OPTIFAB CALL FOR PAPERS

14–17 October 2019
Rochester Riverside Convention Center
Rochester, New York, USA

Submit abstracts by 1 May 2019

spie.org/ofb19call
PRESENT YOUR WORK AT SPIE OPTIFAB 2019

Optifab has a unique technical focus on classical and advanced optical manufacturing technologies. It offers conference attendees an exceptional opportunity to report new research and interact with worldwide experts in the field of optical fabrication.

SPIE.OPTIFAB
Submit Abstracts by 1 MAY 2019

Conferences + Courses: 14–17 October 2019
Exhibition: 15–17 October 2019
Rochester Riverside Convention Center
Rochester, New York, USA

CO-SPONSORED BY
SPIE.

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.
www.SPIE.org

CO-SPONSORED BY
APOMA
American Precision Optics Manufacturers Association
The American Precision Optics Manufacturers Association represents a broad constituency of precision optics manufacturers, and the supporting industry along with academic associates, whose mutual interest is the advancement and expansion of optics manufacturing and technology.
www.APOMA.org

spie.org/OFB19call
Optifab is the #1 Optical Fabrication Event in North America

Optifab, organized jointly by SPIE and APOMA, is the largest optical manufacturing conference and exhibition held in North America. This is the premier event to meet with top companies and to learn about the latest optical fabrication technologies.

At Optifab you'll find research and industry, a unique format that lets you share your results and gain valuable insight into the optical fabrication market by maximizing interaction among leading international researchers and manufacturers. Meet leaders and developers of new methods, peers from around the world, plus manufacturers and tool builders who shape the market.

We invite you to actively participate in the technical program by joining us for Optifab 2019.

**CONFERENCE CHAIRS**

Jessica DeGroote Nelson  
Optimax (USA)

Blair Unger  
Rochester Precision Optics (USA)
WHERE RESEARCH AND INDUSTRY MEET

Share your commercial product breakthroughs and research results with your target audience by presenting a technical or commercial paper.

CONFERENCE CHAIRS
Blair L. Unger, Rochester Precision Optics, LLC (USA)
Jessica DeGroote Nelson, Optimax Systems, Inc. (USA)

PROGRAM COMMITTEE
Thomas Battley, New York Photonics Industry Association (USA)
Michael J. Bechtold, OptiPro Systems, LLC (USA)
Rebecca Wilson Borrelli, Harris Corp. (USA)
Christopher T. Cotton, ASE Sailing Inc. (USA)
John P. Deegan, Rochester Precision Optics, LLC (USA)
Michael A. DeMarco, QED Optics (USA)
Apostolos Deslis, JENOPTIK Optical Systems, LLC (USA)
Dan Gauch, Schneider Optical Machines Inc. (USA)
Tom M. Godin, Satisloh North America Inc. (USA)
Heidi Hofke, OptoTech Optical Machinery Inc. (USA)
Jay Kumler, JENOPTIK Optical Systems, LLC (USA)
Justin J. Mahanna, Universal Photonics Inc. (USA)
Michael A. Marcus, Lumetrics, Inc. (USA)
Michael N. Naselaris, Sydor Optics, Inc. (USA)
Richard Nastasi, Universal Photonics Inc. (USA)
John J. Nemechek, Metrology Concepts LLC (USA)
Matthias Pfaff, OptoTech Optikmaschinen GmbH (Germany)
Paul Tolley, Stretford End Solutions (USA)
Martin J. Valente, Arizona Optical Systems, LLC (USA)
Kirk J. Warden, LaCroix Systems, Inc. (USA)

STUDENT TRAVEL GRANTS & BEST PAPER AWARDS
Students interested in the optics industry can gain first-hand exposure to the industry’s largest manufacturing conference and exhibition.

APOMA is offering students a chance to participate in SPIE Optifab 2019 through travel grants and awards for outstanding student posters. Award winners will be chosen from the pool of qualified students.

Abstract for Poster submission are due 1 May 2019, submit to spie.org/ofb

Award and travel grant applications are due by 1 September 2019. For complete details, link to APOMA.com

IMPORTANT DATES

Abstracts Due: 1 MAY 2019
Manuscripts Due: 15 SEPTEMBER 2019
Author Notification: 1 JUNE 2019

Complete program and course schedule available in June 2019.
TECHNICAL PROGRAM
Call for Papers

In addition to the 100 and 250-word abstracts, submissions may include a short paper offering additional details. Authors will be asked to submit manuscripts for publication by the 15 September 2019 due date. See preparation guidelines for formatting requirements online: www.spie.org/OFB19call.

OPTIFAB INNOVATORS –
We are seeking technical papers, new commercial technology presentations and posters in the following topics:

2019 Focus Topics:
• Automated manufacturing – Robotic assisted manufacturing, computer integrated manufacturing (CIM) and software for the optical fabrication industry
• High-volume and high - precision optics manufacturing – Injection molding, glass molding and lithographic processes
• Next generation optical fabrication workforce – Technician training, apprenticeship programs and outreach programs

New Advancements in Foundational Optifab Topics:
• Process science - materials, abrasives, coolants, tooling, for grinding and polishing that are selected for cost reduction and flow optimization
• Molding – injection molding, glass molding, tool design, mold materials,
• Design for manufacturing – optical design considerations for manufacturability including, but not limited to, material choice, error budgets, tolerances, optical standards (ISO 10110), mounting, assembly, and testing
• Metrology - interferometry, profilometry, MTF measurement, ellipsometry, scatterometry, visual inspection equipment, surface/subsurface metrology and use of alignment fiducials in measurement, manufacturing and assembly
• Cleaning and Contamination – cleaning and inspection techniques, packaging, surface contamination
• Functional coating technology - all types of optical coatings on glass, metal, plastics and crystalline materials
• Opto-mechanical design - assembly, including in-line alignment/metrology, interactivity and data interfaces between optical design programs, mechanical design programs, fabrication equipment and metrology instrumentation

INDUSTRY
Present your product breakthroughs
Optifab 2019 will also feature commercial presentations from the leading optical companies in the following areas:

• New developments in optical materials
• New developments in freeform surface design, fabrication, and measurement
• Advanced optical fabrication equipment
• Coating equipment
• Metrology equipment (phase measuring, image quality measuring and surface measuring)
• Current events impacting the field of optical fabrication

Companies will be highlighting their latest developments in these technology areas - this is the best opportunity in 2019 to see presentations on the newest products. Companies interested in presenting their products must submit an abstract and final summary of the commercial presentation by the abstract due date to be considered.

All papers presented become part of the SPIE Digital Library, the world's largest collection of optics and photonics research papers.
Showcase your technology at this biennial event dedicated to optical manufacturing.

Optifab is a 3-day exhibition dedicated to optical manufacturing. It is the largest optical manufacturing product and supplier exhibition held in the United States. This is an event where you’ll see these incredibly precise machines and connect face-to-face with the people who design and use them.

Rochester is home to numerous optics and photonics companies—this area is rich with research and focused on increasing the deployment of better methods into marketable products. Bausch & Lomb, Corning, Harris, and Xerox make this region a research and manufacturing hub, rich with knowledge, experience and innovation in optics manufacturing, metrology and imaging.

ON THE EXHIBITION FLOOR
- Optical fabrication equipment
- Optical components, materials, and systems
- Optomechanical components and devices
- Laser system components
- Optical thin film coatings
- Optical metrology and testing equipment
- Clean room equipment
- Software, adhesives, glass, and consumables

MEET LEADERS FROM TOP COMPANIES
- OptiPro Systems
- OptoTech Optical Machinery Inc.
- QED Technologies Inc.
- Satisloh North America Inc.
- Universal Photonics Inc.
- Zygo Corporation
- Ametek Precitech, Inc.
- United Lens Co., Inc.
- Mahr Federal Inc.
- TRIOPTICS GmbH
- Xonox Technology GmbH
- Schneider Optical Machines Inc.

KEY METRICS
- 1,950 Attendees
- 100 Technical and Commercial Papers
- 185 Exhibitors
- 10 Courses
- 950 Exhibition Visitors

EXHIBITION CHAIRS
- Jonathan Sydor
  Sydor Optics, Inc. (USA)
- Justin J. Mahanna
  Universal Photonics, Inc. (USA)
- Michael DeMarco
  QED Optics (USA)

COURSES
Maintain your competitive edge with courses at Optifab

Courses at Optifab have been designed for engineers and technicians and address current challenges in optical design, engineering, manufacturing, and optomechanics.

Course topics include optical fabrication and manufacturing, aspheric optics, metrology, optomechanics, thin films and more. Program available in June 2019.
By submitting an abstract, I agree to the following conditions:

**ABSTRACT SUBMISSION**

**AN AUTHOR OR COAUTHOR (INCLUDING KEYNOTE, INVITED, ORAL, AND POSTER PRESENTERS) WILL:**

- Register at the reduced author registration rate (current SPIE Members receive an additional discount on the registration fee).
- Attend the meeting.
- Make the presentation as scheduled in the program.
- Submit a four page summary for publication in the SPIE Digital Library.
- Obtain funding for their registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations.
- Ensure that all clearances, including government and company clearance, have been obtained to present and publish. If you are a DoD contractor in the USA, allow at least 60 days for clearance.

**SUBMIT AN ABSTRACT AND SUMMARY ONLINE**

- Follow the Conference link to the technical conference and click the “Submit an abstract” link.
- Please submit a 250-word text abstract for technical review purposes that is suitable for publication. SPIE is authorized to circulate your abstract to conference committee members for review and selection purposes.
- Please also submit a 100-word text summary suitable for early release. If accepted, this summary text will be published prior to the meeting in the online or printed programs promoting the conference.
- **Manuscript for Publication Due 15 September 2019.** All oral and poster authors are expected to submit a minimum four-page paper for publication in the SPIE Digital Library.
- Authors can upload their paper beginning 5 weeks prior to the meeting and before the 15 September 2019 manuscript due date.
- Registered technical attendees will have access to all submitted papers through the SPIE Digital Library after the meeting.
- Please note that this meeting accepts shorter papers for publication than the standard manuscript guidelines suggest. See manuscript preparation guidelines online for formatting instructions. Final papers for publication will be due no later than 15 September 2019.
- Only original material should be submitted.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Commercial papers will be reviewed and placed in the program at the chairs’ discretion. Please indicate commercial content as a topic when making your submission to assist with the review process.

**REVIEW, NOTIFICATION, AND PROGRAM PLACEMENT INFORMATION**

- To ensure a high-quality conference, all submissions will be assessed by the Conference Chair for technical merit and suitability of content.
- Conference Chairs reserve the right to reject for presentation any paper that does not meet content or presentation expectations.
- The contact author will receive notification of acceptance and presentation details by e-mail no later than 1 June 2019.
- Final placement in an oral or poster session is subject to the Chairs’ discretion.

**PROCEEDINGS OF SPIE AND SPIE DIGITAL LIBRARY INFORMATION**

- Conference Chair/Editors may require manuscript revision before approving publication and reserve the right to reject for publication any paper that does not meet acceptable standards for a scientific publication.
- Conference Chair/Editors’ decisions on whether to allow publication of a manuscript is final.
- Manuscript instructions are available from the “Author/Presenter Information” link on the conference website.
- Authors must be authorized to transfer copyright of the manuscript to SPIE, or provide a suitable publication license.
- Only papers presented at the conference and received according to publication guidelines and timelines will be published in the conference Proceedings of SPIE and SPIE Digital Library.
- SPIE partners with relevant scientific databases to enable researchers to find the papers in the Proceedings of SPIE easily. The databases that abstract and index these papers include Astrophysical Data System (ADS), EI Compendex, CrossRef, Google Scholar, Inspec, Scopus, and Web of Science Conference Proceedings Citation Index.

**IMPORTANT DATES**

Abstracts Due: **1 MAY 2019**
Manuscripts Due: **15 SEPTEMBER 2019**
Author Notification: **1 JUNE 2019**

**Present and publish with SPIE.**

When you share your research at an SPIE conference and publish in the SPIE Digital Library, you are opening up opportunities for networking, collaborating, and promoting your work.

Proceedings of SPIE are covered by major scientific indexes and search services, including Web of Science, Scopus, Inspec, EI Compendex, Astrophysical Data Service (ADS), CrossRef, and Google Scholar.

Your paper becomes globally available to the research community.
SUBMIT YOUR ABSTRACT TODAY

14-17 OCTOBER 2019

RESEARCHERS — Present your latest technical results
INDUSTRY — Present your product breakthroughs

Participate at SPIE Optifab 2019—The largest optical fabrication event in North America which happens every other year. At Optifab you’ll find research AND industry—a unique format that lets you gain valuable insight into the optical fabrication market by maximizing interaction between leading international researchers and manufacturers.

EXHIBITION: 15-17 OCTOBER 2019
Rochester Riverside Convention Center
Rochester, New York, USA

SPIE. OPTIFAB
spie.org/OFB19call