

University of Southern California X Kobe University Joint Research Kick-off Symposium

Date: Thursday, March 31, 2016
Venue: Rokko Hall (Centennial Hall), Rokkodai Campus, Kobe University

9:30 — **Registration** * University of Southern California
** Kobe University

10:00 — 10:10 **Opening Remarks** Executive Vice-President
Matsuto Ogawa **

10:10 — 10:30 **Introduction on University of Southern California** Prof. Aiichiro Nakano *

10:30 — 12:00 **Session 1:**
Research Collaborations on Space Physics Prof. Joseph Wang *
Prof. Hideyuki Usui **

10:30 — 10:50 **Session 1-1:**
Space Plasma Simulations on
the Environment of Small-Scale Airless Bodies in Space Prof. Hideyuki Usui **

10:50 — 11:20 **Session 1-2:**
Modeling Charged Dust Particle Dynamics around Small
Asteroids Prof. Joseph Wang *

11:20 — 11:40 **Session 1-3:**
Scientific Objectives of Small Carry-on Impactor and
Deployable Camera 3 Digital in Hayabusa-2 Mission Prof. Masahiko Arakawa **

11:40 — 12:00 **Session 1-4:**
Full Particle Simulations on Plasma and Dust Environment
near Lunar Vertical Holes Prof. Yohei Miyake **

12:00 — 13:30 **Lunch Break**

13:30 — 15:20 **Session 2:**
Research Collaborations on Molecular Simulations Prof. Aiichiro Nakano *
Prof. Shigenori Tanaka **

13:30 — 13:50 **Session 2-1:**
Possible Applications of Large-Scale Molecular Simulations
toward the Understanding of Real World Prof. Shigenori Tanaka **

13:50 — 14:25 **Session 2-2:**
Toward Exascale Quantum and Reactive Molecular Dynamics
Simulations Prof. Aiichiro Nakano *

14:25 — 15:00 **Session 2-3:**
Ab Initio Study of Mechanism of Shock-Wave-Induced
Ammonia Generation Prof. Kohei Shimamura **

15:00 — 15:30 **Session 2-4:**
FTMP-based Predictions and Evaluations of Deformation-
Induced Patterning and Fracture Prof. Tadashi Hasebe **

15:30 — 16:00 **Break**

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16:00 – 17:30	Session 3: Research Collaborations on Real-Time Hybrid Experiments	Prof. Erik A. Johnson * Prof. Hideo Fujitani **
16:00 – 16:45	Session 3-1: Controllable Damping and Real-Time Hybrid Experiments with Application to Base Isolated Buildings	Prof. Erik A. Johnson *
16:45 – 17:05	Session 3-2: Shaking Table Test Experience of Kobe University	Prof. Hideo Fujitani **
17:05 – 17:30	Session 3-3: Example of Actual Research by Using the Real-Time Hybrid Simulator with Shaking-Table in Kobe University	Prof. Yoichi Mukai **
17:30 – 17:40	Closing Remarks	Director of ECCSE Prof. Mitsuo Yokokawa **

18:00 – **Reception**