# The Third iCeMS SEMINAR

#### Lecturer: Prof. Stefan W. Hell

Max Planck Institute for Biophysical Chemistry

### Fluorescence Nanoscopy

#### Lecturer: Dr. Tanjief Szellas

Leica Microsystems CMS GmbH

## Beyond the Limits: STED –Superresolution Microscope

#### Date & Time: April 16, 2008, 15:00-17:00 Venue: Roof Terrace

Institute for Frontier Medical Sciences, 5F of the East Building

Prof. Stefan W. Hell invented "Stimulated Emission Depletion" microscopy, called the "STED microscopy", a new method for super-resolution optical nano-microscopy. In this presentation, he will talk about the principles, new developments, and recent applications of the STED microscopy. In addition, he will present other new methods of nanoscopy using optical microscopes. Dr. Tanjief Szellas was involved in developing the commercial version of the STED microscope, and he will explain its characteristics. In addition, a demo instrument will be set up in the Kusumi lab of the iCeMS (located at Kinki-Chihou Hatsumei Center, East Building), where we will hold a workshop so that interested researchers can try it with their own samples. One has to sign up for this workshop in advance.

## Workshop

Date: April 17, 18, 21, 22, 23 10:00 - 16:00 Venue: Kusumi lab at Kinki-Chihou Hatsumei Center, East Building Sessions: 5 researchers/group (half-day session) x 2 groups/day

For signing up, contact Prof. Kusumi (akusumi@frontier.kyoto-u.ac.jp) or Leica Microsystems (marketing@leica-microsystems.co.jp).

Bring your own samples. However, to keep the microscopy room clean, and clear of fluorescent materials, the samples must be tightly sealed. In addition, strongly fluorescent samples cannot be brought into the room. Normal microscopic experiments are in progress in parallel, and therefore, please do not become a bother to the researchers there.