

PHOTONICS spectra®

WEBINARS

Join us for a **FREE Webinar**

Using Laser Welding Process Monitors to Improve Manufacturing Success

Thursday, December 11, 2025 12:00 PM - 1:00 PM EST

Register Now

Sponsored by



Consistent weld quality is critical in life-critical industries such as medical devices, aerospace, and automotive. Traditionally, quality assurance relied on pre/post weld checks and destructive testing, including pull testing and cross-sectioning.

This webinar explores advanced laser process monitors that capture real-time signals — including melt pool behavior and plasma emissions — to detect weld defects, parameter deviations, and equipment issues early. Attendees will learn about the types of monitoring systems available, the defects they can identify, and the benefits of implementing them in manufacturing and production environments.

Join Mark Boyle, Ph.D., from AMADA WELD TECH, as he shares insights on applying advanced laser process monitoring to ensure consistent weld quality. With a background in laser-matter interaction and extensive experience in laser welding, micro-TIG, reflow soldering, and laser micromachining, Dr. Boyle brings practical expertise to improve manufacturing outcomes in medical, aerospace, and automotive industries. Sponsored by [Aerotech](#).



Upcoming Webinars

- [Manufacturing Solutions for Hollow-Core Fibers](#), 12/16/2025 10:00:00 AM EST
- [Dynamic Beam Lasers for Free-Space Optical Propagation](#), 12/22/2025 11:00:00 AM EST

Archived Webinars

- [Design-for-Excellence \(DfX\): Building Scalable, Reliable Optical Systems](#)
- [Advanced Motion Control for Semiconductor Metrology](#)
- [SPAD Arrays and Cameras: A Comparison with Conventional Image Sensors and Detectors](#)

Don't miss out!

[Sign up for our Webinar Alerts email today and never miss an upcoming event.](#)

We respect your time and privacy. You are receiving this email because you are a Photonics Spectra magazine subscriber. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949
© 1996 - 2025 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office.
Reproduction in whole or in part without permission is prohibited.