

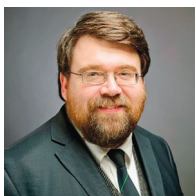


Photosensitive Materials and their Applications III (PE126)

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IN MEMORIAM



This year's conference is dedicated to the memory of **John (Seán) Sheridan**, professor and vice-principal for Research and Innovation at the College of Engineering and Architecture and School of Electrical and Electronic Engineering at University College Dublin (Ireland)

Seán's legacy extends far beyond his body of scientific discovery, but resides in the hearts and minds of all those lucky enough to have known him in any capacity.

Seán served as the 2020-2022 Chair of the SPIE conference on Photosensitive Materials and their Applications

This conference provides a forum for those interested in the development, understanding, application and commercialization of photosensitive materials and their optical applications. The objective is to provide an interdisciplinary meeting in which optical engineers and physicists can interact constructively with both material scientists and chemists and those involved in the application and commercial use of such materials. Those attending will have the opportunity to hear talks from leading researchers in the field, presenting their state-of-the-art research in the context of providing solutions to real-world problems.

Photosensitive materials typically exhibit a chemical, electrical, or other response to light. Interacting with electromagnetic radiation their exposed regions attain properties that are distinctively different from those of non-exposed regions. Thus, exposure results in temporary or permanent changes to their solid-state, molecular and/or inter-facial properties leading to a controllable modulation of material properties such as refractive index or conductivity, thickness, density, photo-conductivity, photo-luminescence, photon energy conversion, or photo-catalysis. Such changes can then be used to modulate the amplitude, phases, polarization and spin characteristics of replaying light and matter fields.

Topics will include but not be limited to:

- material characterization, testing and modelling
- impacts of materials on device and system modelling and optical performance
- chalcogenide and phase change materials for use in data storage and photonics applications
- nanocomposite, micro/nano-structured and low dimensional materials for photonics applications
- photorefractive materials for photonics/sensing applications
- photosensitizers and dyes
- photopolymers, azo polymer, photochromic materials, liquid crystals, thermo-plastics, resins and photo-thermo-refractive glasses for holographic/memory/lithographic applications and optical components/devices
- novel and emerging materials, such as meta-structured, Epsilon-Near-Zero and plasmonic materials for photonics applications.

Present your research at SPIE Photonics Europe

Below are abstract 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 | 30 November 2023 |
| Authors notified and programme posts online | 25 January 2024 |
| Registration opens | 8 January 2024 |
| Submission system opens for manuscripts and poster videos/PDFs* | 5 February 2024 |
| Manuscripts due | 20 March 2024 |

*Contact author or speaker must register prior to uploading

What you will need to submit

- Presentation 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 programme (50-150 words; text only)
- Keywords used in search for your paper (optional)
- Check the individual conference call for papers for additional requirements (i.e. extended abstract PDF upload for review or instructions for award competitions)

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/pe126call
- You may submit more than one abstract, but submit each abstract only once
- Submit by clicking 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
- If your submission is related to an application track below, indicate the appropriate track when prompted during the submission process

Submission agreement

All presenting authors, including keynote, invited, oral, and poster presenters, agree to the following conditions by submitting an abstract:

- Register and pay the author registration fee
- Oral presenters: recording and publication of your onsite presentation (slides synched with voice) for publication in the Proceedings of SPIE in the SPIE Digital Library
- 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 programme during and immediately after the event. Each poster must have a unique presenter; one person may not present more than one poster
- Email messaging for the conference series
- Submit a manuscript by the advertised due date for publication in the Proceedings of SPIE in the SPIE Digital Library
- Obtain funding for registration fees, travel, and accommodations
- Attend the meeting
- Present at the scheduled time

Review and programme placement

- 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 for presentation any paper that does not meet content or presentation expectations
- Final placement in an oral or poster session is subject to chair discretion

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