

# **Korea-Japan Symposium 2012 on Advanced Energy System and Materials**

Organized by  
CIDI, ECC and ISBB/Dong-Eui University,  
OASIS/Muroran Institute of Technology, IAE/Kyoto University,  
KAEEA, KITECH, KOFST- Busan Ulsan Regional Federation



Gwangan bridge in Busan

**March. 26-27, 2012,  
DongEui University, Busan, South Korea**



The 2012 Asian-core International symposium on advanced energy system and material will be held on March 26 -27, 2012 at Dong-Eui University in Busan, Korea. The objective of this symposium is to provide a forum to exchange ideas and opinions on newly developing and advanced energy system and materials research to get better understanding of each country to every participant from China, Japan and Korea. Specific areas to be focused this time are newly developing accelerator related activities for materials science and for Fusion-Demo in Busan area and those potential contributions to energy system and materials, especially for ceramic materials. Those will make strong impacts on advanced energy systems and materials.

**Date: March 26 and 27, 2012**

**Place: Industry and University Cooperation Building 2 Floor, CiDi Seminar room #206,  
Dong-Eui University, Busan**

### **Symposium Agenda**

**March 26**

**Chair : Y.S. Yu (Dong-Eui University)**

10:00: Opening Greetings: T.K. Yoon (Dong-Eui University)

**< Advanced Accelerator Facilities and those contribution to Energy Systems and Materials >**

10:10: IBS Status and IBS Proposal from Dong-Eui University: H.K. Yoon (Dong-Eui University)

10:30: Korean Heavy Ion Medical Accelerator Project: S. O. Yang (DIRAMS)

10:50: Recent Status of DuET/MUSTER Facility of Kyoto University: R. Kasada (Kyoto Univ.)

10:50-11:00            *Coffee Break*

**Chair : T. Shibayama (Hokkaido University)**

11:10: Recent Status and Future Plan of KBSI Accelerator in Busan: B. S. Lee, J. H. Yoon, M. S. Won (KBSI)

11:30: KARET-facility at Hokkaido University: T. Shibayama (Hokkaido University)

11:50: Dream Facility Plan and Status: A. Kohyama (Muroran Institute of Technology)

12:10:                    *Lunch*

**< Charged Particle-Ceramic Material Interaction Study >**

**Chair : H. Kishimoto (Muroran Institute of Technology)**

13:30: Functional Property Stabilization in Ceramic Materials: T. Shikama (Tohoku University)

14:00: SiC and GaN related activities at ECC Center, Dong-Eui University: W. J. Lee (Dong-Eui University)

14:20: Microstructure stabilization in SiC: H. Kishimoto (Muroran Institute of Technology)

14:40: Spectroscopic mechanism of the Fiber Bragg Grating Sensor: Y.S. Yu (Dong-Eui University)

15:00: *Coffee Break*

**<Modeling and Simulation of Charged Particle Bombardment>**

**Chair :** T. Watanabe (JAEA, Rokkasho)

15:20: MD Simulation of Irradiation-related Phenomena in Structural Steels: H. S. Nam (Kookmin University)

15:50: Modeling and Simulation of Defects in SiC: T. Watanabe (JAEA, Rokkasho)

16:20: CAD Based Monte Carlo Neutronics Analysis: H. J. Shim (Soul National University)

16:50: *Coffee Break*

**Chair :** A. Kohyama (Muroran Institute of Technology),

H.J.Lee (Busan National University)

17:00: Panel Discussion on “Accelerator and Energy Material Science Research-1”

**17:30: End of the day**

**18:30: Symposium Banquet**

**March 27**

10:00: Group Discussion

12:30: *Lunch*

14:00: Panel Discussion on “Accelerator and Energy Material Science Research-2”

15:30: Summary Session: Summary Report from Task Groups

16:00: Closing: A. Kohyama (Muroran Institute of Technology)

**<Facility Visit: >**

16:30: ECC Center:

17:00: CIDI Institute:

17:30 *End of the day*

**<List of Participants>**

**Korea:**

D. S. Bae (Dong-Eui University)  
Y. S. Jung (KAEEA)  
S. W. Kang (BNU, KOFST- Busan Ulsan Regional Federation)  
G. D. Kim (Halla Industrial Co., Ltd.)  
Y. H. Kim (KAEEA)  
B. S. Lee (KBSI)  
H.J. Lee (Busan National University)  
S.P. Lee (Dong-Eui University)  
W.J. Lee (Dong-Eui University)  
Dae-Geun Nam (KITECH)  
G. W. Nam (Pkyoung National University)  
H. S. Nam (Kookmin University)  
S. G. Park (Kum Kang Co., Ltd.)  
M. Y. Seo (Nuclear Power Sub-MC)  
H. J. Shim (Seoul National University)  
Y. H. Woo (Seong il SIM Co., Ltd.)  
S. O. Yang (KHIMA)  
H. K. Yoon (Dong-Eui University)  
J. H. Yoon (KBSI)  
T. K. Yoon (Dong-Eui University)  
Y. S. Yu (Dong-Eui University)

**Japan:**

R, Kasada (Kyoto University)  
H. Kishimoto (Muroran IT)  
A. Kohyama (Muroran IT)  
S. Konishi (Kyoto University)  
T. Shibayama (Hokkaido University)  
T. Shikama (Tohoku University)  
T. Watanabe (JAEA, Rokkasho)

## How to get Donggeui University



-Bus(limousine(201)) → Gaya Police box → Shuttle bus(6)  
-Taxi (30 min)

### Busan Station

- Bus(59, 61) → Gaya Police box → Shuttle bus(6)

- Subway(for Nopodong) → Transfer to line 2(for Hopo) at Somyon  
→ Donggeui univ. station → Shuttle bus(6, 6-1)



11	College of Engineering
13	Information engineering Building
15	Building for Industry-University Cooperation, Graduate School of Industrial Technology , 2 Flow CiDi , Semnar room number 206
25	International Center, Dong-eui Business School
31	Hyomin Residence Hall (Students Dormitory)
32	Dormitory(for women)

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