

# PROGRAM

## **Oral Presentation**

Memorial Hall for Materials Science, Graduate School of Engineering, Osaka University

**Chair:** **Hiroshi Utsunomiya** (Osaka University)

9:30-9:40 Opening Address

**Tomoyuki Kakeshita** (Osaka University)

9:40-10:05 “Selective Formation of L1<sub>0</sub>-type Variant in Co-Pt and Fe-Pd Alloys under Magnetic Field”

**Takashi Fukuda** (Osaka University)

10:05-10:30 “Fabrication and electrical properties of heterolayered multiferroic thin films”

**Sung gap Lee** (Gyeongsang National University)

10:30-10:50 Break

**Chair:** **Hideo Nakajima** (Osaka University)

10:50-11:15 “Pore Behavior in Rolling of Lotus-type Porous Copper”

**Hiroshi Utsunomiya** (Osaka University)

11:15-11:40 “Recycling technology of the waste tire rubber”

**Jin Kuk Kim** (Gyeongsang National University)

11:50-13:00 Lunch Break

13:00-14:20 *Poster Presentation*

**Chair:** **Hiroyuki Yasuda** (Osaka University)

14:30-14:55 “Crystallization behavior and shape memory characteristics of Ti-Ni-Cu alloy ribbons”

**Tae-hyun Nam** (Gyeongsang National University)

14:55-15:20 “Deformation of Porous Metals with Directional Pores”

**Masakazu Tane** (Osaka University)

15:20-15:45 “Fabrication and mechanical properties of A356 aluminum alloy foams”

**Bo-young Hur** (Gyeongsang National University)

15:45-16:00 Break

**Chair:** **Yasufumi Fujiwara** (Osaka University)

16:00-16:25 “*In-situ* TEM observations of phase formations and electronic excitation effects in nanoparticles”

**Hidehiro Yasuda** (Osaka University)

16:25-16:50 “Perpendicular Exchange Bias in Au/Co/ $\alpha$ -Cr<sub>2</sub>O<sub>3</sub>(0001) Thin Film”

**Yu Shiratsuchi** (Osaka University)

16:50-17:00 Closing Address

**Bo-young Hur** (Gyeongsang National University)

### **Poster Presentation**

Yamamoto Memorial Hall, Graduate School of Engineering, Osaka University (Room F2-201)

1. “The Fabrication of Semi-solid AM100A alloy by cooling plate and Hot extrusion of its billets”  
**Dae-Hwan Kim** (Gyeongsang National University)
2. “Fabrication of Ti-Based Porous Implant Materials with Low Young’s Modulus by Electron Beam Melting (EBM) Method”  
**Naoko Ikeo** (Osaka University)
3. “Physical and electrochemical properties of nickel sulfide cathode prepared by sulfuration of electroless plated Ni layer”  
**Jin Ho Ha** (Gyeongsang National University)
4. “Residual Stress Distributions due to Processing of Pipe and Crack Growth Analysis”  
**Ryohei Ihara** (Osaka University)
5. “Carbon nanotube-based thin film acoustic actuators and sensors”  
**Jong ung Byeon** (Gyeongsang National University)
6. “Surface Modification of Cast Iron by Friction Stir Processing”  
**Koichi Imagawa** (Osaka University)
7. “Effect of  $C_2Cl_6$  addition on preventing to the surface oxidation of molten magnesium”  
**Seong-Hwa Choi** (Gyeongsang National University)
8. “Kinetics of martensitic transformation in Ni-Co-Mn-In alloy”  
**Yong Hee Lee** (Osaka University)
9. “Thermal conductivity improvement of PEEK/ZrO<sub>2</sub> coated MWCNT nanocomposites”  
**Choi Yu Jin** (Gyeongsang National University)
10. “Preparation and characterization of spherical metallic nanowire assembly”  
**Shusuke Okada** (Osaka University)
11. “Superelastic cathode for Li ion battery using Ti-Ni alloys”  
**Choe hui Jin** (Gyeongsang National University)
12. “Phase stability in pulse electrodeposited nano-grained Co and Fe-Ni”  
**Fei Xiao** (Osaka University)
13. “Effect of nano-sized Ti<sub>2</sub>Ni particles on martensitic transformation behavior of a Ti-47.3Ni(at%) alloy”  
**Mun Hyo Jung** (Gyeongsang National University)

14. "Magnetic structure in  $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$  ( $x = 0.307$ ) determined by neutron diffraction measurements"  
**Hirosuke Sonomura** (Osaka University)
15. "Electrochemical properties of Si thin film anode with Ti buffer layer"  
**Gyu Bong Cho** (Gyeongsang National University)
16. "Growth of Eu-doped ZnO by sputtering-assisted metalorganic chemical vapor deposition"  
**Takahiro Tsuji** (Osaka University)
17. "Electrical Properties of  $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3\text{-BaTiO}_3$  Ceramics Fabricated by the Physicochemical Method"  
**Sung-Pill Nam** (Gyeongsang National University)
18. "Temperature dependence of direct transition energies in  $\beta\text{-FeSi}_2$  epitaxial films by photoreflectance measurement"  
**Keiichi Noda** (Osaka University)
19. "Role of fillers on halloysite nanotube and clay assisted dispersion of fluoroelastomeric based high performance electronic device"  
**Kaushik Pal** (Gyeongsang National University)
20. "Preparation of Nanosized Pt Particles-Loaded  $\text{TiO}_2$  by Microwave-assisted Deposition Method and Applications in the Photocatalytic Hydrogen Production via Ammonia Decomposition"  
**Koujiro Fuku** (Osaka University)
21. "Change in Hardness Statistics of Copper and Brass Sheet by Cold Rolling"  
**Daejin Yoon** (Osaka University)