



# Analytical & Quantitative Light Microscopy

# AQLM

## LECTURE SCHEDULE

<b>Wednesday, May 9</b> 7:30 pm  9:00 pm	Kip Sluder, UMASS Medical School	<i>Geometrical Optics, Image Formation, Kohler Illumination</i>  <i>Introduction to Commercial Faculty</i>
<b>Thursday, May 10</b> 8:45 am 9:00 am  1:00 pm 4:30 pm  7:00 pm	Kip Sluder, UMASS Medical School David Wolf, Sensor Technologies  Kip Sluder, UMASS Medical School Ted Salmon, University of North Carolina  Jason Swedlow, University of Dundee	<i>Overview</i> <i>Wave Optics of Image Formation: Diffraction, Resolution</i> <i>Phase Contrast Microscopy</i> <i>Introduction to Polarized Light</i>  <i>Introduction to Electronic Imaging</i>
<b>Friday, May 11</b> 8:45 am 1:00 pm  7:00 pm	David Wolf, Sensor Technologies Ted Salmon, University of North Carolina  Ted Salmon, University of North Carolina	<i>Overview</i> <i>Polarization Microscopy</i>  <i>Differential Interference Microscopy</i>
<b>Saturday, May 12</b> 8:45 am 9:00 am 1:00 pm  4:30 pm  7:00 pm	Kip Sluder, UMASS Medical School Richard Cardullo, UC Riverside Ted Salmon, University of North Carolina  Rudolf Oldenbourg, MBL  David Wolf, Sensor Technologies	<i>Overview</i> <i>Basics of Image Processing</i> <i>Video Enhanced DIC</i>  <i>Advanced Approaches to Polarization Microscopy</i> <i>Basics of Fluorescence</i>
<b>Sunday, May 13</b> 8:45 am 9:00 am 1:00 pm 7:00 pm	David Wolf, Sensor Technologies Jennifer Waters, Harvard University Kelly Lundsten, Invitrogen Butch Moomaw, Hamamatsu Photonic	<i>Overview</i> <i>Fluorescence Microscopy</i> <i>Fluorescent Probes</i> <i>Low Light Level Imaging: Cooled CCD, Intensified Cameras, and Charge Multiplication cameras</i>

***All lectures held in Lillie Auditorium, unless otherwise noted.***