5th Hands-On Workshop on
Making Single Molecule Fluorescence (Lifetime) Measurements Simple

April 26 -28, 2010

Joint workshop between PicoQuant GmbH and the Brookhaven National Laboratory

PicoQuant GmbH

BROOKHAVEN NATIONAL LABORATORY

Monday, April 26	
9:00 am	**Registration**
9:30 am	**Emilio Mendez and Mircea Cotlet,** BNL
	Welcome & Brief Introduction to BNL
9:50 am	**Rainer Erdmann,** PicoQuant
	Welcome & Brief Introduction to PicoQuant
10:15 am	**Joseph R. Lakowicz,** University of Maryland, CFS
	Single Molecule Detection and Photophysics Using Plasmonic Nanostructures
11:00 am	**Antoine Van Oijen,** Harvard University
	Single-Molecule Studies of Multi-Protein Complexes
11:45 am	**Denys O. Marushchak,** University of Toronto Mississauga
	Single Molecule Time Resolved Multiparameter FRET Measurements on dsDNA
12:15 pm	**Lunch break**
1:15 pm	**Rainer Erdmann,** PicoQuant
	Advanced FRET and FCS Measurements with Laser Scanning Microscopes Based on Time-resolved Techniques
2:00 pm	**Elizabeth Rhoades,** Yale University
	Probing the Conformations of Polymorphic Proteins
2:45 pm	**Lisa Marshall,** MIT
	Combining FCS and Interferometry to Extract Spectral Dynamics from Single Chromophores in Solution
3:15 pm	**Coffee break**
3:45 pm	**Hands-on session 1**
5:15 pm	Change groups
5:30 pm	**Hands-on session 2**
7:15 pm	**Poster session with Wine & Cheese reception**

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Tuesday, April 27

8:30 am	**Coffee**
9:00 am	**Haw Yang,** Princeton University Protein Large-Amplitude Conformational Transitions: Dynamics, Mechanics, and Functional Roles
9:45 am	**Patrick Lajoie,** Albert Einstein College of Medicine of Yeshiva University Monitoring Huntingtin Exon 1 Intermediate Oligomers Formation in Living Cells
10:15 am	**Coffee break**
10:45 am	**Peter So,** MIT Wide-Field Two-Photon Imaging and Microfabrication
11:30 am	**Rainer Erdmann,** PicoQuant Recent Technical Developments in Time-Resolved Microscopy down to the Single Molecule Level
12:00 pm	**Zhihua Xu,** BNL Single Molecule Fluorescence Spectroscopy Studies of Photo-induced Electron Transfer Between CdSe/ZnS Quantum Dots and Fullerene
12:30 pm	**Lunch break**
1:30 pm	**Ahmed A. Heikal,** University of Minnesota Duluth Single Molecule Diffusion Studies of MHC Class I Proteins in Fibroblast Cells
2:15 pm	**Michael Previte,** Life Technologies FRET-Based Real-Time Single-Molecule DNA Sequencing Using Protein-Chimeras
2:45 pm	**Thomas D. Christian,** Yale University Single-Molecule Measurements of Synthesis by DNA Polymerase with Base-Pair Resolution
3:15 pm	**Coffee break**
3:45 pm	**Hands-on session 3**
5:15 pm	Change groups
5:30 pm	**Hands-on session 4**
7:00 pm	**end**

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Wednesday, April 28	
8:30 am	**Coffee**
9:00 am	**Mircea Cotlet,** BNL All in One Protein: FRET, Kindling and Blinking in Single Proteins of HcRed
9:45 am	**Samantha Fore,** PicoQuant Photonics North America Antibunching & Time Resolved Single Molecule Emission Studies of the MEH-PPV Conjugated Polymer System
10:15 am	**Mathew M. Maye,** Syracuse University Single Molecule Observation of PL Enhancement in Qdot-Nanoparticle Heterodimers
10:45 am	**Coffee break**
11:15 am	**Zygmunt "Karol" Gryczynski,** University of North Texas Plasmonic Approach to Study Biological Processes
12:00 pm	**Anton V. Malko,** University of Texas at Dallas Excitonic Pathways in Colloidal Nanocrystals Uncovered by Time–Resolved Single Dot Microscopy: From Non-Blinking gdots to Organic/Inorganic Energy Transfer
12:30 pm	**end**