



WEBINARS

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Ensuring Manufacturing Process Success in Laser Microwelding

Thursday, October 21, 2021 1:00 PM - 2:00 PM EDT

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.: About This Webinar

Laser microwelding is a manufacturing process that joins parts on a millimeter scale. The miniature size of the parts brings challenges to achieving consistency in both welding quality and production success.

Successfully joining two metals on a microscopic scale requires that the materials are selected correctly, the process parameter settings have been found, and the equipment is functioning correctly. Although this may be readily achievable in laboratory environments, transitioning to a production line requires additional maintenance and monitoring for continued success. Careful attention to microwelding processes will result in high quality and high yield, perhaps the most important success criteria for a manufacturing facility.

This presentation with Mark Boyle, Ph.D., covers several key factors to consider in laser microwelding process development and measurement before, during, and after a weld. Boyle discusses how the transition from R&D to production can be ensured and optimized. The webinar will conclude with a Q&A.

Who should attend:

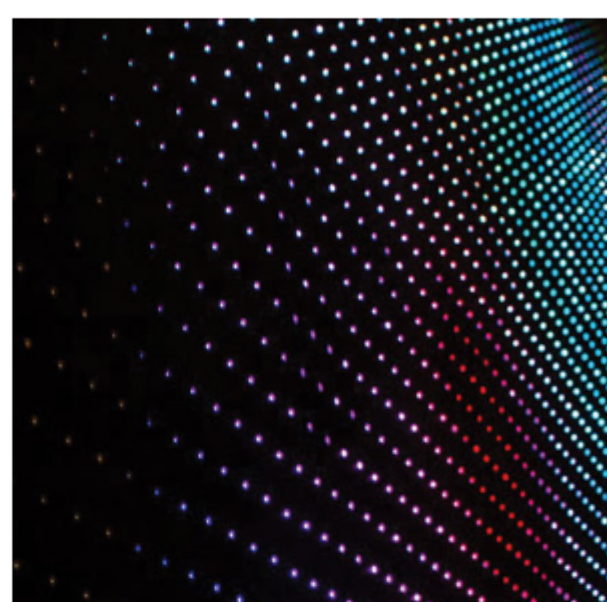
This webinar will be beneficial to engineers and other technical specialists, developers, and managers looking to better understand how to improve microwelding metrology and production processes in a manufacturing environment. Additionally, for R&D scientists working with microwelding techniques or materials, understanding translation from lab to factory floor can give useful context for practical innovations.

About the presenter:

Mark Boyle, Ph.D., is senior manager for product engineering and applications at AMADA WELD TECH Inc., which specializes in microwelding processes for multiple industries. Boyle and his team focus on the development and support of products for a wide range of technologies, including laser welding, resistance welding, microTIG welding, reflow soldering, laser marking, laser cutting, and laser micromachining. They are constantly investigating emerging trends and requests for future process and product development.

Earlier in his career, Boyle focused on a range of laser-based applications using continuous-wave and pulsed fiber, diode-pumped solid-state (DPSS), and ultrafast lasers. He obtained a B.S. in physics from the University of Texas at Austin and a Ph.D. in physics with the specialty of laser-matter interaction from the Free University in Berlin, Germany. He is a member of the American Welding Society.

Images courtesy of AMADA WELD TECH Inc.



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