

## Agenda of 2<sup>nd</sup> 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**, Suncheon University

(20) Japan's Space Experiments-Achievements, Experiences and Lessons Learned-

**Dr. Hiroo INOBUCHI 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.