Making Single Molecule Fluorescence (Lifetime) Measurements Simple
- A Hands-On Workshop -

January 19-20, 2006

Joint workshop between
PicoQuant GmbH and
the Center for Biophotonics at UC Davis

Program and Time Schedule

Thursday, January 19, 2006

11 a.m.	Registration
12 p.m.	Opening & Introduction
12:15 p.m.	*Jörg Enderlein (FZ Jülich)*, Single Molecule Fluorescence Spectroscopy
13:00 p.m.	*Ted Laurence (LLNL)*, Probing Structural Heterogeneities and Fluctuations of Nucleic Acids and Denatured Proteins using Single Molecule Fluorescence Lifetime Spectroscopy
13: 30 p.m.	*Abigail Miller (UC Berkeley)*, Fluorescence Correlation Spectroscopy of a Novel Genetically Encodable Red-Emitting Fluorescent Protein
14:00 p.m.	*Samantha Fore (UC Davis)*, Applications of Photon Antibunching in Biology
14:30 p.m.	*Rainer Erdmann (PicoQuant)*, The MicroTime 200 - An All In One Solution for Time-Resolved Confocal Microscopy
15:00 p.m.	Coffee break
15:30 p.m.	Hands-on: hardware explanation (MicroTime 200, FluoView 1000 upgraded with FLIM and FCS capabilities) and data analysis tutorial
19:00 p.m.	Hands-on: individual discussion
20-22 p.m.	Dinner

Friday, January 20, 2006

8:30 a.m.	*Markus Jager (UCLA)*, Probing Early Events in Protein Folding by Single Molecule FRET and Microfluidic Laminar Flow Mixing
9:10 a.m.	*Carl Hayden (Sandia Natl. Lab.)*, Time-resolved, multi-spectral imaging of single molecules
9:50 a.m.	*Daniele Gerion (LLNL)*, Qdot-Based Probes for Watching Biomolecules Rock'n Roll
10:20 a.m.	Coffee break
10:50 a.m.	*Uwe Ortmann (PicoQuant)*, FLIM and FCS Upgrade Kit for Laser Scanning Microscopes
11:30 a.m.	*Thomas Dertinger (FZ Jülich),* Two Focus FCS using PIE
12:00 p.m.	*Michael Börsch (Univ. Stuttgart)*, Three-Dimension Localization of the a-Subunit in F_0F_1-ATP Synthase by Time Resolved Single-Molecule FRET
12:30 p.m.	Lunch break
13:15 p.m.	Hands-on: hardware explanation (MicroTime 200, FluoView 1000 upgraded with FLIM and FCS capabilities) and data analysis tutorial
15:45 p.m.	Hands-on: individual discussion
17:00 p.m.	End