

Detailed Program

Symposium FLIM2010

Humboldt-Bau, Room 211/212

Monday September 13th

Time	Title	Speaker
1:30 - 1:35 PM	Welcome speech	Jens Haueisen

Instrumentation & Algorithms

1:35 – 4:35 PM

Chair: Dietrich Schweitzer (Friedrich Schiller University of Jena, Jena)
Keynote Speaker: Paul French (Imperial College London, London)
Speakers: Wolfgang Becker (Becker & Hickl GmbH, Berlin)
Sandra Orthaus, (Picoquant GmbH, Berlin)
Matthias Klemm (Ilmenau University of Technology, Ilmenau)
Karsten König (Saarland University, Saarbrücken)

Time	Title	Speaker
1:35 - 2:25 PM	<i>Key Note Lecture:</i> Multidimensional fluorescence imaging and metrology for high content analysis and label-free diagnosis	Paul French
2:25 - 2:50 PM	Probing Molecular Interactions by Fluorescence Lifetime Imaging	Wolfgang Becker
2:50 - 3:10 PM	<i>Coffee Break</i>	
3:10 - 3:35 PM	Recent Developments in Hardware and Data Analysis Schemes for FLIM	Sandra Orthaus
3:35 - 4:00 PM	A layer based approach for multi-exponential fitting of autofluorescence data in the human eye	Matthias Klemm
4:00 - 4:25 PM	Clinical fluorescence lifetime imaging in dermatology	Karsten König

Time	Title
4:30 - 6:30 PM	Guided tour through the Institute of Biomedical Engineering including Ophthalmology Laboratory

Time	Title
7:00 PM	Dinner in restaurant of hotel "Lindenhof" for all referents

Tuesday September 14th

In-vitro Measurements

9:00 AM - 12:40 PM

Chair: Wolfgang Becker (Becker & Hickl GmbH, Berlin)
Keynote Speaker: Mary-Ann Mycek (College of Engineering, University of Michigan, Michigan)
Speakers: Herbert Schneckenburger (University of Applied Sciences Aalen, Aalen)
Yoko Miura (University of Lübeck, Lübeck)
Alzbeta Chorvatova (International Laser Centre, Bratislava)
Daniela Strat (Ulm University, Ulm)
Sven Peters (Friedrich Schiller University of Jena, Jena)
Martin Hammer (Friedrich Schiller University of Jena, Jena)

Time	Title	Speaker
9:00 - 9:50 AM	<i>Key Note Lecture:</i> Quantitative Molecular Sensing in Live Cells via Fluorescence Lifetime Measurements	Mary-Ann Mycek
9:50 - 10:15 AM	Techniques, Applications and Relevant Light Doses of Fluorescence Lifetime Imaging Microscopy (FLIM)	Herbert Schneckenburger
10:15 - 10:40 AM	Investigation of the effects of the lipid peroxidation product, 4-Hydroxynonenal (HNE), by time-resolved spectroscopy of NAD(P)H fluorescence in living cells	Alzbeta Chorvatova
10:40 - 11:05 AM	Spectrally resolved fluorescence lifetime imaging (SLIM) for the Global Analysis of FRET	Daniela Strat
11:05 - 11:25 AM	<i>Coffee Break</i>	
11:25 - 11:50 AM	Appearance of autofluorescence in RPE cells at the rim of photocoagulation	Yoko Miura
11:50 AM – 12:15 PM	2 photon application for in-situ investigation of ocular fundus samples	Sven Peters
12:15 - 12:40 PM	Autofluorescence of the retina and retinal pigment epithelium under photo - oxidative stress as an in vitro model for pathogenic aspects in age – related macular degeneration	Martin Hammer
12:40 - 2:00 PM	<i>Lunch break</i>	

Clinical Application

2:00 - 5:15 PM

Chair: Mary-Ann Mycek (College of Engineering, University of Michigan, Michigan)
Keynote Speaker: Dietrich Schweitzer (Friedrich Schiller University of Jena, Jena)
Speakers: Susanne Jentsch (Friedrich Schiller University of Jena, Jena)
Lydia Deutsch (Friedrich Schiller University of Jena, Jena)
Martin Kaatz (University of Applied Sciences Saarbrücken, Saarbrücken)
Matthias Klemm (Ilmenau University of Technology, Ilmenau)
Alexander Dietzel (Ilmenau University of Technology, Ilmenau)

Time	Title	Speaker
2:00 - 2:50 PM	<i>Key Note Lecture:</i> Fluorescence lifetime imaging of the living human retina	Dietrich Schweitzer
2:50 - 3:15 PM	Characterization of ocular tissues measured by fluorescence and excitation spectra as well as fluorescence lifetime imaging	Susanne Jentsch
3:15 - 3:40 PM	Ophthalmic FLIM for discrimination of diabetics and healthy subjects	Lydia Deutsch
3:40 - 4:00 PM	Coffee Break	
4:00 - 4:25 PM	Reproducibility of Ophthalmic Lifetime Mapper measurements	Matthias Klemm
4:25 - 4:50 PM	Co-registration of FLIM and OCT measurements of the human eye	Alexander Dietzel
4:50 - 5:15 PM	In vivo diagnosis of malignant melanoma by multiphoton laser tomography	Martin Kaatz