

# PROGRAM

## **Introduction to Global COE & MANA**

9:00-9:20 **Tomoyuki KAKESHITA** (Osaka Univ.)

“Introduction to Global COE program”

9:20-9:40 **Yoshio BANDO** (MANA/NIMS)

“Introduction to International Center for MANA”

## **Oral Presentation**

9:45-10:25 **Yoshio BANDO** (MANA/NIMS)

“Novel Synthesis and Properties of BN Nanotubes and Nanosheets”

10:30-11:10 **Ryoichi NAKATANI** (Osaka Univ.)

“Magnetic Logic Devices Using Small Magnetic Cells”

11:15-11:55 **Daisuke FUJITA** (MANA/NIMS)

“Nanofunctionality Characterization on Semiconductor Surfaces by Scanning Probe Microscopy”

12:00-13:00

Lunch

13:00-13:40 **Yasufumi FUJIWARA** (Osaka Univ.)

“Recent Progress in Rare-earth-doped Semiconductors”

13:45-14:25 **Jinhua YE** (MANA/NIMS)

“Nano Photocatalysis for Solar Chemical Conversion and Environmental Remediation”

14:40-15:20 **Hiromi YAMASHITA** (Osaka Univ.)

“Applications of Single-site Photocatalysts Designed Using Nano-porous Materials”

15:25-16:05 **Kazuhiro HONO** (MANA/NIMS)

“Advances in Laser Assisted 3D Atom Probe”

16:10-16:50 **Hirotao MORI** (Osaka Univ.)

“Dynamic Behaviors of Electron-Irradiation Produced Lattice Defects in Metals”

**Poster presentations** (F2-201, Yamamoto Memorial Hall)

17:00-18:00

**1. Alexei BELIK** (MANA/NIMS)

“Indium-Based Perovskites: a New Class of Near-Room-Temperature Multiferroics”

**2. Takashi FUKUDA** (Osaka Univ.)

“Precursor Phenomena of Martensitic Transformations in Shape Memory Alloys”

**3. Shunsuke TSUDA** (MANA/NIMS)

“Photoemission Study of FeSe and its Substitution Effect”

**4. Hikaru NOMURA** (Osaka Univ.)

“Experimentally Performed NOR Magnetic Logic Gate at Room Temperature”

**5. Canhua LIU** (ICYS-MANA/NIMS)

“Roles of Substrate in Self-alignment of Cobalt Atoms on an Array of Indium Atomic Wires”

**6. Hiroaki NISHIYAMA** (Osaka Univ.)

“Femtosecond Laser Lithography for Photonic Applications”

**7. Pavuluri SRINIVASU** (MANA/NIMS)

“Novel Ordered Nanoporous Materials for Electrochemical Cells”

**8. Hiroaki TSUCHIYA** (Osaka Univ.)

“Self-Organized Anodic TiO<sub>2</sub> Nanotube Arrays: Formation, Characterization, Applications”

**9. Genki YOSHIKAWA** (ICYS-MANA/NIMS)

“Piezoresistive Cantilever Array Bio-Sensors”

**10. Takuya ISHIMOTO** (Osaka Univ.)

“Analysis of Biological Apatite Orientation in Rat Skull Bone”