4th Hands-On Workshop on Making Single Molecule Fluorescence (Lifetime) Measurements Simple



Thursday, January 22, 2009

2:20 pm

3:00 pm

3:30 pm

5:00 pm

5:15 pm

7:00 pm

4:15 pm

January 22-23, 2009

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



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)
	Dual-focus Confocal Fluorescence Spectroscopy
10:40 am	Jim Schuck (Lawrence Berkeley National Laboratory, USA)
	Non-blinking and Photostable Upconverted Luminescence from Single Lanthanide-doped
	Nanocrystals
11:10 am	Carl Hayden (Sandia National Laboratories, USA)
	Time-resolved, Multi-spectral, Single Molecule Spectroscopy
11:40 am	Fernando Stefani (ICFO, Barcelona, Spain)
	Laser Heating of Gold Nanoparticles: "Icebreakers" for Phospholipid Membranes
12:20 pm	Lunch break (for all participants)
1:20 pm	Sebastian Wachsmann-Hogiu (UC Davis, Sacramento, USA)
	All-optical Time-gated Raman / Fluorescence Micro-spectroscopy
1:50 pm	Felix Koberling (PicoQuant GmbH, Germany)
	Recent Technical Developments in Time-Resolved Microscopy down to the Single
	Molecule Level

Samantha Fore (PicoQuant Photonics North America Inc., USA)

Coffee break (for participants of hands-on sessions only)

Reception (for participants of hands-on sessions only)

of Biomolecular Interactions and Dynamics

Hands-on sessions

Hands-on sessions

Change groups

Full Fluorescence Correlation Analysis - From Picoseconds to Seconds - For the Study

Friday, January 23, 2009		
8:30 am 8:45 am 9:00 am	Coffee Intro to CBST Andreas Schoenle (MPI Göttingen, Germany)	
9:45 am	Photoswitching enables the observation of biomolecular dynamics on the nanoscale Zygmunt "Karol" Gryczynski (University of North Texas, Fort Worth, USA) FRET in Single Molecule Detection Format - Applications to Single Antibody Immunoassay	
10:15 am	Coffee break (for all participants)	
10:45 am	Tingjuan Gao (UC Davis, Sacramento, USA) tba	
11:15 am	Mircea Cotlet (Brookhaven National Laboratory, USA) Single Molecule Energy and Electron Transfer in Model Multichromophoric Systems	
11:55 am	Rainer Erdmann (PicoQuant GmbH, Germany) Advanced FRET and FCS Measurements with Laser Scanning Microscopes Based on Time-resolved Techniques	
12:25 pm	Lunch break (for all participants)	
1:30 pm	Thomas Huser (UC Davis, Sacramento, USA) Time-resolved Coherent Anti-Stokes Raman Scattering (T-CARS) Microscopy	
2:00 pm	Gopal lyer (UCLA, USA) Quantum Dot Labeling of Single Single-chain Fragment Antibody Tagged Proteins	
2:30 pm 2:45 pm	Move buildings Hands-on sessions	