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Wavelength-Selective Optical Filters: Providing More Signal and Less Background to PCR Instruments

Thursday, July 7, 2022 1:00 PM - 2:00 PM EDT

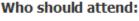
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.: About This Webinar

Engineers face many unique challenges when creating polymerase chain reaction (PCR) instrumentation. These challenges are seen in both the qualitative detection of nucleic acid sequences, using end-point analysis, and in the quantitative detection of nucleic acid sequences, using real-time analysis.

Quantitative PCR (qPCR) instruments that operate in real time require a favorable signal-to-noise ratio combined with the utmost sensitivity. Given this demand for high sensitivity, the features of the qPCR instrument must be optimized based on the instrument's system configuration, as well as on the number of channels needed to support it. These features include the center wavelength (CWL), the bandwidth of excitation, and the emission bandpass filters used to configure each channel of a qPCR instrument. Specifically, the CWL and bandwidth for each filter must maximize both the excitation and emission signals while minimizing crosstalk between other signals occupying the same channel. These features must also suppress interference with adjacent signals, providing more signal with less background for the instruments.

Jason Palidwar shares the role that photonics and optical filters play in qPCR instruments, along with the challenges presented by the instruments' specification, design, and manufacture.



Engineers and manufacturers who create or work with optical filters. Professionals who design, build, test, or utilize PCR instruments. Those who work in industries such as biophotonics, pharmaceutical, medical, test and measurement, and research.

About the presenter:

Jason Palidwar is marketing manager for Iridian Spectral Technologies and has been with the company since 2006. He is also product group manager of aerospace and specialty optics, focused on the optical filters used in satellite communications and Earth observation. He has over 20 years of experience working with thin-film optical filters. He has also developed filter specifications, together with Iridian's customers, to optimize commercial needs in applications such as telecom, Raman spectroscopy, fluorescence microscopy, 3D entertainment, and IR remote sensing. Palidwar has a Master of Science degree in physics from McMaster University.



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