3rd Hands-On Workshop on Making Single Molecule Fluorescence (Lifetime) Measurements Simple

January 17-18, 2008

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

CENTER for BIOPHOTONICS SCIENCE and TECHNOLOGY

PicoQuant GmbH

Thursday, January 17, 2008

9:00 am	**Registration**
9:40 am	**Rainer Erdmann** *(PicoQuant GmbH, Germany)* Welcome & Brief Introduction of PicoQuant
10:00 am	**Jörg Enderlein** *(University of Tübingen, Germany)* Single Molecule Fluorescence Spectroscopy
10:40 am	**Ammasi Periasami** *(W.M. Keck Center for Cellular Imaging, Charlottesville, USA)* Monitoring protein-protein interactions in living specimens: which technique is good?
11:10 am	**Ted Laurence** *(Lawrence Livermore National Laboratory, Livermore, USA)* Single molecule study of a processivity clamp sliding on DNA and confocal fluorescence lifetime imaging of optical materials
11:40 am	**Thomas Dertinger** *(University of California, Los Angeles, USA)* Two-Focus-FCS - monitoring structural changes of biomolecules
12:10 pm	**Lunch break** (for all participants)
1:10 pm	**Markus Sauer** *(University of Bielefeld, Germany)* Fluorescence Techniques to Study Optical Switches, Waveguides, and (Bio)molecular Dynamics at the Single-Molecule Level
1:50 pm	**Peter Kner** *(University of California, San Francisco, USA)* Enabling High-Resolution Imaging Deep In Live Tissue With Adaptive Optics
2:20 pm	**Felix Koberling** *(PicoQuant GmbH, Germany)* The MicroTime 200 - An All In One Solution for Time-Resolved Confocal Microscopy
3:00 pm	**Samantha Fore** *(UC Davis, Sacramento, USA)* Single molecule protein interaction studies using FCS inside metal nano-apertures at hysiologically relevant concentration
3:30 pm	**Move buildings & Coffee break** (for participants of hands-on sessions only)
4:15 pm	**Hands-on sessions**
5:30 pm	Change groups
5:45 pm	**Hands-on sessions**
7:00 pm	**Reception** (for participants of hands-on sessions only)

Friday, January 18, 2008

8:15 am	**Dennis Matthew** *(UC Davis, Sacramento, USA)* Introduction to the Center for Biophotonics
8:35 am	**Christian Eggeling** *(MPI Göttingen, Germany)* Far-Field Microscopy with Nanoscale Resolution
9:15 am	**Zygmunt "Karol" Gryczynski** *(University of North Texas, Fort Worth, USA)* Single Molecule Immunoassay - Nanophotonic Approach
9:45 am	**Laura Marcu** *(UC Davis, Sacramento, USA)* Fluorescence Lifetime Spectroscopy of Biological Tissues
10:15 am	**Coffee break** (for all participants)
10:45 am	**William A. Eaton** *(NIH, Bethesda, USA)* Applications of single molecule fluorescence measurements to the protein folding problem
11:25 am	**Uwe Ortmann** *(PicoQuant GmbH, Germany)* FLIM and FCS Upgrade Kit for Laser Scanning
11:55 am	**Thomas Huser** *(UC Davis, Sacramento, USA)* Time-resolved multiphoton fluorescence and CARS microscopy
12:25 pm	**Alexey Ladokhin** *(University of Kansas Medical Center, Kansas City, USA)* FCS Study of pH-Triggered Membrane Protein Insertion
12:55 pm	**Move buildings & Lunch break** (for participants of hands-on sessions only)
2:00 pm	**Hands-on sessions**
3:15 pm	Change groups
3:30 pm	**Hands-on sessions**
4:45 pm	**End**