

Sponsors

The EIPBN is incorporated as a nonprofit organization in the state of New Jersey and is co-sponsored by the American Vacuum Society (www.AVS.org). The conference is directed 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.

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. Please go to the EIPBN website for additional information about the micrograph contest, entry forms, and submission templates.

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 2022 issue of the Journal of Vacuum Science and Technology (JVST). Each year the editors of JVST select the “Best Journal Paper Award.” The award will be announced, and presentations made at the following year’s EIPBN conference banquet. Submitted manuscripts will automatically be eligible for the award. Please go to the EIPBN website for additional information about preparing manuscripts. Please note that authors who are not members of the American Vacuum Society may be required to pay a per page publication charge.

Student Support

Limited funds are available to support students. The Conference Chair must receive a letter requesting support from the student’s advisor by Sunday, April 24, 2022. This year, there are new requirements that students must meet to qualify for support. See the EIPBN website for details.

2022 Conference Location

Sheraton New Orleans
500 Canal Street
New Orleans, Louisiana 70130
Tel: (504) 525-2500
Website: www.marriott.com

The conference is at the Sheraton New Orleans on historic Canal Street, 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 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. Go to the EIPBN website to reserve your room at the special conference rate.

This year’s banquet is at The Fillmore, just a short walk from the Sheraton New Orleans. Festivities will begin with a “Second Line” parade. The Second Line parade is a New Orleans tradition celebrating its historic and vibrant culture. We’ll be parading from the Sheraton to the Fillmore behind a New Orleans brass band while New Orleans Police provide a VIP escort, blocking street and city traffic, to ensure a safe and on-time arrival.

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 (0.05 miles)
- The Fillmore (0.2 miles)
- Bourbon Street (0.3 miles)
- Jackson Square (0.5 miles)
- Café Du Monde (0.6 miles)
- Garden District (2.1 miles)
- Commander’s Palace (2.2 miles)
- Frenchmen Street (3.9 miles)

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



CALL FOR PAPERS

The 65th International Conference on
Electron, Ion, and Photon Beam
Technology and Nanofabrication

May 31 to June 3, 2022



**Sheraton New Orleans
New Orleans, Louisiana, USA**



The 65th 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; related emerging technologies, and their applications in a broad spectrum of fields. This is the 65th meeting of the EIPBN, where top researchers from academia, government laboratories, and industry from around the world meet to present and discuss recent trends and future directions in these technologies.

Registration

Registration is now open. Early registration and special student rates are available.

Early registration deadline is Sunday, April 17, 2022

Last day to register online is Sunday, May 15, 2022. We strongly encourage you to register during early registration. See the EIPBN website at www.eipbn.org to register.

Abstract Submission

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

Abstract deadline is Sunday, January 30, 2022

Please prepare abstracts carefully and describe accomplishments specifically. Authors will be notified of acceptance by Sunday, April 3, 2022. Late submissions may be considered if the results are truly outstanding.

Technical Scope

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

- Electron and ion-beam lithography
- Advanced micro- and nanolithography
- Beam shaping design and tools
- Nanoimprint lithography
- Scanning probes techniques
- Atomically precise fabrication
- Directed self-assembly
- Bioinspired nanostructures
- Nano-electronics
- Nanofabrication for quantum computing
- Nanofabrication for neuromorphic computing
- Nanofabrication for energy applications
- Micro- and nano- electromechanical systems
- Micro- and nano- fluidics
- Biomedical devices
- Nano-biology and medicine
- Nanophotonics and nanoplasmonics
- Metamaterials and meta-lenses
- Micro/nanoscale additive manufacturing
- Nanofabrication for 2D materials and devices
- Resists and resist processing
- Simulation and modeling for the nanoscale
- Cold atom ion and electron sources
- Cutting-edge industrial developments

Meeting Format and Events

This year's theme is, "Nanotechnology in the Sciences and the Science of Nanotechnology." The conference opens on Tuesday with a short course session in the morning followed by the beginning of a 3-day commercial session featuring materials and equipment vendors. Wednesday opens with the plenary session and a spotlight poster session showcasing the invited and contributed papers. The poster area will remain open for viewing throughout the conference during the commercial session and networking breaks. The remainder of the conference will consist of three parallel oral sessions. Presentations (including questions) will be 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. We are also looking forward to honoring a newly formed company that best communicates its business model, market, and vision with the Best Startup Award. Throughout the conference there will be several focused workshops and networking events including the welcome reception, the Women in Nanotechnology luncheon, the Student Mentor Mixer, and the Student Recruiting Breakfast.

2022 EIPBN Chairs

Conference Chair

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