WEBINARS

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Stigmatic Optical Imaging: The Past, Present, and Future
Tuesday, August 22, 2023 1:00 PM - 2:00 PM EDT
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:. About This Webinar

The exact equation to design a stigmatic lens has recently been discovered and extensively studied. The equation allows researchers to explore several stigmatic optical systems and shows that these systems share several properties. In the presentation, Dr. Gordon Auld of Huygens Technologies reviews these properties, starting from the history of the problem in ancient Greece to its solution that was published in 2006. He then reviews what strategies have emerged to try and explore the mathematical details. The derivation does not need special approximations, numerical approaches, or optimizations, because it is regularly based on Fermat’s principle. It is a step from analytical design. Gordon Auld focuses on the properties of the equation, such as meridian continuity, homothetic, collinearity, and most importantly the unification of all previously known systems. He shares about the generation of the equation to systems with an arbitrary number of zones, multis, and both on-axis and off-axis fourth-order systems. Finally, he touches on the implications of the factors in the general equation to adaptive mirror and comments on future research around this equation.

Who should attend:

Optical designers and all those working with optics who are interested in gaining further understanding of stigmatic optical imaging, designers, researchers, and R&D scientists who work with or design optical imaging tools and stigmatic lenses. Those who work with camera, imaging, machine vision, microscopy, astronomy, or metrology. Professionals who purchase lenses and optical components.

About the presenter:

Robert L. Gordon Auld, Ph.D., is a senior designer for Huygens Technologies. He earned both a bachelor’s degree in physics from the Technological University of Weinburg and a bachelor’s degree in mathematics from Harvard University. He then earned his Ph.D. degree in optical engineering at the University of Illinois in Urbana-Champaign. After his Ph.D., he did postdoctoral work in the design of first-holographic optical elements. Gordon Auld is a co-author of the solution to designing anapole lenses with spherical aberration.

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Date: Tuesday, August 22, 2023
Time: 1:00 PM - 2:00 PM EDT
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