Tuesday, September 20, 2022

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WEBINARS

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Spectral Domain Optical Coherence Tomography Spectrometers for Today and Beyond

Wednesday, September 21, 2022 1:00 PM - 2:00 PM EDT

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.: About This Webinar

Spectral domain optical coherence tomography (SD-OCT) is commonly used for ophthalmologic applications, particularly in the diagnosis and treatment of macular degeneration. It is also consistently used in research for new applications in both the medical and manufacturing sectors. Acquiring detailed spectral data enables more accurate analysis in today's instruments, as well as the option for new test and measurement genres to emerge. With the use of surface-relief transmission gratings, it is possible to collect a strong signal, even with smaller and more compact systems, while maintaining a high modulation transfer function (MTF) as a function of spatial frequency. Utilizing this optical design gives excellent rolloff. Coupling this with signal analysis, the instruments can be transformed into smaller packages, allowing for portable and even home-based applications.

Heidi Olson discusses some of the methods currently available to achieve better SD-OCT images, as well as the new applications that can be unlocked with further development. She also explores the limitations of the available products, specifically in reference to how the boundaries can be pushed to achieve better-quality data with relaxed performance requirements.

Who should attend:

Researchers, clinicians, lab managers, and those who design and develop devices for spectroscopy and OCT in numerous applications. Anyone who is interested in the capabilities of optics within medical and manufacturing applications. Whether you are involved in R&D, education, or the implementation or sale of OCT instruments and strategies, this webinar will provide insights into new discoveries enabling improvements to current technologies.

About the presenter:

Heidi Olson is the North American OEM spectrometer manager for Ibsen Photonics. Since her early days of laser research as an undergraduate at the University of Wisconsin-La Crosse, to her graduate work in micro- and nanofabrication at CREOL, The College of Optics and Photonics at the University of Central Florida, she has always been actively involved in creatively pushing the boundaries for current photonics technologies. She has written for numerous publications and has a patent related to her work. In her current role at Ibsen Photonics, Olson works closely with instrument manufacturers to find the spectral analysis tool that meets and exceeds each customer's expectations. With projects ranging from color measurement to chromatography, and SD-OCT to fiber sensing, she has extensive spectroscopy knowledge that she draws from.

.: Mark Your Calendar

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