

France-Japan Worshop

Place : Amphithéâtre Marie Curie, ENS Cachan, France From 12th to 13th December 2011



The Nanotech Revolution from Science to Society: A Time for Passion and A Time for Reason

Day 1: 12h December 2011

08h30 Welcome coffee

09h30 Opening session : Jean-Yves Mérindol, ENS Cachan President

Isao Kiso, Ambassador, Japanese delegation of UNESCO

JSPS Head Office

CNRS Paris

Session 1:

10:00 Joseph ZYSS (French coordinator)

Some personal views on current challenges in nanoscale nonlinear optics

10:30 Seizo MIYATA (Japanese coordinator)

Title to come

11:00 Teruo OKANO (Tokyos Women's Medical University)

Intelligent Polymer Surfaces for Cell Sheet Tissue Engineering

Patrick COUVREUR (Université Paris XI, Chatenay-Malabry)

Nanomedicine for cancer treatment and theragnostic

12:20 Lunch

Session 2:

14:00 Fabrice CHARRA (CEA Saclay)

Self-assembly: mastering photonic processes at nanoscale

Thomas EBBESEN (Isis and Louis Pasteur University, Strasbourg)

Light, Metal and Molecules

Sophie BRASSELET (groupe MOSAIC, Institut Fresnel, Marseille)

Revealing nano-scale molecular processes in biology using polarized Optical microscopy

16:00 Coffee break + Poster session

17:00 Yasuhiro KOIKE (Keio Photonics Research Institute)

High-Bandwidth and High-Resolution Photonics Polymers towards Face-to-face communication

Yasuo KITAOKA (Director of Nanotechnology Development at MEXT and Osaka University)

Japan's R&D Strategy of Nanotechnology

Day 2: 13h December 2011

Session 3:

08:30 Ludovic JULLIEN (Laboratoire Pasteur, ENS Paris)

Light driven behavior at nano- and microscales

Jean-Pierre MAJORAL (CNRS Toulouse)

Functional dendrimers: from chemistry and biology to medicine

Noritaka MIZUNO (University of Tokyo)

Design of Highly Functionalized Polyoxometalate-based Nano-structured Catalysts by Hierarchical Three-dimensional Control of their Structures

10:30 Coffee break

11:00 Kazunori KATAOKA (University of Tokyo)

Supramolecular Nanodevices from Functionalized Block Copolymers for Molecular Therapy

Thierry LIVACHE (Institut Nanosciences et Cryogénie, Université Joseph Fourier)

Seeing biological events with plasmon resonance: from molecular binding to complex cellular interaction

Session 4:

14:00 Hiroyukli SASABE (Chitose Institute of Science and Technology)

New Era of Hyper-Structured Molecules

Gérard DUJARDIN (Université Paris XI)

Quantum phenomena at the atomic-scale; from fundamental issues to a real atomic-scale technology

Junji WATANABE (Tokyo Institute of Technology)

Thermotropic liquid crystalline behavior with nano-scaled layer thicknesses

16:00 Coffee break

16:30 Pascale SENELLART (Laboratoire de Physique des Nanostructures, Marcoussis)

Semiconductor deterministic bright sources of quantum light

Chihaya ADACHI (Kyushu University)

Challenges for novel organic light emitting devices

17:50: Closing remarks – Organizers

End of scientific sessions