Agenda of 2nd Korea-Japan Joint Seminar on Space Environment Utilization Research

November 18, 2005 Friday

9:20 -9:40 Opening
Opening Remark Prof. Suk Ho CHUNG, Seoul National University
Welcome Address Dr. Chae Yeon-Seok, President, KARI (Tentative)
Explanation on Agenda and Logistics
Prof. Suk Ho CHUNG, Seoul National University
Dr. Gi Hyuk CHOI, KARI

9:40-10:00 Seminar Perspectives
Objective of the Seminar: Perspective of Korea Prof. Suk Ho CHUNG
Seoul National University
Objective of the Seminar: Perspective of Japan Prof. Makoto ASASHIMA
University of Tokyo

10:00-12:10 Space Program Introduction : Chairs Dr. G.-H. Choi and Dr. Y. Fujimori
(25) Korea Space Program:
Dr. Hong Yul PAIK, Director, Space Utilization Center, KARI
(25) ISS/JEM Utilization Program in JAXA:
Mr. Tetsuo TANAKA, Director, Space Environment Utilization Center, JAXA
(20) Manned Space Program in Korea:
Dr. Gi-Hyuk CHOI, Head, Space Science Div., KARI
(20) Current Development Status of Korean Satellite Propulsion Engine:
Prof. Jeong Soo KIM, Sunchon University
(20) Japan’s Space Experiments-Achievements, Experiences and Lessons Learned-
Dr. Hiroo INOGUCHI and Dr. Yoshinori FUJIMORI
(20) Video : NASA Astronaut Dr. Pettit’s View on Future Research in Basic Physics/Chemistry
and Fluid Dynamics, Dr. Yoshinori FUJIMORI

12:10-13:30 Lunch

13:30-14:50 Life Science and Molecular Biochemistry : Chairs Dr. T.-S. Yoon and Prof. M.
Asashima
(20) DNA Microgravity Analysis of Kidney Culture Cells under Microgravity:
Prof. Makoto ASASHIMA, University of Tokyo
(20) Possible Evidence of Hypertensive Vascular Damage in Simulated Microgravity:
Dr. Sang-Ho HWANG, Air Force Medical Center
(20) Mission-Oriented Structural Proteomics Research: From Space to Atoms:
   **Dr. Tae-Sung YOON**, Korea Research Institute of Bioscience and Biotechnology
(20) Space Environment Utilization Researches: Status of Macromolecular Research:
   **Prof. Masaru TANOKURA**, University of Tokyo

14:50-15:20  **Break**

15:20-17:00  **Combustion, Crystal Growth and Basic Physics/Chemistry, ISS Environment**
   **Chairs: Prof. T. Hibiya and Prof. S. H. Chung**
(20) Microgravity Experiments on Combustion and Collaboration between Korea and Japan:
   **Profs. Suk Ho CHUNG**, Seoul National University and **Osamu FUJITA**, Hokkaido University
(20) The Effect of Gravity on the Meniscus Shape and Liquid Flux Thickness of Metal Continuous Casting: **Prof. Kyung-Woo YI**, Seoul National University
(20) Paradigm Shift of Materials Science Triggered by Space Development:
   **Prof. Taketoshi HIBIYA**, Tokyo Metropolitan Institute of Technology
(20) Noise Problem Inside Module on ISS: **Prof. Duck-Ju LEE**, KAIST
(20) Development of Small Mass Measuring Device (SMMD) for ISS:
   **Dr. Jong-Woo KIM**, KARI

**November 19, 2005 Saturday**

9:30  **Possible Future Schemes of Collaboration**
   **Prof. Suk Ho CHUNG**, Seoul National University
   **Prof. Makoto ASASHIMA**, University of Tokyo
   Discussion by all

**Afternoon Tour to KARI Facility**

**November 20, 2005 Sunday**

Reserved for contingency for individual discussions on specifics.