Tuesday, June 6, 2006

0900 - 1200 Registration Auditorium (6th Floor)

Oral sessions will be held in the auditorium, 6th floor of the Main Building
** denotes speaker*

0925 - 0930 **Fujii Y.** (Director-General, NIPR)
Opening Address

Chairs: Fagan T. and Arai T.

0930 - 0945 **Mahajan R.R.* and Murty S.V.S.**
Sources of excess nitrogen in lunar soils: Clues from N and argon in lunar meteorite Y983885

0945 - 1000 **Miura Y.N.*, Arai T., Karouji Y. and Ebihara M.**
Noble gases in the lunar meteorite Yamato 983885, a KREEP-rich lunar regolith breccia

1000 - 1015 **Fagan T.J.***
A record of extreme FeO/(MgO+FeO) enrichment during igneous crystallization on the Moon preserved in lunar meteorite Northwest Africa 773

1015 - 1030 **Zeigler R.A.*, Korotev R.L., Jolliff B.L., Bunch T.E. and Irving A.J.**
Pairing relationships among Northwest African basaltic lunar meteorites based on compositional and petrographic characteristics

1030 - 1045 **Okuno H.*, Yamanoi Y. and Saiki K.**
Mg-number mapping of Mare Serenitatis with a hyper-spectral telescope

1045 - 1100 **Arai T.*, Kaiden H., Misawa K. and Kojima H.**
Ion microprobe study of Apollo 14 oldest basalt

Chairs: Kimura M. and Uesugi M.

1100 - 1115 **Uesugi M.* and Uesugi K.**
Application of X-ray computed micro-tomography (μCT) to the observation of chondrite chips

1115 – 1130 **Miura H.* and Nakamoto T.**
Molten droplet in gas flow: Diversity of chondrule shapes

1130 – 1145 **Kusuno H.*, Kobayashi M., Fukuoka T. and Kojima H.**
Determination of ^{26}Al contents in Antarctic meteorites using extremely low background γ-ray counting system of ICRR, University of Tokyo, for dating of terrestrial age

1145 - 1300 - Lunch -

1300 - 1315 **Ninagawa K.*, Kuyama T., Imae N., Kojima H. and Yanai K.**
Thermoluminescence study of Japanese Antarctic Meteorites IX

1315 - 1330 **Aoki T.* and Nakamuta Y.**
The difference of apparent strain of olivine crystals between clastic and nonclastic parts of Naryilco LL6 chondrite

1330 - 1345 **Ozawa S.*, Ohtani E., Suzuki A., Kondo T. and Kimura M.**
High-pressure minerals in shock melt veins of L6 chondrites: Constraints on their P-T history

1345 - 1400 **Fujitani T. and Nakamura N.***
Analyses of stable chlorine isotopes in chondritic meteorites (1): Preliminary results for ordinary chondrites

1400 - 1415 **Yamamoto Y.* and Nagao K.**
Noble gases in the Moorabie L3 chondrite: Comparison with sub-Q gas in the enstatite chondrites

1415 - 1430 **Komatsu M.*, Krot A.N., Fagan T., Miyamoto M., Mikouchi T. and Keil K.**
Mineralogy and petrography of the oxidized CV chondrite Yamato 86009

1430 - 1445 **Kimura M.*, Weisberg M.K., Suzuki A., Ohtani E. and Sugiura N.**
Heterogeneous distribution of high-pressure minerals in the Gujba CB chondrite

1445 - 1500 **Terada K.*, Yoshida T., Iwamoto N., Aoki W. and Williams I.S.**
Speculations on the slow neutron capture process in AGB stars based on the isotopic analyses of SiC grains from the Murchison meteorite

1500 - 1530 - Coffee Break -

1530 - 1545 **Koiwa Y.* and Ebihara M.**
Possible terrestrial weathering effects on platinum group element abundances in Antarctic carbonaceous chondrites

- Special Talk (I) –

Chair: Yamaguchi A.

1545 – 1645 **Righter K.***
The role of Antarctic meteorites in defining new chondrite groups and enhancing our understanding of the early solar system

1700 – 1900 Welcome Party (6th Floor)

Wednesday, June 7, 2006

Chairs: Kaiden H. and Nagao K.

0930 - 0945 **Kotsugi M.*, Wakita T., Guo F., Taniuchi T., Ono K., Taniguchi M. and Maruyama H.**
Reading the growth process of iron meteorite by a photoelectron emission microscope (PEEM) with synchrotron radiation

0945 - 1000 **Herrin J.S.*, Mittlefehldt D.W. and Humayun M.**
Removal and replacement of primary metal in ferroan lodranite MAC 88177

1000 - 1015 **Ikeda Y.***
Petrology of unusual ureilite NWA 1241

1015 - 1030 **Nakamuta Y.***
Raman spectra of carbon minerals in Antarctic ureilites

1030 - 1045 **Ueda T., Yamashita K.* and Kita N.**
Chromium isotopic systematics of ureilite

1045 - 1100 **Lee D-C.***
Tungsten and molybdenum isotopes in achondrites

1100 - 1115 **Nagao K.* and Bajo K.**
Noble gas isotopic composition of Vaca Muerta: Implication for complex history of mesosiderite

1115 - 1130 **Houzumi T.*, Oura Y. and Ebihara M.**
Chemical composition of eleven Antarctic HED meteorites

1130 - 1145 **Yamaguchi A.*, Tamaki M., Kaiden H., Misawa K. and Ebihara M.**
Thermal history of highly metamorphosed basaltic eucrites and basaltic clasts in mesosiderites: A comparison

1145 - 1300 - Lunch -

Chairs: Mikouchi T. and Noguchi T.

1300 - 1315 **Misawa K.*, Iwata N., Imae N., Franchi I.A., Greenwood R.C. and Kojima H.**
New lherzolitic shergottites from the Yamato Mountains

1315 - 1330 **Mikouchi T.* and McKay G.**
Shock metamorphism of the Dhofar 378 basaltic shergottite

1330 - 1345 **Nyquist L.E.*, Ikeda Y., Shih C.-Y., Reese Y.D., Nakamura N. and Takeda H.**
Sm-Nd age and Nd- and Sr- isotopic evidence for the petrogenesis of Dhofar 378

1345 - 1400 **Park J.* and Bogard D.D.**
Ar-Ar dating of Martian meteorite, Dhofar 378: An early shock event?

1400 - 1415 **Imae N.* and Ikeda Y.**
Crystallization of nakhlite melts in comparison with synthetic experiments

1415 - 1430 **Shirai N.* and Ebihara M.**
The petrogenesis of nakhlites inferred from chemical compositions of nakhlites

1430 - 1445 **Makishima J.*, McKay G., Le L., Miyamoto M. and Mikouchi T.**
Aluminum effect on the calibration of the Eu oxybarometer for nakhlites

1445 - 1500 **McKay G.A.*, Schwandt C., Le L., Makishima J., Mikouchi T. and Kurihara T.**
Minor elements in Nakhlite pyroxenes: Cr in MIL00346

1500 - 1515 **Hoffmann V.* and Funaki M.**
Comparative magnetic signature of Martian meteorites Yamato 000593, Yamato 000749, Yamato 000802, Yamato 980459, Yamato 793605 and ALH 77005

1515 - 1545 - Coffee Break -

1545 - 1600 **Noguchi T.*, Osonoi M., Nakamura T., Tsuchiyama A. and Imae N.**
Micrometeorites discovered from surface snow near the Dome Fuji station, Antarctica

1600 - 1615 **Fukuoka T.*, Hoshi N., Tazawa Y., Saito Y. and Azuma K.**
Final answer for the origin of glassy spherules collected from water tank of the dome Fuji station

1615 - 1630 **Tazawa Y.*, Fukuoka T., Hoshi N., Fukushi Y., Saito Y., Noguchi T. and Yada T.**
Chemical composition of Micrometeorites collected from Tottuki Point, Soya Coast, Antarctica

1630 - 1645 **Naraoka H.* and Oba Y.**
δD variation of macromolecular organic matter from carbonaceous chondrites

- Special Talk (II) -

Chair: Misawa K.

1645 - 1745 **Barrat J.A.***
New views on the genesis of diogenites from meteorites from hot and cold deserts

Thursday, June 8, 2006

Chairs: Hiroi T. and Tachibana S.

0940 - 1000 **Hiroi T.*, Abe M., Kitazato K., Abe S., Clark B.E., Sasaki S. and Ishiguro M.**
The S-type asteroid – ordinary chondrite controversy and discoveries by the Hayabusa mission to asteroid 25143 Itokawa

1000 - 1015 **Okada T.*, Shirai K., Yamamoto Y., Arai T., Ogawa K., Inoue T. and Kato M.**
Elemental composition of asteroid Itokawa by remote X-ray fluorescence spectrometry and its relation to meteorite types

1015 – 1030 **Miyamoto H.*, Yano H., Scheeres D., Sasaki S., Barnouin-Jha O., Gaskell R.W., Cheng A., Demura H., Fujiwara A., Hashimoto T., Hirata N., Honda C., Ishiguro M., Kubota T., Michikami T., Nakamura A.M., Nakamura R., Saito J., Yokota Y. and Hayabusa Team**
Debris migration on the surface of Itokawa: Implications to regolith formations and future sample-return missions

1030 – 1045 **Hirata N.*, Ishiguro M., Tholen D., Hiroi T., Noguchi T., Sasaki S., Nakamura R. and Saito J.**
The black boulder on the asteroid Itokawa

1045 - 1100 **Sasaki S.*, Ishiguro M., Hirata N., Abe M., Demura H., Hiroi T., Miyamoto H., Nimura T., Saito J. and Yamamoto A.**
Space weathering and movement of surface materials of Itokawa as observed by Hayabusa

1100 – 1115 **Tachibana S.*, Yamada M., Nagahara H. and Ozawa K.**
Evaporation of forsterite in vacuum: Anisotropic isotopic fractionation of Mg

1115 – 1130 **Kunikata A., Tomioka N.*, Nagai T., Narita T. and Yamanaka T.**
Static amorphization of plagioclase: Comparison to the formation pressure of diaplectic glass in laboratory shock experiments

1130 – 1145 **Nagahara H.*, Ozawa K. and Kita N.T.**
Condensation origin of chondrules in ordinary chondrites: Evidence from bulk chemical composition and mass-dependent oxygen isotopic fractionation

1145 – 1200 **Nakamoto T.***
Compound chondrule formation in shock wave heating model

1200 – 1300 - Lunch -

Chairs: Hoffmann V. and Bérczi Sz.

1300 – 1315 **Takeda H.*, Yamaguchi A. and Kusakabe M.**
Asteroidal processes related to strongly recrystallized chondritic materials and augite-bearing lodranite-like meteorites

1315 – 1330 **Hoffmann V.*, Rösler W., Patzelt A. and Raeymaekers B.**
Are the local/regional geophysical anomalies and material findings (FeSi components and diamond/fullerene containg carbon spherules) in SE Bavaria related to an impact?

1330 – 1345 **Miura Y.***
Material evidences of catastrophe at the end of the Permian Period: Carbon-rich spherules with Fe and Ni

1345 – 1400 **Bérczi Sz.*, Gál-Sólymos K., Gucsik A., Hegyi S., Hudoba Gy., Józsa S., Kókány A., Kubovics I., Lukács B., Puskás Z., Szakmány Gy. and Varga T.**
How we used NIPR Antarctic educational thin section set in planetary and material science studies: 10 years of studies in Eötvös University, Hungary

1400 – 1415 **Hegyi S.*, Drommer B., Hegyi A., Biró T., Kókány A., Hudoba Gy., Bérczi Sz. and Hargitai H.**
Field testing of Hunveyor and Husar educational robot in planetary analog sites

1415 – 1430 **Boldoghy B., Kummert J., Szilágyi I., Varga T.* and Bérczi Sz.**
Engineering and thermal balance studies for lunar base construction with on site material utilization and with Antarctic architectural applications

1430 – 1445 **Pócs T., Gánti T., Horváth A., Bérczi Sz.*, Kereszturi A., Sik A. and Szathmáry E.**
Comparison of the cryptobiotic-crusts and surface mineral crusts according to their main characteristics in helping life support mechanisms and their implied role for Martian living organisms

1445 – 1500 **Juhl R.A.* and Iyengar RN**
A possible AD552 comet sighting in Japan and its parallels with phenomena associated with the Sarasvati river of ancient India

Poster Session

Illés-Almár E.
A hypothesis paper on the crust thickness of Enceladus

Illés-Almár E.
On the origin of the two Saturnian ring systems

Illés-Almár E.
On the origin of the dark material on Iapetus

Messenger K., Messenger S., Zolensky M.E. and Keller L.P.
Experimental hydrothermal alteration of anhydrous interplanetary dust particles

Miura Y.
Geology, petrology and mineralogy of Takamatsu impact crater in Japan

Miura Y.
Carbon contents of Nio meteorite and Hiroshima atomic bomb explosions in atmosphere of the Earth

Abstract only

Marakushev A.A., Zinovieva N.G. and Granovsky L.B.
Triangular chemographic diagram for the mineral assemblages of chondrites and its genetic interpretation

Mardon A.A., Lau A.S.C. and Greenspon J.A.
The use of geographic remote sensing, mapping and aerial photography to aid the recovery of blue ice surficial meteorites in the Antarctic

Mardon A.A. and Greenspon J.A.
The importance of meteorite recovery for inner solar system development

Rudraswami N.G. and Goswami J.N.
Al-Mg isotope systematics in chondrules from UOC ALHA76004 (LL3.3)