WEBINARS

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Recent Advancements in Structured-Light Lasers
Thursday, April 6, 2023 10:00 AM - 11:00 AM EDT
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: About This Webinar

Structured light provides the ability to tailor light within all of its degrees of freedom, including amplitude, phase, and polarization. There are many approaches to tailoring light, from using external tools that include spatial light modulators, geometric phase liquid crystal, and meta-material devices to the exotic approaches that include biaxial, microfiber, and fiber lasers. Andrew Fortes, Ph.D., outlining the recent advancements in structured light at the source, from optical angular momentum and beyond, to concepts to applications, he highlights the current challenges and possible future trends.

About the presenter

Andrew Fortes, Ph.D., is a distinguished professor at the University of the Witwatersrand in Johannesburg, South Africa. He has worked as a lecturer, junior, senior, and professor, specializing in lasers, systems engineer, sales rep, manager, and director. In his current position, he heads a laboratory for structured light. Fortes is active in promoting photonics in Africa, and he is a founding member of the Photonic Institute of South Africa and president of South Africa's Photonics Knowledge. He is a fellow of SPIE, OSA, and SPIE, the South Africa Institute of Physics. He is also a fellow of the Academy of Science of South Africa and editor-in-chief of the Institute of Physics Journal of Physics. He has won several awards, including the National Science and Technology Forum Award for Photonics in South Africa, the Early Career Prize by the International Academy of Photonics, and the Sang Lee Song Award from the Korean Optical Society. He has been honored as a co-winner of the 2023 Thiel (The Nobel Academy of Sciences) Award for Physics.

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