PA, 18013
610/588-7884; fax 610/588-7885
www.slicingtech.com


Wire saw contract slicing of fused silica, glass, fiber optic materials, silicon, etc. SlicingTech has a large installed base of wire saws, ID saws and cropping saws for state of the art slicing with high throughput and excellent surface finish. Large diameter capability with quick turnaround times. R&D services for product development. US distributor of Secasi x-ray for crystal orientation. Used/refurbished Meyer Burger TS-23 ID saws available. Contact: Mike Hartman, General Manager, mhartman@slicingtech.com; John Streisguth, Product Manager, jstreisguth@slicingtech.com.

Space Alliance Technology Outreach Program #1334

235 Harrison St, Syracuse, NY, 13202
315/701-0685; fax 315/701-0729
info@satopny.com; www.satopny.com

Utilizes network of NASA contractors and educators to provide up to 40 hours FREE engineering services to small businesses/inventors. NASA-funded. Entirely free. Contact: AJ Lucas, Deputy Program Director, lucas@satopny.com; Cathy Niedzwiecki, Office Manager, cathy@satopny.com.

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Spectra Services 6359 Dean Pkwy, Ontario, NY, 14519
585/265-4320; fax 585/265-4374
www.spectraservices.com

New Product: Confocal microscope and software for deconvolution.

Spectra provides a comprehensive selection of new and used microscopes from many of today’s leading manufacturers as well as complimentary products such as motorized stages, digital cameras, fiber optics, measurement equipment and image analysis software. Whether you need a single microscope, complete imaging system or a custom-designed imaging solution, our experienced imaging specialists will demonstrate our products and help you determine the product that best suits your requirements. Contact: Michael Specht, Sales Manager, mspecht@spectraservices.com.

Spectrum Thin Films Corp 100 Knickerbocker Ave Ste E, Bohemia, NY, 11716
631/589-3502; fax 631/589-3514
info@spectrumthinfilms.com; www.spectrumthinfilms.com

New Product: Ion Beam Sputtering capable of coating complex coatings. IR coatings @ 10.6 microns.

Manufacturer of high quality optics and optical coatings. Spectrum Thin Films has the most advanced equipment with many coating machines in continuous operation as well as environmental test chambers and advanced spectrophotometers. 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; Phil Barrows, Sales Representative, pbarrow@bluehilloptical.com.

Spica Technologies, Inc. #400

18 Clinton Dr #3, Hollis, NH, 03049
603/882-8233; fax 603/882-8614
mgentile@spicatech.com; www.spicatech.com

Spica Technologies provides a variety of test and measurement services to the manufacturers and end users of optical components. In addition to our laser damage test capabilities, Spica also maintains a broad range of optical test services including optical density measurements, laser based reflection measurements, environmental exposure, surface roughness and flatness. Contact: Michele Turner, sales@spicatech.com.

Stock Konstruktion GmbH #114

Am Stollenbach 7-9, Hahnst Otten-Zollhaus, Germany, 65623
49 6430 9250448; fax 49 6430 925 0453
www.stock-konstruktion.de

Sumita Optical Glass, Inc. #1108

4-7-25 Harigaya, Urawa-ku, Saitama, Japan, 338-8565
81 48 832 3165; fax 81 48 824 0734
www.sumita-opt.co.jp

New Product: K-PSFn214, high index optical glass for precision molding of which nd value is 2.14352.

Established in 1953, Sumita Optical Glass, Inc. has been engaged in researching, developing and manufacturing various optical products such as optical glass, fiber optics, functional glass, etc. for many years to come and we won a lot of awards for development of an aspheric molded glass lens, low dispersion optical glass and so on. We continue to strive to supply the best qualified values to our customers with a win-win relationship. Contact: Yoshiyasu Enomoto, Assistant Manager, enomoto@sumita-opt.co.jp; Showitobu Ishikawa, Sub-Assistant Manager, ishikawa@sumita-opt.co.jp.
Exhibitor Listing

Swift Glass Co. #507

APOMA
131 W 22nd St, Elmira Heights, NY, 14903
607/723-7166; fax 607/732-5829
quality@swiftglass.com; www.swiftglass.com
Specializing in the complete fabrication package of Borofloat, Pyrex, Schott and Kopp color filters, Fused Silica, Quartz, Yttrium, Sapphire, Bk-7, B-270, Starphire and Soda Lime materials. Processes include double sided lapping and polishing, edge grinding and polishing, hole drilling, sand blasting, precision CNC machining, heat tempering and chemical strengthening. Contact: Charles Burke, cburke@swiftglass.com.

Sycon Instruments Inc. #106

6757 Kinne St, East Syracuse, NY, 13057
315/463-5297; fax 315/463-5298
Info@sycon.com; www.sycon.com

Hotel Room Key Sponsor

Sydor Optics, Inc. #500

One Blossom Rd, Rochester, NY, 14610
585/271-7300; fax 585/271-7309
sales@sydor.com; www.sydor.com
Manufacturer of precision, flat-surfaced, parallel and wedge optics specializing in double-sided grinding and polishing. Products include: Beamsplitters, debris shields, filters, flats, grating substrates, lightpipes, light-weighted substrates, mirrors, wafers, wedges and windows. Contact: James Sydor, President; Mike Naselaris, General Manager.

Syntec Optics #510

APOMA
7100 Junction Rd, Pavilion, NY, 14525
585/768-2513; fax 585/768-6099
info@syntecoptics.com; www.syntecoptics.com
Hybrid solutions that push the polymer envelope. Syntec Optics is the largest independent custom manufacturer of precision plastic optics in the U.S. Capabilities consist of optical and mechanical design, including optics that combine polymer and glass; optical and opaque mold building; including fixture tooling; single-point diamond turning, including HRDT™ for high refraction, high thermal optics and also plano polishing. Fully integrated custom metrology and assembly services. Contact: Paul Tolley, Vice President/General Manager, ptolley@syntecoptics.com; Rick Arndt, Vice President of Tooling, ranrdt@syntecoptics.com.

Taylor Hobson Inc. #309

APOMA
1725 Western Dr, West Chicago, IL, 60185
630/621-3099; fax 630/231-1739
sales@taylor-hobson.com; www.taylor-hobson.com

Taylor Hobson aims to be the best provider of form and surface finish measurement systems world-wide. Aspheric optics manufacturers will be familiar with the form measurement capabilities of the Form Talysurf PGI. 3D aspheric measurement is now available with the new PGI 1260 system, as well as 90° slope capability from the PGI 1250. The non-contact Talysurf CCI will also be at the show, on the booth (#708) of our AMETEK partner company Precitech. Contact: Rick Parnoff, US (East Coast) Sales Manager, Taylor Hobson Inc., rick.parnoff@ametek.com; Matthew Hutchinson, Business Development Manager, Precision Optics, matthew.hutchinson@ametek.co.uk.

Tec5USA #707

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

Technometals, Inc. #806

SPIE Corporate Member
345 Springfield St, Dayton, OH, 45403
937/253-5311; fax 937/253-5732
info@technometals.com; www.technometals.com
The Optics Division is dedicated to metal finishing optical components such as optical lenses, mirrors, lenticular rolls and telescope components. We have capability to handle difficult precision engineering jobs. We offer "Optical Grade Electroless Nickel" and Optakote® for the photonic, optic and diamond turning industries. Contact: Steve Deisher, Vice President/General Manager Optics, sdeisher@technometals.com; Tara Schumaker, Optics Operations, tschumaker@technometals.com.

Technodiamant USA Inc. #802

200 Valley Rd Ste 305, Mt. Arlington, NJ, 07856
973/770-7220; fax 973/770-7225
info@technodiamant.com; www.technodiamant.com

Technodiamant offers a full line of precision diamond tools, wheels and core drills. Our recently completed vibration-free 4800 sq-ft addition to our facility enables us to produce extremely low waviness diamond tools for turning brass, aluminum and crystalline IR materials. Diamond core drills are available from 0.55mm OD up to 175mm OD. Metalbond and resinbond diamond and CBN wheels are offered. Ask us about our no-obligation test program! Contact: David Slaperud, Sales Manager/North America, dave@technodiamant.com; Ronald DeVries, Sales Manager/International, ronald@technodiamant.nl.

TechnoTrade International #906

7 Perimeter Rd, Manchester, NH, 03103
603/622-5011; fax 603/622-5211
sales@technotradeinc.com; www.technotradeinc.com
New Product: Deconex aqueous precision cleaning chemicals for ultrasonic and spray wash baths.

TECHNOTRADE is the distributor of the Deconex line of aqueous based precision cleaning and stripping chemicals suitable for precision optics, opthalmic lenses, all metals, glass and plastics. Contact: Johnny Hagen, Vice President Sales; Albrecht Auwaerter, President.
3M™ will display its Trizact™ diamond Tile fixed abrasive for grinding & lapping of hard brittle materials. 3M™ will display its Trizact™ diamond Tile fixed abrasive which is being widely used in the optics industry to replace slurries or fixed abrasive pellet laps. This structured diamond abrasive removes stock faster, reduces sub-surface damage and produces a finer intermediate finish that reduces polishing time. It can be used on a variety of optical lenses and components made of fused quartz/silica, borosilicate glass, silicon, sapphire, SiC, glass ceramic and other hard materials. Contact: Lew Tousignant, Application-Sales Engineer, ltousig@mmm.com; Bruce Sventek, Technical Specialist, BASventek@mmm.com.
Exhibitor Listing

Universal Photonics, Inc. #1015
APOMA SPIE
495 W John St, Hicksville, NY, 11801-1014
516/935-4000; fax 516/935-4039
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