

The 1st CPS International School of Planetary Sciences
Dust in Space
January 5-9, 2009 - Seapal Suma, Kobe, Japan

Monday, January 5, 2009

3:00 p.m.	Registration Open
5:30-7:00 p.m.	Opening Reception Welcome Speech: Tetsuo Yamamoto Opening Keynote Speech: Tadashi Mukai
7:00-9:00 p.m.	Poster 1

Tuesday, January 6, 2009

7:30 a.m.	Breakfast
9:00-10:00 a.m.	Lecture 1: Anny-Chantal Levasseur-Regourd <i>Optical properties of dust particles in the solar system, with emphasis on cometary dust I</i>
10:00-10:15 a.m.	Coffee/Tea Break
10:15-11:15 a.m.	Lecture 2: Anny-Chantal Levasseur-Regourd <i>Optical properties of dust particles in the solar system, with emphasis on cometary dust II</i>
11:15-11:30 a.m.	Coffee/Tea Break
11:30-12:30 a.m.	Poster 2
12:30-2:00 p.m.	Lunch
2:00-3:00 p.m.	Lecture 3: Seung Soo Hong <i>A three-dimensional model of the interplanetary dust cloud I</i>
3:00-3:15 p.m.	Coffee/Tea Break
3:15-4:15 p.m.	Lecture 4: Seung Soo Hong <i>A three-dimensional model of the interplanetary dust cloud II</i>
4:15-4:30 p.m.	Coffee/Tea Break
4:30-5:30 p.m.	Lecture 5: Wing-Huen Ip <i>Dusty plasma I</i>
5:30-7:00 p.m.	Dinner
7:00-9:00 p.m.	Poster 3

Wednesday, January 7, 2009

7:30 a.m.	Breakfast
9:00-10:00 a.m.	Lecture 6: Wing-Huen Ip <i>Dusty plasma II</i>
10:00-10:15 a.m.	Coffee/Tea Break
10:15-11:15 a.m.	Lecture 7: Elmar K. Jessberger <i>Stories told from dust particles I</i>
11:15-11:30 a.m.	Coffee/Tea Break

Wednesday, January 7, 2009 (Continued)

11:30-12:30 a.m. **Lecture 8:** Elmar K. Jessberger
Stories told from dust particles II

12:30-2:00 p.m. Lunch

2:00 p.m. Excursion

Thursday, January 8, 2009

7:30 a.m. Breakfast

9:00-10:00 a.m. **Lecture 9:** Juergen Blum
How large can dust aggregates really grow by collisions in protoplanetary disks? I

10:00-10:15 a.m. Coffee/Tea Break

10:15-11:15 a.m. **Lecture 10:** Juergen Blum
How large can dust aggregates really grow by collisions in protoplanetary disks? II

11:15-11:30 a.m. Coffee/Tea Break

11:30-12:30 a.m. **Poster 4**

12:30-2:00 p.m. Lunch

2:00-3:00 p.m. **Lecture 11:** Alexander V. Krivov
Debris disks: Seeing dust, thinking of planetesimals and planets I

3:00-3:15 p.m. Coffee/Tea Break

3:15-4:15 p.m. **Lecture 12:** Alexander V. Krivov
Debris disks: Seeing dust, thinking of planetesimals and planets II

4:15-4:30 p.m. Coffee/Tea Break

4:30-5:30 p.m. **Lecture 13:** Bruce T. Draine
Modeling of interstellar dust I

6:00-8:00 p.m. Banquet

Friday, January 9, 2009

7:30 a.m. Breakfast

9:00-10:00 a.m. **Lecture 14:** Bruce T. Draine
Modeling of interstellar dust II

10:00-10:15 a.m. Coffee/Tea Break

10:15-11:15 a.m. **Lecture 15:** Tadashi Onaka
Observations of dust in space from space I

11:15-11:30 a.m. Coffee/Tea Break

11:30-12:30 a.m. **Lecture 16:** Tadashi Onaka
Observations of dust in space from space II

12:30-2:00 p.m. Closing Lunch

Poster 1-4 (All the posters will be on display Monday-Thursday.)

- P-01 Shinsuke Abe
Meteor & Meteorite Associations and Planet-X detecting by Pan-STARRS
- P-02 Hiroki Chihara, C. Koike
Diagnosis of circumstellar silicate dust by laboratory spectroscopy
- P-03 Daisuke Fujiwara, S. Watanabe
Dust Circulation in the Inner Regions of Protoplanetary Disks
- P-04 Hideaki Fujiwara
A Search for Debris Disks Based on AKARI Mid-infrared All-sky Survey
- P-05 Tsubasa Fukue, T. Kudo, T. Yamamoto, H. Kimura, H. Kobayashi, E. Zubko, M. Tamura, R. Kandori, N. Kusakabe, Y. Nakajima, T. Nagata
Numerical Vector Radiative Transfer by Monte Carlo Method
- P-06 Narappa Gowda Rudraswami
²⁶Al records in UOC chondrules: Duration of chondrule formation and possible role of parent body thermal metamorphism
- P-07 Carsten Guettler, J. Blum
Experiments on Fragmentation and Charge Separation in Pre-Planetary Dust Collisions
- P-08 Daniel Heisselmann, H. J. Fraser, J. Blum
Microgravity studies of the low-temperature, low-velocity collision behavior of icy and dusty bodies
- P-09 Tomonori Hioki, Y. Itoh, Y. Oasa, M. Fukagawa, SDPS Team (NAOJ, etc)
High Angular Resolution Near-Infrared Coronagraphic Images of the T Tauri Binary Systems
- P-10 Yuta Imai, C. Koike, H. Chihara, K. Murata, A. Tsuchiyama
Shape and Aggregation Effects on Infrared Spectra of Forsterite Particles
- P-11 Eri Kawamura, S. Watanabe
Local surface density distribution of dust in vortices in the protoplanetary disk
- P-12 Seiji Kimura, S. Wada
Reactive effect of microwave hydrogen plasma with silicate powder
- P-13 Hiroshi Kobayashi, H. Kimura, S. Yamamoto, S. Watanabe, T. Yamamoto
Ice sublimation of dust particles and their detection in the outer solar system
- P-14 Nagisa Machii, A. M. Nakamura
Experimental study of sintering: relation between neck radius and strength
- P-15 Jonathan Marshall, G. J. White, H. J. Walker
Akari Observations of Young Debris Discs in the Far Infra-red
- P-16 Satoshi Mayama, M. Tamura, M. Hayashi, Y. Itoh, M. Ishii, M. Fukugawa, S. S. Hayashi, Y. Oasa, T. Kudo
Subaru and HST High Resolution Near-Infrared Multi-Color Images of Class II Young Stellar Object, RNO91

- P-17 Gwendolyn Meeus, A. Juhasz, Th. Henning, J. Bouwman
Spitzer observations of circumstellar discs: T Tauri stars in the star forming cloud MBM 12
- P-18 Katarina Miljkovic, N. J. Mason, J. C. Zarnecki
Experimental and theoretical research on the dust clouds around atmosphereless bodies and its application to the design of a new hybrid dust detector for a Europa orbiter
- P-19 Hitoshi Miura, K. K. Tanaka, T. Yamamoto, T. Nakamoto, J. Yamada, K. Tsukamoto, J. Nozawa
Gas-phase condensation of submicron-sized silicate crystals behind planetesimal bow shocks
- P-20 Sebastian Mueller, T. Lohne, A. V. Krivov
Is the Vega Debris Disk Evolving in a Steady State?
- P-21 Takayuki Muto, S. Inutsuka
Orbital Evolution of a Particle Interacting with a Single Planet in a Protoplanetary Disk
- P-22 Takahiro Naoi, H. Suto
Reflectance measurements of mid- and far- infrared spectroscopy for crystalline olivine
- P-23 Ryuichi Nomura, H. Nagahara, S. Tachibana
Experimental Study of Disequilibrium Condensation Kinetics of Metallic Iron in Protoplanetary Disks
- P-24 Jun Nozawa, K. Tsukamoto, K. Yamada
The magnetite colloidal crystal in the meteorite formed 4.6 billion years ago
- P-25 Satoshi Okuzumi
Electric charging of dust aggregates and its effect on dust coagulation in protoplanetary disks
- P-26 Jeonghyun Pyo, S. S. Hong, S. M. Kwon, M. Ueno, M. Ishiguro, F. Usui, T. Ootsubo, D. Ishihara, T. Mukai, AKARI IRC Team
The Zodiacal Dust Cloud from AKARI Observations
- P-27 Jens Rodmann
Recent Spitzer observations demonstrate that debris disks are also common around main-sequence binary systems
- P-28 Gal Sarid, D. Prialnik
Thermal Effects in Small Icy Planetesimals
- P-29 M. Bucek, Eva Schunova
Daytime Taurid complex meteor stream - Zeta Perseids and new potential parent bodies
- P-30 Young Min Seo, S. S. Hong, M. Ishiguro, J. Pyo
Dynamics of the Comet 17P/Holmes Outburst
- P-31 Masato Setoh, Y. Yamashita, A. M. Nakamura, P. Michel
Attenuation rate of stress wave in sintered and non-sintered glass beads targets
- P-32 Hiromi Shibata, H. Ohashi, T. Hirai, K. Nogami, T. Iwai, S. Sasaki, M. Fujii, T. Miyachi, S. Takechi, S. Minami, R. Srama, E. Gruen
Development of Cosmic Dust Detectors Onboard Spacecrafts

- P-33 Bungo Shikita, H. Koyama, S. Yamada
The Dynamics of Three-Planet Systems: an Approach from Dynamical System
- P-34 Patryk Sofia Lykawka, J. Horner, T. Mukai, B. Jones
Origin and Dynamical Evolution of Neptune Trojans
- P-35 Toru Suyama, K. Wada, H. Tanaka
Numerical Simulation of Structure Evolution of Dust Aggregates Growing in Protoplanetary Disks
- P-36 Jun Takahashi, Y. Itoh, M. Sakamoto, K. Matsuda, K. Kinoshita, S. Iida
Spectropolarimetric Observation of Earthshine on the Moon
- P-37 Aki Takigawa, S. Tachibana, H. Nagahara, K. Ozawa
Anisotropic condensation of corundum around AGB stars and its effect on IR spectra
- P-38 Akemi Tamanai, H. Mutschke, J. Blum
Morphological Effects on Infrared Spectra - Experimental Spectroscopic Measurements of Free-Flying Particles -
- P-39 Munechika Tanaka, Y. Oasa, Y. Itoh
Deep 3 micron Photometry of Substellar Mass Objects around a Massive Star in S106
- P-40 Takayuki Tanigawa, K. Ohtsuki, M. Machida
Satellite Formation: Supply of Solid Material to Circum-Planetary Disk
- P-41 Rosario Isabel Vilaplana Cerda, M. A. Satorre, F. Moreno
The influence of the shape and growth of the grain in the profiles of CO and CO₂ ice bands
- P-42 Ingo von Borstel, J. Blum
Photophoresis: Applications in Astrophysics
- P-43 Minami Yasui, M. Arakawa
Experimental study on the rheology of ice-silica beads mixtures: Effects of silica content and temperature on the flow law
- P-44 Simon Zeidler, H. Mutschke, T. Posch
Low temperature and far-infrared to sub-mm spectra of phyllosilicates
- P-45 Evgenij Zubko, H. Kimura, Y. Shkuratov, K. Muinonen, T. Yamamoto, H. Okamoto, G. Videen
Effect of absorption on light scattering by agglomerated debris particles