



Smart Lighting ERC Industrial Speaker Series

Please join us for another event in the Smart Lighting ERC Industrial Speaker Series, a series designed to present a non-academic, mostly industry perspective on smart lighting technologies and markets. In addition, each speaker will briefly share some personal insights about their own career paths.

October 12th, 3:30 pm

JEC 3117

(1 hour talk followed by 30 minute of networking – refreshments will be served)

Spectral Sensing: Seeing More Than Your Eye Can See

Dr. Jason Eichenholz, '93

CTO, Ocean Optics

Abstract:

Photonics is a driver for technological innovation and is one of the most important key technologies in the 21st century. Spectral sensing, simply described as the measurement of the reflected, transmitted, or emitted spectrum of something is an important aspect of the “photonics toolbox”. Spectral sensing provides tremendous leverage in many new applications such as improved energy efficiency, advanced manufacturing, product authentication, improving health care and prevention and homeland security applications. Often times spectral sensing is utilized in ways not readily apparent or obvious at first glance. This talk will describe the technology breadth and plethora of applications being enabled by today’s spectral sensing products and offer a vision to future applications being enabled by tomorrow’s spectral sensing solutions.



Bio: As Ocean Optics’ CTO, Dr. Eichenholz is charged with maintaining its technology and product leadership position in the optical sensing and spectroscopy markets. He is responsible for all aspects of internal and external research, as well as new product and applications development activities. He oversees Ocean Optic’s product development roadmaps and product development process. He also developed the new Blue Ocean Grants open innovation program that is

funding more than 10 external research programs around the world.

He also serves as the Divisional Technology Director for Halma’s Health Optics and Photonics Divisions and is responsible for technology scouting for those organizations.

Dr. Eichenholz has written and delivered over 40 papers at conferences and in refereed journals, holds six US Patents on new types of solid-state lasers, displays and photonic devices, and served as a principal investigator for Air Force and DARPA STTRs and SBIRs contracts.

Dr. Eichenholz is a senior member of SPIE and OSA and has served on multiple leadership and technical committees for those societies. He also served as a board member for the Florida Photonics Cluster and is on the editorial advisory committee for Laser Focus World and SPIE Professional magazines.



About Ocean Optics:

Headquartered in Florida, Ocean Optics is a leading supplier of solutions for optical sensing - fundamental methods of measuring and interpreting the interaction of light with matter.

Ocean Optic’s technologies include chemical sensors, analytical instrumentation, and optical fibers for use in diverse applications in medical and biological research, environmental monitoring, and science education.

Ocean Optics is a Halma company. Halma makes products for hazard detection and life protection and is a market leader in specialist electronic, safety and environmental technologies.

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