5th Korea-Japan Joint Seminar, October 3rd and 4th 2008
Agenda

Seminar Site  University of Tokyo, Komaba Campus
Advanced Research Laboratory  4th Floor, Room Number 409

October 3, 2008 Friday AM
10 : 00-10 : 05  Welcome  Prof. Makoto ASASHIMA, University of Tokyo
10 : 05-10 : 20  Objective of the Seminar: Perspective of Japan
   Prof. Makoto ASASHIMA
10 : 20-10 : 35  Objective of the Seminar: Perspective of Korea
   Prof. Suk Ho CHUNG, Seoul National University

Prof.Toshio.TAGAWA; Chair, 10:35-12:15
■ Fluid Physics
10 : 35-11 : 00  Numerical study of fluid flows in zero-gravity field under external
   magnetic fields
   Prof. Toshio TAGAWA, Tokyo Metropolitan University
11 : 00-11 : 25  Thermophysical property measurement of metallic melts using
   electromagnetic levitation under microgravity and static magnetic
   filed
   Prof. Taketoshi HIBIYA, Keio University
11:25 -11:50  Microgravity flow characteristics in a jittered container
   Mr. Young Moo JI, KAIST, Prof. Jun Sang Park, Halla
   University and Prof. Jae Min Hyun, KAIST

■ Astrophysics
11 : 50 -12 : 15  A new optical payload for next generation ocean remote sensing
   from low earth orbit
   Prof. Sug-Whan KIM, Mr. Soomin JEONG, Mr. Yukyeong
   JEONG and Mr. Dong-ok RYU, Yonsei University

12 : 15-13 : 15  Lunch

October 3, 2008 Friday PM
Prof.Takeshi NIKAWA, Chair, 13:15-15:20
■ Life Science
13:15-13:40  Regulation of cell signaling in a hibernator muscle: how bats overcome
   muscle atrophy during hibernation
   Prof. Inho CHOI and Mr. Kisoo LEE, Yonsei University
13:40-14:05  Cell culture in JEM experiment  Prof. Makoto ASASHIMA
14:05-14:30  Sensing mechanism of unloading stress in skeletal muscle cells
   Prof. Takeshi NIKAWA, Tokushima University

■ Molecular Biochemistry & Biomedical engineering
14:30-14:55  Focused Proteomics Research: Efforts on Earth for Life in Space, A
   personal perspective
Prof. Tae-Sung YOON, Korea Research Institute of Bioscience and Biotechnology
14:55-15:20 High-quality protein crystal growth in microgravity and structural analysis
   Prof. Masau TANOKURA, University of Tokyo

15:20-15:40 Break

Prof. Atsuki KOMIYA, Chair, 15:40-17:50
15:40-16:05 Analysis of noise map inside the ISS-Russian Module
   Prof. Duck-Joo LEE, Prof. Jeong-Gon IH, Mr. Jisung JANG KAIST,
   Ki-Young KIM, SM Instrument Co.

■ Combustion
16:05-16:30 Effect of electric fields on partially premixed flames
   Prof. Suk Ho CHUNG, Seoul National University
16:30-16:55 Some topics of microgravity combustion research in Japan
   Prof. Osamu FUJITA, Hokkaido University

■ Materials Science
16:55-17:20 Precise Measurement Method of Diffusion Field and Its Application to Microgravity Experiments
   Prof. Atsuki KOMIYA, Tohoku University
17:20-17:45 Solidification Microstructure of Mg-Zr Light Alloy under Microgravity
   Prof. Chi-Hwan LEE, Mr. Won-Seung CHO, Mr. Hyoun-woo KIM,
   Inha University,
   Dr. Seung-Mok YOO, Mr. In-Sung CHO, Mr. Jun-Ho HONG,
   Korea Institute of Industrial Technology,
   Prof. Kee-sam SHIN, Changwon National University

17:50-19:00 Reception

October 4, 2008 Saturday AM
Prof. Shinichi YODA, Chair, 10:00-11:00
■ Space Agency Report
10:00-10:30 Space mission in ISS by the Korean astronaut
   Mr. Joo-Hee LEE and Dr. Gi-Hyuk CHOI, Space Science Division, KARI
10:30-11:00 JAXA Space Environment Utilization Program Update
   Mr. Tetsuo TANAKA, Space Environment Utilization Center

Prof. Makoto ASASHIMA, Prof. In Ho CHOI, Prof. Shinichi YODA
and Prof. Suk Ho Chung, Co-Chairs, 11:00-12:45
11:00-12:30 Discussions on Collaborative Research by All
   Summary of the Seminar
12:45 Adjourn