



WEBINARS

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An Introduction to Plastics Laser Welding

Thursday, September 22, 2022 10:00 AM - 11:00 AM EDT

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.: About This Webinar

Lasers are a beneficial tool for joining sheet, film, or molded thermoplastics, and textiles including thermoplastic composites. Laser processing allows for precise yet rapid delivery of a controlled amount of energy to the required point. The equipment is available in a wide selection of forms that are suitable for small and large parts, complex shapes, and many different polymer types and combinations. Applications of the process include catheters, microfluidic devices, tubing, packaging, electronic cases, and inflatable devices. For a wide range of products, laser welding can provide improved quality and production rate with reduced cost and energy use for product assembly.

Ian Jones of Laserweld Plastics describes the main processes and procedures used for laser welding, how welding is carried out, and the materials and joint designs that it can be applied to. He also shares the important components of laser welding equipment and a brief introduction to some of the product manufacturing applications.

Who should attend:

Engineers, technicians, and R&D scientists who are interested in laser welding of plastic materials. Those who are planning to design or purchase laser welding systems. Anyone working in fields such as medicine, test & measurement, automotive, defense, and aerospace. This webinar provides a primer-level overview.

About the presenter:

Ian Jones, director of Laserweld Plastics Ltd., founded the company in 2017 and has worked in laser materials processing since 1989. He studied materials science at Cambridge University and worked in steel and aluminum welding before concentrating on thermoplastics, textiles, and thermoplastic composites.

Jones invented the Clearweld process, which enables the laser welding of plastics of all colors, in 1998 and has other patents in textiles processing and solar photovoltaic fibers. He has published a book and several papers and chapters on plastics and textiles welding, and he has developed and supported many companies in a very wide range of industrial applications of the process.



.: Mark Your Calendar

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