

SPIE Translational Biophotonics + Additive Manufacturing for Photonics 2024 (TBP100)

Conference Chairs: **Tomasz S. Tkaczyk**, Rice Univ. (United States); **Brian E. Applegate**, Keck School of Medicine of USC (United States)

Program Committee: **Rebecca R. Richards-Kortum**, Rice Univ. (United States); **Mary-Ann Mycek**, Univ. of Michigan (United States); **Mark C. Pierce**, Rutgers, The State Univ. of New Jersey (United States)

Present your research in one of the two co-located meetings merging translational biophotonics and applications, and novel additive manufacturing technologies in any area of photonics. The program format will include sessions of oral invited talks, contributed posters, and brief contributed oral presentations to complement posters.



Translational Biophotonics

Present on the latest technologies and applications of optical coherence tomography, new technologies for diagnostic imaging and detection, point-of-care testing, bio-printing, and their translation to the clinic. Leaders in the field will discuss paths that led to their advancements and will also plot new directions for the future of optical imaging and photonics for both research and clinical applications. Example topics for Translational Biophotonics include:

- optical coherence tomography, application, new technologies for diagnosis and therapeutic guidance
- application and development of point-of-care and analytical systems
- applications of additive manufacturing for biomedical applications
- MD perspectives and novel translational avenues for biophotonics
- diagnostic imaging and detection with applications in cancer diagnostics, cardiovascular imaging (photoacoustics, diffused imaging, spectroscopy), etc.
- industry perspectives (the implementation process, device success stories).



Additive Manufacturing for Photonics

Present on the latest implementation of additive manufacturing for photonic and biophotonic applications and technologies ranging from non-linear two-photon polymerization, stereo-lithography, jet-printing, and extrusion printing. Discuss your technology limits, present components/devices and example applications including interconnects, fibers/waveguides, imaging systems, sensors, implants etc. Primary topics of interest for additive manufacturing include:

- implementations of 2PP, SLA, inkjet printing and extrusion for photonic applications
- demonstrate fabrication of imaging system, sensors, implants, interconnects with 3D printing
- present novel AM systems and their capabilities
- demonstrate novel photonics structures including for example meta-components
- research/industry perspectives on AM field for photonics/bioprinting.

continued next page ➔

Present your research at SPIE Translational Biophotonics + Additive Manufacturing

Below are poster submission instructions, the accompanying submission agreement, conference presentation guidelines, and guidelines for publishing in the Proceedings of SPIE on the SPIE Digital Library. Submissions subject to chair approval.

Important dates

| | |
|--|----------------|
| Abstracts due | 5 May 2024 |
| Registration open | June 2024 |
| Authors notified | 24 June 2024 |
| Submission system opens for poster PDFs | 15 July 2024 |
| Poster PDFs due for spie.org preview and publication | 21 August 2024 |

*Contact author or speaker must register prior to uploading

What you will need to submit

- Title
- Author(s) information
- Speaker biography (1000-character max including spaces)
- Abstract for technical review (200-300 words; text only)
- Summary of abstract for display in the program (50-150 words; text only)
- Keywords (optional)

Note: Only original material should be submitted. Commercial papers, papers with no new research/development content, and papers with proprietary restrictions will not be accepted for presentation.

How to submit your abstract

- Visit the conference page: www.spie.org/tbpcall
- You may submit more than one abstract but submit each abstract only once
- Click the "Submit An Abstract" button on the conference page
- Sign in to your SPIE account or create an account if you do not already have one
- Follow the steps in the submission wizard until the submission process is completed

Submission agreement

All presenting authors agree to the following conditions by submitting an abstract:

- Register and pay the author registration fee
- Poster presenters: submit a poster PDF by the advertised due dates, for publication in the Proceedings of SPIE in the SPIE Digital Library; poster PDFs may also be published and viewable in the spie.org program during and immediately after the event
- Obtain funding for registration fees, travel, and accommodations
- Attend the meeting
- Present at the scheduled time

Poster Review

- To ensure a high-quality conference, all submissions will be assessed by the conference chair/editor for technical merit and suitability of content
- Conference chairs/editors reserve the right to reject any poster that does not meet content or presentation expectations

Publication of Proceedings in the SPIE Digital Library

Increase your professional visibility and publish in the world's largest collection of optics and photonics research. Your peers access approximately 18 million papers, presentations, and posters from the SPIE Digital Library each year.

- Only manuscripts, presentations, and posters presented at the conference and received according to publication guidelines and due dates will be published in the Proceedings of SPIE in the SPIE Digital Library
- Manuscripts, presentations, and posters will be officially published after the event in the SPIE Digital Library
- Conference chairs/editors may require revision before approving publication and reserve the right to reject for publication any manuscript or presentation that does not meet acceptable standards for a scientific publication
- Conference chair/editor decision to accept or reject a manuscript, presentation, or poster for publication is final
- Authors must be authorized to provide a suitable publication license to SPIE; Authors retain copyright of all scientific material
- SPIE retains rights to distribute and market the official SPIE recording of the presentation and/or submitted video/poster
- SPIE partners with relevant scientific databases and indexes to enable researchers to easily find papers published in the Proceedings of SPIE. The databases that abstract and index these papers include Astrophysical Data System (ADS), Ei Compendex, CrossRef, Google Scholar, Inspec, Scopus, and Web of Science
- More publication information available on SPIDigitalLibrary.org

POSTER SUBMISSION GUIDELINES

Contact information

For questions about your presentation, submitting an abstract, or the meeting, contact your [Conference Program Coordinator](#).

2024 SYMPOSIUM CHAIRS



Tomasz Tkaczyk
Rice Univ.
(United States)



Brian E. Applegate
Keck School of
Medicine of USC
(United States)