

The 4th France - Japan Workshop on Nanomaterials

March 3-5, 2003 (Toshi Centre Hotel)

Program

March 3, Monday

12:00-12:15 **Opening Address** (Kawai & Etourneau)

1. Nanoparticles, Clusters and Properties (Rm 701)

(Chairperson : C.BRECHIGNAC, M.KAMO)

- 12:15-12:45 Masatake HARUTA
Size dependency of catalysis of gold nanoparticles deposited on base metal oxides
- 12:45-13:15 Mona TREGUER-DELAPIERRE
Intrinsic fluorescence from individual oxidized silver nanoparticles.
- 13:15-13:45 Catherine BRECHIGNAC
Nano-chain formation from oxidized silver cluster deposition.
- 13:45-14:00 <Coffee Break>
- 14:00-14:30 Kazuto HASHIMOTO
Novel technologies for environmental preservation using TiO₂ nanoparticles
- 14:30-15:00 Marie-Paule PILENI
Role of soft colloidal templates in controlling the size and shape of inorganic nanocrystals.
- 15:00-15:30 Masahiko HARA
Self-assembled monolayer and bio-interface
- 15:30-16:00 Albert MASSON
Rayleigh fragmentation of silver nano-fractals.
- 16:00-16:30 Patrice MELINON
Cage-like clusters-based materials
- 16:30-17:00 Jean-Pierre MAJORAL
Phosphorus dendrimers, tuneable nano-objects for nanosciences.
- 18:30 <Reception> (Matsu)

March 4, Tuesday

2. Nanostructured Thin Films (Rm 701)

(Chairperson : M.DRILLON, K.HASHIMOTO)

- 8:30- 9:00 Tomoji KAWAI
Artificially structures materials which show giant properties at room temperature
- 9:00- 9:30 Wilfrid PRELLIER
Strain effects in charge-ordered manganite thin films.
- 9:30-10:00 Clément SANCHEZ
*Designed construction of hybrid organic-inorganic materials :
From nanostructured hybrids to hierarchical structures*
- 10:00-10:15 **Coffee Break**
- 10:15-10:45 René GUINEBRETIERE
*Nanostructured oxide thin films through sol-gel route.:
Elaboration and microstructural analysis using X-ray diffraction.*
- 10:45-11:15 Toyoki KUNITAKE
*Noval Preparative Approach for Organized Micro/Nano Films-Self Organization,
Layer-by-Layer Assembly and Nano-Copying*

3. Nanostructured Metals, Glasses and Applications (Rm 701)

(Chairperson : M.DRILLON, T.KUNITAKE)

- 11:15-11:45 Kazuyuki HIRAO.
Nanotechnology on glass materials applied for photonic devices
- 11:45-12:15 Dominique MAILLY
*Nanofabrication and nanophysics at the Laboratory of Photonics and Nanostructures
(LPN).*

