

Sub-micron IR O-PTIR workshop

Hosted by Photothermal Spectroscopy Corp Tuesday, January 23, 2024 10:30AM - 12:00PM

Submicron IR and simultaneous Raman microscopy with co-located Fluorescence imaging:

O-PTIR technology, recent advances and applications overview

Please join Asst. Professor Caitlin Davis, Dr. Mustafa Kansiz, and Jay Anderson

Yale University and Photothermal Spectroscopy Corp are pleased to invite you to a dedicated workshop on Optical Photothermal Infrared (O-PTIR) spectroscopy and its applications in life science and materials science research.

O-PTIR is used in a wide range of application areas and has led to large number of publications in high impact factor journals for life and materials science research.

O-PTIR application examples include

Life science research (live cells, tissues, neurodegenerative diseases, bacteria, bone), materials science, microplastics, industrial failure analysis and more.

O-PTIR overcomes many limitations of IR and Raman microscopes:

<500nm IR spatial resolution, over 30x better IR spatial resolution than FTIR

FTIR Transmission-like spectra in reflection mode and no distortions, artifacts or interference fringes

Non-contact technique, suitable for thin (10's of nm) to thick (many nm's)

Live cell imaging in water

Simultaneous IR and Raman

Combined widefield Fluorescence imaging for co-located O-PTIR measurements



REGISTER HERE

Tuesday, January 23, 2024 10:30-12:00, CRB 125, Chemical Research Building, 275 Prospect Street, New Haven CT Parking: See Map or on street parking if available Lunch available for pickup at 12:00



mlRage system demos available on Monday and Tuesday afternoon - contact Jay Anderson jay@photothermal.com



Asst. Prof Caitlin Davis BIOGRAPHY ► Department of Chemistry, Yale University

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Jay Anderson **BIOGRAPHY** ► Director of Sales for the Americas Photothermal Spectroscopy Corp



Dr Mustafa Kansiz BIOGRAPHY > Director of Product Management and Marketing

30 minutes

Live cell imaging by sub-micron IR: Tracking de novo lipogenesis in single cells with stable isotope probes

30 minutes

Introduction to submicron IR (O-PTIR) with a review of current IR and Raman limitations and new O-PTIR advances with question and answer period.

30 minutes

Review of O-PTIR applications and emerging applications with question and answer period.



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