WEBINARS

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Optical Vortices and Their Interactions
Tuesday, April 25, 2023 10:00 AM - 11:00 AM EDT
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:. About This Webinar

Since the earliest theories and subsequent experiments, the study of optical vortices has delivered intriguing challenges to the schematic traditional theory of light. Optical vortices are beams of light whose properties undergo many of the standard textbook descriptions of optical interference and diffraction. The applications of such beams, which are also known as twisted light, have quickly grown beyond expectations. Such applications now range from optical microscopes and nanoholography to biological sensing and quantum communication.

David Andrew, Ph.D., provides a broad introduction to optical vortices, covering the key experimental methods and theory. He also shows the principles that determine the unusual features of optical vortices interactions with matter. At the quantum level, these quantum properties indicate the range of novel effects, while the classical level of angular optics and structure light provides a more relevant guide. Some of the latest studies reveal especially striking phenomena at the focal point of laser beams. Optical vortices can be viewed in various ways: quantum theory, and symmetrical or non-symmetrical effects are demonstrated.

Who should attend?

Engineers and R&D scientists interested in learning more about optical vortices and their applications. Those working in spectroscopy, theology, biophotonics, optical communications, and quantum research who would like to gain a better understanding of how twisted light can be applied.

About the presenter

David L. Andrew is professor at the University of South Florida (USF) in Tampa, Florida. After graduating from University College London with a bachelor's degree in physical sciences, a master's degree in theoretical and experimental physics, and a doctorate in theoretical physics, and followed postdoctoral training at the University of Oxford. He is a founding member of the University of Oxford, and a fellow of the Royal Society of Chemistry. Andrew has been named a Highly Cited Researcher by Clarivate Analytics, a recognition of his research impact and significance.

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