

NANO MAT 2017

12TH JAPAN-FRANCE WORKSHOP ON NANO-MATERIALS

3RD WPI WORKSHOP ON MATERIALS SCIENCE

I²CNER Hall, Ito Campus, Kyushu University

WEDNESDAY, MAY 17, 2017

8:30 AM **REGISTRATION**

9:00 AM **OPENING REMARKS**

Introduction of WPI Centers

I²CNER: Petros Sofronis, Director, I²CNER, Kyushu University

AIMR: Masaru Tsukada, Administrative Director, AIMR, Tohoku University

MANA: Yoshio Bando, Executive Advisor, MANA, NIMS

iCeMS: Susumu Kitagawa, Director, iCeMS, Kyoto University

Session 1

Chair: Dmitri Louzguine, AIMR, Tohoku University

9:40 AM "Switching between H₂ and O₂ Activation"

Seiji Ogo, I²CNER, Kyushu University

10:15 AM "Synthesis and Characterizations of New Nanocomposites Materials

Based on Metal Atoms Clusters and/or Oxide Nanocrystals for Biomedical, Optical, Energy and Environmental Applications"

Fabien Grasset, NIMS

10:50 AM **GROUP PHOTO**

COFFEE BREAK

Session 2

Chair: Emmanuel Fort, ESPCI Paris

11:20 AM "Plasmonic NanoArchitectonics for Energy Conversion"

Tadaaki Nagao, MANA, NIMS

11:55 AM "New Materials for Fabrication of Efficient Near Infrared OLEDs and Organic Solid-state Lasers"

Anthony D'Aleo, Aix-Marseille University

12:30 PM **LUNCH**

Session 3

Chair: Shigenori Fujikawa, I²CNER, Kyushu University

- 1:30 PM "Porous Materials towards Gas Biology Applications"
Shuhei Furukawa, iCeMS, Kyoto University
- 2:05 PM "Surface-supported Covalent Organic Networks"
Sylvain Clair, Aix-Marseille University
- 2:40 PM "2D Functional Nanosheets: Soft Chemical Synthesis, Assembly and Properties"
Renzhi Ma, MANA, NIMS
- 3:15 PM **COFFEE BREAK**

Session 4

Chair: Satoshi Horike, iCeMS, Kyoto University

- 3:35 PM "The TEM Nanolab: towards Operando Microscopy of Nanomaterials under Gaseous Environments"
Thierry Epicier, University of Lyon
- 4:10 PM "Nanoarchitecture in Catalysis by Supported Metallic Particles"
Juliette Blanchard, Sorbonne University
- 4:45 PM "Preparation of Mesoporous LaCoO₃ Perovskite and Applied for Air Electrode of Zn-air Rechargeable Battery"
Tatsumi Ishihara, I²CNER, Kyushu University
- 5:20 PM **TRAVEL TO DINNER**
- 6:00 PM **DINNER**
Venue: Japanese cuisine restaurant UMENOHANA in Nishi-ku, Fukuoka
**by invitation only*

THURSDAY, MAY 18, 2017

- 8:30 AM **REGISTRATION**
- Session 5**
Chair: Anthony D'Aleo, Aix-Marseille University
- 9:00 AM "Emergent Electronic Phenomena in π -electron Nanocarbon Molecular Systems"
Kosmas Prassides, AIMR, Tohoku University
- 9:35 AM "Design and Assembly Strategies of Magnetic Nanoparticles"
Benoit Pichon, University of Strasbourg
- 10:10 AM "Hydrogen Compatibility of Ultra-Fine Grain Austenitic Stainless Steel"
Masanobu Kubota, I²CNER, Kyushu University

10:45 AM **COFFEE BREAK**

Session 6

Chair: Sylvain Clair, Aix-Marseille University

11:05 AM "Nanometric Axial Localization Using Supercritical Angle Fluorescence Light in Super-resolution Microscopy"
Emmanuel Fort, ESPCI Paris

11:40 AM "How a Sheet with Holes Helps the Environment"
Easan Sivaniah, iCeMS, Kyoto University

12:15 PM **LUNCH**
POSTER SESSION

Session 7

Chair: Renzhi Ma, MANA, NIMS

1:30 PM "Conformation Manipulation and Motions of Bisbinaphthylidurene with a Low Temperature STM - Preparation for the International Nanocar race -"
Xavier Bouju, CEMES

2:05 PM "Solid State Ionics and Glass Science of Molecular-based Framework Materials"
Satoshi Horike, iCeMS, Kyoto University

2:40 PM "Symmetry Driven Self-assembly of Molecules on Quasicrystalline Surface"
Vincent Fournee, University of Lorraine

3:15 PM "Metallic Glassy Surfaces: Their Structure and Properties"
Dmitri Louzguine, AIMR, Tohoku University

3:50 PM **COFFEE BREAK**

Session 8

Chair: Xavier Bouju, CEMES

4:10 PM "Chiral Nanohelices as Templates for Organization of Achiral Dyes or Nanoparticles, towards Chiroptical Hybrid Materials"
Reiko Oda, University of Bordeaux

4:45 PM "Topological Data Analysis on Materials Science"
Yasuaki Hiraoka, AIMR, Tohoku University

5:20 PM "Zeroing in on the True Nature of Fluids within Nanocapillaries"
Denis Morineau, University of Rennes

5:55 PM **CLOSING REMARKS**

Denis Morineau, University of Rennes
Yoshio Bando, Executive Advisor, MANA, NIMS

6:05 PM **TRAVEL TO DINNER**

6:15 PM **DINNER**

*Venue: Italian Restaurant ITRI ·ITO on Ito Campus, Kyushu University
by invitation only

FRIDAY, MAY 19, 2017

9:00 AM **I²CNER LABORATORY TOUR**

**by invitation only*

10:00 AM- **EXCURSION**

3:00 PM *Sewage Biogas Hydrogen Station
Dazaifu Tenmangu Shrine
by invitation only