

# KBSI ICW 2012

**2012 KBSI International Collaborative  
Workshop :**

**From Nanomaterials to Smart Materials  
– Recent Advances**

**December 20-21, 2012**

**Korea Basic Science Institute (KBSI),  
Daejeon, Korea**

**Organized by**



# **KBSI International Collaborative Workshop**

## **From Nanomaterials to Smart Materials – Recent Advances**

<b>Time</b>	<b>December 20</b>	<b>Time</b>	<b>December 21</b>
9:30~10:00	Registration	10:00~10:30	Dr. G. Papavassiliou
10:00~10:30	Prof. J. Dolinsek	10:30~11:00	Dr. H. J. Lee
10:30~11:00	Dr. D. L. Kim	11:00~11:30	Dr. M. S. Won
11:00~11:30	Dr. S. G. Lee	11:30~11:40	Closing Remark
11:30~12:00	Dr. J. H. Lee		
12:00~13:30	<b>Lunch</b>		
13:30~14:00	Prof. M. H. Jung		
14:00~14:30	Dr. S. Y. Park		
14:30~15:00	Dr. Y. S. Huh		
15:00~15:30	Coffee Break		
15:30~16:00	Dr. J. B. Lee		
16:00~16:30	Dr. W. G. Hong		
16:30~17:00	Dr. J. H. Won		

# Program

**2012. 12. 20 (Thursday)**

9:30~10:00 Registration

## **Session I. Chair: Dr. Hae Jin Kim**

10:00~10:30 Janez Dolinsek (IJS), Canted antiferromagnetism on a nanodimensional spherical surface geometry: The case of  $\text{MnCO}_3$  small hollow nanospheres

10:30~11:00 Dong Lak Kim (KBSI), Research Activities of High Field Magnet System on KBSI

11:00~11:30 Jou Hahn Lee (NCSR), In situ surface analysis for the next generation electronic devices : OLED, OPVs and graphene

12:30~13:30 Lunch (KBSI)

## **Session II. Chair: Dr. Jou Hahn Lee.**

13:30~14:00 Myung Hwa Jung (Sogang Univ.), Crossover between 2D Surface State and 3D Bulk Phase in Topological Insulator  $\text{Bi}_2\text{Te}_3$  by Fe doping

14:00~14:30 Seung Young Park(KBSI), Applied spintronics technology

14:30~15:00 Yun Suk Huh (KBSI), Metal-decorated 3D Macroporous Graphene Heterostructure for High-performance Energy Storage Applications

15:00~15:30 Coffee Break

**Session III. Chair: Dr. Sang Gap Lee**

15:30~16:00 Jin Bae Lee (KBSI), Nanostructured Materials for Hydrogen Energy

16:00~16:30 Woong Ki Hong (KBSI), Hydrogen-induced Morphotropic Phase Transformation of Single-Crystalline VO<sub>2</sub> Nanobeams

16:30~17:00 Jonghan Won (KBSI), TEM Studies of Electron/ion Beam Irradiation on Various Ceramics Materials

18:30~ Welcome Reception

**2012. 12. 21 (Friday)**

**Session IV. Chair: Dr. Yun Suk Huh**

10:00~10:30 Georgios Papavasiliou (NCSR), NMR Studies of stripe-like charge and spin order in hole doped Transition Metal Oxides

10:30~11:00 Ha Jin Lee (KBSI), Evolution of Self-assembled Polymer for Smart Nanostructures

11:00~11:30 Mi Suk Won (KBSI), Development of KBSI Accelerator

11:30~11:40 Closing Remarks