

PROGRAM

Opening

9:30-9:45 **Tomoyuki KAKESHITA** (Osaka University)
Opening Address

9:45-10:00 **Yoshio BANDO** (MANA/NIMS)
“Present status and future plans of MANA”

Oral Presentations

10:00-10:30 **Yoshio BANDO** (MANA/NIMS)
“Novel synthesis and properties of inorganic semiconducting nanostructures”

10:30-11:00 **Takashi FUKUDA** (Osaka University)
“Some peculiar phenomena of martensitic transformation”

11:00-11:10 Coffee Break

11:10-11:40 **Guoping CHEN** (MANA/NIMS)
“Biomimetic Materials and Polymeric Scaffolds for Tissue Regeneration”

11:40-12:10 **Hiroyuki YASUDA** (Osaka University)
“Fe-based superelastic alloys”

12:10-13:15 Lunch

13:15-13:45 **Toyohiro CHIKYOW** (MANA/NIMS)
“Combinatorial materials research and screening for future nano electronics”

13:45-14:15 **Shinji FUJIMOTO** (Osaka University)
“Characterization of Thick Passive Films on Stainless Steels and Ni-based Alloys
Formed in High Temperature and High Pressure Water Environment”

14:15-14:30 Coffee Break

14:30-15:00 **Kazuhito TSUKAGOSHI** (MANA/NIMS)
“Gate-induced band gap in bilayer graphene”

15:00-15:30 **Yasufumi FUJIWARA** (Osaka University)
“Development of New-Type Light-Emitting Diodes with Rare-Earth Doped
Semiconductors”

15:40-16:55 **Short explanation of Poster Presentations**

Poster Presentations (R2-319)

17:00-18:00

1. Satoshi MORIYAMA (MANA/NIMS)

“Fabrication of quantum dots and nanostructures in graphene”

2. Yu SHIRATSUCHI (Osaka University)

“Perpendicular exchange bias for magneto-electric application”

3. Lok Kumar SHRESTHA (MANA/NIMS)

“Facile Synthesis of Mesoporous C₆₀ Hexagonal Nanosheet via Liquid-Liquid Interfacial Precipitation Method”

4. Tomoyuki TERAJ (Osaka University)

“Neutron and synchrotron diffraction study on magnetic structure in layered perovskites”

5. Ken WATANABE (MANA/NIMS)

“Oxygen tracer diffusion in BaTiO₃ ceramics”

6. Kohsuke MORI (Osaka University)

“Development of organic-inorganic hybrid photocatalysts for H₂ production from water”

7. Fatim HAJJAJ (MANA/NIMS)

“Smart Magnetic Materials with non-Volatile Memory Effect”

8. Hikaru NOMURA (Osaka University)

“Logical operation of arrayed magnetic logic gate”

9. Yuanjian ZHANG (MANA/NIMS)

“Polymeric Carbon Nitrides: Semiconducting Properties and Emerging Photovoltaic Applications”

10. Tomokazu SANO (Osaka University)

“Femtosecond Laser-Shock Processing of Solid Materials”