Advanced Laser Processing and Manufacturing IV (PA103)

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Laser processing and manufacturing has become one of the most convenient and enabling technologies for manufacturing as well as other related industries such as automobile, railway, shipbuilding, aerospace, microelectronics, photonics, biomedical and energy. It offers unprecedented versatility and range in terms of feature size, material, phase and processing options. During the last decade there have been significant advances on laser processing and manufacturing research and development including laser additive manufacturing, laser welding, laser drilling, laser cutting, laser peening, laser cleaning, laser surface texturing, laser nanofabrication and so on. The primary goal of this conference is to provide a platform for professionals to share and discuss the latest advances in laser processing and manufacturing. The solicited exemplary topics include, but are not limited to:

- laser-material interaction, visualization, modeling and simulation
- laser welding and joining
- laser cladding and remanufacturing
- laser additive manufacturing and 3D printing
- laser cutting and drilling
- laser peening, polishing, texturing, re-melting, alloying and cleaning
- laser micro and nano fabrication
- ultrafast laser processing
- laser-based hybrid/combined processing and manufacturing
- novel elements and components in laser processing and manufacturing systems such as multi-axis scan head
- industrial applications of laser processing and manufacturing technologies.

Submit abstracts by 13 May 2020

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A completed electronic submission is due 13 May 2020 and should include the following:

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- Author(s)’ information
- 250-word abstract for technical review
- 100-word text summary for the program
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- Your decision on publishing your presentation recording to the SPIE Digital Library
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Submission agreement

Presenting authors, including keynote, invited, oral, and poster presenters, agree to the following conditions by submitting an abstract. An author or coauthor will:

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- Present as scheduled.
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- 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.

Important dates

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<td>Abstracts due</td>
<td>13 May 2020</td>
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<td>Acceptance Notification sent to Author</td>
<td>29 June 2020</td>
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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.
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- Final placement in an oral or poster session is subject to Chair discretion.

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Contact information

For questions about your presentation, submitting an abstract post-deadline, or the meeting, contact Matt Novak, your Conference Program Coordinator.

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