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How to Improve Laser Applications Using Freeform Optics

Wednesday, September 4, 2024 10:00 AM - 11:00 AM EDT

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Presented by



This presentation provides a landscape of the freeform concept, design, product, and module solutions that are available for managers and designers of laser systems and applications that must deliver a performance enhancement that is difficult to obtain with conventional optics. Freeform optics are an elegant solution for beam shaping and aberration correction and allow optimization of laser applications. However, freeform optics are often regarded as difficult to design, difficult to incorporate into optical systems, expensive to make, and limited in optical performance. As a result, they occupy a small niche in the photonics industry. This webinar shows that there are easy, cost-effective ways to design, manufacture, and integrate solutions for high-grade, high-performance, fused silica freeform optics to enhance laser systems and applications. Kidd shares examples of some of the most prevalent and important laser applications to show the technical and financial impact of using freeform optics solutions. These include coherent beam combing for laser-induced fusion and other directed energy applications as well as blue laser beam shaping for the welding of lithium-ion batteries and other electric vehicle components. Presented by [PowerPhotonic](#).



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