

BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES®

WEBINARS

Join us for a **FREE Webinar**

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

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

[Register Now](#)

.: 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.

Who should attend:

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.



.: Mark Your Calendar

Date: Thursday, July 7, 2022

Time: 1:00 PM - 2:00 PM EDT

Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/2072069667770155279?source=Eblast>

After registering you will receive a confirmation email containing information about joining the Webinar.

SYSTEM REQUIREMENTS

Operating System

Windows® 7 or later, Mac OS® X 10.9 or later, Linux®, Google Chrome™ OS
Android™ OS 5 or later, iOS® 10 or later

Web Browser

Google Chrome™ (most recent 2 versions)
Mozilla Firefox® (most recent 2 versions)

Mobile Devices

Android™ 5 or later
iPhone® 4S or later
iPad® 2 or later
Windows Phone® 8+, Windows® 8RT+

.: More from Photonics Media

Upcoming Webinars

- [Vision Spectra Conference 2022: July 19 - 21, 7/19/2022 8:00:00 AM EDT](#)

Archived Webinars

- [Laser Measurement Solutions for Materials Microprocessing Applications](#)
- [Measuring Long-Wavelength Lasers with IR Cameras, Pyroelectric Scanning-Slit Sensors, and Wavelength Conversion Apparatus](#)
- [Advances in LED Illumination for Fluorescence Imaging](#)

Don't miss out!

Sign up for our Webinar Alerts email today and never miss an upcoming event.

We respect your time and privacy. You are receiving this email because you are a Photonics Spectra magazine subscriber. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2022 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.