

Recent Trends in Time Resolved Spectroscopy and Microscopy

The Center for Advanced Laser Spectroscopy and Microscopy (*Leuven Laser Center*) is organizing a one-day workshop highlighting up-to-date aspects of ongoing research in time resolved spectroscopy and microscopy.

The event will be held on **April 17, 2008** from 09:30 to 17:00 at the Arenberg III Campus of the Katholieke Universiteit Leuven (KUL) in Leuven, Belgium, Celestijnenlaan 200F, room 00.09.

Among others, there will be the following invited talks:

Villy Sundström, Chemical Physics, Lund University, Sweden:

Nanostructured materials for solar energy conversion – light to charge

Ludger Woeste, Freie Universität Berlin, Germany:

Infrared spectroscopy for obtaining structural information about mixed metal oxide clusters

Markus Sauer, Bielefeld Institute for Biophysics and Nanoscience (BINAS), Germany:

Molecular optical waveguides and switches

M. J. Therien, University of Pennsylvania, USA:

Coupled-Oscillator Photophysics and the Elaboration of Chromophores with Exceptional Molecular Hyperpolarizabilities and 2-Photon Absorptive Cross-Sections

At the conclusion of the workshop, a visit to the laser laboratories of LLC will be organized. A more detailed schedule of the workshop will be announced soon. Everybody interested is welcome. Participation is free, however pre-registration is appreciated via email to LLC-contact@kuleuven.be.

For more information, visit our website www.kuleuven.be/LeuvenLaserCenter or contact us at LLC-contact@kuleuven.be

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The event will be held on **April 17, 2008** from 09:30 to 16:30h at the Arenberg III Campus of the Katholieke Universiteit Leuven (KULeuven) in Leuven, Belgium, Celestijnenlaan 200F, room 00.09. Please find the detailed program attached.

During the workshop, coffee and a sandwich lunch will be provided (for the latter pre-registration is required). At the conclusion of the workshop, a visit to the laser laboratories of LLC will be organized.

Everybody interested is welcome. Participation is free, however pre-registration is appreciated via email to LLC-contact@kuleuven.be.

For more information, visit our website www.kuleuven.be/LeuvenLaserCenter or contact us at LLC-contact@kuleuven.be.

Financial support by Newport/Spectra Physics and the werkgemeenschap mikroskopie (FWO) is greatly acknowledged.

LLC Workshop 17.4.2008: Program

09:30 Arrival, Coffee

09:50 **Welcome, Opening, Organizational Remarks (M. Van der Auweraer)**

Session I: Nonlinear Optics (Chair: K. Clays)

10:00 M. J. Therien, University of Pennsylvania, USA

Coupled-oscillator photophysics and the elaboration of chromophores with exceptional molecular hyperpolarizabilities and 2-photon absorptive cross-sections

10:45 I. Asselberghs, LMEP, Katholieke Universiteit Leuven, Belgium

Switching of the nonlinear optical response at the molecular level

11:10 Coffee Break

Session II: Time Resolved Spectroscopy (Chair: M. Van der Auweraer)

11:25 V. Sundström, Chemical Physics, Lund University, Sweden

Nanostructured materials for solar energy conversion – light to charge

12:10 E. Fron, LPS, Katholieke Universiteit Leuven, Belgium

Conformational dynamics of perylenediimide studied by pump-dump-probe-spectroscopy

12:35 **Lunch Break**

Session III: Clusters (Chair: P. Lievens)

14:00 L. Wöste, Freie Universität Berlin, Germany

Infrared spectroscopy for obtaining structural information about mixed metal oxide clusters

14:45 M. Di Vece, LVSM-CLASS, Katholieke Universiteit Leuven, Belgium

Laser spectroscopy of nanoparticles and clusters

15:10 Coffee Break

Session IV: Microscopy (Chair: J. Hofkens)

15:25 M. Sauer, Bielefeld Institute for Biophysics and Nanoscience (BINAS), Germany

Molecular optical waveguides and switches

16:10 J. Hotta, LPS, Katholieke Universiteit Leuven, Belgium

High resolution microscopy

16:35 **Closing Remarks (P. Lievens)**

16:40 **Opportunity to visits the labs of LLC**