Webinar

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FREE WEBINAR

LAM Technology, Opportunities and Challenges

Join us for a Webinar on Thu, Jan 12, 2017 1:00 PM - 2:00 PM EST

Laser Additive Manufacturing (LAM) is one of the breakthrough technologies facilitating the transition from traditional subtractive machining to 3D printing. Learn about this disruptive technology from a seasoned professional with more than 40 years of experience in laser technology and its application.

This webinar will provide you with a solid foundation in laser additive manufacturing (LAM) and 3D printing, covering the advantages, possibilities and challenges of this cutting edge technology. Wayne Penn, applied physics consultant and former president of Alabama Laser Systems, will draw on his considerable experience in R&D and the application of technology to provide you with unique insight into LAM and its potential uses on the industrial production floor.

Penn will begin with an overview of the technology on which LAM is based. He will review specific LAM processes, including free form, powder bed and hybrid additive manufacturing; and present the technology from a welding material processing standpoint — a process that is being used successfully in production applications. He will discuss the impact of LAM on 3D printing design and provide a brief look at 3D printing materials, cost and benefits.

The next portion of the webinar will focus on the practical application of LAM manufacturing and repair in a range of industries including energy, oil & gas, aerospace as well as emerging applications. Penn will look at the challenges of LAM and 3D printing, including quality control, cost, and the evolving nature of the technology. Meeting these challenges could open the door to an exciting new spectrum of "real world" industrial applications. Penn will conclude with a brief look at new technologies and future "disruptive" improvements to LAM and 3D printing, that may help alleviate implementation challenges.

Wayne Penn graduated from the School of Physics at the Georgia Institute of Technology in 1977. During the 70s, 80s and 90s he did laser and applications R&D and business development. Additionally in the 80s and early 90s he did laser systems and applications research and development for NASA. He was president of Alabama Laser Systems from 1997 to 2016. Penn's current focus includes the R&D of metal deposition and bonding with an emphasis on additive manufacturing.

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