

The Second International Symposium on Interdisciplinary Materials Science



March 9–10, Tsukuba

[Site] Tsukuba International Congress Center (EPOCHAL TSUKUBA)

Program

March 9 (Monday)

Session 1 Functionality in Molecular Assembly (9:20~12:00)

Nanoparticles of Switchable Iron (II) Spin-crossover Materials: Molecular Engineering in Confined Media Jean-François Létard (Université Bordeaux)

Functionality of Prussian Blue Lattice Mediated by **Guest-host Interaction**

Yutaka Moritomo (University of Tsukuba)

Molecular Donor-Acceptor Compounds as Functional Components of Organic Field-Effect Transistors

Tatsuo Hasegawa (National Institute of Advanced Industrial Science and Technology)

Ferromagnetic Properties of Alkali-Metal Clusters **Arrayed in Zeolite Crystals**

Yasuo Nozue (Osaka University)

Physical Properties in Nano-Assembled Materials: **Endohedral Atoms and Molecules in Confined Nanospaces**

Katsumi Tanigaki (Tohoku University)

Session 2 Specific Field and Functional Molecules (15:30~18:00)

Supramolecular Fluorescent Probes for Bioimaging Bradley D. Smith (University of Notre Dame)

Molecular Response System Based on Hexaphenylethanes: Toward the Realization of **Unimolecular Memory and Multi-functional Properties** Takanori Suzuki (Hokkaido University)

Photochemistry on Nano-engineered Au Structures Hiroaki Misawa (Hokkaido University)

Reactivity of Disilyne with a Silicon-Silicon Triple Bond Masaaki Ichinohe (University of Tsukuba)

Reception (18:30)

March 10 (Tuesday)

Session 3 Surface and Interface Science $(9:00\sim11:30)$

Spin Detection with a Scanning Tunneling Microscope Qi-Kun Xue (Tsinghua University)

Atomically Controlled Diamond Surfaces

Norio Tokuda (National Institute of Advanced Industrial Science and Technology)

Microscopic Analysis on Surface Roughness of SiO2 Films Grown on Atomically Flat Si (111)

Ryu Hasunuma (University of Tsukuba)

STM/AFM Studies of Self-Assembled Monolayers and **Molecular Recognition**

Masahiko Hara (Tokyo Institute of Technology)

Forming Highly Ordered Arrays of DNA Nanofibers by **Solvent Evaporation**

Hidenobu Nakao (National Institute for Materials Science)

Session 4 Environmental and Biomaterial Science and Technology

(13:00~15:30)

Biomass - A Solution for Energy and Environment Mohammad Asadullah (University of Rajshahi)

Development of Catalysts for Conversion of Biomass to Fuels and Value-added Chemicals

Keiichi Tomishige (University of Tsukuba, JST, MANA)

Green Chemistry: Transformation of Carbon Dioxide

Hiroyuki Yasuda (National Institute of Advanced Industrial Science and Technology)

Nano Photocatalysis: An Ultimate Green Technology for a Sustainable Society

Jinhua Ye (National Institute for Materials Science)

Synthesis of Renewable Chemicals by Catalytic **Conversion of Non-food Biomass**

Atsushi Fukuoka (Catalysis Research Center, Hokkaido University)

Deadline for poster abstract submission: 23 February, 2009 [Participation fee] Free of charge (Reception fee: 3,000 JPY). [E-mail address for registration] isims2009@lt.px.tsukuba.ac.jp

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Ascend the escalator at Exit A3 of TX Tsukuba Station, and then climb the stairs immediately in front of you. Turn right and walk south along the pedestrian street and you will reach Tsukuba International Congress Center in about 10 minutes.