Tuesday, November 1, 2022

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Managing Laser Degradation in Industrial Applications

Wednesday, November 2, 2022 1:00 PM - 2:00 PM EDT

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.: About This Webinar

Lasers are made of physical matter. Therefore, the natural degradation of their materials can cause variability in performance. Aging optics often cause slow changes in laser behavior and, when left unchecked, these changes can lead to loss of process efficiency. An unclean process environment can quickly change a laser's behavior through thermal lensing, which is caused by debris collected on laser optics.

John McCauley of MKS Ophir discusses how these variabilities are managed, what aspects of a laser's performance should be analyzed, and what tools are available to perform this analysis.

Who should attend:
Engineers, manufacturers, and R&D scientists who utilize lasers and laser materials in their work. Those who use or work with cameras, sensors, LEDs, and test & measurement in industries such as aerospace, automotive, communications, defense, energy, and semiconductors.

About the presenter:
John McCauley is senior business development manager for MKS Ophir, where he focuses on automotive and directed energy applications. From 2009 to 2016, he served as the company's Midwest regional sales manager and product specialist for all markets. Since 1998, he has been an end user and an applications engineer working with laser marking and engraving systems. He has also worked closely with several central Indiana metal fabricating customers.

About Ophir:
Ophir is a brand within the MKS Instruments Light & Motion division. The Ophir product portfolio consists of laser and LED measurement products, including laser power and energy meters and laser beam profilers measuring femtowatt to hundred-kilowatt lasers. The company also offers high-performance IR and visible optical elements, IR thermal imaging lenses and zoom lenses for defense and commercial applications, OEM and high-quality replacement optics, and subassemblies for CO2 and high-power fiber laser materials processing applications.

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