

**Tuesday, July 29, 2008**  
**SPECIAL LECTURE**  
**14:00 Multipurpose Hall**

**Chair: H. Kojima**

14:00 Yoshida M. \* [INVITED]  
*The First Discovery of Yamato Meteorites in 1969*

**Tuesday, July 29, 2008**  
**ASTEROIDS AND COMETS**  
**14:45 Multipurpose Hall**

**Chairs: T. Hiroi**  
**S. Messenger**

- 14:45 Hirata N. \* Abe S. Ishiguro M. Kitazato K. Nakamura R. Miyamoto H. Demura H. Abe M. Sasaki S.  
[\*Geologic Processes on the Surface of a Small Asteroid Itokawa\*](#) [#5176]
- 15:00 Sasaki S. \* Hiroi T.  
[\*Difference of Space Weathering Degree on Asteroids of Various Sizes\*](#) [#5245]
- 15:15 Mayne R. G. \* McCoy T. J. Sunshine J. M. McSween H. Y.  
[\*"Spectrology" of the Unbrecciated Eucrites: The Link Between Petrology and Spectra\*](#) [#5107]
- 15:30 Hiroi T. \* Abe M. Nimura T. Kitazato K. Abe S. Takagi Y. Sasaki S. Ishiguro M.  
[\*Danger in Interpreting the 2-Micron Band of Reflectance Spectra of Small Asteroids: A Lesson from Hayabusa/NIRS Data of Itokawa\*](#) [#5283]
- 15:45 Abell P. A. \* Weissman P. R. Hicks M. D. Choi Y. J. Lowry S. C.  
[\*Rosetta Flyby Target Asteroid \(2867\) Steins: An Enstatite Achondrite Analogue\*](#) [#5316]
- 16:00 Reddy V. Kelley M. S. \* Emery J. P. Gaffey M. J. Bottke W. F. Schaal M. Cramer A. P. Takir D.  
[\*Composition of Baptistina Asteroid Family: Implications for K-T Impactor Link\*](#) [#5257]
- 16:15 Zolensky M. E. \* Gounelle M. Briani G. Bottke W. Young E. Dyl K. Weisberg M. K.  
[\*Pieces of Kuiper Belt Bodies in Meteorites\*](#) [#5265]
- 16:30 Messenger S. \* Ito M. Joswiak D. J. Keller L. P. Stroud R. M. Nakamura-Messenger K. Matrajt G. Brownlee D. E.  
[\*Oxygen Isotopic Compositions of Wild 2 Silicates\*](#) [#5308]
- 16:45 Orthous-Daunay F. R. \* Quirico E. Brissaud O. Schmitt B.  
[\*Micro-Infrared Spectroscopy of Insoluble Organic Matter Extracted from Primitive Chondrites\*](#) [#5206]
- 17:00 Tomioka N. \* Morlok A. Koike C. Grady M.  
[\*Oxidation of Synthetic and Meteoritic Fe-rich Olivine by Heating in Air\*](#) [#5048]
- 17:15 Fegley B. Jr.\* Schaefer L.  
[\*Chemistry During Accretion of the Earth. I. Volatiles in the "Steam" Atmosphere\*](#) [#5036]

**Tuesday, July 29, 2008**  
**STARDUST AND MICROMETEORITES II**  
**14:00 Small Hall**

**Chairs:** C. Engrand  
L. P. Keller

- 14:00 Busemann H. \* Nguyen A. N. Nittler L. R. Stroud R. M. Zega T. J. Kilcoyne A. L. D.  
Hoppe P. Cody G. D.  
[Primitive Interplanetary Dust from Comet 26P/Grigg-Skjellerup \(?\) — Diversity and Similarities Among Jupiter-Family Comets](#) [#5251]
- 14:15 Nakamura-Messenger K. \* Keller L. P. Messenger S. Clemett S. J. Zolensky M. E.  
Palma R. L. Pepin R. O. Wirick S.  
[Mineralogy of Interplanetary Dust Particles from the Comet Grigg-Skjellerup Dust Stream Collections](#) [#5247]
- 14:30 Clemett S. J. \* Nakamura-Messenger K. McKay D. S.  
[Molecular Distribution of Organic Matter and Mineral Relationships in Meteorites and Interplanetary Dust](#) [#5296]
- 14:45 Sears D. W. G. \* Sedaghatpour F. Craig J.  
[Thermoluminescence as a Technique for Determining the Nature and History of Small Particles](#) [#5241]

**Tuesday, July 29, 2008**  
**REFRACTORY INCLUSIONS**  
**15:00 Small Hall**

**Chairs: M. K. Weisberg**  
**T. J. Fagan**

- 15:00 Makide K. \* Nagashima K. Krot A. N. Huss G. R. Hutcheon I. D. Bischoff A.  
[\*Correlated Measurements of Oxygen and Magnesium Isotopes in CR CAIs: Constraints on the Duration of CAI Formation and Evolution of Oxygen Isotopes in the Inner Solar Nebula\*](#) [#5135]
- 15:15 Mendybaev R. A. \* Richter F. M. Georg R. B. Davis A. M.  
[\*Evolution of Chemical and Isotopic Compositions of Forsterite-rich Melts During Evaporation\*](#) [#5329]
- 15:30 Bouvier A. \* Wadhwa M. Janney P.  
[\*<sup>26</sup>Al-<sup>26</sup>Mg and <sup>207</sup>Pb-<sup>206</sup>Pb Systematics in an Allende Inclusion\*](#) [#5299]
- 15:45 Srinivasan G. \* Chaussidon M.  
[\*Constraints on Early Evolution of Solar Nebula from <sup>26</sup>Al Abundance in Efremovka CAIs\*](#) [#5211]
- 16:00 Ito M. \* Messenger S.  
[\*O Isotope Mapping of a Wark-lovering Rim in a Type A CAI: Constraints on its Formation Process\*](#) [#5100]
- 16:15 Berg T. \* Marosits E. Maul J. Schönhense G. Ott U. Palme H.  
[\*Evidence for Structurally Controlled Condensation of Sub-Micron Refractory Metal Alloys in the Murchison Meteorite\*](#) [#5085]
- 16:30 Weisberg M. K. \* Ebel D. S. Connolly H. C. Jr. Kita N. T. Ushikubo T. Valley J. W.  
[\*Metal-rich Olivine Aggregates in the Renazzo CR Chondrite\*](#) [#5125]
- 16:45 Fagan T. J. \* Kitou H. Tasai Y.  
[\*Cathodoluminescence of Anorthite in Two Type B CAIs from Allende: Contrasting Alteration Patterns\*](#) [#5222]
- 17:00 Beckett J. R. \* Thrane K. Krot A. N.  
[\*Why Igneous Wollastonite is so Rare in CAIs\*](#) [#5208]
- 17:15 Hezel D. C. \* Ross A. J. Russell S. S. Kearsley A. T.  
[\*Modal Abundances of CAIs: Implications for Bulk Chondrite Element Abundances and Fractionations\*](#) [#5253]

**Tuesday, July 29, 2008**  
**POSTER SESSION: PRESOLAR MATERIALS**  
**18:00 Large Exhibition Hall**

Davis A. M. Gallino R.

[Rare Earth Element Production in Asymptotic Giant Branch Stars](#) [#5325]

Floss C. Stadermann F. J.

[C-Anomalous Phases in QUE 99177 and MET 00426](#) [#5008]

Marosits E. Ott U.

[Investigating Noble Gases in Pre-Annealed Meteoritical Nanodiamonds](#) [#5005]

**Tuesday, July 29, 2008**  
**POSTER SESSION: REFRACTORY INCLUSIONS**  
**18:00 Large Exhibition Hall**

Bullock E. S. MacPherson G. J.

[\*Creating a New, Comprehensive CAI Reference Suite, Part One: Vigarano\*](#) [#5315]

Dyl K. A. Young E. D. Krot A. N.

[\*Exploring Oxygen Isotope Exchange in the Solar Nebula with UV Laser-Fluorination\*](#) [#5287]

Hiyagon H. Hashimoto A.

[\*Isotopic and Rare Earth Element Studies of a FUN-like Forsterite-bearing Inclusion from Allende\*](#) [#5128]

Kurat G. Varela M. E. Zinner E.

[\*AlO\(OH\) is a Major Constituent of the CAI "Blue Moon" from the Renazzo \(CV3\) Chondrite\*](#) [#5235]

Maruyama S. Kunihiro T. Nakamura E.

[\*A Hercynite-rich Inclusion in the Vigarano CV3 Chondrite\*](#) [#5183]

Nagashima K. Krot A. N. Huss G. R.

[\*Relict CAI with Highly Fractionated Oxygen Isotopes Inside a Type I Chondrule\*](#) [#5133]

Rout S. S. Bischoff A.

[\*Chemical Composition of Ca,Al-rich Inclusions in Rumuruti \(R\) Chondrites\*](#) [#5050]

Sanders I.

[\*Do CAIs Have a Giant Impact Origin?\*](#) [#5093]

Yoshitake M. Yamashita K.

[\*Mineralogical and Pb-Isotopic study of an Allende CAI\*](#) [#5285]

**Tuesday, July 29, 2008**  
**POSTER SESSION: NEBULAR PROCESSES**  
**18:00 Large Exhibition Hall**

de Leuw S. Wasson J. T.

[\*Implications of Heterogeneous Accretion of the Solar Nebula\*](#) [#5276]

Fukui T. Kuramoto K.

[\*Simultaneous Enhancement of Water Vapor and Silicate Dust in the Inner Solar Nebula: Implication for the Small Oxygen Isotopic Variation of Chondrules\*](#) [#5182]

Mishra R. K. Goswami J. N.

[\*Fe-Ni and Al-Mg Isotope Systematics in Chondrules from Semarkona \(LL3.0\) and LEW86314\(L3.0\)\*](#) [#5072]

Wurm G. Haack H. Teiser J. Bischoff A. Roszjar J.

[\*Chondrules, CAIs, and Dust in Protoplanetary Disks in the Framework of Photophoretic Forces\*](#) [#5081]

**Tuesday, July 29, 2008**  
**POSTER SESSION: CHONDRULES**  
**18:00 Large Exhibition Hall**

Hezel D. C. Armytage R. Georg R. B. Needham A. W. Russell S. S. Halliday A. N.  
[Combined Fe- and Si-Isotope Measurements in CV Chondrite Chondrules](#) [#5297]

Inoue M. Nakamura N.  
[Peculiar REE Pattern in a Granular-Olivine Inclusion from the Murchison \(CM2\) Chondrite](#) [#5018]

Ohi S. Ito H. Miyake A. Shimobayashi N. Noguchi T. Kitamura M.  
[Ending of High-Temperature Orthopyroxene in a Chondrite](#) [#5156]

Oka M. Uesugi M. Tsuchiyama A.  
[Experimental Reproduction of Voids in Chondrules Under Low Pressure like Primitive Solar Nebula](#) [#5126]

Nakamura Y. Bajo K. Nakashima D. Nagao K.  
[Noble Gas Analyses of Individual Chondrules from the Allende CV3 Chondrite](#) [#5083]

Nakashima D. Nagao K.  
[Noble Gases in Individual Glassy Spherules from the SaU 290 CH3 Chondrite](#) [#5079]

Roth A. S. G. Baur H. Heber V. S. Reusser E. Wieler R.  
[Exposure Ages of Chondrules in Allende and Murchison](#) [#5217]

Uesugi M. Uesugi K. Oka M.  
[Non-Destructive Observation of Structure of Compound Chondrules by X-Ray CT](#) [#5121]

Yasuda S. Nakamoto T.  
[Conditions for Compound Chondrule Formation](#) [#5145]

**Tuesday, July 29, 2008**  
**POSTER SESSION: SPECIAL SESSION: ANATOMY OF CHEMICAL ZONING**  
**(In Memory of Gordon McKay)**  
**18:00 Large Exhibition Hall**

Miyamoto M. Mikouchi T. Jones R. H.

[\*A Model to Calculate the Cooling Rate by Fe-Mg Diffusional Calculation During Olivine Crystal Growth\*](#) [#5031]

**Tuesday, July 29, 2008**  
**POSTER SESSION: CARBONACEOUS CHONDRITES**  
**18:00 Large Exhibition Hall**

Akai J. Aoki T. Ohtani H.

[\*Varieties of Carbon Minerals in Antarctic Carbonaceous Chondrites by TEM and Their Implications\*](#) [#5030]

Ivanova M. A. Lorenz C. A. Moroz L. V. Greenwood R. C. Franchi I. A. Schmidt M.

[\*NWA 4757: Metamorphosed Carbonaceous CM Chondrite\*](#) [#5103]

Bland P. A. Berry F. J. Cadogan J. M. Howard K. T. Cressey G.

[\*Fe-bearing Mineral Abundance in Primitive Chondrites by Mössbauer Spectroscopy\*](#) [#5304]

Bland P. A. Howard K. T. Cressey G. Benedix G. K.

[\*The Terrestrial Component of Primitive Chondrite Alteration\*](#) [#5314]

Duffy C. M. Bland P. A. Russell S. S. Kearsley A. T. Prior D. J. Mariani E.

[\*Formation of Zoned Metal Grains in HaH 237\*](#) [#5231]

Hashiguchi M. Tomeoka K. Ohnishi I.

[\*Mineralogy of Vesicular Olivine in Three CK4-6 Chondrites: Relationship to Silicate Darkening\*](#) [#5157]

Kebukawa Y. Nakashima S. Zolensky M. E.

[\*Thermal Stabilities of Organic Matter in Carbonaceous Chondrites Using In-Situ Heating Micro FTIR Analyses\*](#) [#5034]

Kimura M. Mikouchi T. Suzuki A. Miyahara M. Ohtani E. El Goresy A.

[\*Characterization of Pyroxene Highly Enriched in Ca-Tschermak Component in the CH Chondrite ALH 85085\*](#) [#5069]

Kitajima F. Nakamura T.

[\*A Micro-Raman Study on the Thermal History of Several Chondritic and Terrestrial Carbonaceous Matters\*](#) [#5289]

Komatsu M. Mikouchi T. Miyamoto M.

[\*Hydrous and Anhydrous Alteration of Unsubgrouped CV Chondrite Y-86751\*](#) [#5214]

Maeda M. Tomeoka K.

[\*Chondrules and Rims in the Least Aqueously Altered CM Chondrite QUE 97990: Is This Meteorite a Primary Accretionary Rock?\*](#) [#5027]

Morlok A. Libourel G.

[\*Alteration in CR Chondrites: An Analogue for the Long Term Storage of Nuclear Waste\*](#) [#5099]

Noguchi R. Murata K. Tsuchiyama A. Isobe H. Chihara H. Nakamura T. Noguchi T.

[\*Hydrothermal Experiments of Synthetic Amorphous Silicates with CI Chondritic Composition in the Systems With and Without FeO\*](#) [#5333]

Osawa T. Hirao N. Takeda N. Baba Y.

[\*Noble Gas Retentivity of Carbon Allotropes and Kerogen: Feasibility of Kerogen as Phase Q\*](#) [#5022]

Pearson V. K. Greenwood R. C. Verchovsky A. B. Turner D. C. Gilmour I.

[\*Carbon and Nitrogen Cosmochemistry of the CO3 Group\*](#) [#5239]

Seto Y. Sakamoto N. Fujino K. Yurimoto H.

[\*Chemistry and Microstructure of COS from Acfer 094 Carbonaceous Chondrite\*](#) [#5021]

Tsutsui S. Naraoka H.

[Isotope Variation at Nanomolar Carbonate in the Murchison Meteorite](#) [#5172]

Wang Y. Hsu W.

[Petrographic Study of Ningqiang Sodalite](#) [#5123]

Yamada A. Tanaka H. K. M. Yamauchi Y. Kurihara T. Sugiura N.

[Nanostructural Characterization of the Allende CV Chondrite and L Chondrite using Positronium Time of Flight Spectroscopy: The History of Chondrite Parent Body Formation](#) [#5210]

**Tuesday, July 29, 2008**  
**POSTER SESSION: ORDINARY CHONDRITES**  
**18:00 Large Exhibition Hall**

Friedrich J. M. Herd C. D. K.

[\*An Achondritic Clast in the Peace River L chondrite.\*](#) [#5194]

Munayco P. Valenzuela E. M. Scorzelli R. B. de Campos J. B. Aviliez R. R. Rochette P. Gattacceca J. Suavet C. Denise M. Morata D.

[\*Room and Low Temperature Mössbauer Spectroscopy for Ordinary Chondrites from the San Juan Strewnfield at the Atacama Desert \(Chile\)\*](#) [#5062]

Murakami S. Kato K. Fujikawa N. Terada K. Yoneda S. Arai S. Hidaka H. Okada A. Nagao K. Park J. Ebisawa N. Kusakabe M.

[\*Comprehensive Studies of the Hiroshima H-Chondrite\*](#) [#5155]

Ott U. Franke L. Grau Th.

[\*Noble Gases in the Carancas \(Puno, Peru\) Meteorite\*](#) [#5088]

Strait M. M. Consolmagno G. J.

[\*Microcrack Porosity in Beaver Creek and Menow, High Porosity Ordinary Chondrites\*](#) [#5259]

Valenzuela E. M. Leclerc M. D. Munayco P. Scorzelli R. B. Jull A. J. T. Rochette P. Gattacceca J. Suavet C. Denise M. Morata D.

[\*Weathering Patterns of Ordinary Chondrites from Different Locations in the Atacama Desert \(Chile\)\*](#) [#5065]

**Tuesday, July 29, 2008**  
**POSTER SESSION: ENSTATITE CHONDRITES**  
**18:00 Large Exhibition Hall**

Kimura M. Lin Y. Floss C. Suzuki A. Mikouchi T. Ebihara M.  
[Fluorophlogopite in the EH Chondrite Y-82189](#) [#5068]

**Tuesday, July 29, 2008**  
**POSTER SESSION: DIFFERENTIATED METEORITES: ACHONDRITES**  
**18:00 Large Exhibition Hall**

Moggi-Cecchi V. Pratesi G. Di Martino M. Franchi I. A. Greenwood R. C.  
[NWA 5134: A New Eucrite from Saharawi Region](#) [#5319]

Ruzicka A. Schepker T. J.  
[Trace-Element Analyses of Pyroxene and Plagioclase in Three HED Meteorites](#) [#5310]

Warren P. H. Huber H.  
[Siderophile and Other Element Distributions Among HED-Meteoritic Breccias](#) [#5335]

Barrat J. A. Yamaguchi A. Greenwood R. C. Benoit M. Cotten J. Bohn M. Franchi I. A.  
[Still more Diversity in the Diogenite Parental Melts](#) [#5167]

Welten K. C. Caffee M. W. Masarik J.  
[Cosmogenic Radionuclides in Paired Diogenites from LaPaz Icefield, Antarctica](#) [#5290]

Bunch T. E. Irving A. J. Wittke J. H. Kuehner S. M.  
[Zincian Brezinaite and Other Rare Minerals in Two Cumulate-textured Aubrites from Northwest Africa](#) [#5309]

Ando K. Nakamura T. Okazaki R. Nakashima D. Kakazu Y. Kitajima F.  
[Mineralogy and Noble Gas Signatures of Desert Meteorite Shisr 007 Ureilite](#) [#5139]

Sugiura N. Takehana S. Hiyagon H. Kita N. T.  
[An Igneous Clast with both Graphite-bearing and Graphite-free Lithologies in the Northwest Africa 801 CR2 Chondrite](#) [#5070]

Matsuda S. Nakashima D. Mikouchi T. Nagao K.  
[Noble Gas Study of Ungrouped Achondrite GRA 06129](#) [#5154]

Gardner-Vandy K. G. Lauretta D. S. Goreva J. S. Killgore M. McCoy T. J.  
[Relationships Among Ungrouped Primitive Achondrites and Type-7 Ordinary Chondrites](#) [#5330]

**Tuesday, July 29, 2008**  
**POSTER SESSION: DIFFERENTIATED METEORITES: IRONS**  
**18:00 Large Exhibition Hall**

Karwowski L. Muszynski A.

[Multimineral Inclusions in the Morasko Coarse Octahedrite](#) [#5232]

Grokhovsky V. I. Uymina K. A. Glazkova S. A. Karkina L. E. Gundarev V. M.

[Origin of Schliren Bands in Chinga Ataxite](#) [#5240]

Oshtrakh M. I. Abramova N. V. Grokhovsky V. I. Semionkin V. A.

[Reexamination of Chinga Meteorite Using Mössbauer Spectroscopy with High Velocity Resolution: Preliminary Results](#) [#5196]

Bajo K. Nagao K. Honda M.

[Noble Gases in a Gibeon Iron Meteorite Fragment Heavily Shielded to Cosmic-Rays](#) [#5073]

Wasson J. T.

[Impact Melting and <sup>182</sup>W Anomalies in Magmatic Iron Meteorites](#) [#5323]

Johnson D. Rahman I. Grady M. M.

[X-Ray Microtomography of a Sulphide Rich Pallasite](#) [#5221]

**Tuesday, July 29, 2008**  
**POSTER SESSION: THE MOON**  
**18:00 Large Exhibition Hall**

Kato M. Takizawa Y. Sasaki S. SELENE Project Team

[\*The Kaguya \(SELENE\) Mission: Present Status and Lunar Science\*](#) [#5209]

Shirao M. Haruyama J. Takeda H. Ohtake M. Matsunaga T. LISM Working Group

[\*Applications of Kaguya's Terrain Camera Images to Promotion of Scientific Education and Geological Researches.\*](#) [#5131]

Otake H.

[\*Subsurface Chemistry of the Imbrium Basin Inferred from Clementine UVVIS Spectroscopy\*](#) [#5244]

Yamamoto A. Arai T. Miyamoto M. Takeda H.

[\*Spectroscopic Study of Nearside Highland by Remote Sensing Data and Apollo 16 Rock Samples\*](#) [#5256]

Nagasawa K. Kawabe S. Saiki K.

[\*Influence of the Specular Reflection on Spectroscopic Identification of the Lithology of Lunar Central Peaks\*](#) [#5171]

Nagaoka H. Karouji Y. Arai T. Shinotsuka K. Ebihara M. Hasebe N.

[\*A Most Ferroan Feldspathic Lunar Meteorite NWA 2200\*](#) [#5246]

Rochette P. Gattacceca J. Ivanov A. Nazarov M. Bezaeva N.

[\*Magnetic Properties of Lunar Materials: Comparison Between Meteorites and Sample Return\*](#) [#5044]

Hallis L. J. Anand M. Russell S. s. Terada K. Rogers N. Hammond S.

[\*Mineralogical and Geochemical Investigations of Mare Basalts from the Apollo Collection\*](#) [#5238]

Zhang A. Hsu W.

[\*Mineralogical and Raman Spectroscopic Studies of Northwestern Africa 2977 Lunar Meteorite\*](#) [#5122]

Turner G.

[\*Neutron Exposure on the Lunar Surface Based on <sup>235</sup>U Fission in Zircon\*](#) [#5225]

Arai S. Terada K. Arai T. Hidaka H. Sano Y.

[\*Ion Microprobe U-Pb Dating of the Yamato-983885 Lunar Meteorite\*](#) [#5074]

**Tuesday, July 29, 2008**  
**POSTER SESSION: MARTIAN METEORITES**  
**18:00 Large Exhibition Hall**

Schmidt G.

[\*The Influence of Impactors on the Chemical Composition of Earth and Mars\*](#) [#5001]

Irving A. J. Kuehner S. M.

[\*Northwest Africa 5298: A Strongly Shocked Basaltic Shergottite Equilibrated at QFM and High Temperature\*](#) [#5332]

Shirai N. Ebihara M.

[\*Constraints on the Magmatism of Mars Inferred from Chemical Compositions and Radiogenic Isotopic Compositions of Shergottites\*](#) [#5248]

Blichert-Toft J. Bouvier A. Albarède F.

[\*A New Perspective on the Evolution of Mars\*](#) [#5242]

Kayama M. Nakazato T. Nishido H. Ninagawa K. Gucsik A. Bérczi Sz.

[\*Shock Pressure Estimation for Martian Meteorite \(Dhofar 019\) by Raman Spectroscopy and Cathodoluminescence\*](#) [#5147]

Nakazato T. Kayama M. Nishido H. Ninagawa K. Gucsik A. Bérczi Sz.

[\*Martian Origin Calcite in Dhofar 019\*](#) [#5150]

Miura Y.

[\*Formation of Spherule-chained Texture by Shocked Kuga Meteorite in Air\*](#) [#5203]

Hargitai H. I. Kereszturi Á. Berczi Sz. Gucsik A. Nagy Sz.

[\*Climate Based Analysis of Martian Surface Morphology\*](#) [#5219]

**Tuesday, July 29, 2008**  
**POSTER SESSION: ASTEROIDS AND COMETS**  
**18:00 Large Exhibition Hall**

Kelley M. S. Reddy V. Gaffey M. J.  
[\*Analyses of Near-IR Spectra for Three Asteroids in the Hungaria Region\*](#) [#5273]

Sears D. W. G. Gietzen K. Ostrowski D. Lacy C. Chevrier V.  
[\*Primitive Materials on Asteroids\*](#) [#5237]

Davison T. M. Collins G. S. Ciesla F. J.  
[\*Numerical Modeling of Shock Heating in Porous Planetesimal Collisions\*](#) [#5288]

Petrov D. V. Shkuratov Yu. G.  
[\*Interpretation of Remote Sensing Data with Sh-Matrix Method\*](#) [#5186]

Ohtsuka K. Arakida H. Ito T. Yoshikawa M. Asher D. J.  
[\*Apollo Asteroid 1999 YC: Another Large Member of the PGC?\*](#) [#5055]

**Tuesday, July 29, 2008**  
**POSTER SESSION: STARDUST AND MICROMETEORITES**  
**18:00 Large Exhibition Hall**

van Ginneken M. Folco L. Rochette P. Perchiazzi N.  
[\*An Unusual Particle from the Transantarctic Mountain Micrometeorite Collection Likely Related to the ca. 480 ka Cosmic Dust Layer in the EPICA Dome-C and Dome Fuji Ice Cores\*](#) [#5087]

Imae N. Iwata N.  
[\*Comparative Study of Anhydrous Minerals in Micrometeorites and Carbonaceous Chondrites\*](#) [#5041]

Yamauchi Y. Nakamura T. Doi M. Nakamoto T.  
[\*Mineralogy and Size Distribution of Large Micrometeorites Recovered from the Blue Ice Field at Cape Tottuki in Antarctica\*](#) [#5137]

Greenberg M. Ebel D. S.  
[\*Nondestructive 3D Confocal Laser Imaging and Analysis of Stardust Track #82 and Deconvolution Techniques\*](#) [#5300]

Genge M. J. Taylor S.  
[\*Barred Olivine Chondrule Fragments Amongst Micrometeorites\*](#) [#5249]

Keller L. P. Flynn G. J.  
[\*Mid- and Far-Infrared Spectra of Anhydrous Interplanetary Dust Particles\*](#) [#5295]

Kimura Y. Kaito C. Nuth J. A. III  
[\*Crystallinity of Mg-bearing Silicate Grains due to Condensation or Thermal Evolution\*](#) [#5168]

Maurette M.  
[\*Micrometeorite Constraints on the Sources of the Sporadic Meteoroid Cloud\*](#) [#5007]

Quirico E. Montagnac G. Reynard B.  
[\*UV Raman Spectroscopy as a Powerful Tool for Investigating Insoluble Organic Matter of Chondrites and Cometary Dust\*](#) [#5226]

Nakamoto T. Doi M. Nakamura T. Yamauchi Y.  
[\*Shapes of Cosmic Spherules: What Do They Tell Us?\*](#) [#5243]

Varela M. E. Kurat G.  
[\*Glasses in Micrometeorites\*](#) [#5115]

Zubko E. Kimura H. Shkuratov Yu. Muinonen K. Yamamoto T. Videen G.  
[\*Light Scattering by Highly Absorbing Irregularly Shaped Particles\*](#) [#5173]

**Tuesday, July 29, 2008**  
**POSTER SESSION: IMPACT CRATERING AND SHOCK EFFECT**  
**18:00 Large Exhibition Hall**

Berndt J. Deutsch A. Mezger K. Schulte P.

[ODP LEG207 — A Surprisingly Pristine K-T Boundary. II – Trace Elements](#) [#5190]

Echaurren J. C.

[Mathematical Estimations for Impact Conditions on Argyre Planitia, Mars](#) [#5013]

Kofman R. S. Herd C. D. K. Walton E. L. Froese D. G. Herd E. P. K.

[A Geologic Overview of the Late Holocene Whitecourt Meteorite Impact Crater](#) [#5109]

Mihályi K. Gucsik A.

[Distribution of the Terrestrial Meteorite Craters: A Review](#) [#5012]

Núñez del Prado H. Pari W. Ramirez-Cardona M. Macharé J. Macedo L.

[Reconstruction of an Impact Event in Carancas, Southern Perú, from a GPR Study on a Small Crater](#) [#5269]

Rózsa P. Uzonyi I. Szöör Gy. Pelicon P. Simcic J. Cserhádi Cs. Daróczi L. Gucsik A.

Szabó Gy. Kiss Á. Z.

[Study on Impact Materials Around the Barringer Meteor Crater by ED-SEM and Micro-PIXE Techniques](#) [#5011]

Usami T. Toyoda S. Noritake K. Ninagawa K.

[The Effect of Impact on Paramagnetic Defects in Quartz](#) [#5192]

Vishnevsky S. A. Gibsher N. A. Palchik N. A.

[Co-Genetic Fluid+Melt Jets in the Popigai Lechatelierites: A Multi-Stage Origin](#) [#5071]

Aoki T. Nakamura Y. Toh S. Nakamura T.

[TEM Observations of Synthesized Forsterite Crystals After Shock Experiments](#) [#5164]

Nagy Sz. Okumura T. Gucsik A.

[Cathodoluminescence Characterization of Shocked K-Feldspar from Bosumtwi Meteorite Crater](#) [#5028]

Okumura T. Gucsik A. Nishido H. Ninagawa K. Schmieder M. Buchner E.

[Cathodoluminescence Characterization of "Ballen Quartz" in Impactites](#) [#5198]

Miura Y.

[Rosettes Textures with Meteoritic Elements of some Japanese Meteorites](#) [#5189]

Schaefer L. Fegley B. Jr.

[Chemistry During Accretion of the Earth. II. Rock-forming Elements in the "Steam" Atmosphere](#) [#5037]

**Tuesday, July 29, 2008**  
**POSTER SESSION: ISOTOPIC ANOMALIES**  
**18:00 Large Exhibition Hall**

Bonal L. Huss G. R. Krot A. N. Nagashima K.

[\*Isotopic Characterization of the Organic Matter in the Lithic Clasts in the CH/CB-like Chondrite Isheyevo\*](#) [#5130]

Kondo T. Hidaka H. Yoneda S.

[\*Large Samarium Isotopic Shift of the Norton County Meteorite by Neutron Capture Effect\*](#) [#5152]

Wang G. Lin Y. Wang D.

[\*Comparison of Mg Isotope Compositions Between Bulk Meteorites and Mafic-Ultramafic Rocks from Terrestrial Mantle\*](#) [#5146]

**Tuesday, July 29, 2008**  
**POSTER SESSION: CLASSIFICATION OF METEORITES**  
**18:00 Large Exhibition Hall**

Ninagawa K. Matsui H. Imae N. Kojima H.

[\*Thermoluminescence Study in the Japanese Antarctic Meteorites Collection: Yamato 98 Unequilibrated Ordinary Chondrites\*](#) [#5166]

Pucheta F. N. Cassino F. S. L.

[\*Brazilian Meteorite Patos de Minas \(Octahedrite\)\*](#) [#5116]

Leclerc M. D. Valenzuela E. M. Jull A. J. T.

[\*<sup>14</sup>C Terrestrial Ages of Meteorites from the Atacama Desert \(Chile\)\*](#) [#5019]

Reedy R. C.

[\*Cosmogenic Argon Isotopes: Cross Sections and Production Rates\*](#) [#5252]

Ouazaa N. Perchiazzi N. Kassaa S. Zeoli A. Ghanmi M. Folco L.

[\*Meteorite Finds from Southern Tunisia\*](#) [#5090]

Kusuno H. Fukuoka T. Kojima H. Matsuzaki H.

[\*The <sup>26</sup>Al Concentration In 53 Antarctic Meteorites\*](#) [#5174]

Jull A. J. T. Leclerc M. D. Biddulph D. L. McHargue L. R. Burr G. S. Al-Kathiri A.

Gnos E. Hofmann B.

[\*Radionuclide Studies of Meteorites from Ramlat al Wahibah and Other Omani Desert Locations\*](#) [#5020]

**Tuesday, July 29, 2008**  
**POSTER SESSION: LABORATORY RESEARCH AND ANALYTICAL DEVELOPMENT**  
**18:00 Large Exhibition Hall**

Fletcher L. A. Bastien R. Allen C. C.

[\*A Testbed for Advanced Cold Curation of Astromaterials\*](#) [#5066]

Reinhard B. Lattard D. Burchard M. Trieloff M. Dohmen R. Klevenz M. Pucci A.

[\*Laboratory Experiments on the Kinetics of Thermal Annealing of Dust in Proto-Planetary Disks\*](#) [#5250]

McKibbin S. J. Avila J. N. Ireland T. R. Holden P. O'Neill H. St. C.

[\*Isotopic Compositions and Systematics of Early Solar System and Presolar Materials: An Evaluation of Matrix Effects and Mass Interferences\*](#) [#5149]

Srinivasan G.

[\*Research on Extra Terrestrial Samples in Large Public Institutions I: Challenges to Lab Integrity and Solutions\*](#) [#5106]

**Tuesday, July 29, 2008**  
**POSTER SESSION: HISTORICAL ASPECTS**  
**18:00 Large Exhibition Hall**

Mardon A. A.

[\*Manito Stone: Native Cree Beliefs of the Iron Creek Alberta, Canada Iron Meteorite\*](#) [#5003]

Mardon C. A. Mardon A. A. Mardon E. G.

[\*Comet References by the Venerable Bede in Historia Ecclesiastica Observed in 678 C.E. and 729 C.E.\*](#) [#5024]

**Tuesday, July 29, 2008**  
**POSTER SESSION: OTHERS**  
**18:00 Large Exhibition Hall**

Bérczi Sz. Gucsik A. Hargitai H. Kereszturi A. Nagy Sz.

[Concise Atlas of the Solar System \(11\): Comparison of the Petrographic Textures and Evolutionary Processes in the Parent Bodies](#) [#5163]

Hudoba Gy. Hegyi S. Drommer B. Józsa S. Hargitai H. Bérczi Sz.

[Planetary Analog Field Trips at Hungarian Sites with University Space Probe Models Hunveyor and Husar](#) [#5324]

**Wednesday, July 30, 2008**  
**AWARD CEREMONY**  
**08:30 International Conference Hall**

**Chairs:** J. I. Goldstein  
H. Nagahara

08:30 **Presidential Address**  
Goldstein J. I. \* [INVITED]  
[\*Cooling Rates of Meteoritic Metal — Progress and the Future\*](#) [#5057]

09:30 **Meteoritical Society Award Presentation**

Leonard Medal  
Citation: Joseph I. Goldstein  
Acceptance: Edward R. D. Scott

Barringer Medal and Award  
Citation: Alan Hildebrand  
Acceptance: Frank T. Kyte

Nier Prize  
Citation: Gary R. Huss  
Acceptance: Shogo Tachibana

Meteoritical Society's Service Award  
Citation: David A. Kring  
Acceptance: Drew H. Barringer

10:30 **Barringer Medal Lecture**  
Kyte F. \* [INVITED]  
*Eltanin: The Only Known Deep-Ocean Impact Produced the Most Meteorite-rich Region  
Known on Earth*

11:30 **Leonard Medal Lecture**  
Scott E. R. D. \*  
[\*Meteorite Parent Bodies: What Can They Tell Us About the Formation and Evolution of the  
Asteroid Belt?\*](#) [#5284]

**Thursday, July 31, 2008**  
**IMPACT CRATERING AND SHOCK EFFECT I**  
**08:30 Multipurpose Hall**

**Chairs:** C. Koeberl  
A. Walton

- 08:30 Yanagisawa M. \* Ikegami H. Ishida M. Karasaki H. Takahashi J. Kinoshita K. Ohnishi K.  
[Lunar Impact Flashes by Geminid Meteoroids in 2007](#) [#5169]
- 08:45 Hermalyn B. \* Schultz P. H. Anderson J. L. B. Heineck J. T.  
[Evolution of Impact Ejection Angles: Implications for Early-Stage Coupling](#) [#5234]
- 09:00 Herd C. D. K. Walton E. L. \* Froese D. G. Herd E. P. K. Kofman R. S.  
[The Discovery of a Late Holocene Impact Crater near Whitecourt, Alberta](#) [#5108]
- 09:15 Koeberl C. \*  
[Impactor Type of the Late Eocene Age Impact Craters on Earth: Constraints from Impactite Studies at the Chesapeake Bay Impact Structure](#) [#5313]
- 09:30 Bartosova K. \* Mader D. Schmitt R. T. Koeberl C. Reimold W. U.  
[Alteration of Impactites from the Chesapeake Bay Impact Structure, USA](#) [#5097]
- 09:45 Folco L. \* D'Orazio M. Ottolini L. Tonarini S. Rochette P.  
[Transantarctic Mountain Microtektites: New Petrographic Data, Water Content, and Nd and Sr Isotopic Composition](#) [#5086]
- 10:00 Deutsch A. Langenhorst F. \* Heide K. Luetke S.  
[Bediasites and Ivory Coast Tektites: Gas Content and Compositional Homogeneity](#) [#5262]
- 10:15 Schulte P. Deutsch A. \*  
[ODP LEG207 — A Surprisingly Pristine K-T Boundary. I — Sedimentology, Mineralogy, Sr-Nd Isotope Systematics](#) [#5185]
- 10:30 Nishioka I. Funaki M. \*  
[Irreversible Changes in Anisotropy of Magnetic Susceptibility: Study of Basalt from Lunar Crater and Experimentally Impacted Basaltic Andesite](#) [#5207]
- 10:45 Swindle T. D. \* Kimura M.  
[<sup>40</sup>Ar-<sup>39</sup>Ar Studies of Heavily-shocked Yamato Chondrites](#) [#5045]
- 11:00 Ozawa S. \* Ohtani E. Suzuki A. Miyahara M. Terada K. Kimura M.  
[Pressure-Temperature Conditions and U-Pb Ages of Shock Melt Veins in L6 Chondrites](#) [#5042]
- 11:15 Miyahara M. \* Kimura M. Ohtani E. El Goresy A. Ozawa S. Nagase T. Nishijima M.  
[Further Evidence for Ubiquitous Fractional Crystallization of Wadsleyite and Ringwoodite from Olivine Melt](#) [#5017]
- 11:30 El Goresy A. \* Miyahara M. Ohtani E. Nagase T. Nishijima M. Washaei Z. Ferroir T. Gillet Ph. Dubrovinsky L. Simionovici A.  
[Evidence for Fractional Crystallization of Wadsleyite and Ringwoodite from Individual Olivine Melt Pockets in Chondrules Entrained in Shock Melt Veins](#) [#5002]
- 11:45 Sharp T. G. \* Xie Z. De Carli P. S.  
[Shock Veins in L6 Chondrites and Constraints on the Impact History of the L6 Parent Body](#) [#5317]

**Thursday, July 31, 2008**  
**EARLY SOLAR SYSTEM**  
**08:30 Small Hall**

**Chairs:** S. Tachibana  
F. Ciesla

- 08:30 Caffee M. W. \* Faestermann T. Hertenberger R. Herzog G. F. Korschinek G. Leya I. Reedy R. C. Sisterson J. M.  
[Calcium-41 Production in the Solar System](#) [#5110]
- 08:45 Zhukovska S. Gail H.-P. Trieloff M. \*  
[A Large Fraction of Interstellar Dust with Solar Isotopic Composition](#) [#5159]
- 09:00 Schönbacher M. \* Baker R. G. A. Williams H. Halliday A. N. Rehkämper M.  
[The Cadmium Isotope Composition of Chondrites and Euclites](#) [#5268]
- 09:15 Hidaka H. \* Yoneda S.  
[Barium Isotopic Composition of Chondrules in the Sayama Meteorite](#) [#5153]
- 09:30 Chaussidon M. \* Barrat J. A.  
[Extinct <sup>60</sup>Fe in the Euclite NWA 4523](#) [#5178]
- 09:45 Tachibana S. \* Nagahara H. Ozawa K. Tamada S.  
[Non-Equilibrium Condensation in the Mg-Si-O System: An Experimental Study](#) [#5270]
- 10:00 Krause M. Blum J. Trieloff M. \*  
[Physical Properties of High-Porosity Dust Aggregates](#) [#5095]
- 10:15 Teiser J. \* Wurm G. Haack H. Bischoff A. Roszjar J.  
[Chondrules and Photophoresis — Old Friends Meet Again!](#) [#5080]
- 10:30 Haack H. \* Wurm G.  
[Outward Transport of CAIs during FU Orionis Events](#) [#5142]
- 10:45 Ciesla F. J. \*  
[Two-Dimensional Transport in the Solar Nebula: More Complex Disk Structures](#) [#5292]
- 11:00 Wakita S. \* Sekiya M.  
[Numerical Simulations of Planeterimal-forming Gravitational Instability in a Protoplanetary Disk Using a Thin Dust Layer Model](#) [#5004]
- 11:15 Crowther S. A. \* Gilmour J. D.  
[Solar Xenon in Genesis Silicon Samples](#) [#5236]
- 11:30 Heber V. S. \* Baur H. Wieler R. Wiens R. C. Burnett D. S.  
[Argon, Krypton, and Xenon Abundances in the Solar Wind Measured in Silicon from the Genesis Mission](#) [#5267]
- 11:45 Marty B. \* Zimmermann L. Burnard P. G. Burnett D. L. Allton J. H. Wiens R. C. Heber V. S. Wieler R. Bochsler P. Sestak S. Franchi I. A.  
[Nitrogen Isotopes in the Recent Solar Wind: Further Analysis of Gold-plated Concentrator Frame from Genesis](#) [#5281]

**Thursday, July 31, 2008**  
**IMPACT CRATERING AND SHOCK EFFECT II**  
**14:00 Multipurpose Hall**

**Chairs:** A. El Goresy  
T. Sharp

- 14:00 Xie Z. \* Sharp T. G. Leinenweber K. DeCarli P. S.  
[\*Natural Occurrence of a New Mineral with an Olivine Structure and Pyroxene Composition in the Shock-induced Melt Veins of Tenham L6 Chondrite\*](#) [#5049]
- 14:15 Feng L. \* Lin Y.  
[\*Extracting Compositions from Raman Spectra of Ringwoodite in the Heavily Shocked Grove Mountains Meteorites\*](#) [#5077]
- 14:30 Chennaoui Aoudjehane H. \* Jambon A.  
[\*First Evidence of High Pressure Silica: Stishovite and Seifertite in Lunar Meteorite Northwest Africa 4734\*](#) [#5058]
- 14:45 Kubo T. \* Kimura M. Nishi M. Tominaga A. Kato T. Kikegawa T.  
Funakoshi K. Miyahara M.  
[\*Formation of Jadeite from Plagioclase: Constraints on the P-T-t Conditions of Shocked Meteorites\*](#) [#5180]
- 15:00 Akaogi M. \* Haraguchi M. Yaguchi M. Nakanishi K. Kojitani H.  
[\*High-Pressure Phase Relations of Ca,Na-Aluminosilicate, CAS Phase, with Implication to Shocked Martian Meteorites\*](#) [#5046]

**Thursday, July 31, 2008**  
**PRE-SOLAR MATERIALS**  
**15:15 Multipurpose Hall**

**Chairs:** U. Ott  
C. Floss

- 15:15 Ott U. \* Huss G. R.  
[Trapping of Cosmic Ray Helium by Interstellar Diamond](#) [#5089]
- 15:30 Amari S. \*  
[On the Origin of  \$^{22}\text{Na}\$  in Ne-E\(L\)](#) [#5271]
- 15:45 Vollmer C. \* Stadermann F. J. Floss C. Hoppe P. Brenker F. E.  
[Atypical Magnesium Abundances in Oxygen-rich Stardust: NanoSIMS and Auger Analyses](#) [#5054]
- 16:00 Leitner J. \* Hoppe P. Huth J. Zipfel J.  
[NanoSIMS Search for Presolar Grains in Matter from Comet 81P/Wild 2 and the CR Chondrite NWA 852](#) [#5053]
- 16:15 Nguyen A. N. Alexander C. M. O'D. \* Nittler L. R.  
[An Abundant Mix of Presolar Matter in the Highly Primitive CR Chondrite QUE 99177](#) [#5277]
- 16:30 Stroud R. M. \* Nguyen A. N. Alexander C. M. O'D. Nittler L. R. Stadermann F. J.  
[Transmission Electron Microscopy of In Situ Presolar Silicates in Alan Hills 77307](#) [#5201]
- 16:45 Bose M. \* Floss C. Stadermann F. J.  
[Iron-enriched Stardust Grains in the Meteorites Acfer 094, QUE 99177 and MET 00426](#) [#5094]
- 17:00 Hoppe P. \* Leitner J. Amari S.  
[A Presolar SiC Grain from a Supernova with Unusual Si-Isotopic Composition](#) [#5015]
- 17:15 Avila J. N. \* Ireland T. R. Holden P. Gyngard F. Bennett V. Amari S. Zinner E.  
[Tungsten Isotopic Compositions in Presolar Silicon Carbide Grains](#) [#5120]

**Thursday, July 31, 2008**  
**MARTIAN METEORITES**  
**14:00 Small Hall**

**Chairs:** F. Albarede  
T. Usui

- 14:00 Lin Y. \* Liu T. Shen W. Xu L. Miao M.  
[Grove Mountains \(GRV\) 020090: A Highly Fractionated Lherzolitic Shergottite](#) [#5076]
- 14:15 Schwenzer S. P. \* Herrmann S. Ott U.  
[Noble Gases in Two Shergottites and a Nakhlite from Antarctica: Y-000027, Y-000097, and Y-000593](#) [#5009]
- 14:30 Nagao K. \* Park J.  
[Noble Gases and Cosmic-Ray Exposure Ages of Two Martian Shergottites, RBT 04262 and LAR 06319, Recovered in Antarctica](#) [#5200]
- 14:45 Theis K. J. \* Lyon I. Burgess R. Turner G.  
[Iron Isotope Composition of Zoned Carbonates from ALH 84001](#) [#5218]
- 15:00 Dauphas N. \* Morris R. V.  
[Iron Isotopes in Products of Acid-Sulfate Basalt Alteration: A Prospective Study for Mars](#) [#5119]
- 15:15 Tomkinson T. \* Wade J. Busemann H. Franchi I. A. Hagermann A. Wright I. P. Wolters S. Grady M. M.  
[Studying the Oxygen and Carbon Isotope Characteristics of Carbonate Analogues to ALH 84001](#) [#5286]
- 15:30 Poulet F. \* Sautter V. Mangold N. Bibring J.-P. Bardintzeff J.-M. Platevoet B. Langevin Y. Gondet B.  
[The Martian Surface Revisited by MEx/OMEGA and Implications for the Formation of Shergottites](#) [#5051]
- 15:45 Scorzelli R. B. \* Munayco P. Varela M. E.  
[Fe<sup>2+</sup> Disorder Study in Pyroxene from the Shergotty Meteorite by Mössbauer Spectroscopy](#) [#5059]
- 16:00 McAdam A. C. Hoffman E. J. \* Coleman A. Jr. Sharp T. G. Harvey R. P.  
[Iron Oxides in Ferrar Dolerite Weathering Products \(Martian Soil Analogs\)](#) [#5293]
- 16:15 Needham A. W. \* Smith C. L. Sephton M. A. Martins Z. Russell S. S.  
[Gamma Irradiation Effects on Martian Analogues](#) [#5279]
- 16:30 Hoffmann V. \* Funaki M. Torii M. Hochleitner R. Classen N.  
[Systematic Survey on the Magnetic Signature of Martian Meteorites \(SNC\): Extending the Database](#) [#5233]
- 16:45 Albarede F. \*  
[Water in Terrestrial Planets](#) [#5117]

- 17:00 Spencer L. M. \* McKay D. S. Gibson E. K. Thomas-Keprta K. L.  
Wentworth S. J. Clemett S. J.  
[\*Observation and Analysis of Martian Meteorite Y-000593: Evidence of Biosignatures\*](#) [#5114]
- 17:15 Thomas-Keprta K. L. \* Clemett S. J. McKay D. S. Gibson E. K.  
Wentworth S. J. FEI Corporation  
[\*Reassessment of the "Life on Mars" Hypothesis\*](#) [#5212]

**Friday, August 1, 2008**  
**DIFFERENTIATED METEORITES II: ACHONDRITES**  
**08:30 Multipurpose Hall**

**Chairs: J. Herrin**  
**E. Grew**

- 08:30 Miura Y. N. \*  
[\*Noble Gas Studies of Eucrites, Diogenites and some Other Achondrites\*](#) [#5191]
- 08:45 Barrat J. A. \* Bohn M. Gillet P. Yamaguchi A.  
[\*Impact Glasses in Howardites: K-rich Lithologies and Granites on 4-Vesta\*](#) [#5165]
- 09:00 Korochantseva E. V. Buikin A. I. Lorenz C. A. Hopp J. Trieloff M. \*  
[\*<sup>40</sup>Ar-<sup>39</sup>Ar Dating of New Eucrite Dhofar 1439 Reveals a Recent Impact Event on the Eucrite Parent Body\*](#) [#5161]
- 09:15 Isa J. \* Shinotsuka K. Yamaguchi A. Ebihara M.  
[\*Chemical Characteristics of Northwest Africa 011 and Northwest Africa 2976\*](#) [#5204]
- 09:30 Nakashima D. \* Nagao K. Irving A. J.  
[\*Noble Gases in Angrites NWA 2999/4931, NWA 4590 and NWA 4801: Exposure Ages and Evidence of Fissiogenic Xe\*](#) [#5078]
- 09:45 McKibbin S. J. \* Ireland T. R. Amelin Y. O'Neill H. St. C. Holden P.  
[\*A New Ion-Probe Determination of <sup>53</sup>Mn/<sup>55</sup>Mn in D'Orbigny and Sahara 99555 Using Matrix-matched Standards\*](#) [#5132]
- 10:00 Nyquist L. E. \* Shih C.-Y. Reese Y. D. Treiman A. H.  
[\*Early Partial Melting of the GRA 06128/9 PB from Sm-Nd and Rb-Sr Isotopic Studies\*](#) [#5223]
- 10:15 Grew E. S. \* Yates M. G. Beane R. J. Floss C. Gerbi C.  
[\*Chopinite-Sarcopside Solid Solution, \(Mg,Fe\)<sub>3</sub>\(PO<sub>4</sub>\)<sub>2</sub>, in Lodranite GRA 95209\*](#) [#5006]
- 10:30 Touboul M. \* Kleine T. Bourdon B. Van Orman J. A. Maden C. Zipfel J. Irving A. J. Bunch T. E.  
[\*Hf-W Thermochronometry of the Acapulcoite-Lodranite Parent Body\*](#) [#5301]
- 10:45 Lee D-C. \*  
[\*<sup>182</sup>Hf-<sup>182</sup>W Chronometry and the Evolution of Acapulcoite-Lodranite Parent Body\*](#) [#5141]
- 11:00 Schulz T. \* Münker C. Palme H. Mezger K.  
[\*Thermal Evolution of Primitive Achondrite Parent Bodies\*](#) [#5111]
- 11:15 Greenwood R. C. \* Franchi I. A. Gibson J. M. Benedix G. K.  
[\*Oxygen Isotope Variation Within the Primitive Achondrites\*](#) [#5318]
- 11:30 Miao B. \* Lin Y. Wang D. Hu S. Shen W. Wang X.  
[\*Grove Mountains \(GRV\) 052382 — Likely a Most Heavily Shocked Ureilite\*](#) [#5060]
- 11:45 Nakamuta Y. \*  
[\*In Situ Observation of Diamonds in Ureilites by Raman Spectroscopy\*](#) [#5032]

- 12:00 Takeda H. \* Yamaguchi A.  
[\*Two Olivine-rich Ureilites Among Nine New Northwest Africa Ureilites and Their Proposed Origin\*](#) [#5187]
- 12:15 Herrin J. S. \* Mittlefehldt D. W. Jones J. H.  
[\*Petrogenesis of Fe,Si-metals in Brecciated Ureilites\*](#) [#5327]

**Friday, August 1, 2008**  
**MANY CHONDRITES**  
**08:30 Small Hall**

**Chairs: T. Nakamura**  
**J. M. Friedrich**

- 08:30 Consolmagno G. J. \* Britt D. T. Macke R. J.  
[\*The Density and Porosity of Carbonaceous Chondrites: A New Look\*](#) [#5038]
- 08:45 Gellissen M. Palme H. \* Zipfel J.  
[\*Small Scale Compositional Variability of the Bulk Allende Meteorite\*](#) [#5306]
- 09:00 Lodders K. \*  
[\*Sulfur in the Orgueil CI Chondrite\*](#) [#5258]
- 09:15 Wasson J. T. \* Rubin A. E.  
[\*Composition of Matrix in C3.0 Acfer 094\*](#) [#5112]
- 09:30 Duffy C. M. \* Bland P. A. Russell S. S. Prior D. J. Mariani E. Kearsley A. T. Howard L. Chater R. Ardakani M. G. McPhail D. Shollock B. A.  
[\*Characterising Primitive Chondrite Matrix: A SEM/TEM/EBSD Study of Acfer 094\*](#) [#5229]
- 09:45 Nakamura T. \* Noguchi T. Okazaki R. Jogo K. Ohtsuka K.  
[\*Mineralogical and Stable Isotope Signatures of El-Ouss Abu Said CM2 Carbonaceous Chondrite: Pristine Material from Outer Asteroid Belt\*](#) [#5124]
- 10:00 Kiriishi M. \* Tomeoka K.  
[\*Northwest Africa 1232-A CO3 Carbonaceous Chondrite with Two Lithologies\*](#) [#5026]
- 10:15 Brunner C. E. \* Ebel D. S. Weisberg M. K.  
[\*Abundances and Sizes of Clast Types in the Allende CV3 Meteorite: New Results from Mapping Analysis\*](#) [#5303]
- 10:30 Grossman J. N. \*  
[\*Measuring the Metamorphic History of Unequilibrated Chondrites Using Single Olivine Grains\*](#) [#5228]
- 10:45 Jones S. F. \* Hildebrand A. R.  
[\*Acoustic Velocity Trends, Porosity, and Pore Geometry in Ordinary Chondrites: Implications for Meteorite and Meteorite Parent Body Elastic Properties\*](#) [#5040]
- 11:00 Matsuda J. \* Tsukamoto H. Miyakawa C. Amari S.  
[\*Noble Gas Study of the Saratov Chondrite \(L4\)\*](#) [#5151]
- 11:15 Friedrich J. M. \* Wignarajah D. P. Chaudhary S. Rivers M. L. Nehru C. E. Ebel D. S.  
[\*Impact-related Preferred 3D Orientation of Metal Grains in L Chondrites\*](#) [#5091]
- 11:30 Rubin A. E. \* Griset C. D. Choi B.-G. Wasson J. T.  
[\*Clastic Matrix in the Y-691 EH3 Chondrite\*](#) [#5101]
- 11:45 Robin C. Quirico E. \* Bourot-Denise M. Montagnac G.  
[\*Metamorphic Grades of Enstatite Chondrites as Revealed by Carbonaceous Matter\*](#) [#5224]

- 12:00 Lehner S. W. \* Buseck P. R. McDonough W. F. Ash R. D.  
[\*Siderophile Element Distribution in Metal-Sulfide Nodules from EH3 Sahara 97072\*](#) [#5275]
- 12:15 van Niekerk D. \* Huss G. Keil K.  
[\*Kamacite Assemblages in EH3 Meteorites\*](#) [#5331]