

2020 Conference Location

Sheraton New Orleans
500 Canal Street, New Orleans, Louisiana 70130
Tel: (504) 525-2500
Website: [Sheraton New Orleans](http://SheratonNewOrleans.com)

The conference is at the Sheraton New Orleans on historic Canal Street, and across the street from the legendary French Quarter. The Sheraton offers two restaurants, the Pelican Bar, a 24-hour fitness center, rooftop pool, and amazing downtown and river views. The new Louis Armstrong International airport (MSY) is 15 miles from the Sheraton and offers direct flights from most major cities around the world. The trip to the Sheraton takes about 30 minutes by car, taxi, Uber/Lyft or shuttle. Refer to the EIPBN website at www.EIPBN.org for information regarding online registration, hotel reservations, the venue, and travel.

New Orleans is a captivating city with an undeniable allure. It is rich in history and culture, renowned for its culinary and musical achievements, revered for its distinctive architecture and celebrated for its revelry. Nearby points of interest include:

- French Quarter (0.025 miles)
- Fillmore (0.2 miles)
- Bourbon Street (0.3 miles)
- Steamboat Tours/Mississippi River (0.4 miles)
- Audubon Aquarium of the Americas (0.4 miles)
- Jackson Square (0.5 miles)
- St. Louis Cathedral (0.5 miles)
- Preservation Hall (0.6 miles)
- Café Du Monde (0.6 miles)
- Mardi Gras World Museum (0.6 miles)
- Garden District (2.1 miles)
- Commanders Palace (2.2 miles)
- New Orleans Museum of Art (3.6 miles)
- Frenchmen Street (3.9 miles)
- City Park (4.3 miles)

and much more. Visit www.neworleans.com or the EIPBN website to learn about the history, cuisine, and culture of New Orleans. **Laissez les bon temps rouler!**

Sponsors and Contacts

The EIPBN is incorporated as a nonprofit organization in the state of New Jersey and is co-sponsored by the America Vacuum Society (www.AVS.com). It is organized by a ten-person steering committee. Two new members are elected each year to serve a five-year term, and two depart to join the Advisory Committee.

Conference Chair

James P. Spallas, PhD
KLA
Five Technology Way
Milpitas, CA 95035
T: +1.408.875.9421
E: james.spallas@KLA.com

Program Chair

Rob Ilic, PhD
National Institute of Standard and Technology
100 Bureau Drive, MS/6203
Gaithersburg, MD 20899
T: +1.301.975.2639
E: robert.ilic@nist.gov

Registration

Registration begins November 2019. Early registration and special student rates are available.

Early registration deadline is April 26, 2020

We strongly encourage you to register during early registration and reserve your room at the Sheraton on the EIPBN website at www.EIPBN.org

Student Support

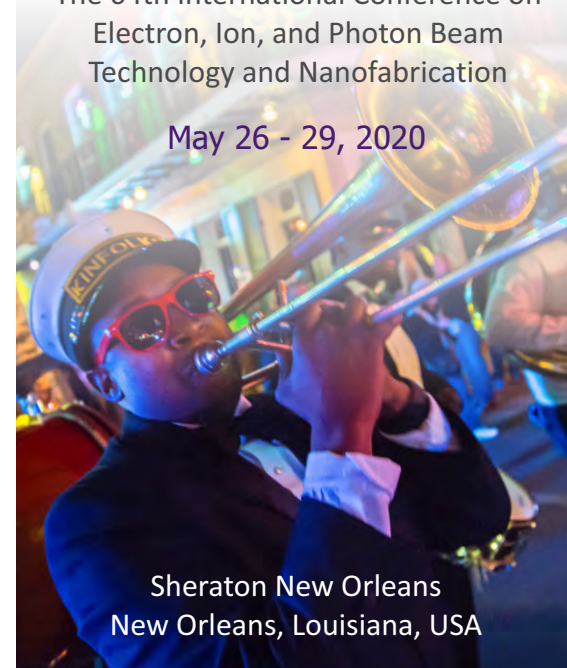
Limited funds are available to support students. The Conference Chair must receive a letter requesting support from the student's advisor by April 26, 2020. There are new requirements this year that students must meet to qualify for support. See the EIPBN website for these requirements and additional details.



CALL FOR PAPERS

The 64th International Conference on
Electron, Ion, and Photon Beam
Technology and Nanofabrication

May 26 - 29, 2020



Sheraton New Orleans
New Orleans, Louisiana, USA



THE 64TH INTERNATIONAL CONFERENCE ON ELECTRON, ION, AND PHOTON BEAM TECHNOLOGY AND NANOFABRICATION

Conference Background

The international EIPBN conference is the premier gathering of scientists and engineers who are dedicated to electron, ion and photon lithography, imaging and analysis; atomically precise fabrication; nanofabrication process technologies and related emerging technologies; and their applications in a broad spectrum of fields. This is the 64th meeting of the EIPBN, and it's where researchers from academia, government laboratories, and industry from around the world meet to present and discuss recent and future trends in these technologies.

Meeting Format

This year's theme is, "Nanotechnology in the Sciences and the Science of Nanotechnology." The conference opens on Tuesday with a short course session covering introductory and current topics. A special commercial session featuring exhibitors and sponsors is held Tuesday afternoon. Plenary and poster sessions are held Wednesday morning. Invited and contributing papers are presented during three parallel sessions. Presentations, including questions and discussion, are 30 minutes for invited papers and 20 minutes for contributed papers. An important feature of the program is the poster session, which provides opportunity for extended discussions with the authors. Best invited, contributed, and student poster awards are presented during the banquet on Thursday evening. Also announced at the banquet is the winner of the best startup contest honoring the newly-formed company that best communicated its business model, market, and vision. Throughout the conference there are various focused workshops and networking events including the welcome reception, the Women in

Nanotechnology luncheon, the mentoring session, the student breakfast, and, of course, the conference banquet. This year's banquet will be at the brand-new Fillmore locate a couple blocks from the Sheraton New Orleans. Check the EIPBN website for details.

Technical Scope

Technical content highlighted in the conference includes, but is not limited to, the following topics:

- Electron and ion-beam lithography
- Extreme UV lithography
- Advanced optical lithography
- Beam shaping design and tools
- Nanoimprint lithography
- Soft lithography and embossing
- Scanned-probe-based patterning
- Atomic and molecular manipulation
- Resists and resist processing
- Nanoscale processing techniques
- Directed self-assembly
- Biologically-inspired assembly
- Metamaterials and meta-lenses
- 2D materials: growth and fabrication
- Simulation and modeling for the nano-scale
- Integrated nano-photonics
- Nanofabrication for neuromorphic computing
- Nano-electronics
- Nano-biology
- Micro- and nano-electromechanical systems
- Micro- and nano-fluidics
- Nano-plasmonics
- Nanofabrication for energy sources
- Cutting-edge industrial developments

Abstract Submission

Abstracts should be submitted on the EIPBN website at www.EIPBN.org. Abstracts are limited to one page of text (12 point or larger type) and an optional second page with up to four figures.

Abstract deadline is January 17, 2020

Late submissions may be considered if the results are truly outstanding. Please prepare abstracts carefully and describe accomplishments specifically. Authors will be notified of acceptance by March 20, 2020.

Manuscript Submission

Manuscripts must be submitted immediately following the conference and will be subjected to a critical peer review before being accepted for publication in the Nov/Dec 2020 issue of the Journal of Vacuum Science and Technology (JVST). Each year the editors of JVST select the Best Journal Paper Award. The winning authors share a cash award and each author is presented with a certificate acknowledging their exceptional accomplishment. The winning paper will be freely accessible for a period of 2 years and widely promoted via email and on social and professional networks. The award will be announced, and presentations made at the following year's conference banquet. Submitted manuscripts are automatically eligible for the award. See the EIPBN website for additional details.

Micrograph Contest

EIPBN provides an opportunity to immortalize your favorite micrograph in print and online. All winning micrographs are posted on the EIPBN website, and the Grand Champion micrograph will be on the cover of the JVSTB EIPBN Conference Proceedings. All winners are announced at the Thursday banquet.