



WEBINARS

Join us for a **FREE Webinar**

Revolutionizing Measurements: Next-Generation Strategies for Modern Phase Detection

Tuesday, June 20, 2023 10:00 AM - 11:00 AM EDT

[Register Now](#)

Presented by



.: About This Webinar

Liquid Instruments co-founder and CEO Daniel Shaddock shares next-generation strategies to perform optical phase locking using digitally implemented, FPGA-based lock-in amplifiers and phasemeters. He covers advanced phase measurement techniques that are essential for applications such as coherent beam combining (CBC), optical metrology, free-space optical (FSO) communication, and gravitational wave detection. He also introduces phase and compares several common phase measurement techniques.

Learn how to improve measurement confidence and speed with dedicated phase detection, consolidate legacy test equipment, and reduce costs with software-defined instrumentation. Shaddock also shares new strategies to optimize your optics and photonics experiments by:

- Selecting the best phase measurement technique for a variety of measurement challenges.
- Understanding the advantages of real-time digital signal processing for laser frequency stabilization and phase locking.
- Leveraging flexible, FPGA-based processing with a digital-first approach to quickly adapt instrumentation to measurement requirements.
- Building sophisticated signal-processing pipelines with multi-instrument capabilities.

The webinar includes a presentation, demonstration, and live Q&A session.

Who should attend:

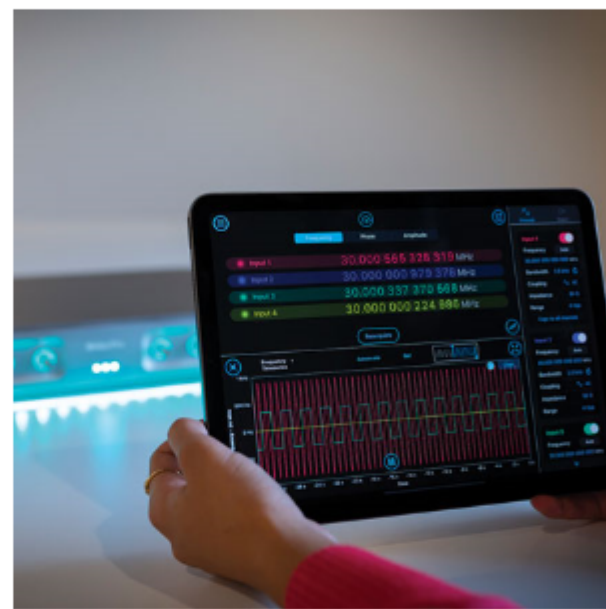
Optics and photonics engineers, researchers, professors, advisers, and Ph.D. students who work in microscopy and spectroscopy. Researchers who are interested in gravitational wave detection and laser frequency stabilization. R&D scientists or lab equipment managers who utilize detectors, fiber optics, lasers systems, or optical components in industries such as aerospace, agriculture, automotive, medicine, communications, defense, semiconductor, or energy.

About the presenter:

Daniel Shaddock, Ph.D., is co-founder and CEO of Liquid Instruments and a professor of physics at the Australian National University, with research focused on precision measurements using advanced digital signal processing. Prior to this, he was a director's fellow at NASA's Jet Propulsion Laboratory, where he served as interferometer architect for the LISA mission. Shaddock was a co-author on the paper announcing the observation of gravitational waves, an achievement that was awarded the 2017 Nobel Prize in Physics.

About Liquid Instruments:

Liquid Instruments delivers modern, software-defined test and measurement solutions that provide advanced capabilities, a great user experience, and custom programmability for maximum flexibility and performance in a range of applications. As a leader in precision instrumentation, Liquid Instruments is revolutionizing the way that scientists, engineers, and students learn, discover, and create. Their products leverage the computational power of FPGAs to create highly versatile equipment. For more information, visit liquidinstruments.com.



.: Mark Your Calendar

Date: Tuesday, June 20, 2023

Time: 10:00 AM - 11:00 AM EDT

Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/4164788848690237791?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

- Revolutionizing Infrared Detection: Five Key Advantages of InAs and InAsSb-Based Detectors for Unmatched Performance, 6/22/2023 10:00:00 AM EDT

Archived Webinars

- Medical Laser Applications: Defining Measurement Solutions That Keep the Process on Track
- InGaAs Photodiode Detectors: Packaging, Performance, and SWIR Applications
- External Light Sources for Co-Packaged Optics: Applications and Beyond

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 - 2023 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.

